

LEHIGH RIVER

2001 WATER

QUALITY MONITORING

Prepared for

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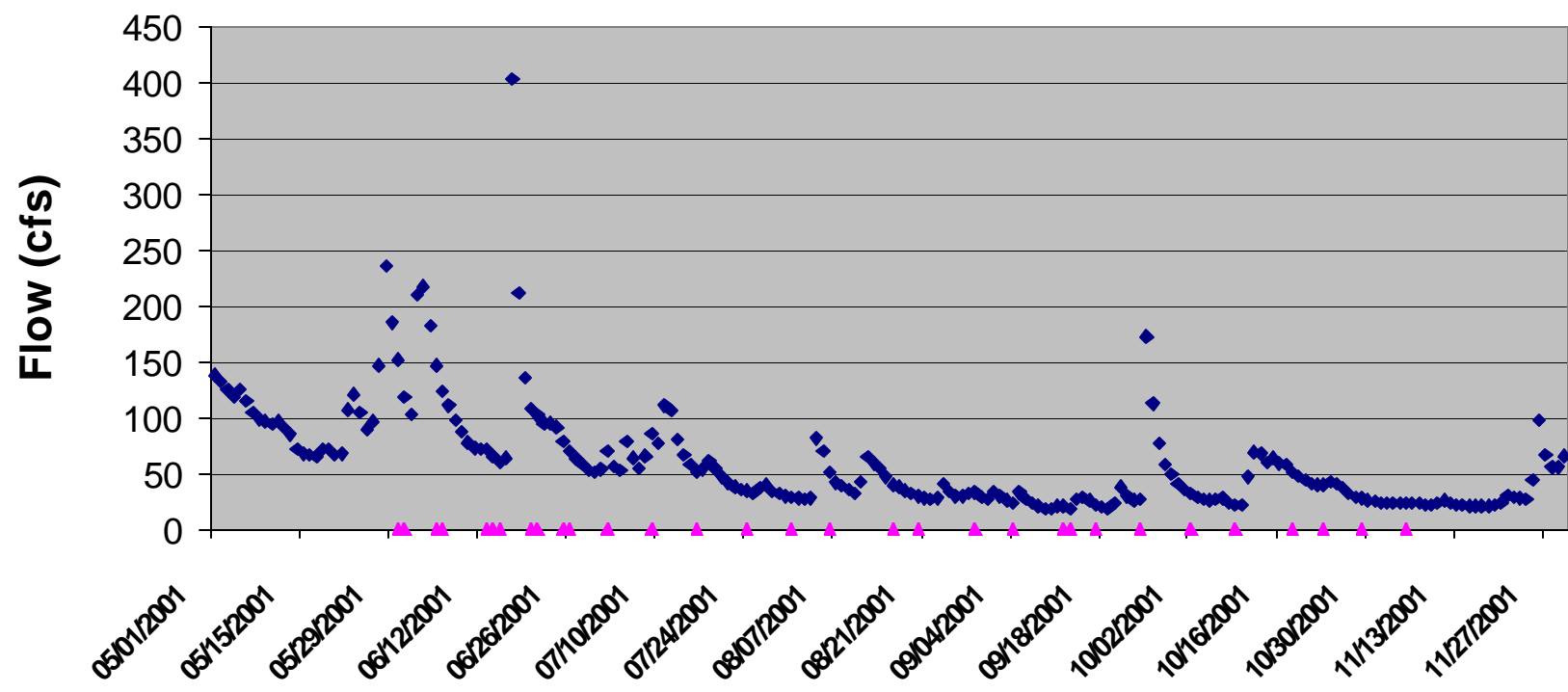
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APPENDIX

USGS Flow Data

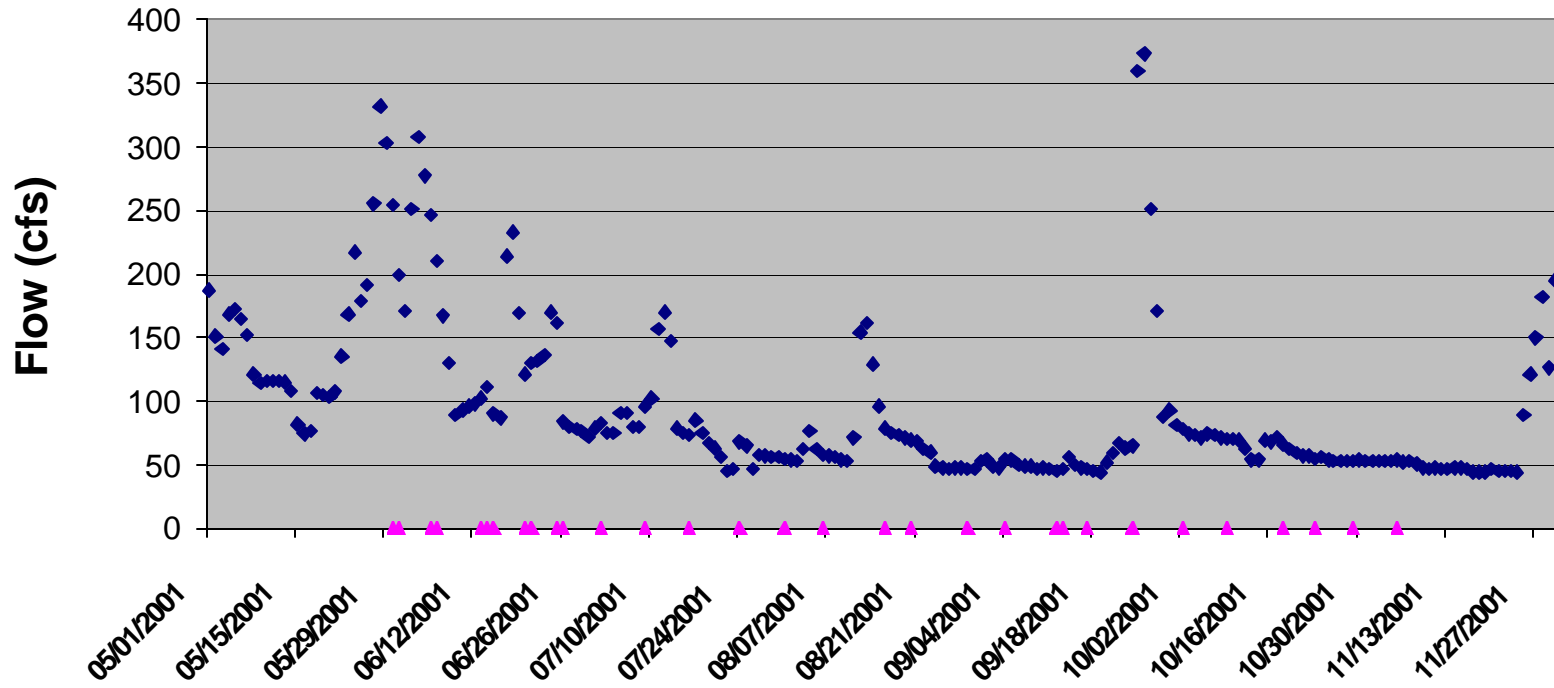
Lehigh River at Stoddartsville, PA (01447500)

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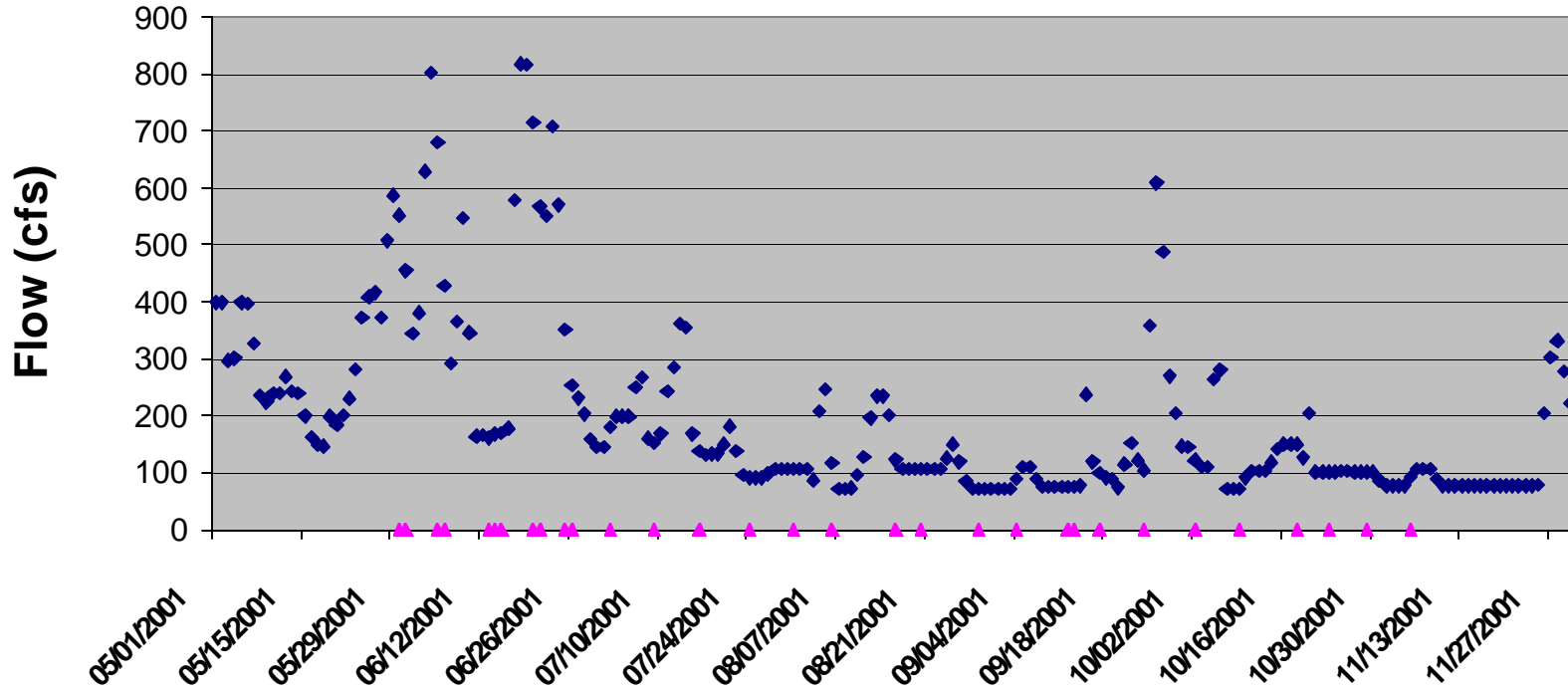
Tobyhanna Creek (01447720)

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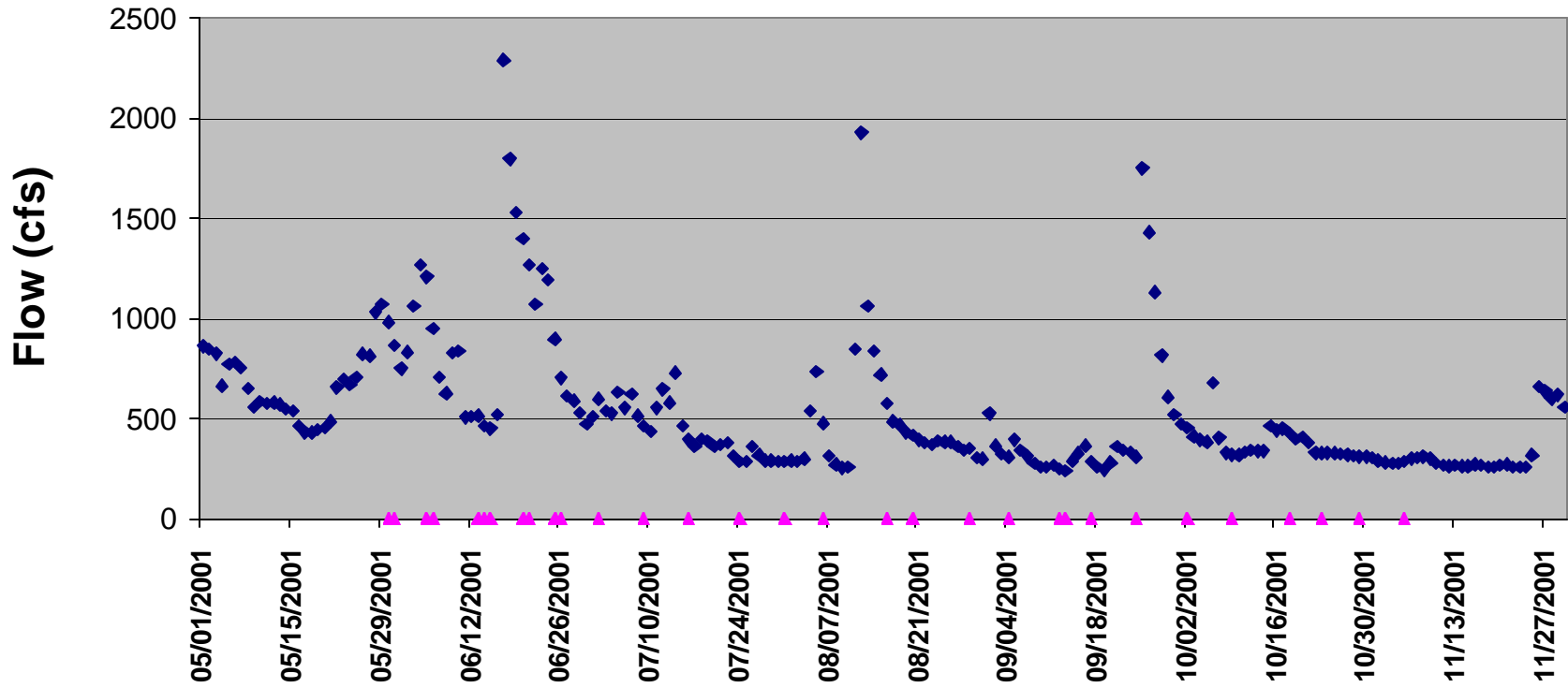
Francis E. Walter Reservoir (01447800)

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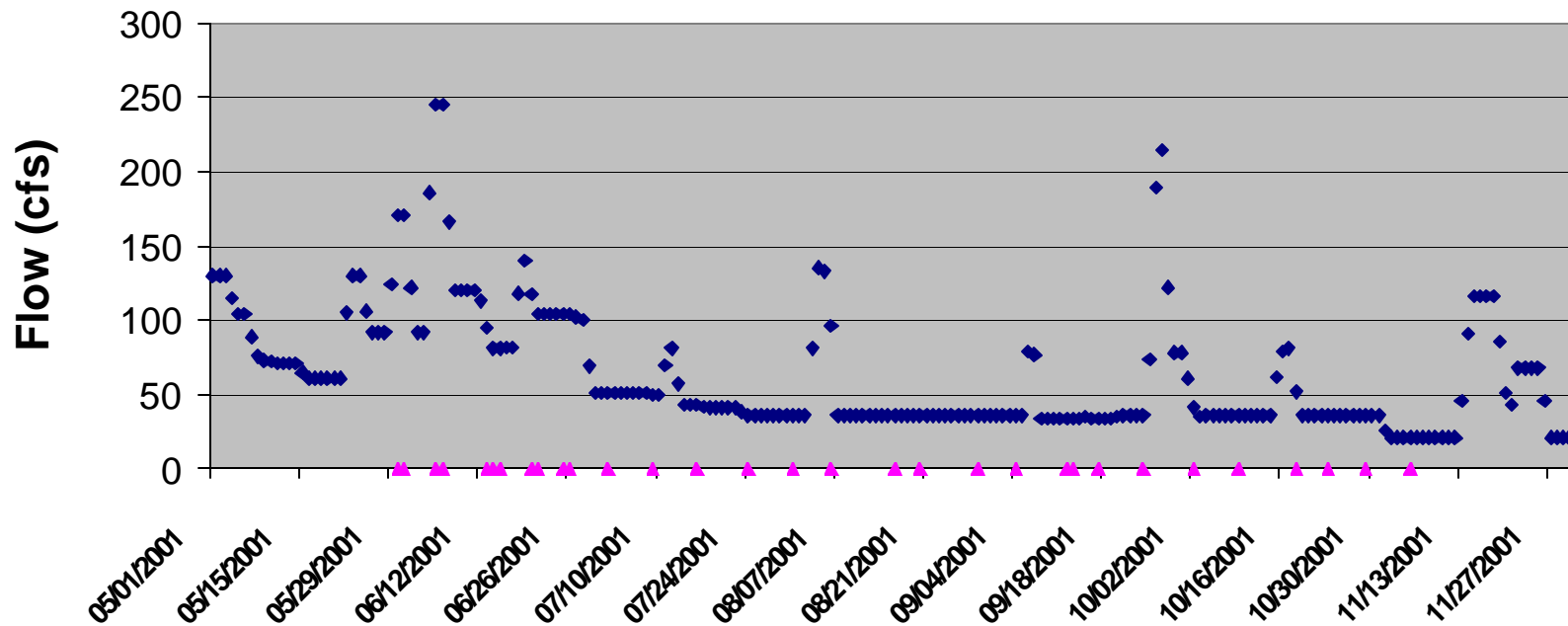
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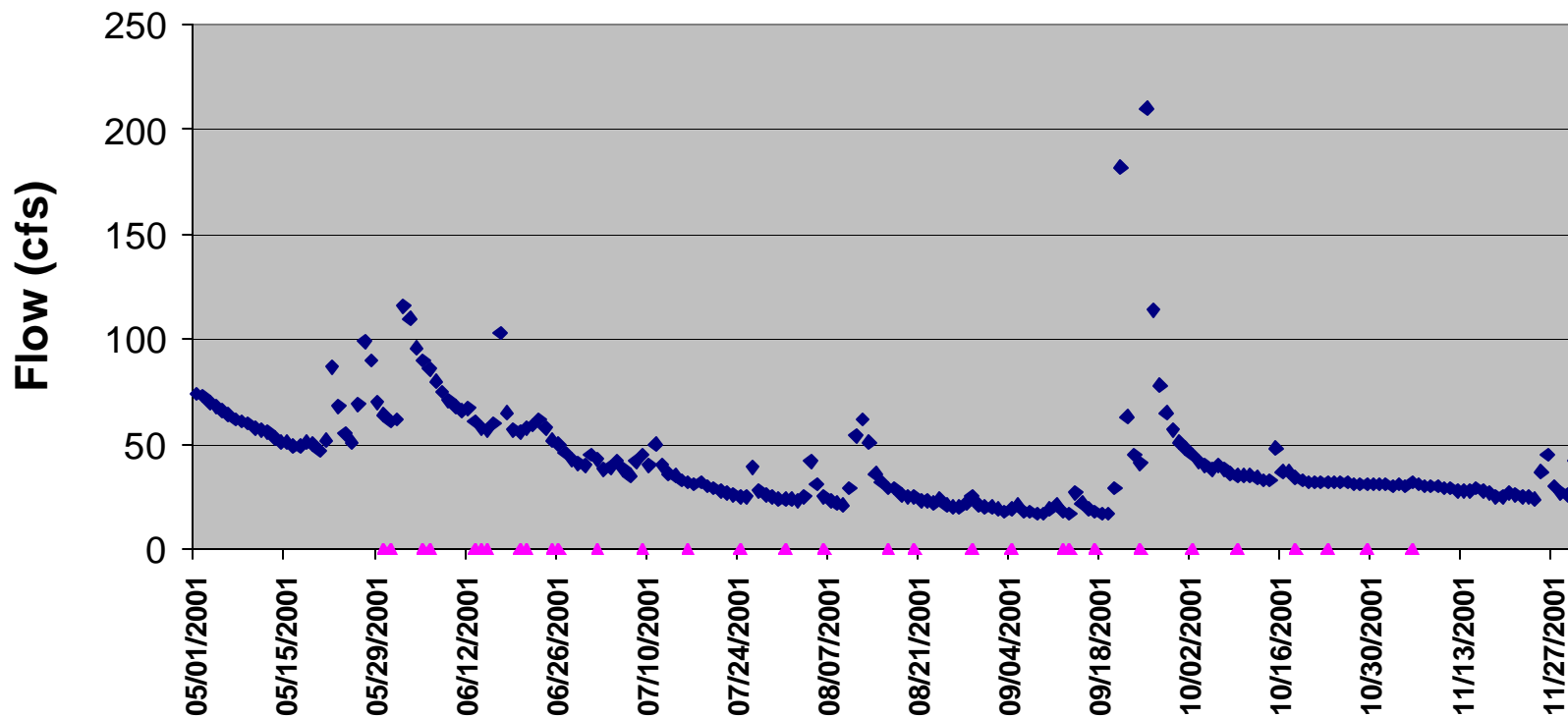
Beltzville Dam (01449800)

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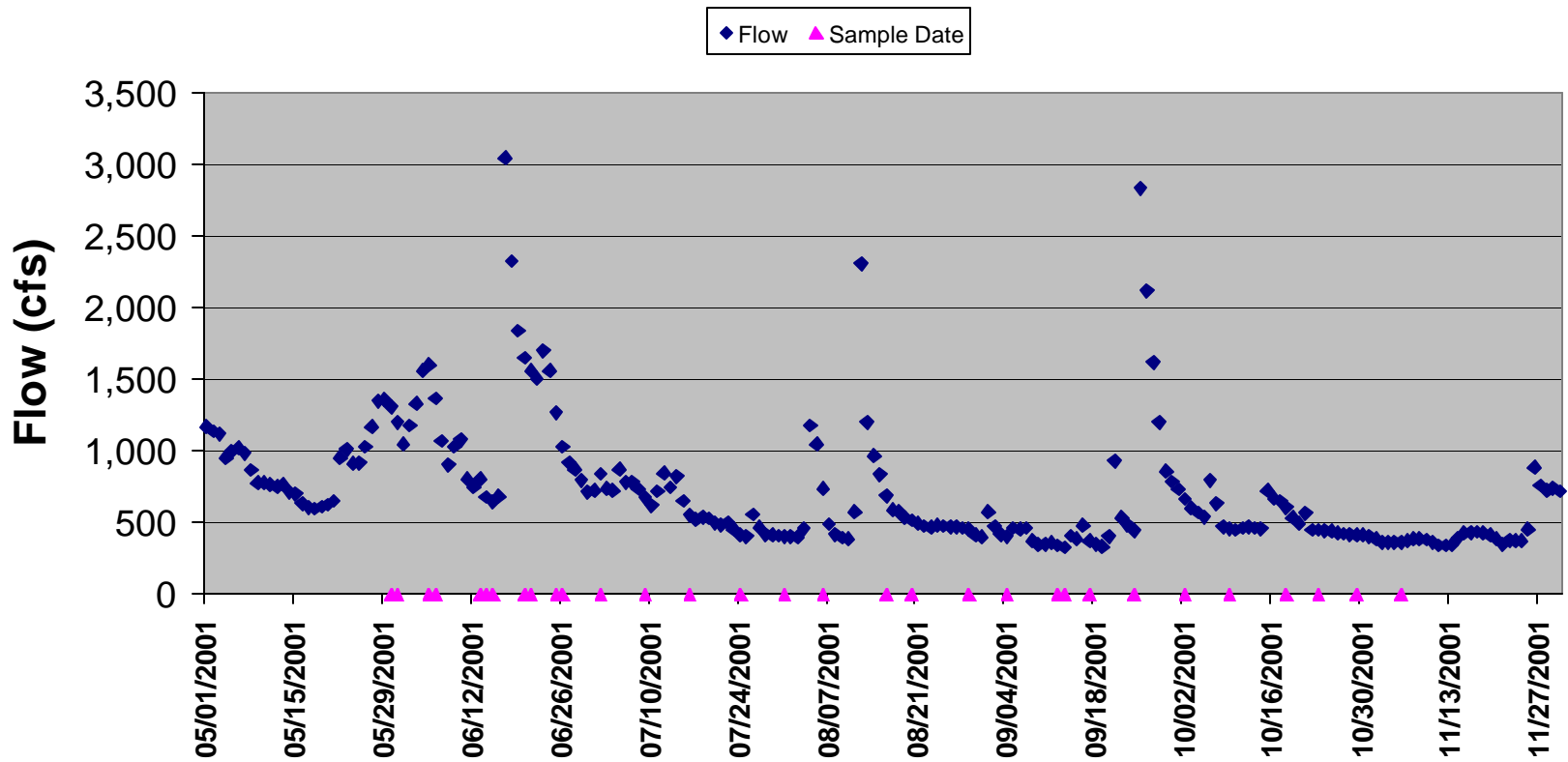


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◆ Flow ▲ Sample Date



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Numerous individuals, groups, agencies and companies cooperated in the planning, development and completion of this study. Without their dedication and work effort this study would not have been possible. Listed below are the study partnership members and their main contributions.

U.S. Army Corps of Engineers, Philadelphia District

The Secretary of the Army, acting through the Chief of Engineers is authorized through Section 22 of the Water Resources Development Act of 1974, as amended, to assist States with comprehensive plans for development, utilization and conservation of water and related resources of drainage basins, watersheds or ecosystems located within a State's boundary. The Philadelphia District secured partial funding to conduct the Lehigh River Water Quality Study under this act. In addition, the Philadelphia District was the lead agency for the study. In cooperation with the study partners, the district coordinated study meetings and field sampling, developed and implemented study plans, secured and managed the sampling contract and was responsible for producing the final report.

Delaware River Basin Commission

The Delaware River Basin Commission took the role of non-federal sponsor for this effort and provided technical oversight for the project. In addition, the Commission provided in-kind services toward the project. This was provided through meetings and field sampling efforts.

Pennsylvania Fish and Boat Commission

The Pennsylvania Fish and Boat Commission dedicated many hours of in-kind services to include attending meetings, field sampling, establishing gauging stations at sampling locations and developing flow rating curves for those sites, and providing technical oversight for the project. In addition, the Pennsylvania Fish and Boat Commission partnered with the Pennsylvania Department of Environmental Protection in developing a database containing the past 5 years of water quality information for the Lehigh River ending in 2000.

Pennsylvania Department of Environmental Protection

The Pennsylvania Department of Environmental Protection provided partial funding toward the project. In addition, a location for meetings was made available, technical and sampling recommendations were provided, and in cooperation with the Pennsylvania Fish and Boat Commission historic sampling data for the river over the past five years ending in 2000 was placed into a database. This was used to assess the quantity and general quality of available data for the river.

Wildlands Conservancy

The Wildlands Conservancy was instrumental in evaluating and recommending sampling locations for the study area as well as securing access at various sampling station locations. In addition, they dedicated numerous personnel and hours on a volunteer basis throughout the study.

United States Fish and Wildlife Service

The Service was unable to dedicate personnel to the study but did provide study oversight.

Lehigh River Watch, Parkland High School

The Lehigh River Watch Team voluntarily maintained a water quality sampling station at Northampton during the study period. This data was incorporated into the study database.

Pennsylvania Department of Conservation and Natural Resources, Lehigh Gorge State Park

The Department of Conservation and Natural Resources provided security and gate access for sampling stations located in the Lehigh Gorge State Park.

Blue Ridge Real Estate, Jack Frost Ski Resort

Blue Ridge Real Estate permitted property access to the Lehigh River and Tobyhanna Creek confluence for establishment of a sampling station adjacent to their property boundary.

Northampton Borough Municipal Authority

The Northampton Bureau Water Authority permitted gate access that allowed the establishment of a sampling station on the Lehigh River adjacent to their property boundary.

Lehigh Water Authority

The Lehigh Water Authority provided personnel access that allowed establishment of a sampling station on the Lehigh River adjacent to their property boundary and water intake.

Boy Scouts of America

The Boy Scouts of America provided gate access that allowed establishment of a sampling station on their property boundary to the Lehigh River and Tobyhanna Creek confluence. Access was provided through the Acahela Boy Scout Camp.

C & S Railroad Company

The C & S Railroad allowed gate access to the rail line access road for establishment of a sampling station on a tributary station adjacent to their rail line property boundary.

Lehigh University

Lehigh University provided student volunteers to participate in field sampling activities on numerous occasions.

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1.0 INTRODUCTION

The Delaware River Basin Commission (DRBC) and the Pennsylvania Department of Environmental Protection (PADEP) have been working toward determining flow needs and related water quality issues on the Lehigh River. An ad hoc committee of the Flow Management Technical Advisory Committee made up of staff of the PADEP; Pennsylvania Fish and Boat Commission (PFBC); U.S. Army Corps of Engineers (USACE); Wildlands Conservancy (WC) and the DRBC determined that in order to predict the impacts of water flows on the uses of the Lehigh River, it would be necessary to measure existing water quality conditions and develop a predictive water quality computer model to assess the flow relationships. PADEP and PFBC personnel compiled available water quality data for the past five years on the Lehigh River from F.E. Walter Reservoir downstream to its confluence with the Delaware. An examination of this database revealed that water quality data collected in the upper and middle sections of the Lehigh River were insufficient to develop and calibrate a reliable water quality/flow model.

Water quality conditions in the Lehigh River downstream of Walter and Beltzville Reservoirs are affected by storage and operations of the reservoirs as well as by point source discharges and watershed conditions, including acid-mine drainage. Of particular interest to resource managers of the river are river water temperature, pH, metals concentration, and to a lesser extent, nutrients and how these parameters may be affected and possibly improved by operational changes of the reservoirs. These key parameters can affect fish and other biota in the river through high temperatures, low pH, and possibly toxic metal concentrations, particularly during low flow or drought conditions.

To provide the data needed to model water quality in the Lehigh a monitoring program was developed and implemented in the spring of 2001. The program was designed to characterize the existing water quality conditions in the Lehigh River. These data were collected in anticipation of follow-up work using existing water quality models such as CE-QUAL-W2 and QUAL2E. Using Section 22 funds from the Water Resources Development Act and in a joint effort between PFBC, DRBC, WC, and USACE, an intensive water quality monitoring effort was conducted between May and November 2001. The collection and the analyses of the samples at the stream boundaries and on the Lehigh mainstem were conducted by a combination of staff from the PFBC, PADEP, Wildlands Conservancy, USACE contractors, and other volunteer sources. Approximately 600 samples were analyzed in the 2001 monitoring effort. If additional funding is secured, these data will be utilized to develop a water quality flow model to determine water flow impacts on water quality and related water use issues on the entire length of the Lehigh River.

2.0 METHODS

2.1 FIELD AND LABORATORY

Seventeen stations were monitored for 24 continuous weeks to define the water quality conditions of the Lehigh River and its tributaries between May and November 2001. Seven stations were located on the mainstem of the Lehigh River, while ten were located in tributaries leading into the Lehigh (Figure 2-1). The first water quality station (LH1) was placed above F.E. Walter Dam, at the confluence of Tobyhanna Creek and the Lehigh River. Additional stations were added at major tributaries further downstream to the last sampling station (LH17) located near Northampton, PA. Table 2-1 lists the station designations used for this study, PADEP water use category for each station and the station coordinates.

Station	PADEP Water Use Category	Mainstem or Tributary	Location Description	Latitude	Longitude
LH1	HQ-CWF	Main	Upstream of Walters Dam at confluence of Tobyhanna Creek	41° 7.339	75° 38.955
LH2	HQ-CWF	Main	1,000 feet downstream of Walters Dam	41° 6.592	75° 43.516
LH3	HQ-CWF	Main	At Tannery Bridge	41° 2.318	75° 45.655
LH4	HQ-CWF	Tributary	Hayes Creek	41° 2.083	75° 44.632
LH5	HQ-CWF	Tributary	Sandy Run	41° 1.082	75° 44.462
LH6	HQ-CWF	Tributary	Buck Mountain Creek	40° 57.921	75° 45.417
LH7	HQ-CWF	Tributary	Black Creek	40° 56.740	75° 44.818
LH8	HQ-CWF	Main	Glen Onoko	40° 52.966	75° 45.595
LH9	HQ-CWF	Tributary	Nesquehoning Creek	40° 52.492	75° 45.802
LH10	TSF	Main	Near Lehighton water intake	40° 50.969	75° 42.570
LH11	CWF	Tributary	Downstream of Lehighton sewage treatment outfall on Mahoning Creek	40° 49.484	75° 42.030
LH12	CWF	Tributary	Pohopoco Creek leading from Beltzville Reservoir	40° 49.028	75° 40.363
LH13	TSF	Tributary	Lizard Creek	40° 47.728	75° 39.923
LH14	TSF, MF	Tributary	Aquashicola	40° 47.590	75° 36.779
LH15	TSF	Main	Walnutport Gauge	40° 45.158	75° 36.086
LH16	CWF	Tributary	Bertsch Creek	40° 44.126	75° 34.646
LH17	TSF	Main	Northampton treatment plant intake	40° 42.108	75° 30.993

In-situ instruments, which measured temperature, pH, dissolved oxygen, chlorophyll, turbidity, and conductivity every hour, were installed at four mainstem Lehigh River stations. These units were maintained at the confluence of Tobyhanna Creek and the Lehigh River above

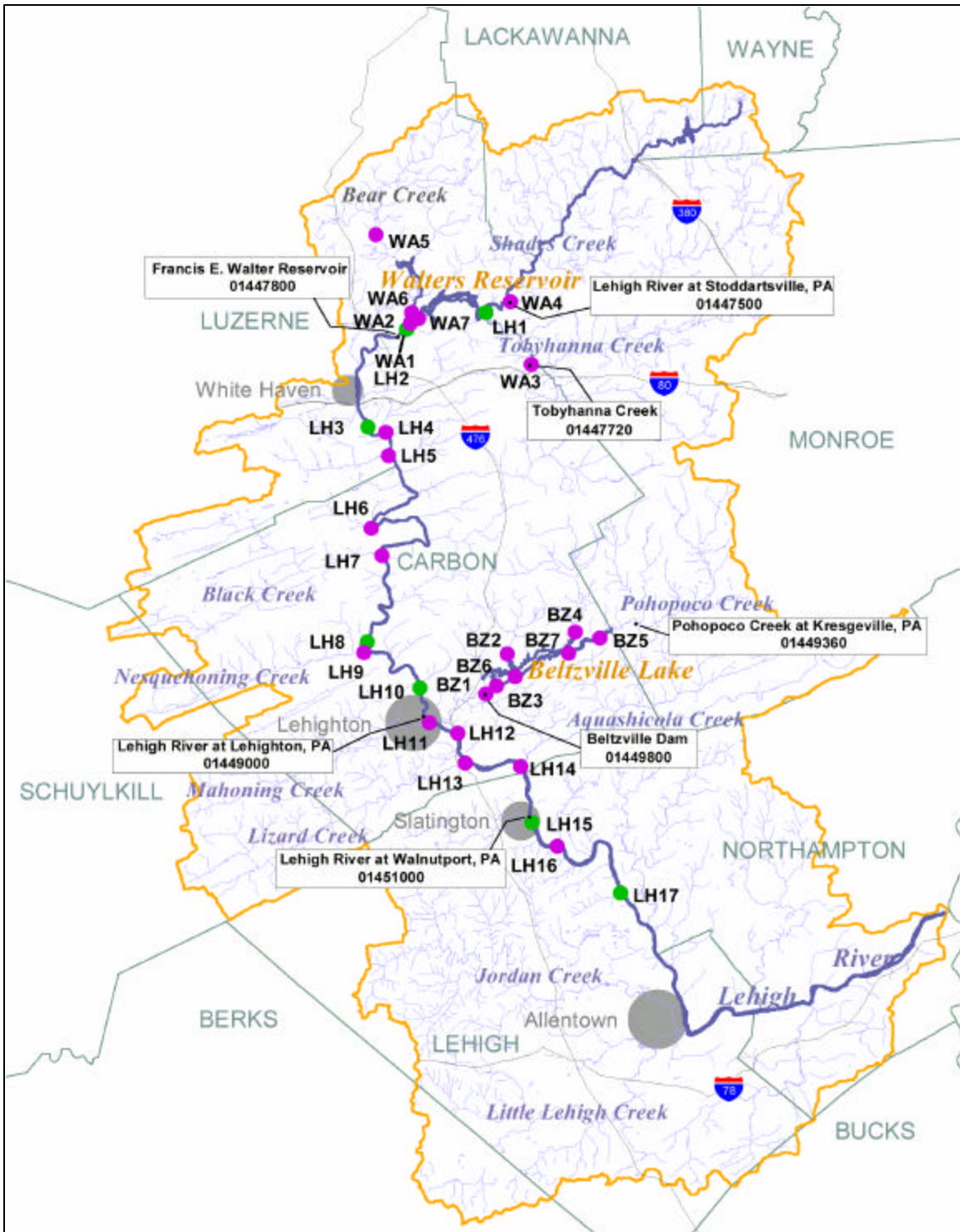


Figure 2-1. Sampling locations for the 2001 Lehigh river water quality monitoring program. Stations indicated in green were located in the mainstem of the river. Boxes indicate position and name of nearby USGS gauging stations.

F.E. Walter Reservoir (LH1), below F.E. Walter Reservoir (LH2), and at two sites on the Lehigh River (LH10 and LH17). Station LH10 was located near the Lehigh water authority plant intake while station LH17 was positioned on the intake structure for the Northampton water treatment facility. YSI® 6600 data logging water quality meters were deployed at stations LH1, LH2, and LH10. At station LH17 a Hydrolab® water quality meter was deployed and maintained by the Lehigh River Watch group. Point measurements of dissolved oxygen, pH, conductivity, and temperature levels were also measured each week at all 17 stations with a Hydrolab®. Ambient water temperature was recorded every ½ hour with Onset Computer Corporation TidbiT™ probes at all sampling stations. Water grab sampling was conducted weekly at all 17 stations between May and November 2001 for a total of 24 weeks. The parameters measured at each station are listed in Table 2-2.

Parameter	EPA Method Number	Detection Limit
Alkalinity	310.3	1 mg/L
Soluble Reactive Phosphorus	365.2	0.05 mg/L
Phosphorus	365.2	0.05 mg/L
Ammonium Nitrogen	350.3	0.1 mg/L
Nitrate Nitrogen	4500 NO ₃	0.1 mg/L
Nitrite Nitrogen	4500 NO ₃	0.1 mg/L
Total Inorganic Carbon	415.1	5 mg/L
Total Organic Carbon	415.1	5 mg/L
Chlorophyll a	445.0	0.2 ug/L
Dissolved Silica	370.1	2 mg/L
5-Day BOD	SM5210B	5 mg/L

Water samples for total metals analysis was conducted at eight stations once during the months of May, June, August and September. Sampling was performed during varied flow conditions to include one low flow, two mid-flow and one-high flow event. Samples were analyzed for aluminum, cadmium, iron, manganese, zinc, and hardness. Both total and dissolved concentrations were analyzed during a high flow period in June 2001. All other samples were total concentrations only. Table 2-3 provides a breakdown of the laboratory methods and target detection limits for the metals parameters examined during the monitoring program.

Parameter	EPA Method Number	Detection Limit
Aluminum	200.7	0.02 mg/L
Cadmium	200.7	0.005 mg/L
Iron	200.7	0.005 mg/L
Manganese	200.7	0.005 mg/L
Zinc	200.7	0.005 mg/L

Many of the nutrient parameters monitored during this study are similar water quality parameters that have been measured in yearly monitoring programs conducted by the USACE in Walter and Beltzville Reservoirs since the 1970s.

Air temperature, relative humidity, solar radiation, wind speed, and direction were monitored every ½ hour with a YSI 6200 meteorological station installed and maintained at both the Walter and Beltzville Reservoir discharge towers. Local weather conditions were recorded with these units from the end of May through the first week in November 2001.

In-stream flows were recorded at nine tributary stations each week with staff gauges that were installed at the monitoring stations (flows were monitored at stations that did not have nearby USGS flow data available). Flows (cfs) during each sampling event were estimated based on rating curves developed under different discharge levels by Pennsylvania Fish and Boat Commission personnel. Rating curves and flow rates were monitored and produced at tributary stations LH4 (Hayes Creek), LH5 (Sandy Run), LH6 (Buck Mountain), LH7 (Black Mountain), LH9 (Nesquehoning Creek), L11 (Mahoning Creek), LH13 (Lizard Creek), LH14 (Aquashicola Creek), and LH16 (Bertsch Creek). Rating curves and associated data are included in the CD-ROM database accompanying this report.

2.2 ADDITIONAL RESERVOIR SAMPLING

To provide additional data and support to the Lehigh River monitoring project, the USACE established two new stations in the main body of the Walters reservoir (WA-6 and WA-7). These two stations plus the 5 regular Walters monitoring stations and the 7 Beltzville stations were sampled in April and October 2001 in addition to the regular monthly sampling between May and September. Parameters monitored at these sites included BOD, total carbon, total organic carbon, total inorganic carbon, total suspended solids, alkalinity, total dissolved phosphorus, dissolved phosphate, total phosphorus, ammonia nitrogen, nitrate and nitrite nitrogen, total Kjeldahl nitrogen, and chlorophyll a. These data are summarized in the annual reports for the Walters (Versar 2002a) and Beltzville (Versar 2002b) reservoirs and are provided electronically in the data CD attached to this report.

2.3 DATABASE

Data from the in-situ water quality meters, temperature probes, chemical analytical laboratory, and meteorological stations were reviewed for out of range parameters, data anomalies, and probe malfunction. After removing bad data from the files the information was stored in Excel spreadsheets for subsequent data analysis. Data gaps in the plots and Excel spreadsheets are a result of removing spurious data. Program data are included in this document in the attached CD that serves as data appendices for this report. The data file structure stored on the CD is presented in Table 2-4.

Table 2-4. File structure for Lehigh River CD database		
Folder Name	File Names	Description
Meterological	Beltzville Met.xls	Air temperature, wind speed, direction and solar radiation monitored at the Beltzville and Waters dam towers.
	Walters Met.xls	
Phys In Situ	Lehigh In Situ.xls	Continuous monitoring data for DO, temperature, pH, turbidity, chlorophyll, and conductivity at the four long-term monitoring stations.
Phys Point Meas	Lehigh Phys Point Meas.xls	Point measurements of DO, temperature, pH, turbidity, chlorophyll, and conductivity taken at all 17 stations each week of the monitoring program.
Reservoirs	Beltz Phys Meas.xls	Point measurements of DO, temperature, pH, and conductivity taken once a month at the Beltzville Reservoir monitoring stations.
	Reservoir Wet Chem.xls	Nutrient and BOD data collected once a month at the USACE reservoir monitoring stations.
	Walters Phys Meas.xls	Point measurements of DO, temperature, pH, and conductivity taken one a month at the Walters Reservoir monitoring stations.
Temp Probes	All Tem Data.xls	Temperatures recorded every half hour at the 17 Lehigh River monitoring stations.
	Mean Daily Temp.xls	Mean daily temperatures from the continuous monitors placed at all 17 Lehigh River stations.
Water Quality	Chlorophyll.xls	Chlorophyll concentrations observed in grab samples (units ug/L)
	Flow Estimates.xls	Flow monitored with staff gauges. Calculated by PFBC in cubic feet per second (cfs)
	Metals.xls	Total and dissolved metals concentrations observed in grab samples (units mg/L)
	USGS Flows.xls	Provisional flows taken from nearby USGS gauging stations.
	Wet Chem.xls	Nutrient concentrations observed in grab samples (units mg/L) taken weekly at all 17 Lehigh River monitoring sations.

3.0 RESULTS

3.1 FLOWS

Average flows in the nine tributary stations ranged from a low of 3.6 cfs at LH16 (Bertsch Creek) to a high of 49.1 at LH14 (Aquashicola Creek) (Table 3-1). Base flow in Hayes Creek averaged about 15.5 cfs and peaked on September 26, 2001 when high flows were observed at all staff gauge monitoring sites. Minimum flows of 6.7 cfs were observed at station LH4 on week 16 of the monitoring program. Sandy Run (LH5) base flows averaged 25 cfs and lowest flows were estimated for the last day of the monitoring period. Maximum flows were also observed on September 26 at this station. Buck Mountain Creek flows averaged 8.7 cfs throughout the monitoring period which peaked at 23.5 cfs on September 26 while lowest flows were recorded during week 21 of the study period. Black Creek base flows were among the highest recorded (34.4 cfs) and maximum flows were observed on week 17. Lowest flows occurred during week 7 when levels dropped to 11.3 cfs. Average flow between Nesquehoning Creek (LH9) and Mahoning Creek (LH11) were similar at about 17 cfs as were minimum and maximum flows. While minimum flow occurred in about the same time period (between week 16 and 18) maximum flow were observed early on (week 4) at LH11 (65.6 cfs) and much later after week 18 for LH9 (68.1). Maximum flows were recorded between week 5 and 6 (122.5 cfs) at Lizard Creek while minimum flow were observed during week 17 for this station. Aquashicola creek had the highest average (49.1), minimum (24.2), and maximum (157.4) flows recorded among the nine stations monitored during the 2001 sampling season. In contrast, Bertsch Creek (LH16) had the lowest average (3.6), minimum (1.0), and maximum (10.3) flows observed in the time series. Figures 3-1 through 3-9 summaries the flow data relative to the 24 weekly sampling dates for stations LH-4 through LH16, respectively.

Flows for mainstem stations monitored by established USGS gauging stations are presented in the Appendix.

Table 3-1. In-stream flows (cfs) estimated from staff gauge readings and flow rating curves developed for the nine tributary stations monitored in the Lehigh River between May and November 2001.

		LH4	LH5	LH6	LH7	LH9	LH11	LH13	LH14	LH16
		Hayes Creek	Sandy Run	Buck Mountain Creek	Black Creek	Nesquehoning Creek	Mahoning Creek	Lizard Creek	Aquashicola Creek	Bertsch Creek
Date	Sampling Week	Est Q (cfs)	Est Q (cfs)	Est Q (cfs)	Est Q (cfs)	Est Q (cfs)	Est Q (cfs)	Est Q (cfs)	Est Q (cfs)	Est Q (cfs)
30-May-01							21.9	47.7	86.0	10.3
31-May-01	1	13.8	19.1	6.5	36.3	34.5				
4-Jun-01							43.6	53.7	107.9	3.4
5-Jun-01	2	16.0	22.1	6.5	47.4	44.6		47.7	101.8	2.7
11-Jun-01		12.2					20.9	26.5	58.9	1.2
12-Jun-01			22.7	6.5	37.3	23.4				
13-Jun-01	3	12.6	20.3	6.5	52.7					
14-Jun-01						27.9		25.7	53.6	
20-Jun-01	4			6.5	44.9	47.9	65.6	60.4	35.3	5.1
21-Jun-01	5	26.6								
25-Jun-01		19.7	24.8	6.5	40.4	35.7	58.0	122.5	81.2	8.9
2-Jul-01	6						30.3	57.0	63.5	6.1
3-Jul-01		17.0	21.5	6.5	42.6	23.8				
9-Jul-01	7	15.5	19.1	6.5	11.3	20.0	23.7	37.7	56.7	5.3
16-Jul-01	8	12.2	18.0	6.5	29.4	14.3	13.9	22.2	38.8	4.2
19-Jul-01		17.5	19.1	6.5	26.4	13.8	13.4			
20-Jul-01								18.1	36.0	3.2
24-Jul-01	9	10.8	15.2	6.5	19.7	12.0	10.1	14.7	32.8	2.6
31-Jul-01	10	10.2	13.9	6.5	19.2	12.0	9.7	14.7	31.6	2.5
6-Aug-01	11	11.2	21.5	6.5	23.7	15.8	16.4	46.3	34.7	2.1
9-Aug-01					17.3	10.9	8.5	23.5	30.4	1.6
10-Aug-01		9.9	15.2	6.5						
16-Aug-01	12	14.6	59.0		31.0	13.8	10.1	19.7	30.4	1.8
20-Aug-01	13	11.9	39.4		23.7	10.2	8.5	16.1	29.3	1.7
28-Aug-01			23.4	12.7		7.7				
29-Aug-01	14	11.5	24.8	13.0	25.0	8.6	8.5	13.1	29.3	1.1
30-Aug-01								11.6		
4-Sep-01	15	19.7	36.1	12.1	17.3	9.5	6.2	10.0	26.1	1.0
12-Sep-01	16	6.7	17.5	9.0	14.0	6.1	5.9	10.0	24.2	1.2
17-Sep-01	17				152.4	6.3	6.2	9.6	26.1	2.4
18-Sep-01				8.2	13.6	6.3	5.5		24.2	
24-Sep-01	18	9.1	36.1	8.4	17.3	7.0	7.3	13.9	46.9	2.8
26-Sep-01		56.3	76.6	23.5	102.4	68.1	32.8	83.6		
27-Sep-01									157.4	4.8
2-Oct-01	19	18.1	31.4	13.2	36.3	12.0	11.4	29.8	56.7	3.8
9-Oct-01	20	13.8	21.5	11.2	25.0	8.6	8.5	18.6	37.4	3.4
18-Oct-01	21	16.0	19.7	3.4	27.1	12.0	11.8	25.7	39.6	4.2
23-Oct-01	22	13.0	16.1	10.2	22.5	8.0	9.7	18.6	34.7	3.5
29-Oct-01	23	10.2	13.5	9.2	24.4	9.8	8.5	15.3	31.0	4.6
5-Nov-01	24	11.5	7.2	9.9	17.7	7.5	8.9	14.7	31.0	5.9
Average		15.5	25.0	8.7	34.4	17.9	17.3	31.0	49.1	3.6
Minimum		6.7	7.2	3.4	11.3	6.1	5.5	9.6	24.2	1.0
Maximum		56.3	76.6	23.5	152.4	68.1	65.6	122.5	157.4	10.3

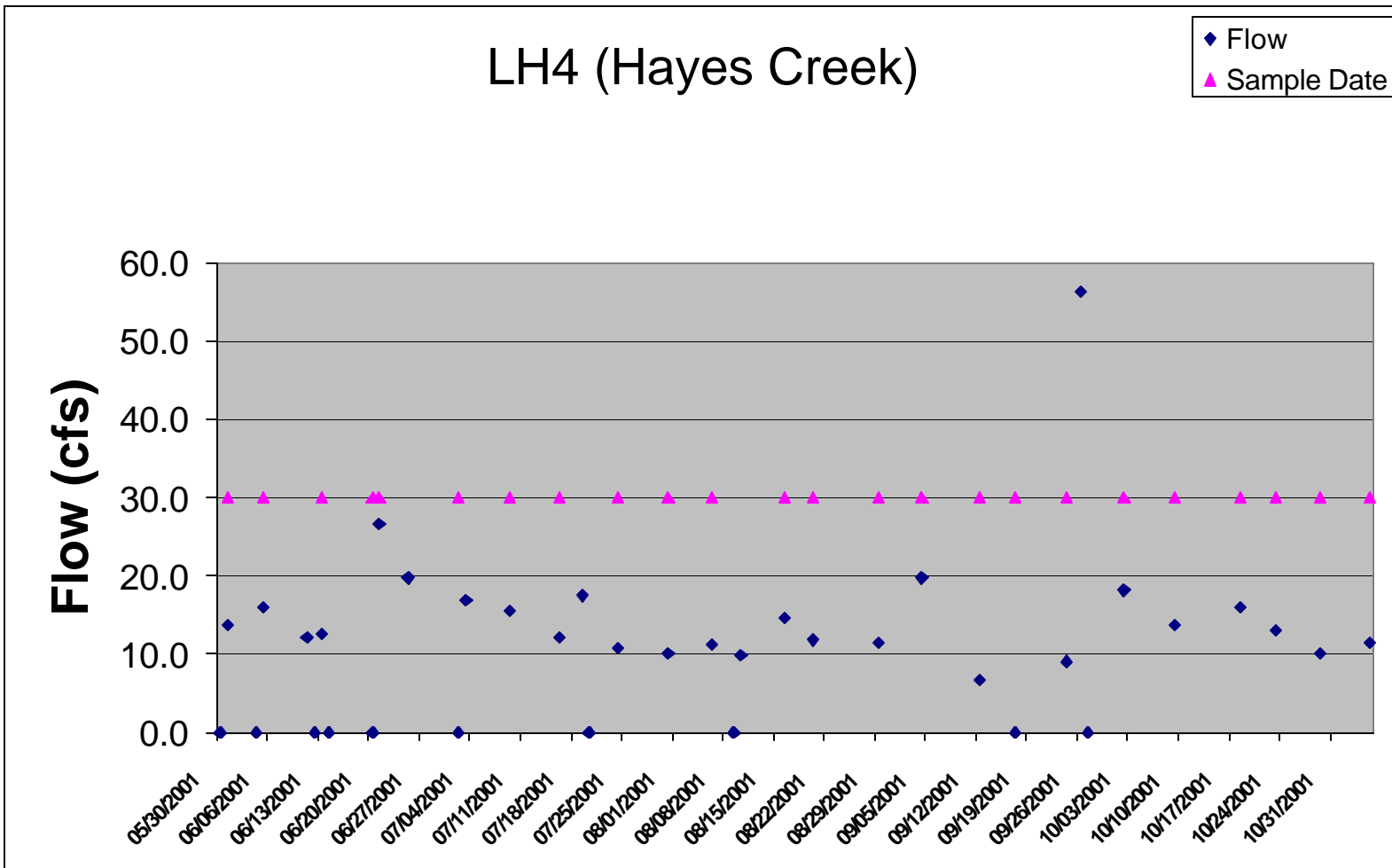


Figure 3-1. Flows (cfs) monitored at Hayes Creek (LH4) based on staff gauge reading conducted during the Lehigh River water quality monitoring study between May and November 2001. Water sampling dates are indicated with the triangular points. Flows plotted on the x-axis were not recorded or indeterminate for that date.

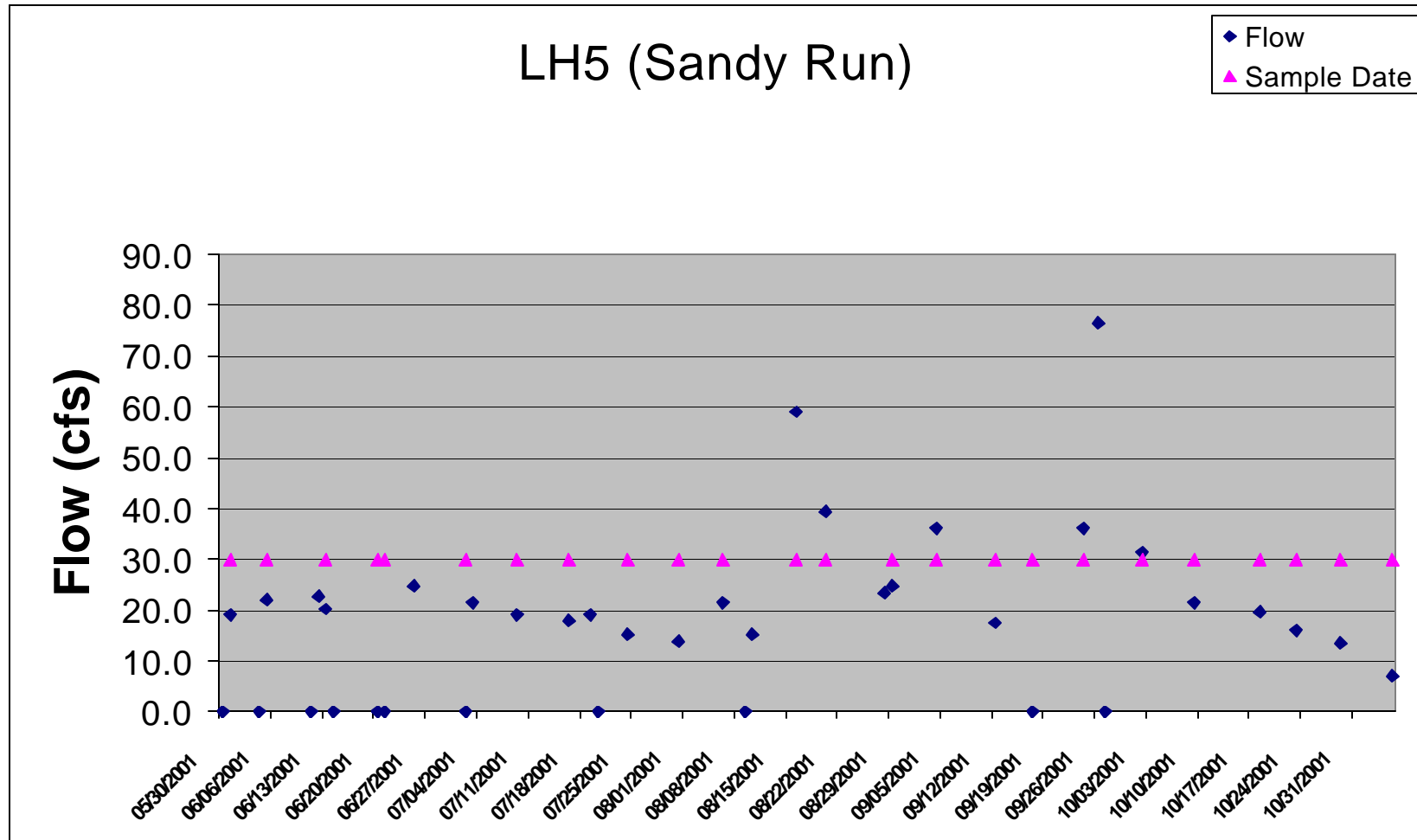


Figure 3-2. Flows (cfs) monitored at Sandy Run (LH5) based on staff gauge reading conducted during the Lehigh River water quality monitoring study between May and November 2001. Water sampling dates are indicated with the triangular points. Flows plotted on the x-axis were not recorded or indeterminate for that date.

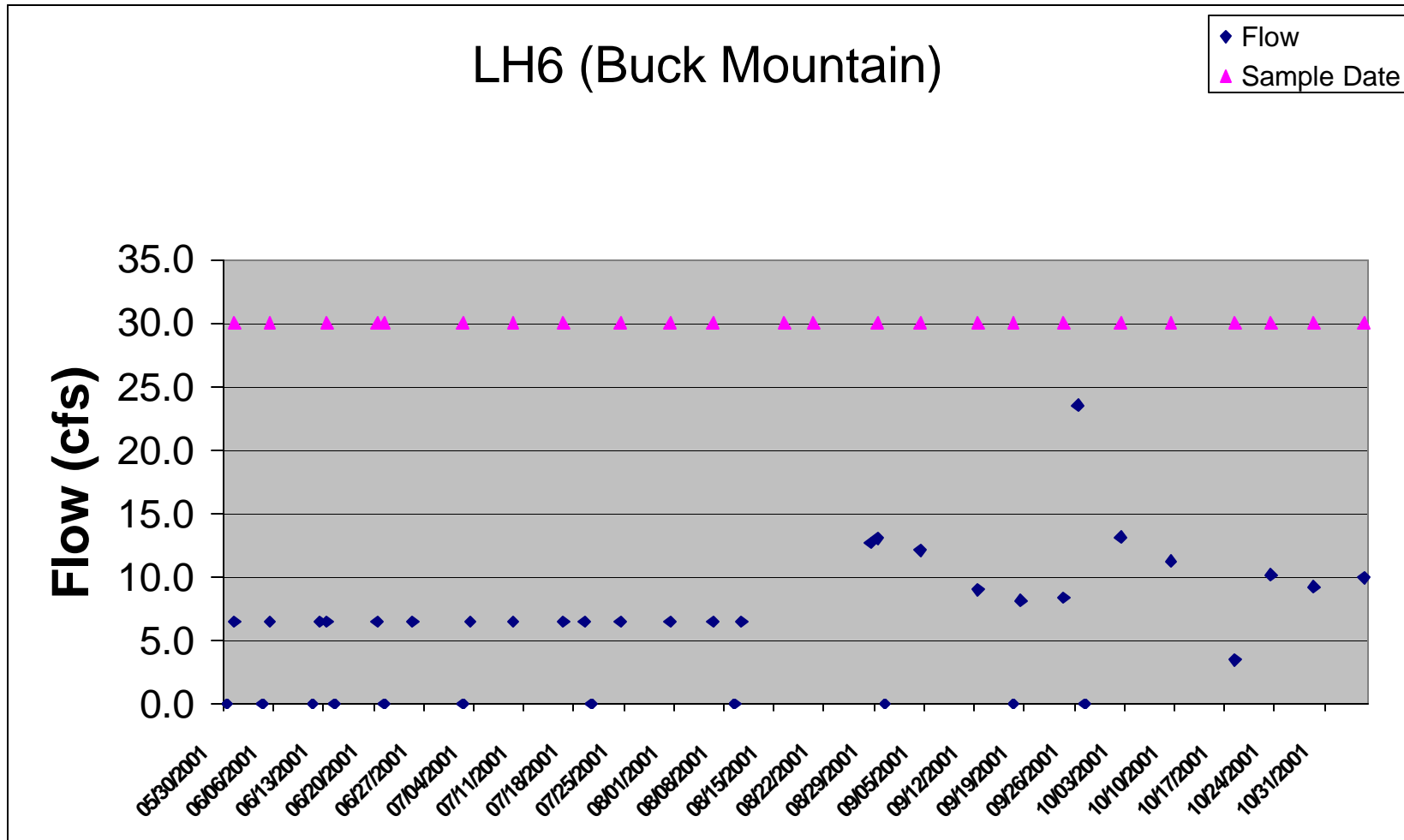


Figure 3-3. Flows (cfs) monitored at Buck Mountain (LH6) based on staff gauge reading conducted during the Lehigh River water quality monitoring study between May and November 2001. Water sampling dates are indicated with the triangular points. Flows plotted on the x-axis were not recorded or indeterminate for that date.

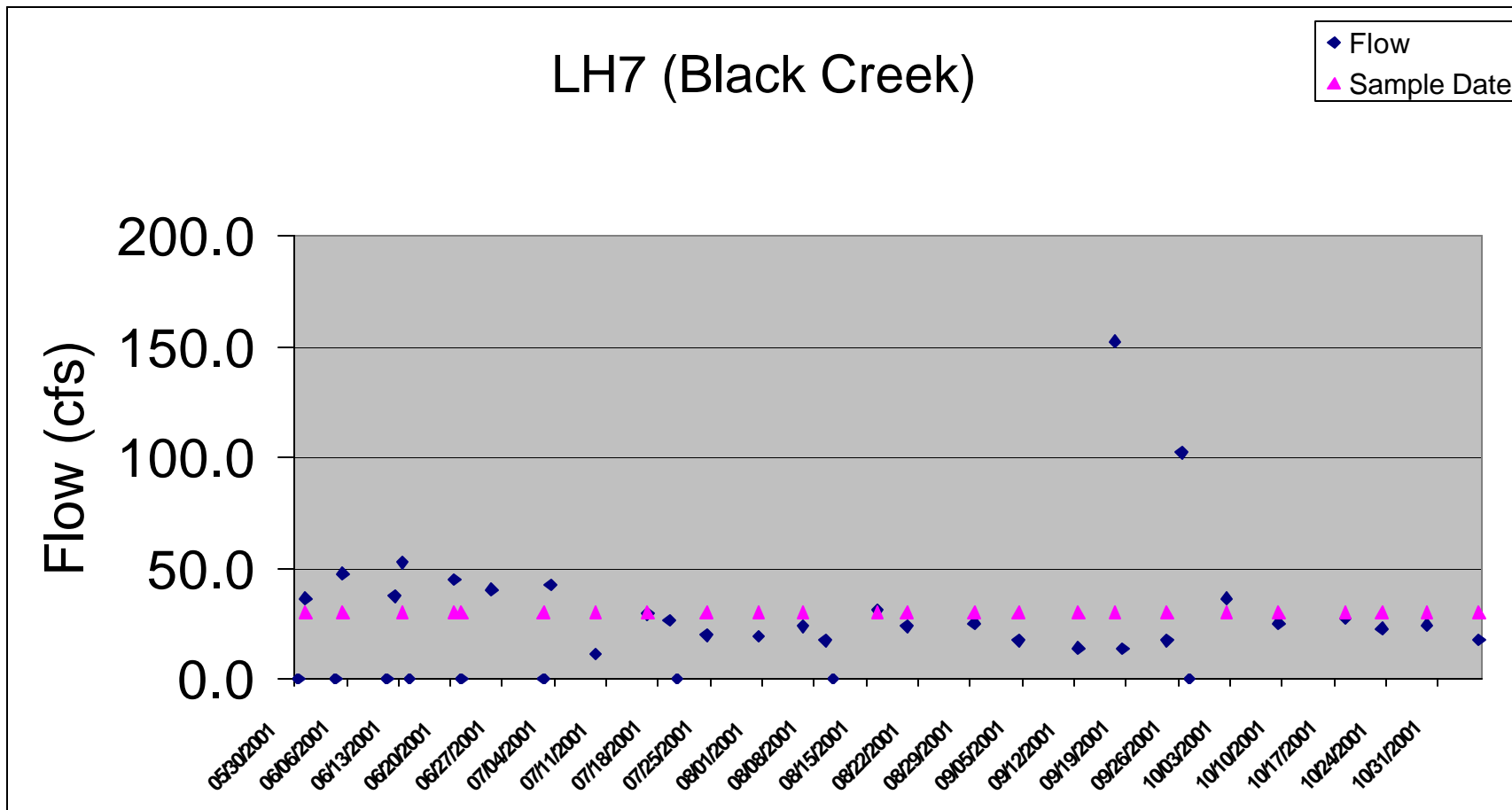


Figure 3-4. Flows (cfs) monitored at Black Creek (LH7) based on staff gauge reading conducted during the Lehigh River water quality monitoring study between May and November 2001. Water sampling dates are indicated with the triangular points. Flows plotted on the x-axis were not recorded or indeterminate for that date.

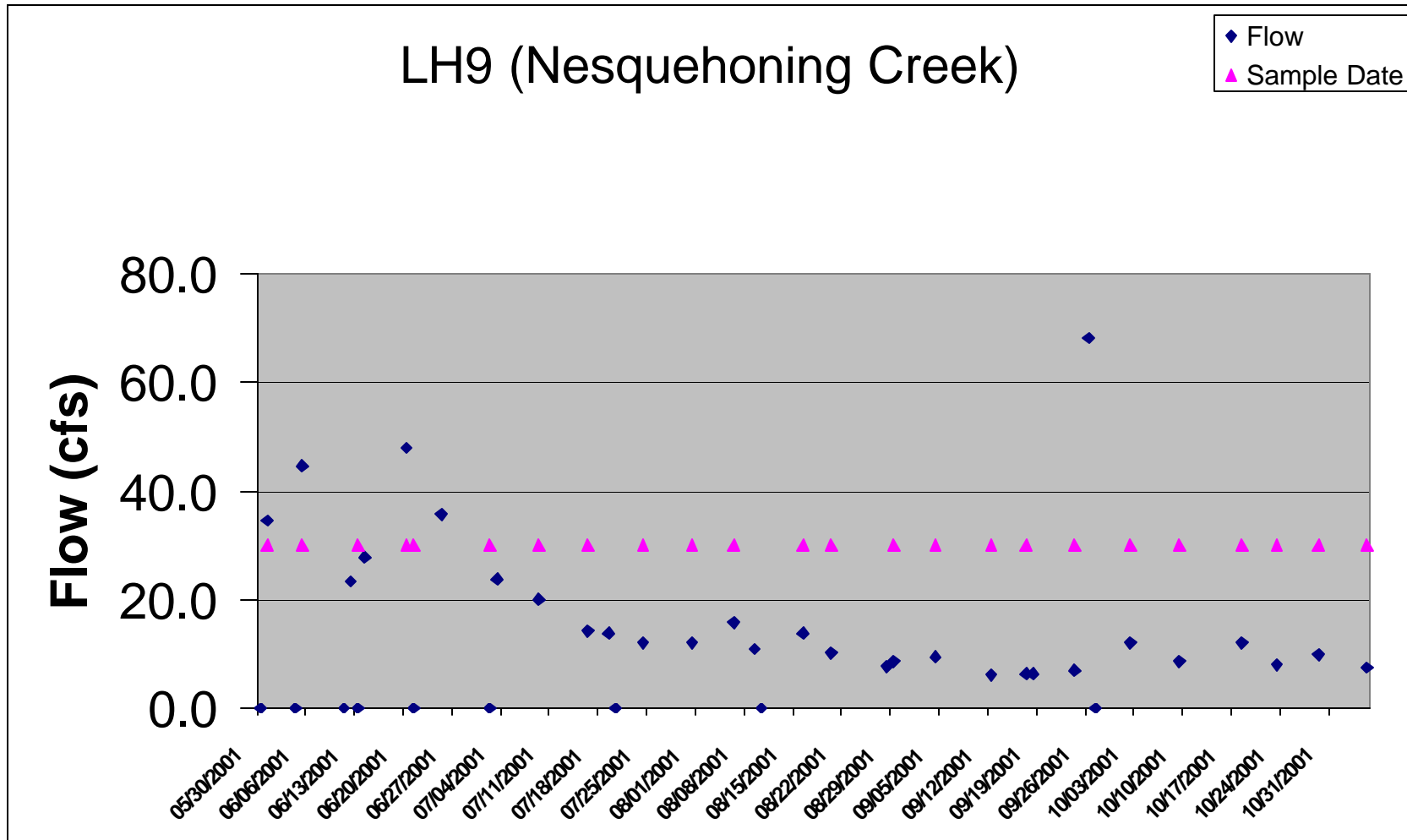


Figure 3-5. Flows (cfs) monitored at Nesquehoning Creek (LH9) based on staff gauge reading conducted during the Lehigh River water quality monitoring study between May and November 2001. Water sampling dates are indicated with the triangular points. Flows plotted on the x-axis were not recorded or indeterminate for that date.

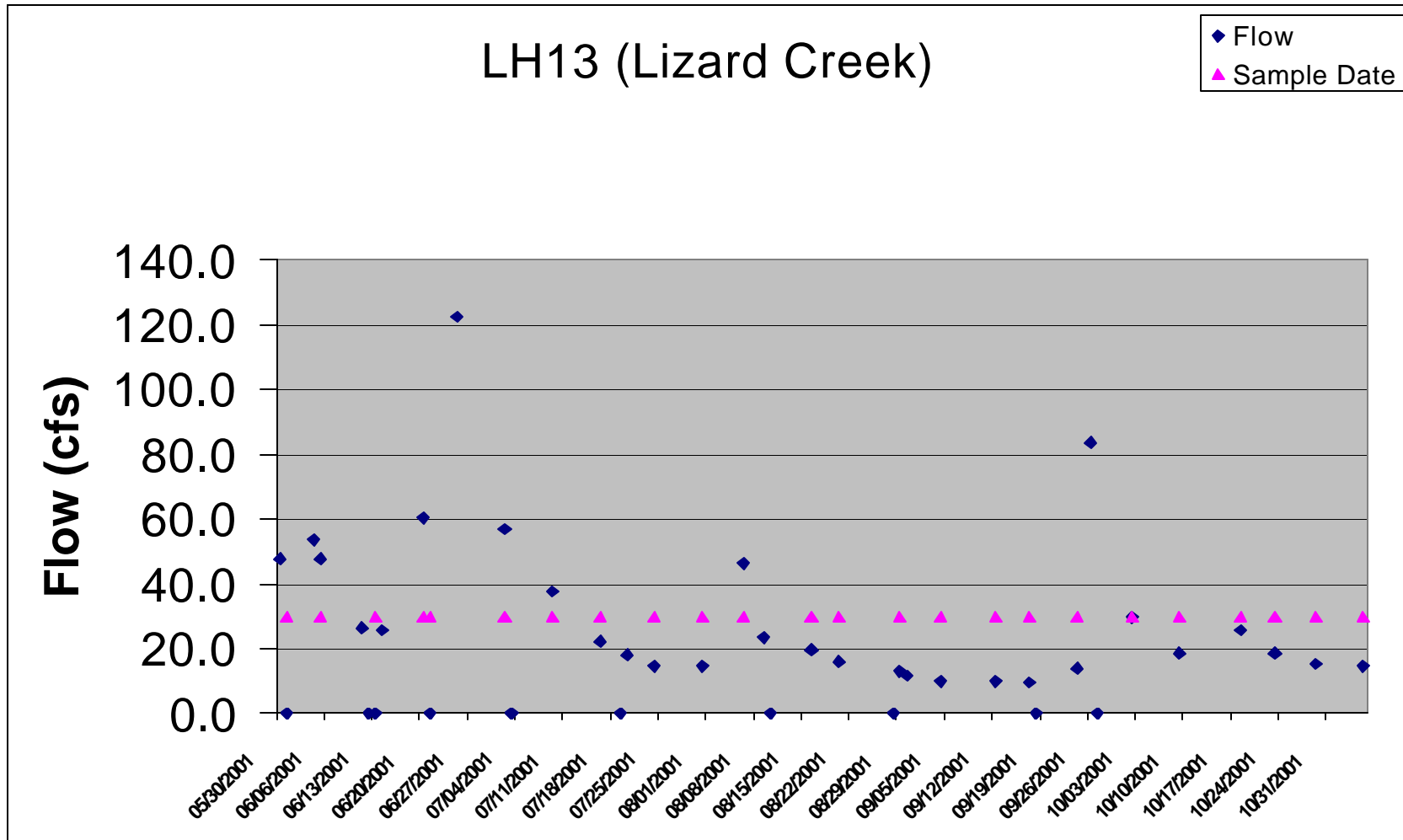


Figure 3-7. Flows (cfs) monitored at Lizard Creek (LH13) based on staff gauge reading conducted during the Lehigh River water quality monitoring study between May and November 2001. Water sampling dates are indicated with the triangular points. Flows plotted on the x-axis were not recorded or indeterminate for that date.

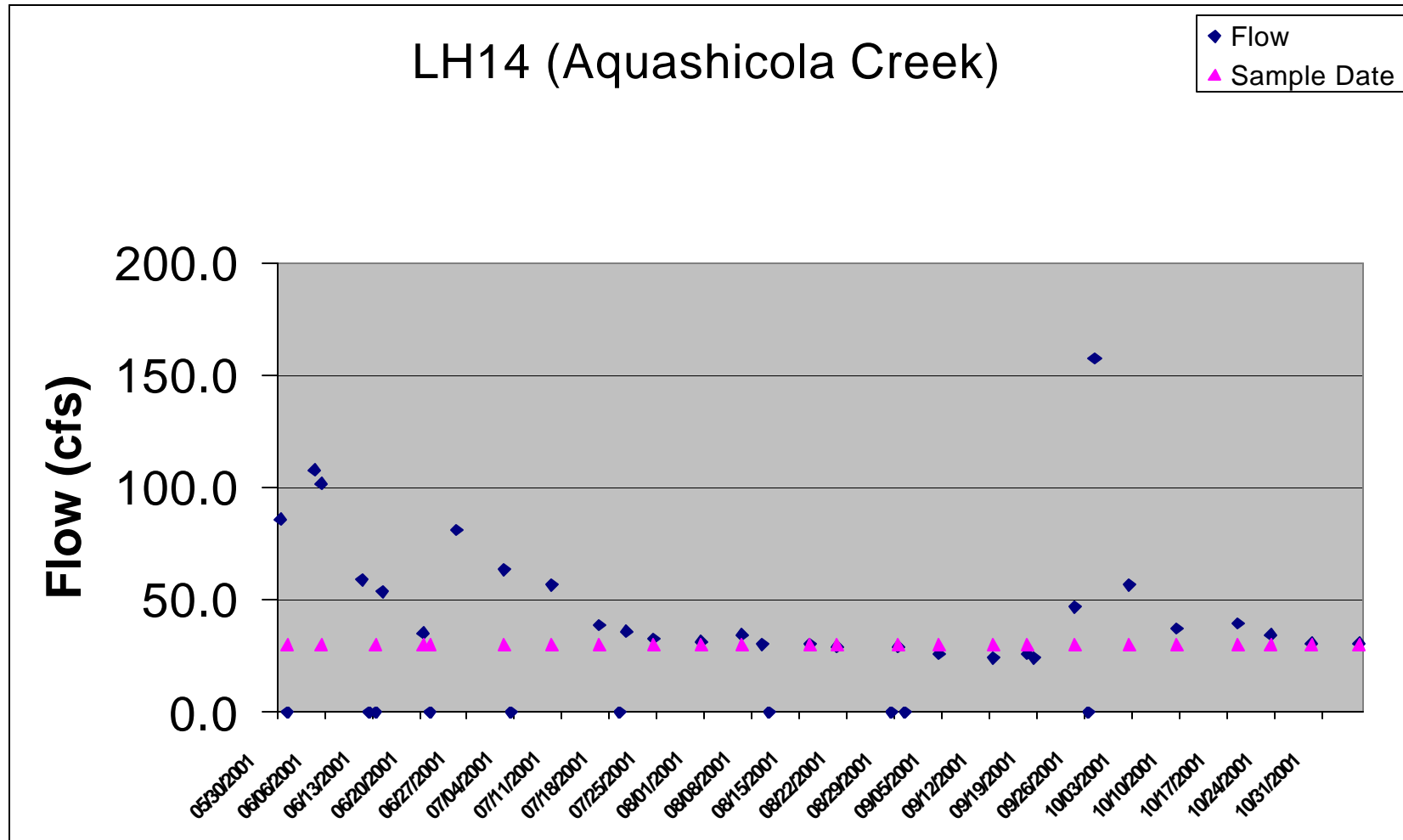


Figure 3-8. Flows (cfs) monitored at Aquashicola Creek (LH14) based on staff gauge reading conducted during the Lehigh River water quality monitoring study between May and November 2001. Water sampling dates are indicated with the triangular points. Flows plotted on the x-axis were not recorded or indeterminate for that date.

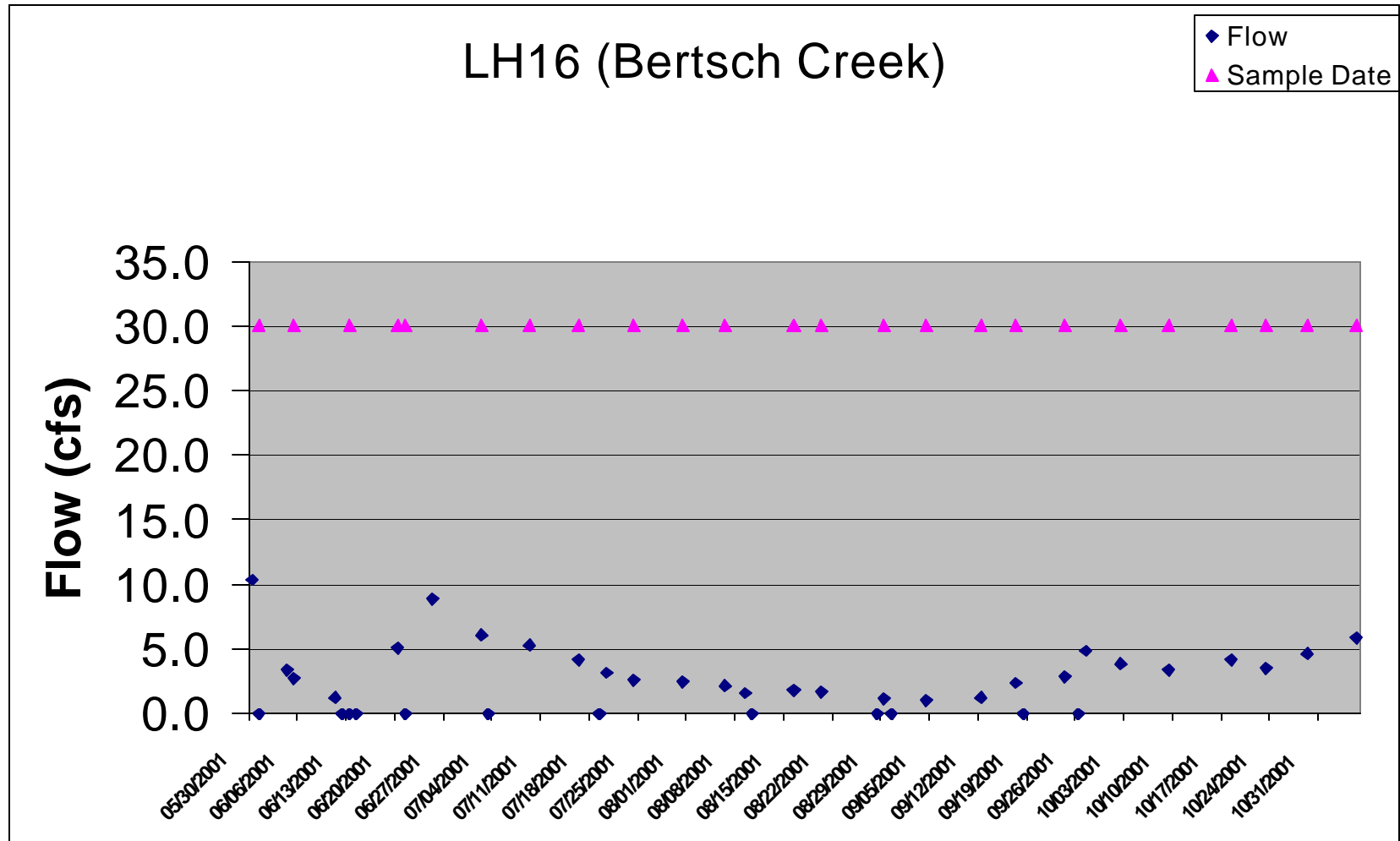


Figure 3-9. Flows (cfs) monitored at Bertsch Creek (LH16) based on staff gauge reading conducted during the Lehigh River water quality monitoring study between May and November 2001. Water sampling dates are indicated with the triangular points. Flows plotted on the x-axis were not recorded or indeterminate for that date.

3.2 TEMPERATURES

Daily mean temperatures calculated from the data recorded by the TidbiT[™] probes deployed at all seventeen Lehigh River monitoring stations were examined and compared to PADEP water use criteria for temperature. Upstream stations LH1 through LH5 were plotted together along with the season specific temperature criteria for High Quality Cold Water Fisheries (HQ-CWF; Fig. 3-10). Stations LH6 through LH9 and downstream station LH16 (Bertsch Creek) are also categorized as a HQ-CWF (PADEP Temp₁) and the daily mean water temperatures are presented in Figure 3-11. Stations LH10 and downriver to LH17 are classified as either a Trout Stocking Fishery (TSF) or a Cold Water Fishery (CW) and observed water temperatures relative to seasonal specific temperature criteria (PADEP Temp₃) are presented in Figure 3-12. This analysis indicated that station LH1 (placed above F.E. Walter Dam, at the confluence of Tobyhanna Creek and the Lehigh River), LH2 (just below the Walter's dam outfall), and mainstem station LH3 (several miles downstream of the dam) exceeded temperature requirements for a cold water fishery for most of monitoring period (Fig. 3-10). In contrast, water temperatures at tributary stations LH4 (Hayes Creek) and LH5 (Sandy Run) located just downstream of station LH3 were well below the temperature requirements for a CWF use category.

Similarly high temperatures (i.e. above critical use criteria) were found at the mainstem stations LH8, and LH16 located near Glen Onoko, Lehighton, and Bertsch Creek, respectively (Fig. 3-11). Tributary station LH7 (Black Creek) was occasionally over the CWF temperature criteria in June and July, but generally below criteria after mid-August 2001. In contrast, water temperatures at tributary stations LH6 (Buck Mountain) and LH9 (Nesquehoning Creek) were well below the CWF criteria for most of the monitoring period (Fig. 3-11).

The sampling stations from the Lehighton Intake (LH10) downstream to LH17 (Northampton) were either categorized as a Trout Stocking Fishery or a Cold Water Fishery by the PADEP (Temp₃). Figure 3-12 compares the season water temperature requirements to those observed from the in-situ temperature monitors. These data show that, with only a few exceptions in the summer months, most the tributaries and mainstem stations met the PADEP Temp₃ requirements (Fig. 3-12).

3.3 DISSOLVED OXYGEN

Dissolved oxygen concentrations were monitored at four sites in the mainstem of the Lehigh River during the monitoring period. The observed concentrations at LH1 (above the Walters Reservoir), LH2 (below the Walters dam), LH10 (near the Lehighton sewage treatment plant intake), and LH17 (at Northampton) are presented in Figures 3-13 through 3-16, respectively. Reference lines representing the PADEP required concentrations relative to each station's critical use category are also plotted in the figures. Dissolved oxygen levels below the recommended 7.0 mg/L HQ-CWF DO criteria was observed in about 25% of the observations recorded at LH1 (Fig. 3-13). This station was located on the confluence of Tobyhanna Creek

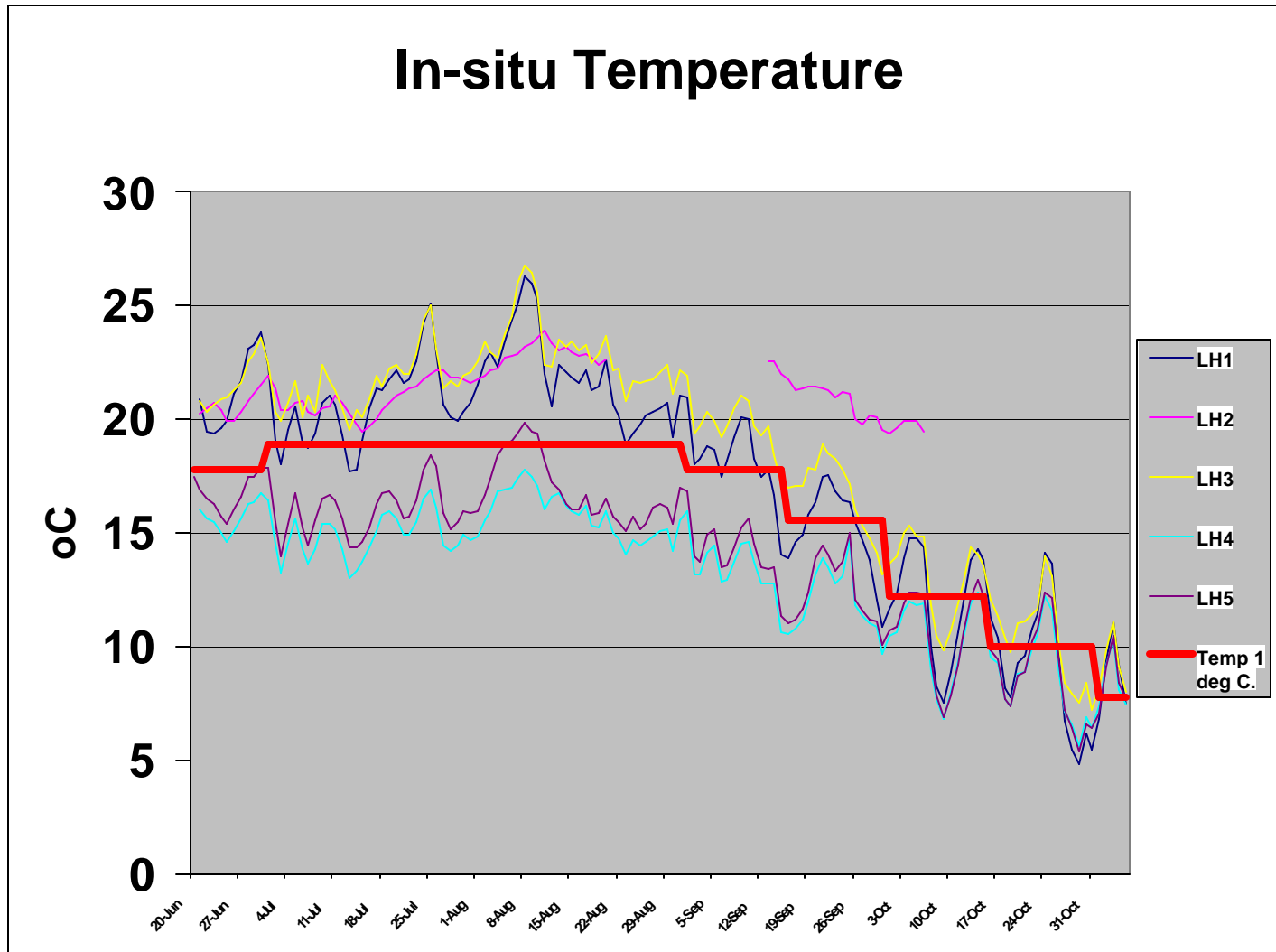


Figure 3-10. Temperature monitored at stations LH1, LH2, LH3, LH4, and LH5 with the TidbiT™ in-situ meters during the Lehigh River water quality monitoring study conducted between May and November 2001. Season specific PADEP HQ-CWF temperature requirements are plotted in red.

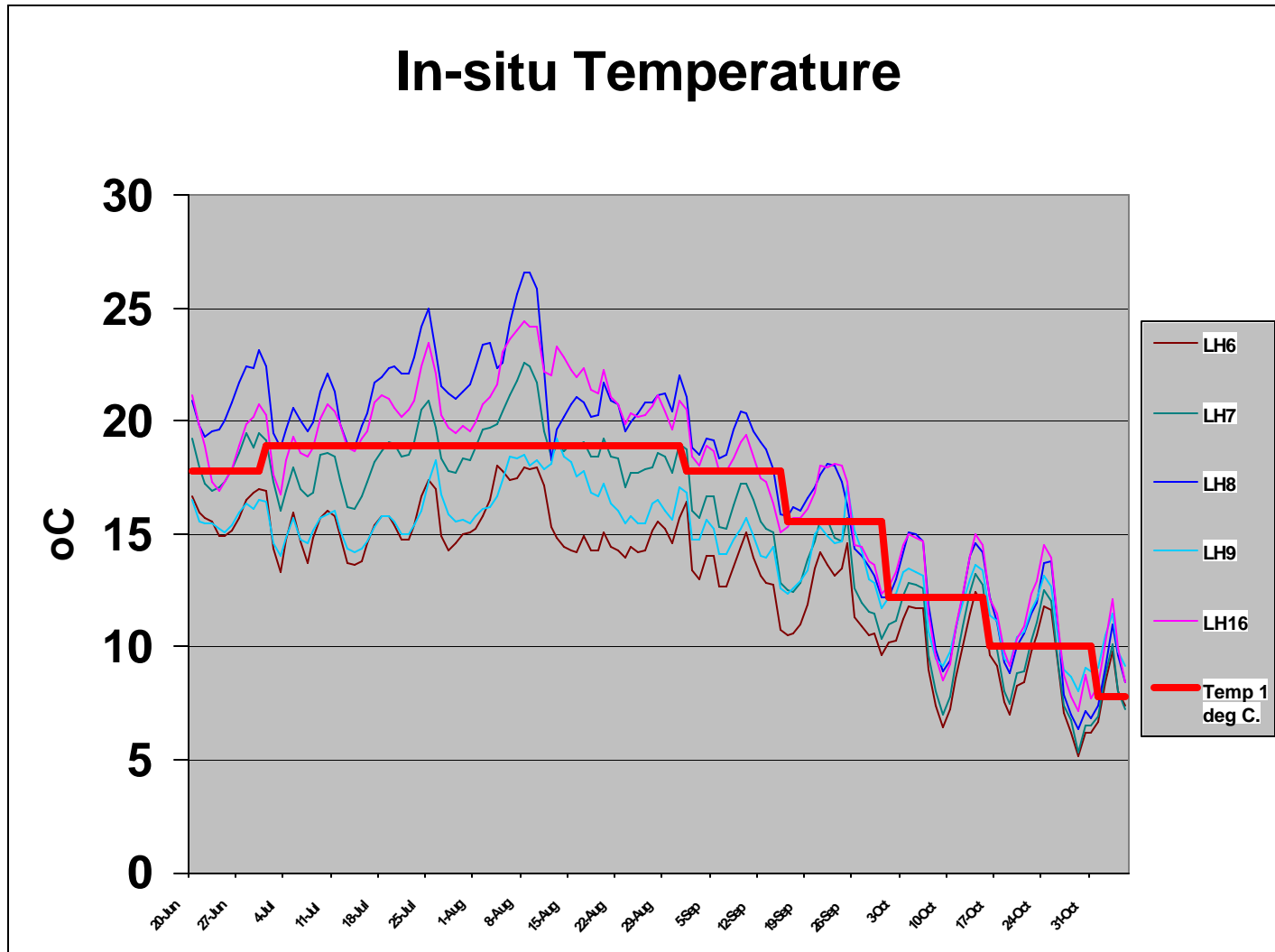


Figure 3-11. Temperature monitored at stations LH6, LH7, LH8, LH9, and LH16 with the TidbiTtm in-situ meters during the Lehigh River water quality monitoring study conducted between May and November 2001. Season specific PADEP HQ-CWF temperature requirements are plotted in red.

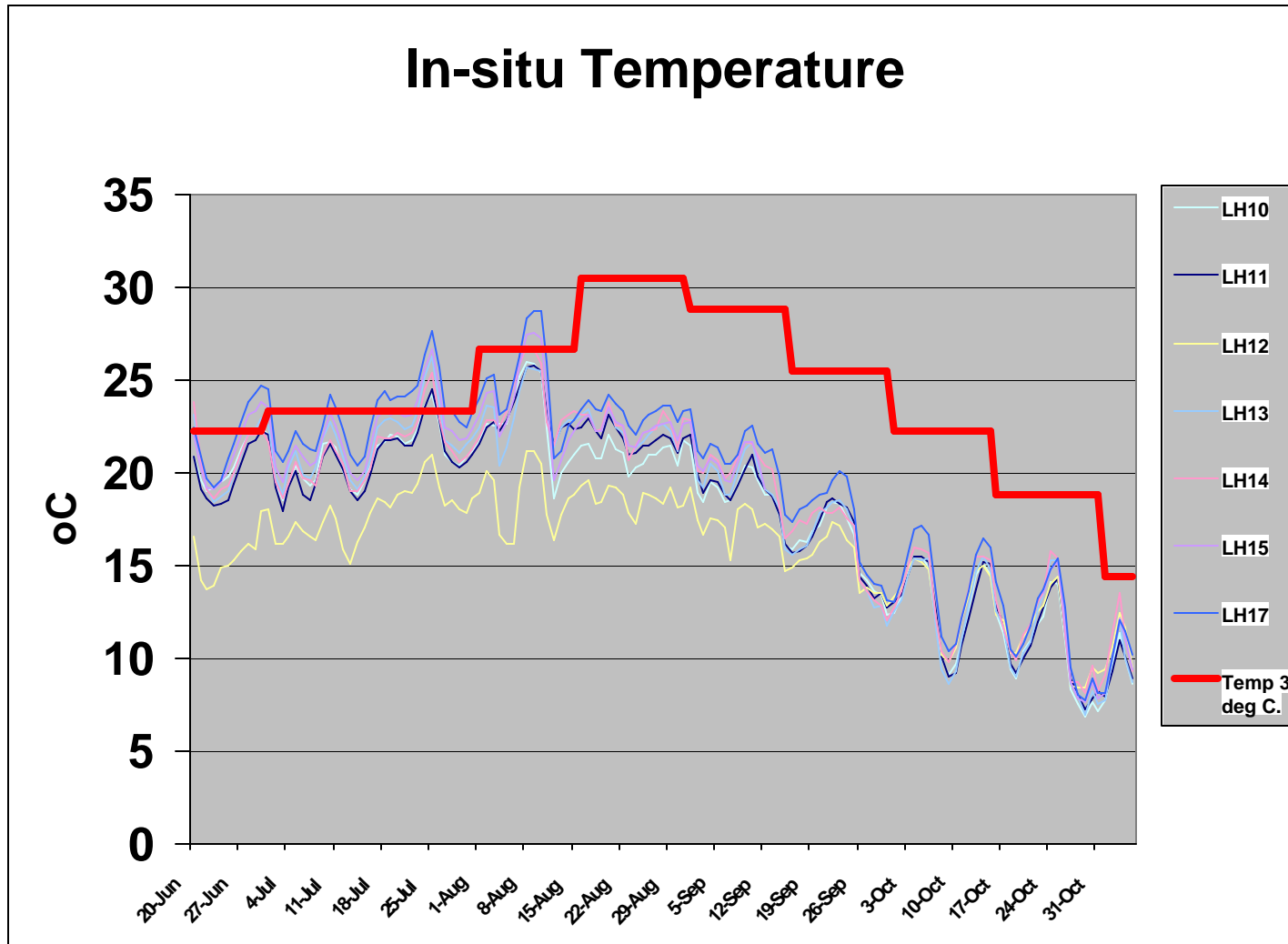


Figure 3-12. Temperature monitored at stations LH10, LH11, LH12, LH13, LH14, LH15, and LH17 with the TidbiT™ in-situ meters during the Lehigh River water quality monitoring study conducted between May and November 2001. Season specific PADEP TSF temperature requirements are plotted in red.

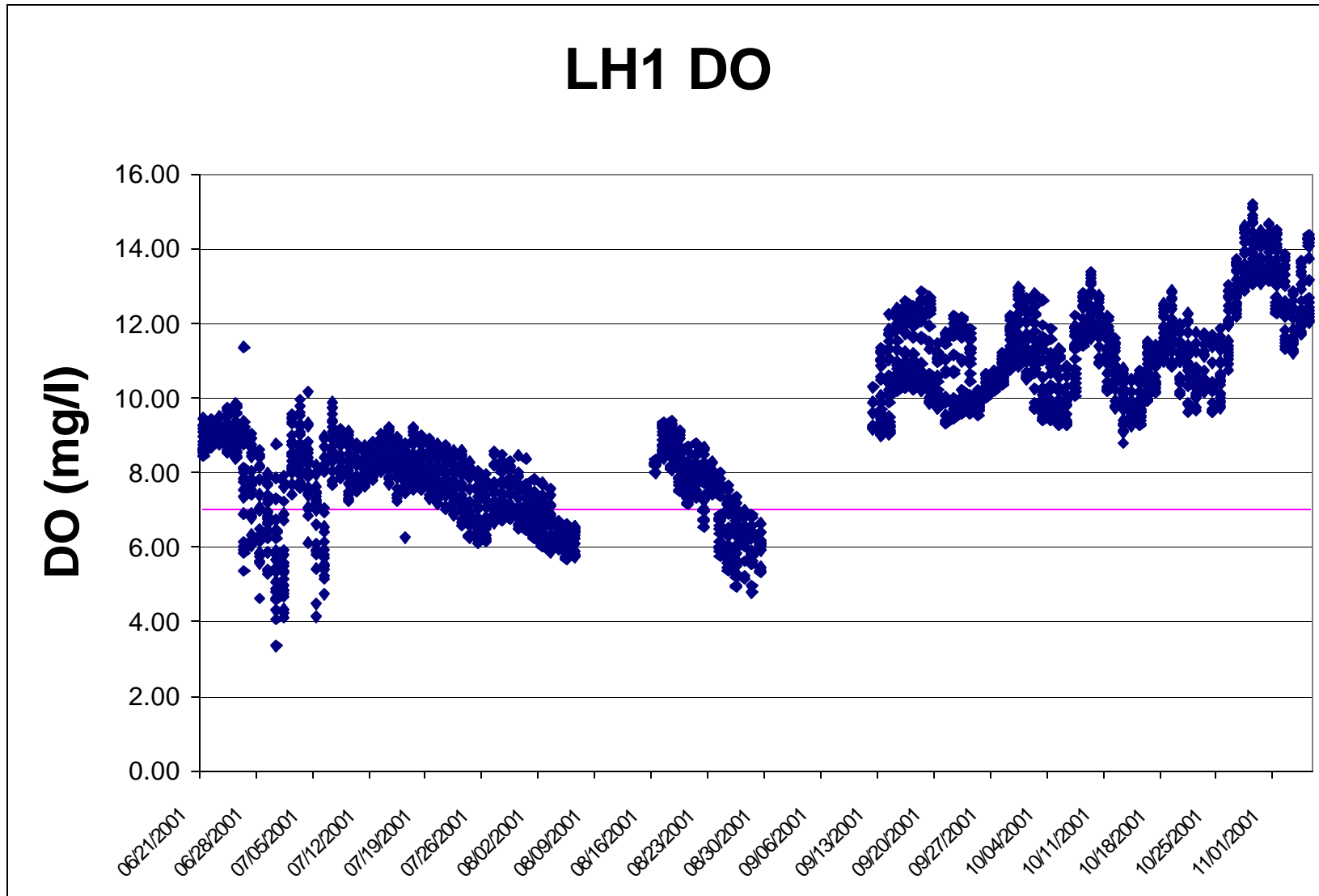


Figure 3-13. Hourly dissolved oxygen concentrations (mg/L) monitored at station LH1 with the YSI in-situ data logger during the Lehigh River water quality monitoring study conducted between May and November 2001. PADEP critical use criterion for this station is a minimum of 7.0 mg/L.

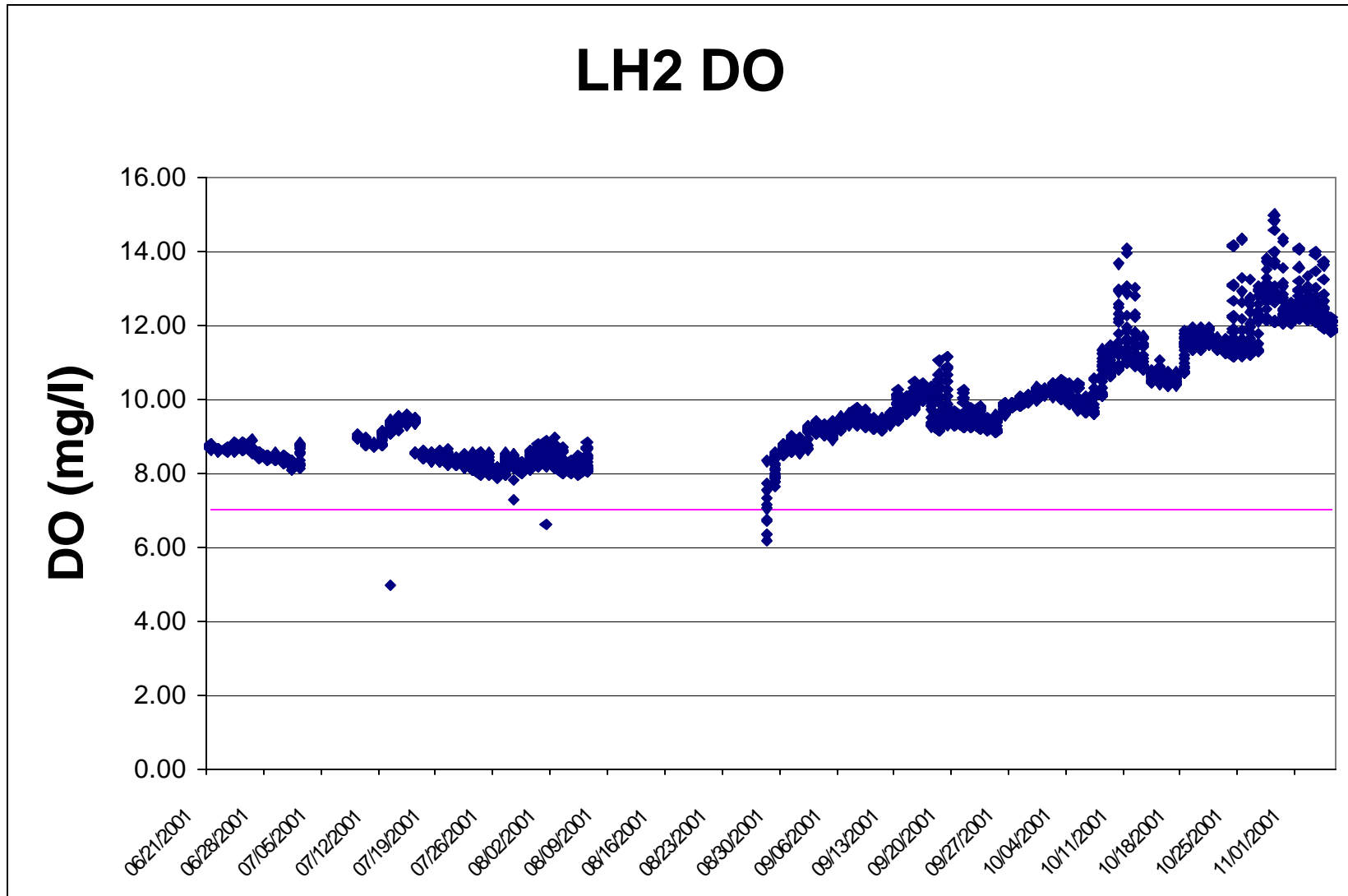


Figure 3-14. Hourly dissolved oxygen concentrations (mg/L) monitored at station LH2 with the YSI in-situ data logger during the Lehigh River water quality monitoring study conducted between May and November 2001. PADEP critical use criterion for this station is a minimum of 7.0 mg/L.

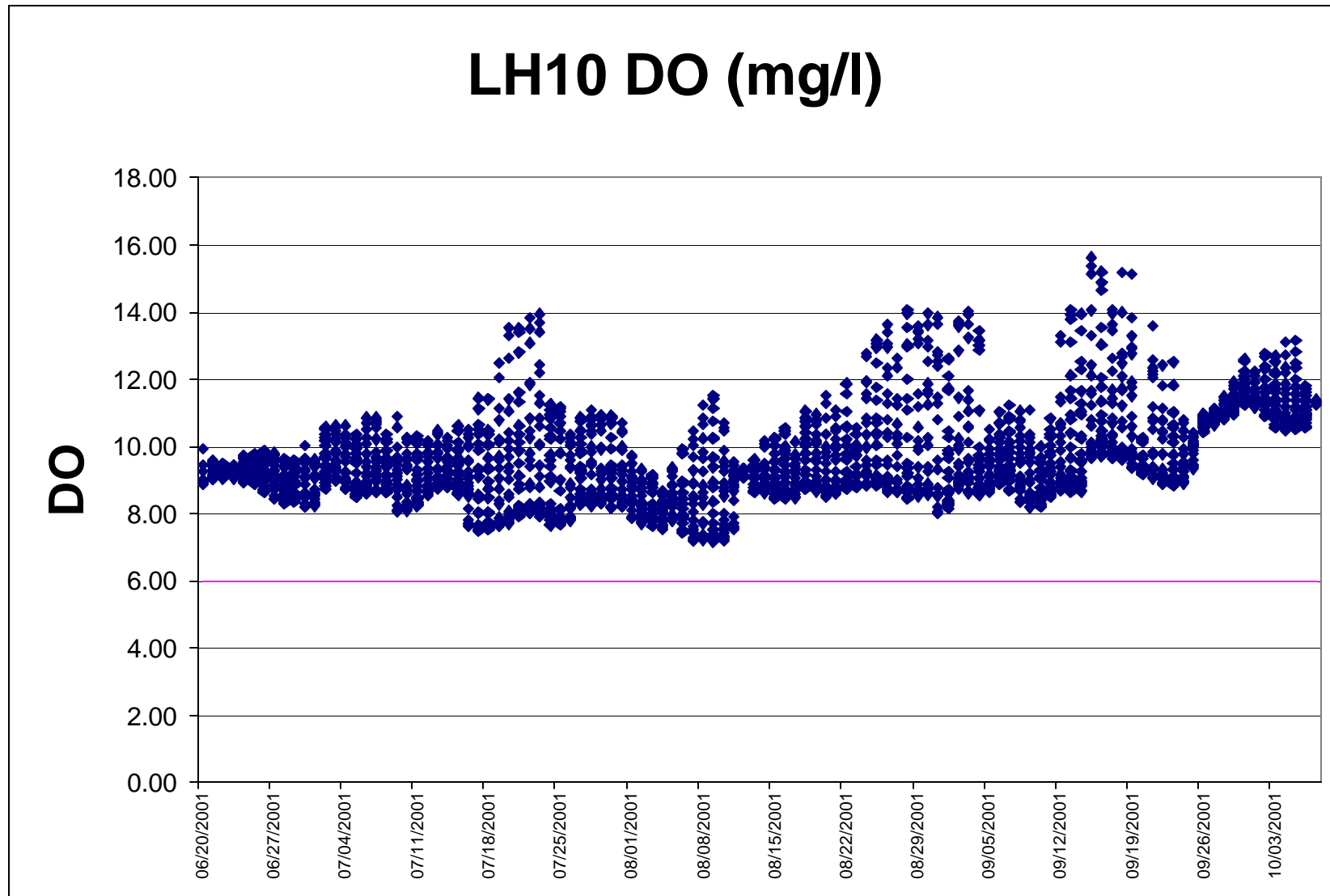


Figure 3-15. Hourly dissolved oxygen concentrations (mg/L) monitored at station LH10 with the YSI in-situ data logger during the Lehigh River water quality monitoring study conducted between May and November 2001. PADEP critical use criterion for this station is a daily average of 6.0 mg/L and a minimum of 5.0 mg/L.

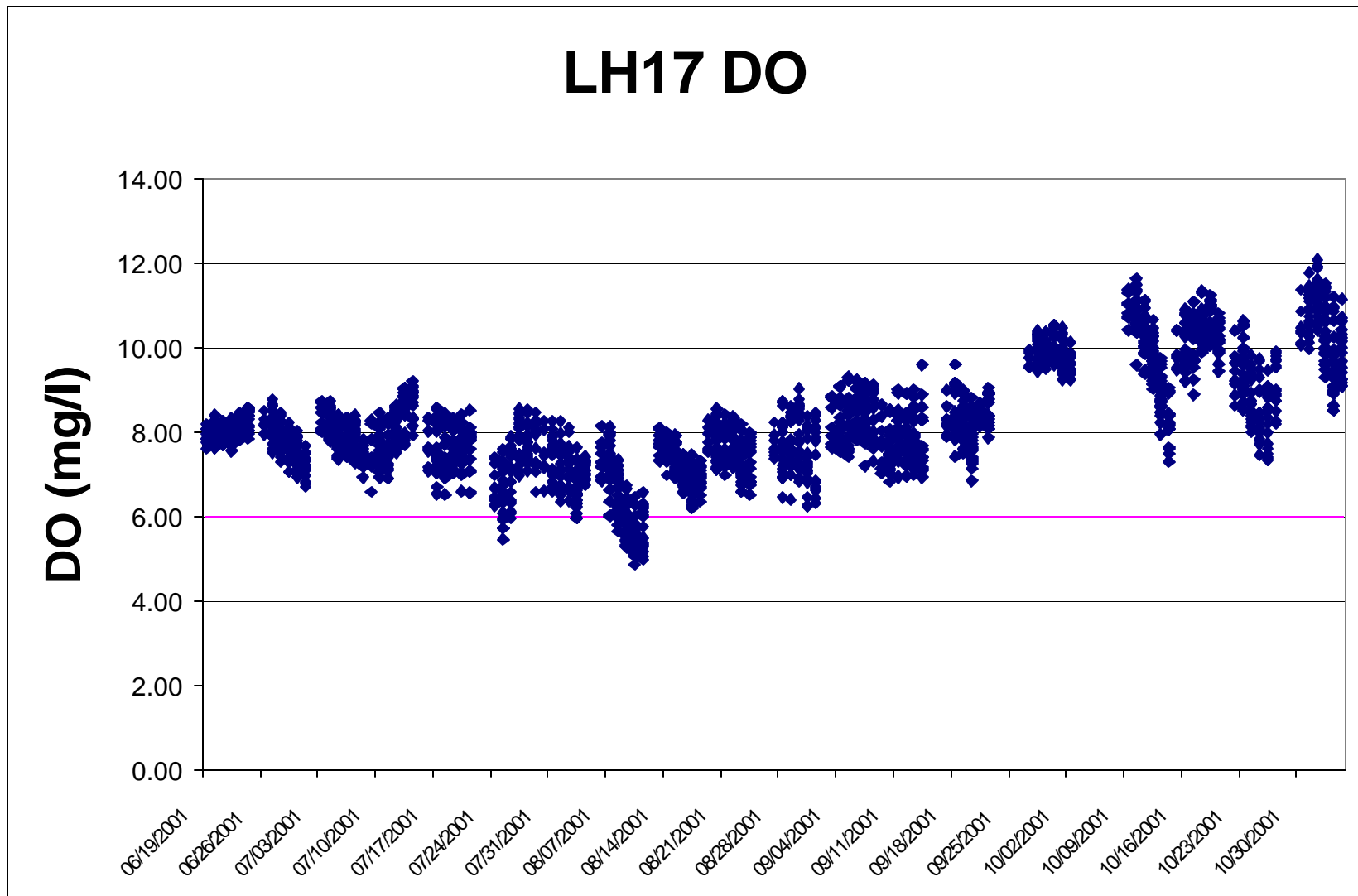


Figure 3-16. Hourly dissolved oxygen concentrations (mg/L) monitored at station LH17 with the Hydrolab in-situ data logger during the Lehigh River water quality monitoring study conducted between May and November 2001. PADEP critical use criterion for this station is a daily average of 6.0 mg/L and a minimum of 5.0 mg/L.

and the Lehigh River and represents the water entering the Walters Reservoir for the upper watershed. Low DO concentrations (below 5 mg/L) occurred mostly during the end of June and into the beginning of July 2001. By mid-July DO levels were generally above 7.0 mg/L, although occasional readings at or below 6.0 mg/L were observed. By the fall of 2001 dissolved oxygen levels were well above the HQ-CWF criteria, reflecting the cooler temperatures and higher capacity for the water to hold oxygen. Fall 2001 DO levels were often at supersaturated conditions that may have been caused by seasonally high algal epiphytic growth.

Station LH2 situated a few thousand feet downstream of the Walter Dam is also categorized as HQ-CWF by PADEP. Dissolved oxygen levels at this station were rarely below 7.0 mg/L indicating the discharges for the reservoir were not adversely impacting DO concentrations in downstream habitats (Fig. 3-14). Concentrations in the summer months of 2001 were consistently just above 8.0 mg/L and increased to well above 10 mg/L by October 2001. The high dissolved oxygen concentrations recorded below the dam is consistent with USACE DO stratification monitoring in the reservoir that indicated that high levels were maintained throughout the water column in the summer 2001 season (Versar 2002a).

Dissolved oxygen levels at LH10 monitored in the mainstem near Lehighton water plant intake were consistently above the 6.0 mg/L TSF requirement throughout the entire time series (Fig. 3-15). Concentrations at this station were never below the criteria, even in the warmer months. Similarly high levels were observed at station (LH17) located near the Northampton water treatment facility where DO concentrations were typically above 6.0 mg/L (Fig. 3-16). This station is also classified as a Trout Stocking Fishery by PADEP that requires a daily average of 6.0 mg/L and minimum levels of 5.0 mg/L. Out of 2,298 DO observations recorded in 2001 at this station, only two records were slightly below 5.0 mg/L minimum criteria and daily averages were generally well above the 6.0 mg/L requirement.

3.4 PH LEVELS

Monitoring of the pH levels among the four in-situ stations revealed that pH levels typically stayed within the 6 to 9 pH range required by PADEP (Figs. 3-17 to 3-20). At station LH1 upstream of the Walter Dam only one value out of nearly 3,000 records was below 6.0 (Fig. 3-17). At the station immediately downstream of the dam, pH levels were typically within the required range (Fig. 3-18), with the exception of about 25 records at the end of August 2001. This reduction in pH coincided with lower values recorded in the lower water column of the reservoir during the summer 2001 months (Versar 2002a). Measured pH levels were within the required range at station LH10 for most of the time series (Fig. 3-19). However, approximately 11 observations below 6.0 were recorded in mid-August out of a total of 3,300 pH values logged by the water quality units. No pH values below 6.0 were recorded with the Hydrolab unit deployed at Northampton station LH17 (Fig. 3-20), and none of the in-situ meters ever recorded pH over the maximum concentration of 9.0.

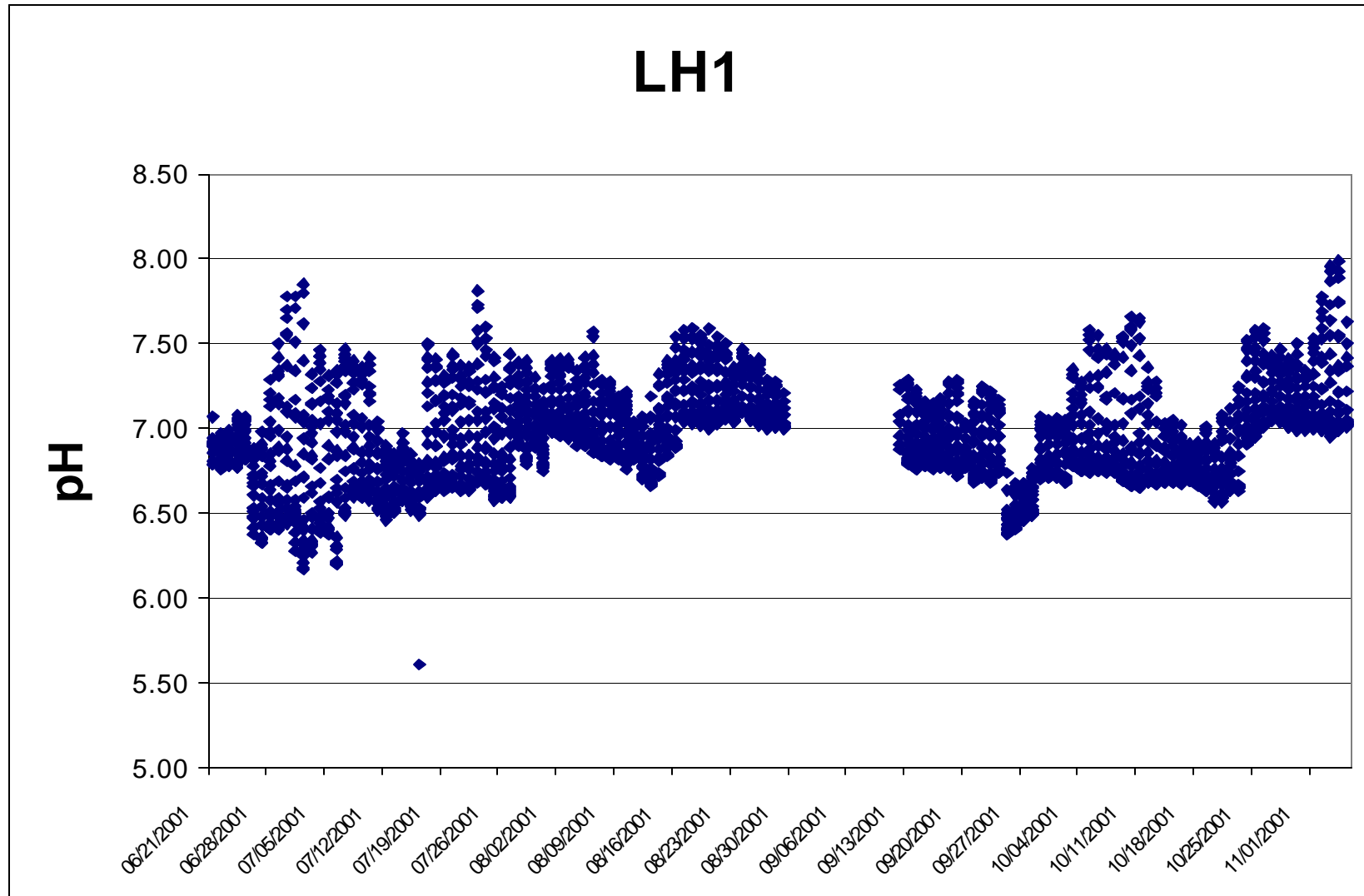


Figure 3-17. Hourly pH levels monitored at station LH1 with the YSI in-situ data logger during the Lehigh River water quality monitoring study conducted between May and November 2001. PADEP water quality requirements for pH are between pH 6 and pH 9.

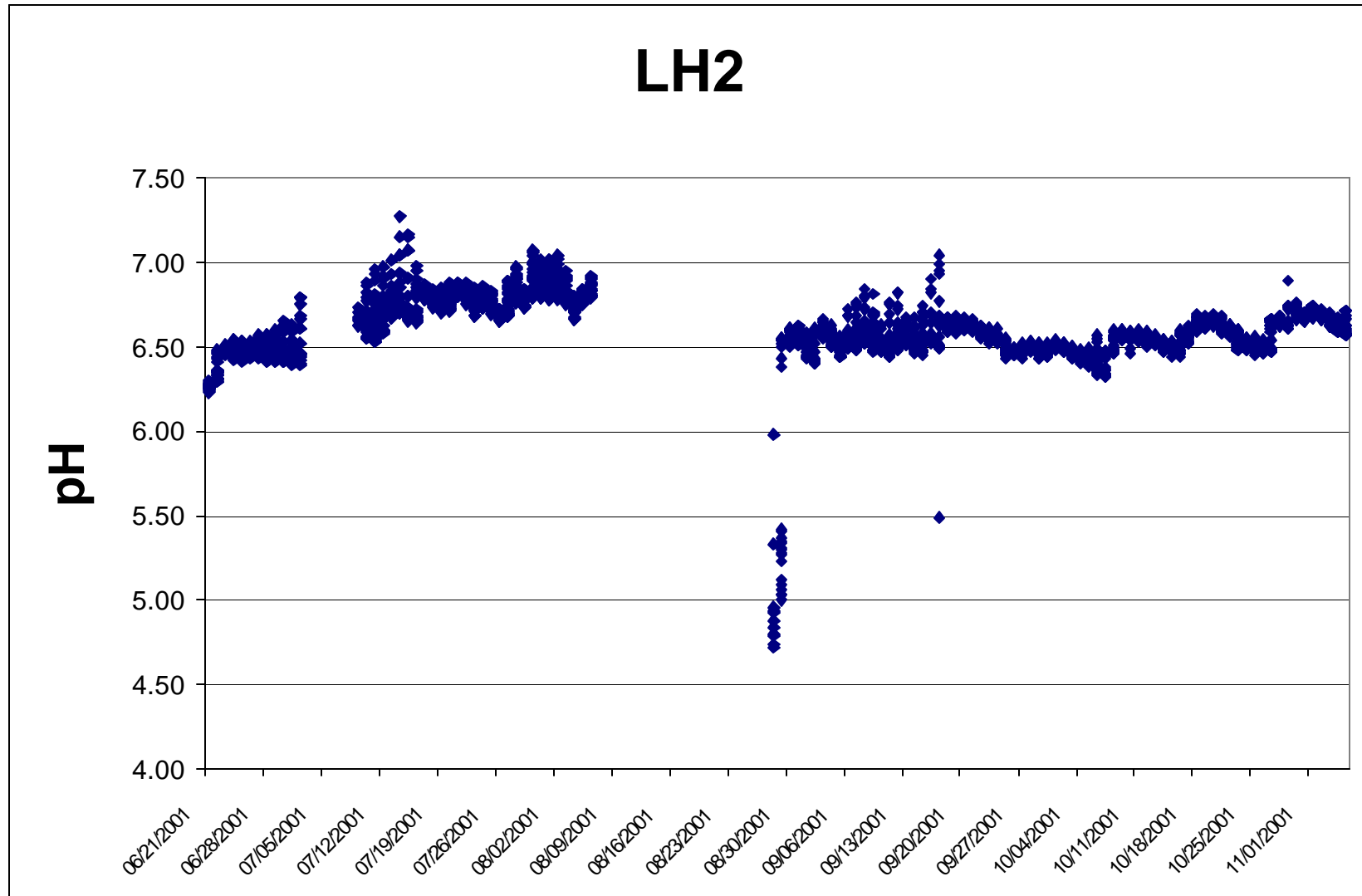


Figure 3-18. Hourly pH levels monitored at station LH2 with the YSI in-situ data logger during the Lehigh River water quality monitoring study conducted between May and November 2001. PADEP water quality requirements for pH are between pH 6 and pH 9.

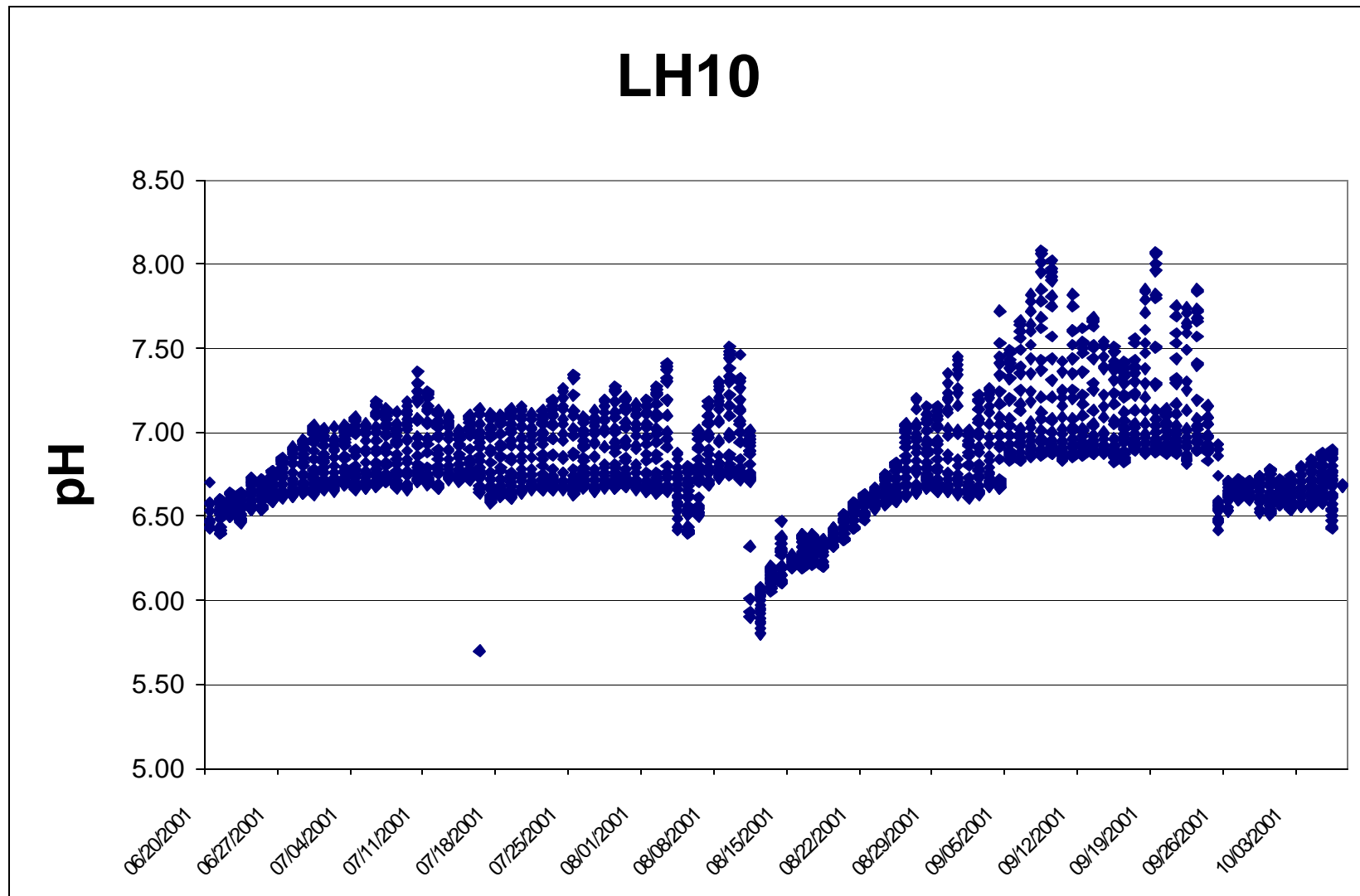


Figure 3-19. Hourly pH levels monitored at station LH10 with the YSI in-situ data logger during the Lehigh River water quality monitoring study conducted between May and November 2001. PADEP water quality requirements for pH are between pH 6 and pH 9.

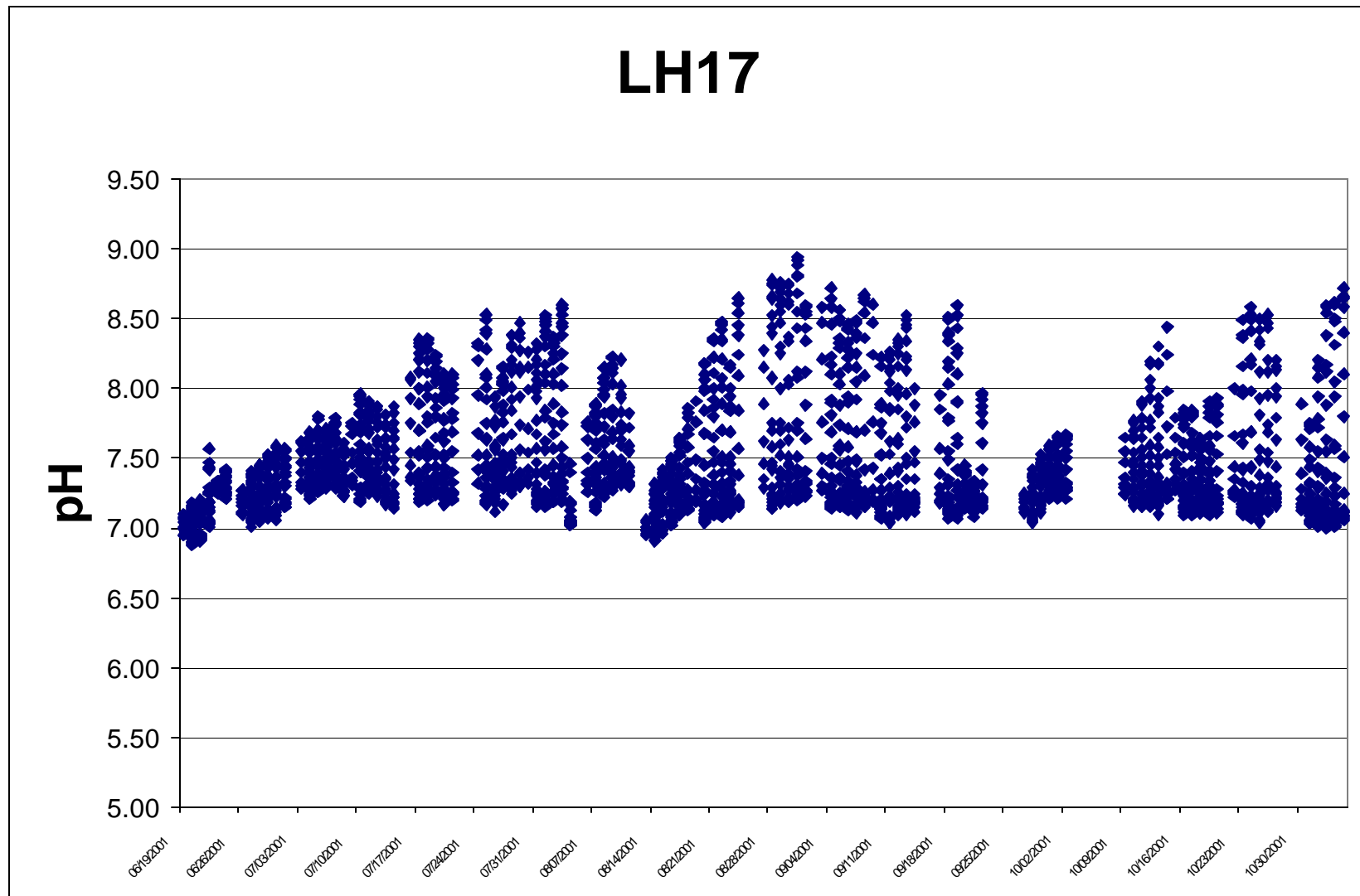


Figure 3-20. Hourly pH levels monitored at station LH17 with the Hydrolab in-situ data logger during the Lehigh River water quality monitoring study conducted between May and November 2001. PADEP water quality requirements for pH are between pH 6 and pH 9.

3.5 NUTRIENT LEVELS

Measures of nutrient concentrations were taken weekly at all 17 Lehigh River and tributary stations for the entire 24-week monitoring period. These data are summarized in Table 3-2. Average ammonia nitrogen, nitrite, and nitrate concentration among the monitoring stations was consistently higher at LH11 located in Mahoning Creek just downstream of the Lehighon sewage treatment facility (Fig. 3-21). Ammonia levels averaged about 0.1 to 0.2 mg/L at all stations with the exception of LH11 where ammonia averaged about 5.5 mg/L throughout the 24-week time series. Higher than average concentrations of nitrate were also observed (1.4 mg/L) at LH11 and there is a suggestion that higher levels were generally seen at stations downstream of Nesquehoning Creek (LH9) where nitrate concentration averaged about 0.5 mg/L (Fig. 3-21). Averaged among weeks, nitrite concentrations were low throughout the system (generally less than 0.02 mg/L) but again was elevated downstream of the Lehighon sewage treatment outfall (0.11 mg/L). PADEP ammonia water quality criteria are dependent on temperature and pH (Table 3-3). Ammonia levels observed during the monitoring program rarely violated the PADEP ammonia criteria for the given temperature and pH measured at the time of collection.

Phosphorus levels and 5-day Biochemical Oxygen Demand (BOD) were also elevated at station LH11 relative to the other monitoring stations (Fig. 3-22). Phosphorus levels at LH11 averaged 0.38 mg/L and were second only to station LH3 (Tannery Bridge) that averaged about 0.2 mg/L during the monitoring period. Phosphorus levels at all other stations averaged less than 0.1 mg/L. BOD levels were consistent (2.0 to 2.5 mg/L) among all stations with the exception of LH11 where BOD approached 5.0 mg/L (Fig. 3-22). However, most of the measures for BOD were below the 1.0 to 3.0 mg/L method detection limits (Table 3-2).

Several other water quality parameters were measured in the weekly grab sampling including alkalinity, silica (Fig. 3-23), and total inorganic and organic carbon (Fig. 3-24). Measures of alkalinity were generally lower in the upper portion of the watershed (station LH8 at Glen Onoko and above) relative to downriver stations that averaged about 30 mg/L CaCO₃. Silica levels were lowest (about 1.25 mg/L or not detected) at the upper three stations; (LH1 above the Walters dam, LH2 below the Dam, and at LH3 near Tannery Bridge). Silica levels from Hayes Creek (LH4) to Northampton were higher averaging about 2.0 to 3.0 mg/L (Fig. 3-23). Very few differences were observed in total inorganic and organic carbon among the monitoring stations, but these parameters were mostly below the 5.0 mg/L test detection limits (Table 3-2).

Table 3-2. Summary of nutrient concentrations and various chemical parameters monitored each week at 17 stations in the Lehigh River watershed between May and November 2001. All units are in mg/L.

TRIP	STATION	DATE	ALKALINITY	NH3-N	BOD-5	NITRATE	NITRITE	P, diss	PO4, diss	SIO2-diss	TIC	TOC
1	LH1	05/31/2001	7	<0.1	<3	0.7	<0.005	<0.05	0.07	<1	<5	<5
	LH2	05/30/2001	5	<0.1	<3	0.6	<0.005	<0.05	<0.05	1	<5	<5
	LH3	05/30/2001	6	<0.1	<3	0.6	<0.005	<0.05	<0.05	<1	<5	<5
	LH4	05/30/2001	4	<0.1	<3	0.6	<0.005	<0.05	0.06	<1	<5	<5
	LH5	05/30/2001	<1	<0.1	<3	0.6	<0.005	<0.05	0.06	2	<5	<5
	LH6	05/30/2001	<1	<0.1	<3	0.9	<0.005	<0.05	0.05	<2	<5	<5
	LH7	05/30/2001	2	<0.1	<3	0.7	<0.005	<0.05	0.05	<2	<5	<5
	LH8	05/30/2001	5	<0.1	<3	0.6	<0.005	<0.05	<0.05	<1	<5	<5
	LH9	05/31/2001	22	<0.1	<3	0.6	<0.005	<0.05	0.12	1	<5	<5
	LH10	05/30/2001	6	<0.1	<3	0.6	<0.005	<0.05	0.05	<2	<5	<5
	LH11	05/30/2001	23	0.7	<3	1.6	0.028	0.11	0.35	1	<5	<5
	LH12	05/30/2001	11	<0.1	<3	0.9	<0.005	<0.05	<0.05	3	<5	<5
	LH13	05/30/2001	26	<0.1	<3	1.2	0.006	<0.05	<0.05	<2	<5	<5
	LH14	05/30/2001	34	0.3	<3	1.3	0.012	<0.05	0.07	<2	<5	7
	LH15	05/30/2001	14	0.1	<3	0.8	<0.005	<0.05	0.07	1	<5	<5
	LH16	05/31/2001	46	<0.1	<3	1.6	<0.005	<0.05	0.06	<2	<5	10
	LH17	05/31/2001	15	<0.1	<3	0.9	<0.005	<0.05	<0.05	1	<5	<5
2	LH1	06/05/2001	6	<0.1	<3	0.4	<0.005	<0.05	0.06	1.3	<5	<5
	LH2	06/06/2001	4	<0.1	<3	0.4	<0.005	<0.05	0.06	2.4	<5	<5
	LH3	06/06/2001	4	<0.1	<3	0.4	<0.005	<0.05	0.09	1.5	<5	<5
	LH4	06/06/2001	4	<0.1	<3	0.5	<0.005	<0.05	0.07	1.7	<5	<5
	LH5	06/05/2001	<1	<0.1	<3	0.5	<0.005	<0.05	0.07	2	<5	<5
	LH6	06/05/2001	<1	<0.1	<3	0.7	<0.005	<0.05	0.09	2.6	<5	<5
	LH7	06/05/2001	<1	<0.1	<3	0.5	<0.005	<0.05	0.07	1.6	<5	<5
	LH8	06/05/2001	4	0.2	<3	0.8	<0.005	<0.05	0.09	2.2	<5	<5
	LH9	06/05/2001	12	0.2	<3	0.4	0.005	0.09	0.27	1.4	<5	<5
	LH10	06/05/2001	6	0.2	<3	0.4	0.005	<0.05	0.07	3	<5	<5
	LH11	06/05/2001	22	0.3	<3	1.5	0.042	0.11	0.35	1.4	<5	<5
	LH12	06/05/2001	10	0.1	<3	0.7	0.006	<0.05	0.09	1.3	<5	<5
	LH13	06/05/2001	24	<0.1	<3	1	0.008	<0.05	0.08	1.4	<5	<5
	LH14	06/05/2001	34	0.2	<3	0.7	0.013	<0.05	0.12	2.6	<5	<5
	LH15	06/05/2001	10	0.1	<3	0.8	0.006	0.08	0.24	2.2	<5	<5
	LH16	06/05/2001	26	0.1	<3	0.8	0.012	0.09	0.27	1.6	<5	<5
	LH17	06/05/2001	12	0.1	<3	0.6	0.007	0.05	0.15	1.3	<5	<5

Table 3-2. (Continued)												
TRIP	STATION	DATE	ALKALINITY	NH3-N	BOD-5	NITRATE	NITRITE	P, diss	PO4, diss	SIO2-diss	TIC	TOC
3	LH1	06/13/2001	8	0.2	<2	<0.1	<0.005	<0.05	0.05	2	<5	<5
	LH2	06/13/2001	7	0.2	<2	0.1	<0.005	<0.05	0.05	2	<5	<5
	LH3	06/13/2001	6	<0.1	<2	<0.1	0.005	<0.05	0.07	2	<5	<5
	LH4	06/13/2001	5	<0.1	<2	<0.1	<0.005	<0.05	<0.05	2	<5	<5
	LH5	06/13/2001	<1	0.2	<2	<0.1	<0.005	<0.05	<0.05	3	<5	<5
	LH6	06/13/2001	<1	<0.1	<2	<0.1	<0.005	<0.05	<0.05	2	<5	<5
	LH7	06/13/2001	9	<0.1	<2	<0.1	<0.005	<0.05	0.13	2	<5	<5
	LH8	06/13/2001	7	<0.1	<2	<0.1	<0.005	<0.05	<0.05	3	<5	<5
	LH9	06/14/2001	19	0.1	4	<0.1	<0.005	0.05	0.15	2	<5	<5
	LH10	06/14/2001	10	0.2	<2	<0.1	<0.005	<0.05	<0.05	2	<5	<5
	LH11	06/14/2001	25	0.2	10	<0.1	0.025	0.11	0.35	2	<5	9
	LH12	06/14/2001	14	0.3	<2	<0.1	<0.005	<0.05	0.05	2.3	<5	<5
	LH13	06/14/2001	13	1.1	<2	<0.1	<0.005	<0.05	0.06	2	<5	<5
	LH14	06/15/2001	41	<0.1	<2	<0.1	0.017	<0.05	<0.05	1.5	<5	<5
	LH15	06/15/2001	16	<0.1	<2	0.4	0.005	<0.05	<0.05	0.9	<5	<5
	LH16	06/15/2001	31	<0.1	<2	<0.1	0.006	<0.05	0.09	1.9	<5	<5
	LH17	06/15/2001	18	<0.1	<2	<0.1	0.006	<0.05	<0.05	0.8	<5	<5
4	LH1	06/21/2001	7	<0.1	<2	0.1	<0.005	<0.05	<0.05	<1	<5	5
	LH2	06/21/2001	4	<0.1	<2	0.1	<0.005	<0.05	<0.05	<1	<5	5
	LH3	06/21/2001	5	<0.1	<2	0.1	<0.005	0.06	<0.05	<1	<5	5
	LH4	06/21/2001	4	<0.1	<2	0.1	<0.005	<0.05	0.08	<1	<5	<5
	LH5	06/20/2001	<1	<0.1	<2	0.2	<0.005	<0.05	0.08	<1	<5	<5
	LH6	06/20/2001	1	<0.1	<2	0.3	<0.005	0.07	0.21	2	<5	<5
	LH7	06/20/2001	1	<0.1	<2	0.2	<0.005	<0.05	0.11	1	<5	<5
	LH8	06/20/2001	3	<0.1	<2	0.1	<0.005	<0.05	0.06	1	<5	<5
	LH9	06/20/2001	11	<0.1	<2	0.1	<0.005	0.05	0.14	2	<5	<5
	LH10	06/20/2001	5	<0.1	<2	0.1	<0.005	<0.05	<0.05	1	<5	<5
	LH11	06/20/2001	18	0.2	<2	0.9	0.026	0.32	0.1	1	<5	<5
	LH12	06/20/2001	15	<0.1	<2	0.3	<0.005	<0.05	<0.05	<1	<5	<5
	LH13	06/20/2001	23	<0.1	<2	0.9	0.008	<0.05	<0.05	1	<5	<5
	LH14	06/20/2001	42	0.2	<2	0.4	0.018	<0.05	0.09	1	<5	11
	LH15	06/20/2001	9	<0.1	<2	0.3	<0.005	0.11	<0.05	1	<5	<5
	LH16	06/20/2001	27	<0.1	<2	0.3	0.007	0.14	<0.05	2	6	<5
	LH17	06/20/2001	9	<0.1	<2	0.2	<0.005	<0.05	<0.05	1	<5	<5

Table 3-2. (Continued)												
TRIP	STATION	DATE	ALKALINITY	NH3-N	BOD-5	NITRATE	NITRITE	P, diss	PO4, diss	SIO2-diss	TIC	TOC
5	LH1	06/26/2001	6	<0.1	<3	0.1	<0.005	<0.05	0.12	<1	<5	5
	LH2	06/26/2001	2	<0.1	<3	0.2	<0.005	0.11	<0.05	<1	<5	<5
	LH3	06/25/2001	8	<0.1	<3	0.3	0.007	<0.05	0.13	<1	<5	<5
	LH4	06/25/2001	4	<0.1	<3	0.5	<0.005	0.71	2.18	1	<5	<5
	LH5	06/25/2001	<1	<0.1	<3	0.3	<0.005	0.07	<0.05	1	<5	<5
	LH6	06/25/2001	1	<0.1	<3	0.2	<0.005	0.06	0.19	1	<5	<5
	LH7	06/25/2001	<1	0.2	<3	0.2	<0.005	0.06	0.18	2	<5	<5
	LH8	06/25/2001	4	<0.1	<3	0.2	<0.005	0.17	0.52	1	<5	<5
	LH9	06/25/2001	16	<0.1	<3	0.2	<0.005	0.58	0.19	<1	<5	<5
	LH10	06/25/2001	7	<0.1	<3	0.2	<0.005	0.13	<0.05	2	<5	<5
	LH11	06/25/2001	18	0.1	<3	0.1	0.022	0.28	0.09	<1	<5	<5
	LH12	06/25/2001	10	<0.1	<3	0.1	0.005	0.11	<0.05	2	<5	<5
	LH13	06/25/2001	20	0.1	<3	0.1	0.007	0.16	0.05	2	<5	<5
	LH14	06/25/2001	37	0.2	<3	0.1	0.019	0.18	0.06	<1	<5	<5
	LH15	06/25/2001	12	<0.1	<3	0.2	0.005	0.06	0.18	1	<5	<5
	LH16	06/25/2001	35	0.1	<3	0.2	0.011	0.18	0.06	2	<5	6
	LH17	06/25/2001	16	<0.1	<3	0.2	0.006	0.17	0.06	1	<5	<5
6	LH1	07/02/2001	10	<0.1	<2	0.148	<0.01	<0.05	<0.05	<1	<5	5
	LH2	07/02/2001	6	<0.1	<2	0.136	<0.01	0.22	0.07	3	<5	<5
	LH3	07/02/2001	7	<0.1	<2	0.167	<0.01	<0.05	0.12	2.2	<5	<5
	LH4	07/02/2001	6	<0.1	<2	<0.01	<0.01	<0.05	0.11	2.6	<5	<5
	LH5	07/02/2001	<1	<0.1	<2	0.292	<0.01	0.12	<0.05	<5	<5	<5
	LH6	07/02/2001	<1	<0.1	<2	0.502	<0.01	<0.05	0.09	3	<5	<5
	LH7	07/02/2001	<1	0.1	<2	0.301	<0.01	<0.05	0.11	2.2	<5	<5
	LH8	07/02/2001	4	<0.1	<2	0.168	<0.01	0.09	<0.05	2.6	<5	<5
	LH9	07/02/2001	24	0.1	<2	0.453	<0.01	0.07	0.22	<2	<5	<5
	LH10	07/02/2001	8	0.2	<2	0.229	<0.01	<0.05	0.09	2.9	<5	<5
	LH11	07/02/2001	22	0.7	<2	1.798	<0.01	0.15	0.47	3.2	<5	<5
	LH12	07/02/2001	12	0.2	<2	0.784	<0.01	0.06	<0.05	2.8	<5	<5
	LH13	07/02/2001	27	0.2	<2	1.128	<0.01	0.1	<0.05	2.9	<5	<5
	LH14	07/02/2001	40	0.5	<2	1.31	<0.01	<0.05	0.07	2.7	<5	<5
	LH15	07/02/2001	18	0.2	<2	0.518	<0.01	0.09	<0.05	2	<5	<5
	LH16	07/02/2001	37	0.3	<2	1.142	<0.01	0.06	0.18	2.6	<5	<5
	LH17	07/02/2001	21	0.3	<2	0.727	<0.01	<0.05	0.11	1.6	<5	<5

Table 3-2. (Continued)												
TRIP	STATION	DATE	ALKALINITY	NH3-N	BOD-5	NITRATE	NITRITE	P, diss	PO4, diss	SIO2-diss	TIC	TOC
7	LH1	07/10/2001	7	0.2	<3	<0.01	<0.01	<0.05	<0.05	<1	<5	<5
	LH2	07/10/2001	6	0.2	<3	<0.01	0.307	<0.05	<0.05	<1	<5	<5
	LH3	07/10/2001	7	0.2	<3	0.975	0.333	<0.05	0.05	<1	<5	<5
	LH4	07/10/2001	4	0.1	<3	<0.01	0.82	<0.05	<0.05	<1	<5	<5
	LH5	07/10/2001	1	0.1	<3	0.343	<0.01	<0.05	<0.05	1.2	<5	<5
	LH6	07/10/2001	1	<0.1	<3	0.68	<0.01	<0.05	<0.05	1.2	<5	<5
	LH7	07/10/2001	1	<0.1	<3	0.663	<0.01	<0.05	<0.05	1.4	<5	<5
	LH8	07/10/2001	4	<0.1	<3	0.275	<0.01	<0.05	<0.05	<1	<5	<5
	LH9	07/10/2001	34	<0.1	<3	0.762	<0.01	0.08	0.26	1.1	<5	<5
	LH10	07/10/2001	8	<0.1	<3	0.221	<0.01	<0.05	<0.05	<1	<5	<5
	LH11	07/10/2001	25	0.3	4	4.216	<0.01	0.22	0.67	1.6	<5	<5
	LH12	07/10/2001	13	<0.1	<3	2.197	<0.01	<0.05	<0.05	1.6	<5	<5
	LH13	07/10/2001	30	0.1	<3	1.189	<0.01	<0.05	<0.05	1.7	<5	<5
	LH14	07/10/2001	48	<0.1	<3	1.239	<0.01	<0.05	0.14	2.3	<5	<5
	LH15	07/10/2001	18	<0.1	<3	0.691	<0.01	<0.05	0.09	2.2	<5	<5
	LH16	07/10/2001	36	<0.1	<3	1.102	<0.01	0.06	0.2	<2	<5	<5
	LH17	07/10/2001	34	<0.1	<3	0.69	<0.01	<0.05	0.1	<1	<5	<5
8	LH1	07/16/2001	8	<0.1	<2	0.1	<0.005	<0.05	0.06	<1	<5	<5
	LH2	07/16/2001	8	0.2	<2	0.1	<0.005	<0.05	0.12	<1	<5	<5
	LH3	07/16/2001	8	<0.1	<2	0.2	0.007	<0.05	0.08	<1	<5	<5
	LH4	07/16/2001	4	0.1	<2	0.2	<0.005	<0.05	0.07	1.3	<5	<5
	LH5	07/16/2001	<1	0.1	<2	0.2	<0.005	<0.05	0.08	1.7	<5	<5
	LH6	07/16/2001	2	0.1	<2	0.4	<0.005	0.12	0.36	3	<5	<5
	LH7	07/16/2001	3	0.1	<2	0.2	<0.005	<0.05	<0.05	1.3	<5	<5
	LH8	07/16/2001	5	0.1	<2	0.1	<0.005	<0.05	0.05	1.3	<5	<5
	LH9	07/16/2001	43	0.2	<2	0.4	<0.005	0.09	0.29	3.2	5	<5
	LH10	07/16/2001	8	<0.1	<2	0.2	<0.005	<0.05	0.1	1.4	<5	<5
	LH11	07/16/2001	31	0.1	7	1.1	0.122	0.42	1.28	1.7	<5	<5
	LH12	07/16/2001	13	0.1	<2	0.3	0.005	<0.05	0.07	1.9	<5	<5
	LH13	07/16/2001	32	<0.1	<2	0.5	0.005	<0.05	0.08	1.4	<5	<5
	LH14	07/16/2001	54	0.3	<2	0.5	0.046	0.07	0.22	1.4	6	<5
	LH15	07/16/2001	16	<0.1	<2	0.4	0.005	<0.05	0.08	1.1	<5	<5
	LH16	07/16/2001	38	<0.1	<2	0.6	0.005	0.07	0.2	<1	<5	<5
	LH17	07/16/2001	21	<0.1	<2	0.8	0.005	<0.05	0.11	<1	<5	<5

TRIP	STATION	DATE	ALKALINITY	NH3-N	BOD-5	NITRATE	NITRITE	P, diss	PO4, diss	SIO2-diss	TIC	TOC
9	LH1	07/24/2001	10	<0.1	<2	<0.1	<0.005	0.08	0.24	<1	<5	<5
	LH2	07/25/2001	7	0.11	<2	0.133	<0.005	<0.05	0.11	<1	<5	<5
	LH3	07/24/2001	7	<0.1	<2	<0.1	<0.005	0.41	1.24	<1	<5	<5
	LH4	07/24/2001	4	<0.1	<2	0.138	<0.005	<0.05	0.08	1.14	<5	<5
	LH5	07/24/2001	<1	0.248	<2	0.13	<0.005	<0.05	0.06	<1	<5	<5
	LH6	07/24/2001	<1	<0.1	<2	0.185	<0.005	0.05	0.16	1.47	<5	<5
	LH7	07/24/2001	<1	0.136	<2	0.128	<0.005	1.15	3.53	1.35	<5	<5
	LH8	07/24/2001	40	0.151	<2	<0.1	<0.005	<0.05	0.07	1.69	<5	<5
	LH9	07/24/2001	42	0.174	<2	0.141	<0.005	0.11	0.34	<1	<5	<5
	LH10	07/24/2001	7.86	0.116	<2	<0.1	<0.005	0.72	2.22	1.19	<5	<5
	LH11	07/24/2001	14	0.974	<2	0.756	0.077	0.32	0.99	1.12	<5	<5
	LH12	07/24/2001	22	0.142	<2	0.101	<0.005	0.08	0.26	1.06	<5	<5
	LH13	07/24/2001	32	0.158	<2	0.12	<0.005	<0.05	0.09	1.62	<5	<5
	LH14	07/24/2001	48	0.147	<2	0.179	0.028	0.09	0.29	3.13	<5	<5
	LH15	07/24/2001	17	<0.1	<2	0.123	<0.005	<0.05	0.08	2.39	<5	<5
	LH16	07/24/2001	38	0.149	<2	0.312	<0.005	0.07	0.2	<2	<5	<5
	LH17	07/24/2001	18	<0.1	<2	0.151	0.005	0.09	0.26	1.13	<5	<5
10	LH1	07/31/2001	8	<0.1	<2	<0.1	<0.005	<0.05	<0.05	<1	<5	<5
	LH2	08/01/2001	9	<0.1	<2	0.113	<0.005	0.39	1.2	<1	<5	<5
	LH3	07/31/2001	9	<0.1	<2	0.232	0.007	<0.05	0.09	<1	<5	<5
	LH4	07/31/2001	4	<0.1	<2	0.184	<0.005	<0.05	<0.05	1.26	<5	<5
	LH5	07/31/2001	<1	<0.1	<2	0.119	<0.005	0.16	0.48	2.48	<5	<5
	LH6	07/31/2001	<1	<0.1	<2	0.199	<0.005	<0.05	0.06	2.93	<5	<5
	LH7	07/31/2001	<1	<0.1	<2	0.333	<0.005	<0.05	0.13	2.51	<5	<5
	LH8	07/31/2001	5	<0.1	<2	0.176	<0.005	0.39	1.2	<1	<5	<5
	LH9	07/31/2001	44	0.105	<2	0.219	<0.005	0.07	0.23	1.74	6.6	<5
	LH10	07/31/2001	7	<0.1	<2	0.107	<0.005	<0.05	0.06	<1	<5	<5
	LH11	07/31/2001	26	<0.1	<2	1.04	0.092	0.35	1.09	<1	<5	<5
	LH12	07/31/2001	12	0.85	<2	0.176	<0.005	<0.05	0.09	<1	<5	<5
	LH13	07/31/2001	34	<0.1	<2	1.09	<0.005	<0.05	0.07	<1	<5	<5
	LH14	07/31/2001	55	0.178	<2	0.34	0.057	0.05	0.15	<1	<5	<5
	LH15	07/31/2001	18	<0.1	<2	0.119	0.009	<0.05	0.09	1.18	<5	<5
	LH16	07/31/2001	35	0.137	<2	0.247	0.006	0.06	0.17	<1	<5	<5
	LH17	07/31/2001	19	<0.1	<2	0.162	0.006	<0.05	0.05	<1	<5	<5

Table 3-2. (Continued)												
TRIP	STATION	DATE	ALKALINITY	NH3-N	BOD-5	NITRATE	NITRITE	P, diss	PO4, diss	SIO2-diss	TIC	TOC
11	LH1	08/06/2001	13	<0.1	<2	0.164	<0.01	<0.05	0.09	<1	<5	<5
	LH2	08/06/2001	8	<0.1	<2	0.179	<0.01	<0.05	0.07	<1	<5	<5
	LH3	08/06/2001	10	<0.1	<2	0.223	<0.01	3.14	9.63	<1	<5	<5
	LH4	08/06/2001	6	<0.1	<2	0.139	<0.01	<0.05	<0.05	1.39	<5	<5
	LH5	08/06/2001	4	<0.1	<2	0.248	<0.01	<0.05	<0.05	2.19	<5	<5
	LH6	08/06/2001	4	<0.1	<2	0.699	<0.01	<0.05	0.09	2.2	<5	<5
	LH7	08/06/2001	5	<0.1	<2	0.355	<0.01	<0.05	0.05	<1	<5	<5
	LH8	08/06/2001	9	<0.1	<2	0.2	<0.01	<0.05	<0.05	1.35	<5	<5
	LH9	08/06/2001	32	<0.1	<2	0.519	0.067	0.11	0.33	1.52	<5	<5
	LH10	08/06/2001	14	<0.1	<2	0.219	<0.01	<0.05	0.05	1.25	<5	<5
	LH11	08/06/2001	40	0.43	3	2.194	0.554	0.29	0.89	1	<5	<5
	LH12	08/06/2001	16	<0.1	<2	0.737	<0.01	<0.05	0.06	<1	<5	<5
	LH13	08/06/2001	10	<0.1	<2	1.01	<0.01	<0.05	0.08	1.25	<5	<5
	LH14	08/06/2001	60	<0.1	<2	0.771	<0.01	0.05	0.15	1.03	<5	<5
	LH15	08/06/2001	18	<0.1	<2	0.472	<0.01	<0.05	0.09	<1	<5	<5
	LH16	08/06/2001	36	<0.1	<2	0.496	<0.01	<0.05	0.09	<1	<5	<5
	LH17	08/06/2001	20	<0.1	<2	0.584	<0.01	0.06	0.18	<1	<5	<5
12	LH1	08/16/2001	9	<0.1	<2	0.093	<0.01	<0.05	0.07	<1	<1	6
	LH2	08/16/2001	10	<0.1	<2	0.144	<0.01	<0.05	0.09	<1	<1	6
	LH3	08/16/2001	10	<0.1	<2	0.177	<0.01	<0.05	0.11	<1	<1	6
	LH4	08/16/2001	4	<0.1	<2	0.134	<0.01	<0.05	0.07	<1	<1	3
	LH5	08/16/2001	<1	<0.1	<2	0.198	<0.01	<0.05	0.07	<1	1	2
	LH6	08/16/2001	<1	<0.1	<2	0.531	<0.01	<0.05	0.06	<1	<1	4
	LH7	08/16/2001	2	<0.1	<2	0.413	<0.01	<0.05	0.05	<1	<1	3
	LH8	08/16/2001	2	<0.1	<2	0.209	<0.01	<0.05	0.07	<1	<1	3
	LH9	08/16/2001	34	<0.1	<2	0.318	<0.01	0.09	0.27	<1	6	1
	LH10	08/16/2001	6	<0.1	<2	0.225	<0.01	<0.05	0.07	<1	<1	3
	LH11	08/16/2001	28	0.43	3	2.142	0.441	0.3	0.91	<1	<1	5
	LH12	08/16/2001	14	<0.1	<2	0.836	<0.01	<0.05	0.11	<1	<1	2
	LH13	08/16/2001	34	<0.1	<2	0.509	<0.01	<0.05	0.07	<1	<1	3
	LH14	08/16/2001	57	<0.1	<2	1.065	<0.01	0.12	0.36	<1	1	2
	LH15	08/16/2001	14	<0.1	<2	0.419	<0.01	<0.05	0.07	<1	<1	2
	LH16	08/16/2001	32	<0.1	<2	0.73	<0.01	0.05	0.15	<1	<1	3
	LH17	08/16/2001	11	<0.1	<2	0.625	0.49	<0.05	0.08	<1	<1	3

Table 3-2. (Continued)												
TRIP	STATION	DATE	ALKALINITY	NH3-N	BOD-5	NITRATE	NITRITE	P, diss	PO4, diss	SIO2-diss	TIC	TOC
13	LH1	08/20/2001	9	0.42	<3	0.116	<0.01	<0.05	0.07	<1	<5	6
	LH2	08/20/2001	8	0.31	<3	0.113	<0.01	<0.05	0.05	<1	<5	6
	LH3	08/20/2001	10	0.18	<3	0.139	<0.01	<0.05	0.08	<1	<1	5
	LH4	08/20/2001	4	<0.1	<3	0.116	<0.01	<0.05	0.06	<1	<1	2
	LH5	08/20/2001	<1	0.27	<3	0.15	<0.01	<0.05	0.05	<1	<1	2
	LH6	08/20/2001	<1	0.14	<3	0.459	<0.01	<0.05	<0.05	<1	<1	2
	LH7	08/20/2001	1	0.47	<3	0.299	<0.01	<0.05	0.07	<1	<1	2
	LH8	08/20/2001	2	<0.1	<3	0.148	<0.01	<0.05	0.06	<1	<1	2
	LH9	08/20/2001	33	0.17	<3	0.585	<0.01	0.11	0.35	<1	<1	2
	LH10	08/20/2001	6	<0.1	<3	0.191	<0.01	<0.05	0.05	<1	<1	2
	LH11	08/20/2001	30	0.45	<3	1.939	0.313	0.47	1.44	<1	1	5
	LH12	08/20/2001	16	0.25	<3	0.59	<0.01	<0.05	0.05	<1	<1	3
	LH13	08/20/2001	37	0.17	<3	0.284	<0.01	<0.05	0.05	<1	<1	3
	LH14	08/20/2001	61	<0.1	4	0.523	<0.01	0.07	0.22	<1	2	2
	LH15	08/20/2001	12	0.22	<3	0.257	<0.01	<0.05	<0.05	<1	<1	2
	LH16	08/20/2001	32	0.11	<3	0.68	<0.01	0.09	0.27	<1	1	4
	LH17	08/20/2001	12	<0.1	<3	0.274	<0.01	<0.05	0.07	<1	<1	2
14	LH1	08/29/2001	8	<0.1	<2	0.093	<0.01	<0.05	0.07	<1	<5	<5
	LH2	08/29/2001	8	<0.1	<2	0.117	<0.01	<0.05	0.09	<1	<5	<5
	LH3	08/29/2001	10	<0.1	<2	0.15	<0.01	<0.05	0.13	<1	<5	<5
	LH4	08/29/2001	4	<0.1	<2	0.091	<0.01	<0.05	0.07	<1	<5	<5
	LH5	08/29/2001	<1	<0.1	<2	0.182	<0.01	<0.05	0.05	<1	<5	<5
	LH6	08/29/2001	<1	<0.1	<2	0.505	<0.01	<0.05	0.07	<1	<5	<5
	LH7	08/29/2001	<1	<0.1	<2	0.311	<0.01	<0.05	0.07	<1	<5	<5
	LH8	08/29/2001	6	<0.1	<2	0.169	<0.01	<0.05	0.07	<1	<5	<5
	LH9	08/29/2001	50	<0.1	<2	0.469	<0.01	0.13	0.4	<1	6	<5
	LH10	08/29/2001	16	<0.1	<2	0.144	<0.01	<0.05	0.07	<1	<5	<5
	LH11	08/29/2001	44	0.4	<2	0.337	<0.01	0.33	1.02	<1	5	<5
	LH12	08/29/2001	16	<0.1	<2	0.571	<0.01	<0.05	0.08	<1	<5	<5
	LH13	08/29/2001	50	<0.1	<2	0.393	<0.01	<0.05	0.11	<1	6	<5
	LH14	08/29/2001	86	<0.1	<2	0.761	<0.01	0.12	0.36	<1	6	<5
	LH15	08/29/2001	20	0.18	<2	0.25	<0.01	<0.05	0.07	<1	<5	<5
	LH16	08/29/2001	70	<0.1	<2	1.491	<0.01	0.16	0.48	<1	7	<5
	LH17	08/29/2001	20	<0.1	<2	0.219	<0.01	<0.05	0.06	<1	<5	<5

Table 3-2. (Continued)												
TRIP	STATION	DATE	ALKALINITY	NH3-N	BOD-5	NITRATE	NITRITE	P, diss	PO4, diss	SIO2-diss	TIC	TOC
15	LH1	09/04/2001	8	<0.1	<2	0.128	<0.01	<0.05	0.09	<1	<5	<5
	LH2	09/04/2001	10	<0.1	<2	0.088	<0.01	<0.05	0.08	<1	<5	<5
	LH3	09/04/2001	12	<0.1	<2	0.139	<0.01	0.05	0.15	<1	<5	<5
	LH4	09/04/2001	4	<0.1	<2	0.11	<0.01	<0.05	0.08	<1	<5	<5
	LH5	09/04/2001	<1	<0.1	<2	0.163	<0.01	<0.05	0.06	<1	<5	<5
	LH6	09/04/2001	<1	<0.1	<2	0.528	<0.01	<0.05	0.07	<1	<5	<5
	LH7	09/04/2001	<1	<0.1	<2	0.292	<0.01	<0.05	0.07	<1	<5	<5
	LH8	09/04/2001	6	<0.1	<2	0.101	<0.01	<0.05	0.08	<1	<5	<5
	LH9	09/04/2001	42	0.1	<2	0.81	<0.01	0.12	0.37	<1	5.5	<5
	LH10	09/04/2001	8	0.26	<2	0.084	<0.01	<0.05	0.07	<1	<5	<5
	LH11	09/04/2001	30	1.62	7	1.651	0.345	0.38	1.17	<1	6.8	<5
	LH12	09/04/2001	12	<0.1	<2	0.485	<0.01	<0.05	0.08	<1	<5	<5
	LH13	09/04/2001	42	<0.1	<2	0.242	<0.01	<0.05	0.12	<1	5.3	<5
	LH14	09/04/2001	62	<0.1	<2	0.77	<0.01	0.12	0.37	<1	8.7	<5
	LH15	09/04/2001	18	<0.1	<2	0.193	<0.01	<0.05	0.08	<1	<5	<5
	LH16	09/04/2001	38	<0.1	<2	0.592	<0.01	0.16	0.5	<1	<5	<5
	LH17	09/04/2001	18	<0.1	<2	0.212	<0.01	<0.05	0.07	<1	<5	<5
16	LH1	09/12/2001	8	<0.1	<2	0.3	<0.005	<0.05	0.13	4	<5	<5
	LH2	09/12/2001	10	<0.1	<2	0.3	<0.005	0.35	1.09	<1	<5	<5
	LH3	09/12/2001	12	<0.1	<2	0.2	0.006	0.09	0.27	3	6	<5
	LH4	09/12/2001	10	<0.1	<2	0.2	<0.005	0.06	0.18	4	<5	<5
	LH5	09/12/2001	10	<0.1	<2	0.8	<0.005	<0.05	0.05	6	<5	<5
	LH6	09/12/2001	12	<0.1	<2	0.3	<0.005	<0.05	0.07	10	<5	<5
	LH7	09/12/2001	10	<0.1	<2	0.3	<0.005	0.64	1.96	8	<5	<5
	LH8	09/12/2001	8	<0.1	4	0.2	<0.005	<0.05	<0.05	3	<5	<5
	LH9	09/12/2001	42	<0.1	10	0.3	<0.005	0.09	0.27	15	<5	<5
	LH10	09/12/2001	24	<0.1	10	0.2	<0.005	<0.05	0.08	5	<5	<5
	LH11	09/12/2001	32	0.6	13	2.1	0.108	<0.05	0.1	6	<5	<5
	LH12	09/12/2001	22	<0.1	9	0.4	<0.005	<0.05	0.06	2	<5	<5
	LH13	09/12/2001	46	<0.1	9	0.3	<0.005	<0.05	0.06	2	<5	<5
	LH14	09/12/2001	72	<0.1	11	0.5	0.041	<0.05	0.08	5	<5	<5
	LH15	09/12/2001	20	<0.1	9	0.3	<0.005	<0.05	0.08	3	<5	<5
	LH16	09/12/2001	46	<0.1	8	0.6	<0.005	<0.05	0.09	6	<5	<5
	LH17	09/13/2001	18	<0.1	11	0.3	0.006	<0.05	0.05	3	<5	<5

Table 3-2. (Continued)												
TRIP	STATION	DATE	ALKALINITY	NH3-N	BOD-5	NITRATE	NITRITE	P, diss	PO4, diss	SIO2-diss	TIC	TOC
17	LH1	09/17/2001	8	<0.1	<2	0.046	<0.01	0.06	<0.05	3	<5	<5
	LH2	09/17/2001	12	<0.1	<2	0.075	<0.01	0.05	<0.05	3	<5	<5
	LH3	09/17/2001	8	<0.1	<2	0.059	<0.01	<0.05	0.08	2	<5	<5
	LH4	09/17/2001	6	<0.1	<2	0.05	<0.01	0.07	<0.05	5	<5	<5
	LH5	09/17/2001	2	<0.1	<2	0.198	<0.01	0.07	<0.05	8	<5	<5
	LH6	09/17/2001	2	<0.1	<2	0.308	<0.01	<0.05	0.05	9	<5	<5
	LH7	09/17/2001	2	<0.1	<2	0.165	<0.01	0.07	<0.05	9	<5	<5
	LH8	09/17/2001	4	<0.1	<2	0.132	<0.01	<0.05	0.16	4	<5	<5
	LH9	09/17/2001	36	<0.1	<2	0.361	<0.01	0.37	0.12	13	7	<5
	LH10	09/17/2001	12	<0.1	<2	0.09	<0.01	<0.05	0.07	5	<5	<5
	LH11	09/17/2001	26	0.4	7	1.583	0.058	1.69	0.55	8	<5	5
	LH12	09/17/2001	16	<0.1	<2	0.23	<0.01	0.06	<0.05	5	<5	<5
	LH13	09/17/2001	52	<0.1	<2	0.184	<0.01	0.07	<0.05	3	<5	<5
	LH14	09/17/2001	56	0.1	<2	0.409	<0.01	0.05	0.16	6	7	<5
	LH15	09/17/2001	36	<0.1	3	0.147	<0.01	0.07	<0.05	4	<5	<5
	LH16	09/17/2001	32	<0.1	<2	0.302	<0.01	0.06	0.18	4	6	<5
	LH17	09/17/2001	14	<0.1	<2	0.123	<0.01	0.07	<0.05	4	<5	<5
18	LH1	09/24/2001	12	<0.1	2	0.06	<0.01	<0.05	0.06	<1	<5	<5
	LH2	09/24/2001	8	<0.1	2	0.063	<0.01	<0.05	0.05	1	<5	<5
	LH3	09/24/2001	12	<0.1	2	0.101	<0.01	<0.05	<0.05	1	<5	<5
	LH4	09/24/2001	6	<0.1	<1	0.075	<0.01	<0.05	<0.05	4	<5	<5
	LH5	09/24/2001	2	<0.1	<1	0.237	<0.01	<0.05	<0.05	6	<5	<5
	LH6	09/24/2001	2	<0.1	<1	0.571	<0.01	<0.05	0.05	7	<5	<5
	LH7	09/24/2001	2	<0.1	<1	0.337	<0.01	<0.05	0.05	7	<5	<5
	LH8	09/24/2001	8	<0.1	<1	0.086	<0.01	<0.05	0.05	3	<5	<5
	LH9	09/24/2001	32	0.1	<1	0.676	<0.01	0.1	0.31	7	<5	<5
	LH10	09/24/2001	10	<0.1	5	0.157	<0.01	<0.05	0.05	3	<5	<5
	LH11	09/24/2001	40	0.7	8	1.796	0.155	0.54	0.17	5	6	<5
	LH12	09/24/2001	12	<0.1	<1	0.499	<0.01	<0.05	0.05	11	<5	<5
	LH13	09/24/2001	38	0.1	3	0.436	<0.01	<0.05	0.05	4	<5	<5
	LH14	09/24/2001	40	0.2	1	1.129	<0.01	0.06	<0.05	5	<5	<5
	LH15	09/24/2001	18	0.1	<1	0.375	<0.01	<0.05	0.07	4	<5	<5
	LH16	09/24/2001	42	0.1	5	0.86	<0.01	0.06	0.18	6	<5	<5
	LH17	09/24/2001	22	0.1	2	0.436	<0.01	<0.05	0.05	3	<5	<5

Table 3-2. (Continued)												
TRIP	STATION	DATE	ALKALINITY	NH3-N	BOD-5	NITRATE	NITRITE	P, diss	PO4, diss	SIO2-diss	TIC	TOC
19	LH1	10/02/2001	8	<0.1	<2	<0.01	<0.01	<0.05	0.07	<1	<5	<5
	LH2	10/02/2001	18	<0.1	<2	0.039	<0.01	<0.05	0.06	<1	<5	<5
	LH3	10/02/2001	8	<0.1	<2	0.07	<0.01	<0.05	<0.05	<1	<5	<5
	LH4	10/02/2001	4	<0.1	<2	0.052	<0.01	<0.05	0.05	3	<5	<5
	LH5	10/02/2001	<1	<0.1	<2	0.144	<0.01	<0.05	0.06	5	<5	<5
	LH6	10/02/2001	2	<0.1	<2	0.61	<0.01	<0.05	0.05	6	<5	<5
	LH7	10/02/2001	2	<0.1	<2	0.326	<0.01	<0.05	0.07	6	<5	<5
	LH8	10/02/2001	4	<0.1	<2	0.118	<0.01	<0.05	<0.05	2	<5	<5
	LH9	10/02/2001	26	<0.1	4	0.668	<0.01	0.11	0.34	6	<5	<5
	LH10	10/02/2001	4	<0.1	<2	0.149	<0.01	<0.05	0.09	3	<5	<5
	LH11	10/02/2001	34	0.5	3	1.518	<0.01	0.56	1.71	4	<5	<5
	LH12	10/02/2001	12	<0.1	<2	0.516	<0.01	<0.05	0.07	9	<5	<5
	LH13	10/02/2001	26	<0.1	3	0.948	<0.01	<0.05	0.06	3	<5	<5
	LH14	10/02/2001	36	<0.1	<2	1.384	<0.01	<0.05	0.08	5	<5	<5
	LH15	10/02/2001	18	<0.1	4	0.471	<0.01	<0.05	0.08	5	<5	<5
	LH16	10/02/2001	30	<0.1	<2	0.871	<0.01	0.08	0.24	5	<5	<5
	LH17	10/02/2001	14	<0.1	4	0.567	<0.01	<0.05	0.08	3	<5	<5
20	LH1	10/09/2001	14	<0.1	<2	<0.01	<0.01	<0.05	0.05	<1	<5	<5
	LH2	10/09/2001	10	<0.1	<2	<0.01	<0.01	<0.05	0.07	1	<5	5
	LH3	10/09/2001	16	<0.1	<2	0.079	<0.01	<0.05	0.07	<1	<5	<5
	LH4	10/09/2001	6	<0.1	<2	<0.01	<0.01	<0.05	0.07	3	<5	<5
	LH5	10/09/2001	2	<0.1	<2	0.116	<0.01	<0.05	0.07	5	<5	<5
	LH6	10/09/2001	2	<0.1	<2	0.568	<0.01	<0.05	0.05	6	<5	<5
	LH7	10/09/2001	2	<0.1	<2	0.265	<0.01	<0.05	0.06	6	<5	<5
	LH8	10/09/2001	4	<0.1	<2	0.142	<0.01	<0.05	0.07	2	<5	<5
	LH9	10/09/2001	50	0.1	<2	0.927	<0.01	0.1	0.32	5	9	<5
	LH10	10/09/2001	6	<0.1	<2	0.16	<0.01	<0.05	0.08	4	<5	<5
	LH11	10/09/2001	46	0.7	<2	1.581	<0.01	0.32	0.99	3	8	<5
	LH12	10/09/2001	14	<0.1	<2	0.461	<0.01	<0.05	0.07	5	<5	<5
	LH13	10/09/2001	32	<0.1	<2	0.634	<0.01	<0.05	0.07	4	8	<5
	LH14	10/09/2001	44	0.1	<2	1.155	<0.01	0.7	0.23	3	10	<5
	LH15	10/09/2001	36	0.1	<2	0.434	<0.01	<0.05	0.7	3	5	<5
	LH16	10/09/2001	38	0.1	<2	0.909	<0.01	0.1	0.3	5	9	<5
	LH17	10/09/2001	18	0.3	<2	0.452	<0.01	<0.05	0.07	4	<5	<5

Table 3-2. (Continued)												
TRIP	STATION	DATE	ALKALINITY	NH3-N	BOD-5	NITRATE	NITRITE	P, diss	PO4, diss	SIO2-diss	TIC	TOC
21	LH1	10/18/2001	8	0.4	<2	0.066	<0.01	<0.05	0.07	1	<5	5
	LH2	10/18/2001	12	0.4	<2	0.023	<0.01	<0.05	0.08	1	<5	<5
	LH3	10/18/2001	10	0.4	<2	0.043	<0.01	<0.05	0.07	<1	<5	<5
	LH4	10/18/2001	8	0.3	<2	0.052	<0.01	0.05	0.15	3	<5	<5
	LH5	10/18/2001	2	0.3	<2	0.109	<0.01	<0.05	<0.05	6	<5	<5
	LH6	10/18/2001	4	0.3	<2	0.394	<0.01	<0.05	0.08	6	<5	<5
	LH7	10/18/2001	4	0.4	<2	0.18	<0.01	<0.05	0.08	6	<5	<5
	LH8	10/18/2001	10	0.6	<2	0.054	<0.01	<0.05	0.07	3	<5	<5
	LH9	10/18/2001	36	0.9	<2	0.424	<0.01	0.1	0.31	6	<5	<5
	LH10	10/18/2001	10	0.8	<2	0.071	<0.01	<0.05	0.07	5	<5	<5
	LH11	10/18/2001	10	1	8	0.92	<0.01	0.35	1.06	4	<5	5
	LH12	10/18/2001	14	0.6	<2	0.444	<0.01	<0.05	0.07	5	<5	<5
	LH13	10/18/2001	34	0.3	<2	0.391	<0.01	0.09	0.27	5	<5	<5
	LH14	10/18/2001	48	0.7	2	0.752	<0.01	<0.05	0.07	3	5	<5
	LH15	10/18/2001	16	0.4	<2	0.23	<0.01	<0.05	0.08	3	<5	<5
	LH16	10/18/2001	38	0.7	<2	0.353	<0.01	0.11	0.32	6	<5	<5
	LH17	10/18/2001	20	1.1	<2	0.239	<0.01	<0.05	0.07	5	<5	<5
22	LH1	10/23/2001	8	<0.1	<2	0.049	<0.01	<0.05	0.07	1	<5	6
	LH2	10/23/2001	10	<0.1	<2	0.028	<0.01	<0.05	0.05	1	<5	6
	LH3	10/23/2001	8	<0.1	<2	0.049	<0.01	<0.05	0.06	1	<5	5
	LH4	10/23/2001	6	<0.1	<2	0.044	<0.01	<0.05	0.06	3	<5	<5
	LH5	10/23/2001	2	<0.1	<2	0.147	<0.01	<0.05	0.07	6	<5	<5
	LH6	10/23/2001	2	<0.1	<2	0.505	<0.01	<0.05	0.06	6	<5	<5
	LH7	10/23/2001	2	<0.1	<2	0.256	<0.01	<0.05	0.07	7	<5	<5
	LH8	10/23/2001	4	<0.1	<2	0.083	<0.01	<0.05	0.07	3	<5	<5
	LH9	10/23/2001	32	<0.1	<2	0.655	<0.01	0.09	0.29	6	6	<5
	LH10	10/23/2001	10	0.1	<2	0.116	<0.01	<0.05	0.07	5	<5	<5
	LH11	10/23/2001	34	1.1	<2	0.868	0.095	0.35	1.08	4	5	6
	LH12	10/23/2001	12	<0.1	<2	0.365	<0.01	<0.05	0.07	5	<5	<5
	LH13	10/23/2001	34	<0.1	3	0.486	<0.01	0.09	0.27	4	5	<5
	LH14	10/23/2001	50	<0.1	<2	0.856	0.069	<0.05	0.07	3	8	<5
	LH15	10/23/2001	20	<0.1	<2	0.26	<0.01	<0.05	0.07	3	<5	<5
	LH16	10/23/2001	38	<0.1	<2	0.515	<0.01	0.1	0.31	6	<5	<5
	LH17	10/23/2001	18	<0.1	<2	0.279	<0.01	<0.05	0.06	5	<5	<5

Table 3-2. (Continued)												
TRIP	STATION	DATE	ALKALINITY	NH3-N	BOD-5	NITRATE	NITRITE	P, diss	PO4, diss	SIO2-diss	TIC	TOC
23	LH1	10/29/2001	8	0.1	<2	0.078	<0.01	<0.05	0.09	<1	<5	<5
	LH2	10/29/2001	8	0.1	10	0.039	<0.01	<0.05	0.09	<1	<5	<5
	LH3	10/29/2001	10	0.1	<2	0.046	<0.01	<0.05	0.09	<1	<5	<5
	LH4	10/29/2001	4	0.1	<2	0.063	<0.01	<0.05	0.08	3	<5	<5
	LH5	10/29/2001	2	0.1	<2	0.147	<0.01	<0.05	0.09	6	<5	<5
	LH6	10/29/2001	2	0.1	<2	0.536	<0.01	<0.05	0.09	6	<5	<5
	LH7	10/29/2001	2	0.2	<2	0.248	<0.01	<0.05	0.1	6	<5	<5
	LH8	10/29/2001	8	0.2	<2	0.091	<0.01	<0.05	0.1	3	<5	<5
	LH9	10/29/2001	30	0.3	<2	0.979	<0.01	0.08	0.25	6	7	<5
	LH10	10/29/2001	14	0.2	<2	0.128	<0.01	<0.05	0.11	5	<5	<5
	LH11	10/29/2001	32	0.4	4	1.824	0.118	0.55	1.67	4	6	8
	LH12	10/29/2001	12	0.2	<2	0.332	<0.01	<0.05	0.09	5	<5	<5
	LH13	10/29/2001	38	0.3	<2	0.399	<0.01	0.08	0.24	4	7	<5
	LH14	10/29/2001	54	0.4	<2	0.735	0.096	<0.05	0.09	3	9	<5
	LH15	10/29/2001	16	0.1	<2	0.294	<0.01	<0.05	0.11	4	<5	<5
	LH16	10/29/2001	48	0.1	<2	0.498	<0.01	0.12	0.37	6	9	6
	LH17	10/29/2001	18	0.3	<2	0.26	<0.01	0.06	0.17	5	<5	<5
24	LH1	11/05/2001	16	<0.1	<2	0.091	<0.01	<0.05	0.09	1	<5	<5
	LH2	11/05/2001	12	<0.1	<2	0.011	<0.01	<0.05	0.08	1	<5	<5
	LH3	11/05/2001	14	<0.1	<2	0.13	<0.01	<0.05	0.08	1	<5	<5
	LH4	11/05/2001	8	<0.1	<2	0.081	0.098	<0.05	0.09	3	<5	<5
	LH5	11/05/2001	2	<0.1	<2	0.208	<0.01	<0.05	0.09	3	<5	<5
	LH6	11/05/2001	6	<0.1	<2	0.586	<0.01	<0.05	0.09	6	<5	<5
	LH7	11/05/2001	2	<0.1	<2	0.283	0.027	<0.05	0.1	6	<5	<5
	LH8	11/05/2001	8	<0.1	<2	0.146	<0.01	<0.05	0.12	3	<5	<5
	LH9	11/05/2001	48	<0.1	<2	0.912	0.042	0.08	0.25	7	9	<5
	LH10	11/05/2001	10	<0.1	<2	0.192	<0.01	<0.05	0.09	5	<5	<5
	LH11	11/05/2001	48	1.1	9	1.511	0.092	0.55	1.68	4	10	<5
	LH12	11/05/2001	18	<0.1	<2	0.405	0.046	<0.05	0.08	5	<5	<5
	LH13	11/05/2001	54	<0.1	<2	0.522	<0.01	0.08	0.25	4	10	<5
	LH14	11/05/2001	24	<0.1	<2	0.795	0.079	<0.05	0.06	4	11	<5
	LH15	11/05/2001	24	<0.1	<2	0.652	<0.01	<0.05	0.1	4	6	<5
	LH16	11/05/2001	60	<0.1	<2	0.375	<0.01	0.13	0.4	5	12	<5
	LH17	11/05/2001	28	0.1	<2	0.3	<0.01	0.05	0.17	4	5	<5

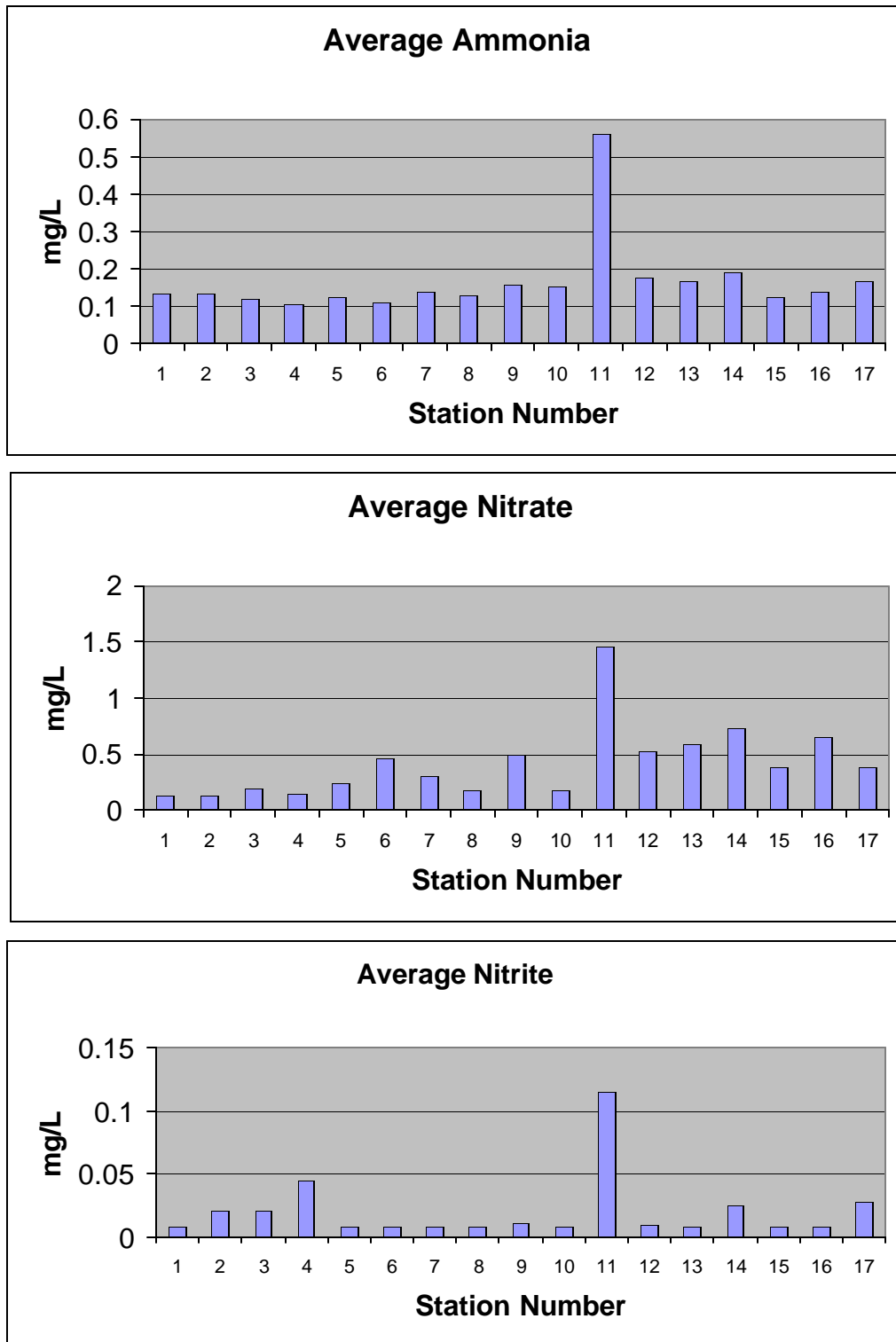


Figure 3-21. Average nitrate, nitrite, and ammonia concentrations observed at stations LH1 to LH17 during the Lehigh River water quality monitoring study conducted between May and November 2001.

Table 3-3. PADEP chronic ammonia criteria for specific temperatures and pH levels												
Temperature C	pH	6.00	6.20	6.40	6.60	6.80	7.00	7.20	7.40	7.60	7.80	8.00
0.00		7.41	6.58	5.84	5.18	4.60	4.08	3.62	3.22	2.87	2.15	1.37
2.00		7.41	6.58	5.84	5.18	4.60	4.08	3.62	3.22	2.87	2.15	1.37
4.00		7.41	6.58	5.84	5.18	4.60	4.08	3.62	3.22	2.87	2.15	1.37
6.00		7.41	6.58	5.84	5.18	4.60	4.08	3.62	3.22	2.87	2.15	1.37
8.00		7.41	6.58	5.84	5.18	4.60	4.08	3.62	3.22	2.87	2.15	1.37
9.90		7.41	6.58	5.84	5.18	4.60	4.08	3.62	3.22	2.87	2.15	1.37
10.00		7.41	6.58	5.83	5.18	4.59	4.08	8.49	5.37	3.40	2.15	1.37
12.00		6.34	5.63	4.99	4.43	3.93	3.49	7.27	4.60	2.91	1.85	1.17
14.00		5.44	4.83	4.28	3.80	3.37	3.00	6.24	3.95	2.50	1.59	1.01
16.00		4.68	4.15	3.68	3.27	2.90	2.58	5.37	3.40	2.15	1.37	0.87
18.00		4.03	3.57	3.17	2.82	2.50	2.22	4.63	2.93	1.86	1.18	0.75
20.00		3.48	3.09	2.74	2.43	2.16	1.92	4.00	2.53	1.61	1.02	0.65
22.00		3.01	2.67	2.37	2.10	1.87	1.66	3.46	2.19	1.39	0.89	0.57
24.00		2.61	2.31	2.05	1.82	1.62	1.44	3.00	1.90	1.21	0.77	0.50
26.00		2.26	2.01	1.78	1.58	1.41	1.25	2.61	1.66	1.05	0.67	0.43
28.00		1.97	1.75	1.55	1.38	1.22	1.09	2.27	1.44	0.92	0.59	0.38

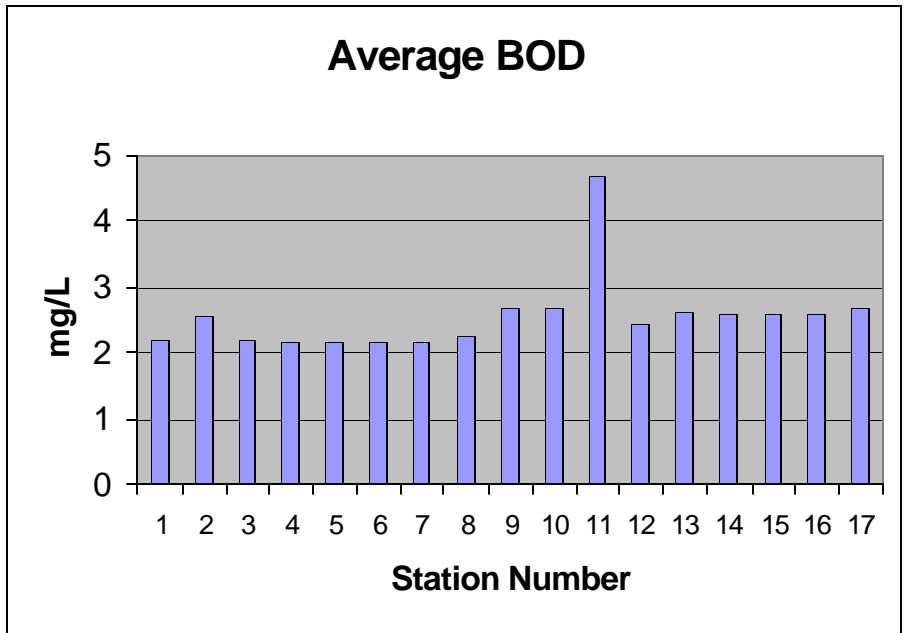
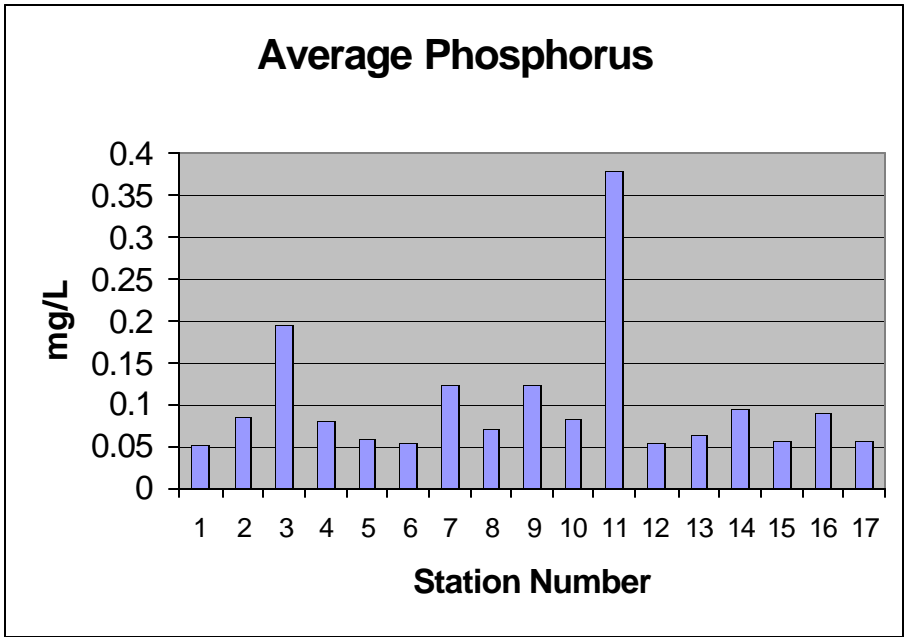


Figure 3-22. Average phosphorus concentrations and BOD levels observed at stations LH1 to LH17 during the Lehigh River water quality monitoring study conducted between May and November 2001.

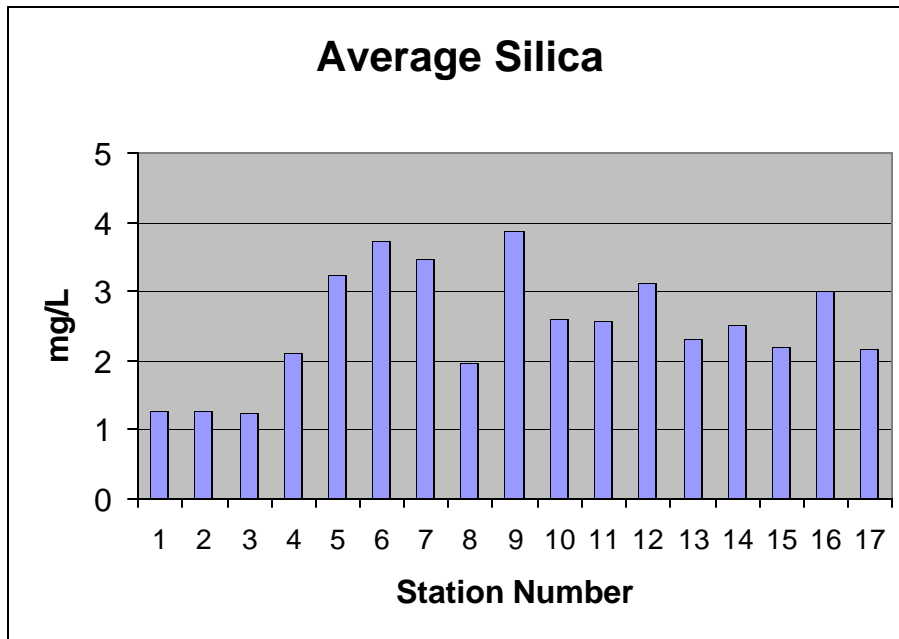
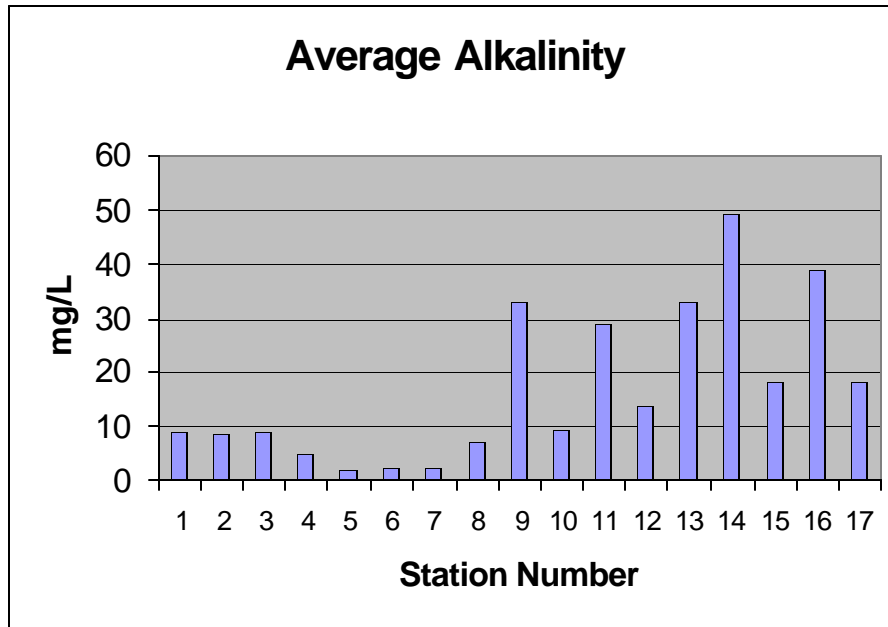


Figure 3-23. Average alkalinity and silica concentrations observed at stations LH1 to LH17 during the Lehigh River water quality monitoring study conducted between May and November 2001.

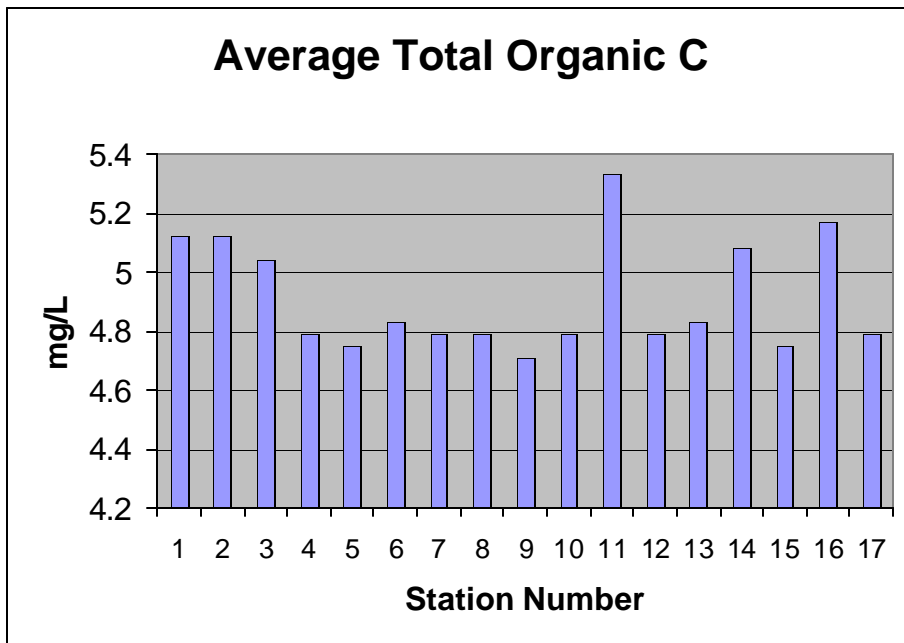
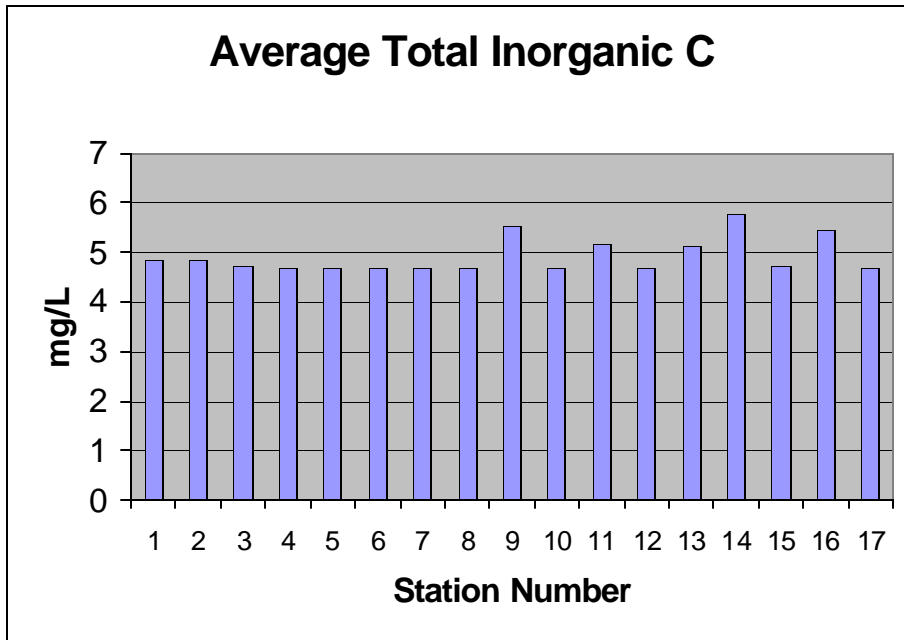


Figure 3-24. Average inorganic and organic carbon concentrations observed at stations LH1 to LH17 during the Lehigh River water quality monitoring study conducted between May and November 2001.

3.6 CHLOROPHYLL CONCENTRATIONS

Table 3-4 summarizes the chlorophyll concentrations observed in weekly grab sampling at all 17 stations during the 24-week monitoring period. The data indicate that chlorophyll levels were relatively low throughout the study period averaging only about 1.5 µg/L. No seasonal increasing or decreasing trends are indicated in the data as very few differences were observed in weekly mean concentration among the seventeen mainstem and tributary stations (Table 3-4). In addition, no one particular station showed consistently higher levels despite the fact that some stations showed higher nutrient loadings (e.g., LH11 downstream of Lehighton sewage treatment plant outfall). The lack of seasonal trends in the chlorophyll data may be a function of the riverine nature of the Lehigh, where residence time may be too short for any significant build up of phytoplankton biomass in the water column (attached algal biomass was not measured). The low chlorophyll concentrations measured in the water samples were similar to those monitored by the YSI units (deployed at LH1, LH2, and LH10), however probe fouling and other optical obstructions resulted in occasional high readings that are likely spurious. These high ranging values should be eliminated from the YSI dataset (see the electronic appendix), if the data are to be used in future modeling efforts.

3.7 METALS CONCENTRATIONS

Whole water samples were collected at a subset of mainstem and tributary stations in May, June, August, and September 2001. Samples were analyzed for five total metals including aluminum, cadmium, iron, manganese, and zinc. Both total and dissolved metals were analyzed in the June sampling. These data are presented in Tables 3-5 and 3-6 and are compared to DRBC, PADEP, New Jersey Department of Environmental Protection, and U.S EPA chronic freshwater criteria to evaluate potential toxic conditions in the system using the DRBC recommended hardness of 74 mg/L (a conservative approach for hardness based criteria since our observed hardness was lower). Samples collected in May and June 2001 resulted in aluminum concentrations above DRBC's chronic criteria of 0.087 mg/L (Table 3-5). Aluminum concentrations were generally lower in the August and September samples and fewer values were over the DRBC chronic criteria. Cadmium was not detected in any of the samples at 0.005 mg/L detection limit, however DRBC chronic criteria for cadmium are 0.001 mg/L which is below the detection levels achieved during the study (Table 3-5). Observed concentrations of iron were all below PADEP water quality criteria for CWF and TSF (1.5 mg/L). As observed for aluminum, iron concentrations were higher throughout the study area in May and June when concentrations averaged 0.3 mg/L relative to August and September where concentrations dropped to about 0.05 mg/L. In addition, many of the August samples had no detectable levels of total iron at a method detection limit of 0.005 mg/L. Only one sample collected in August 2001 at station LH6 (Buck Mountain) resulted in a manganese concentration over PADEP water quality criteria of 1.0 mg/L. Manganese concentrations were generally higher (averaging 0.19 mg/L) in May, June, and August collections relative to the September samples where concentrations among the stations averaged only 0.05 mg/L (Table 3-5). Total zinc concentrations showed no increasing or decreasing pattern among the sampling months, averaging about 0.05 mg/L throughout the study period among all stations. A total of seven

Table 3-4. Summary of chlorophyll concentrations observed each week at 17 stations in the Lehigh River watershed between May and November 2001

TRIP	STATION	DATE	Chl a Avg (µg/L)	TRIP	STATION	DATE	Chl a Avg (µg/L)	TRIP	STATION	DATE	Chl a Avg (µg/L)
1	LH1	05/31/2001	3.2	2	LH1	06/05/2001	4.0	3	LH1	06/13/2001	1.1
	LH2	05/30/2001	2.7		LH2	06/06/2001	2.2		LH2	06/13/2001	1.0
	LH3	05/30/2001	2.0		LH3	06/06/2001	3.5		LH3	06/13/2001	0.7
	LH4	05/30/2001	0.3		LH4	06/06/2001	0.6		LH4	06/13/2001	0.2
	LH5	05/30/2001	0.6		LH5	06/05/2001	0.9		LH5	06/13/2001	1.3
	LH6	05/30/2001	0.3		LH6	06/05/2001	0.4		LH6	06/13/2001	0.2
	LH7	05/30/2001	1.5		LH7	06/05/2001	1.0		LH7	06/13/2001	3.5
	LH8	05/30/2001	1.4		LH8	06/05/2001	2.0		LH8	06/13/2001	0.8
	LH9	05/31/2001	0.8		LH9	06/05/2001	0.8		LH9	06/14/2001	0.7
	LH10	05/30/2001	1.8		LH10	06/05/2001	2.8		LH10	06/14/2001	1.0
	LH11	05/30/2001	0.9		LH11	06/05/2001	1.1		LH11	06/14/2001	1.8
	LH12	05/30/2001	1.3		LH12	06/05/2001	1.7		LH12	06/14/2001	2.1
	LH13	05/30/2001	0.6		LH13	06/05/2001	0.6		LH13	06/14/2001	1.1
	LH14	05/30/2001	0.3		LH14	06/05/2001	0.9		LH14	06/15/2001	2.2
	LH15	05/30/2001	2.7		LH15	06/05/2001	1.5		LH15	06/15/2001	2.1
	LH16	05/31/2001	1.9		LH16	06/05/2001	5.0		LH16	06/15/2001	8.5
	LH17	05/31/2001	2.7		LH17	06/05/2001	3.4		LH17	06/15/2001	1.8
	Ave.		1.5		Ave.		1.9		Ave.		1.8
4	LH1	06/21/2001	1.0	5	LH1	06/26/2001	1.3	6	LH1	07/02/2001	1.2
	LH2	06/21/2001	0.9		LH2	06/26/2001	1.2		LH2	07/02/2001	1.5
	LH3	06/21/2001	1.3		LH3	06/25/2001	0.6		LH3	07/02/2001	0.6
	LH4	06/21/2001	0.3		LH4	06/25/2001	0.2		LH4	07/02/2001	0.6
	LH5	06/20/2001	1.8		LH5	06/25/2001	1.0		LH5	07/02/2001	0.5
	LH6	06/20/2001	0.5		LH6	06/25/2001	0.3		LH6	07/02/2001	0.3
	LH7	06/20/2001	0.5		LH7	06/25/2001	0.6		LH7	07/02/2001	0.9
	LH8	06/20/2001	0.9		LH8	06/25/2001	0.8		LH8	07/02/2001	0.8
	LH9	06/20/2001	0.6		LH9	06/25/2001	0.4		LH9	07/02/2001	0.4
	LH10	06/20/2001	0.9		LH10	06/25/2001	0.9		LH10	07/02/2001	0.5
	LH11	06/20/2001	1.0		LH11	06/25/2001	0.6		LH11	07/02/2001	1.0
	LH12	06/20/2001	2.6		LH12	06/25/2001	1.5		LH12	07/02/2001	1.1
	LH13	06/20/2001	0.7		LH13	06/25/2001	0.7		LH13	07/02/2001	1.7
	LH14	06/20/2001	1.6		LH14	06/25/2001	1.9		LH14	07/02/2001	2.4
	LH15	06/20/2001	1.8		LH15	06/25/2001	1.1		LH15	07/02/2001	2.0
	LH16	06/20/2001	3.8		LH16	06/25/2001	0.8		LH16	07/02/2001	3.1
	LH17	06/20/2001	3.0		LH17	06/25/2001	1.0		LH17	07/02/2001	0.9
	Ave.		1.4		Ave.		0.9		Ave.		1.1

Table 3-4. (Continued)											
TRIP	STATION	DATE	Chl a Avg (µg/L)	TRIP	STATION	DATE	Chl a Avg (µg/L)	TRIP	STATION	DATE	Chl a Avg (µg/L)
7	LH1	07/10/2001	1.3	8	LH1	07/16/2001	0.6	9	LH1	07/24/2001	1.9
	LH2	07/10/2001	1.2		LH2	07/16/2001	1.5		LH2	07/25/2001	1.2
	LH3	07/10/2001	0.3		LH3	07/16/2001	0.5		LH3	07/24/2001	0.6
	LH4	07/10/2001	0.6		LH4	07/16/2001	0.2		LH4	07/24/2001	0.2
	LH5	07/10/2001	1.1		LH5	07/16/2001	0.4		LH5	07/24/2001	0.2
	LH6	07/10/2001	0.3		LH6	07/16/2001	0.0		LH6	07/24/2001	0.2
	LH7	07/10/2001	1.0		LH7	07/16/2001	0.8		LH7	07/24/2001	0.5
	LH8	07/10/2001	0.6		LH8	07/16/2001	0.6		LH8	07/24/2001	0.8
	LH9	07/10/2001	1.7		LH9	07/16/2001	0.3		LH9	07/24/2001	0.2
	LH10	07/10/2001	1.1		LH10	07/16/2001	0.9		LH10	07/24/2001	1.1
	LH11	07/10/2001	1.1		LH11	07/16/2001	1.1		LH11	07/24/2001	1.4
	LH12	07/10/2001	1.1		LH12	07/16/2001	0.7		LH12	07/24/2001	0.7
	LH13	07/10/2001	0.7		LH13	07/16/2001	0.3		LH13	07/24/2001	0.4
	LH14	07/10/2001	2.5		LH14	07/16/2001	3.0		LH14	07/24/2001	8.4
	LH15	07/10/2001	3.0		LH15	07/16/2001	1.0		LH15	07/24/2001	2.1
	LH16	07/10/2001	3.2		LH16	07/16/2001	1.9		LH16	07/24/2001	2.4
	LH17	07/10/2001	1.1		LH17	07/16/2001	0.8		LH17	07/24/2001	1.7
	Ave.		1.3		Ave.		0.9		Ave.		1.4
10	LH1	07/31/2001	0.4	11	LH1	08/06/2001	0.9	12	LH1	08/16/2001	0.6
	LH2	08/01/2001	0.9		LH2	08/06/2001	0.9		LH2	08/16/2001	1.6
	LH3	07/31/2001	0.4		LH3	08/06/2001	0.4		LH3	08/16/2001	0.6
	LH4	07/31/2001	0.1		LH4	08/06/2001	0.3		LH4	08/16/2001	0.1
	LH5	07/31/2001	0.1		LH5	08/06/2001	0.3		LH5	08/16/2001	0.3
	LH6	07/31/2001	0.0		LH6	08/06/2001	0.3		LH6	08/16/2001	0.1
	LH7	07/31/2001	0.7		LH7	08/06/2001	1.2		LH7	08/16/2001	0.2
	LH8	07/31/2001	0.7		LH8	08/06/2001	1.0		LH8	08/16/2001	0.2
	LH9	07/31/2001	0.2		LH9	08/06/2001	0.5		LH9	08/16/2001	0.3
	LH10	07/31/2001	0.7		LH10	08/06/2001	1.3		LH10	08/16/2001	0.4
	LH11	07/31/2001	1.1		LH11	08/06/2001	1.2		LH11	08/16/2001	0.8
	LH12	07/31/2001	0.5		LH12	08/06/2001	1.6		LH12	08/16/2001	0.5
	LH13	07/31/2001	0.6		LH13	08/06/2001	0.9		LH13	08/16/2001	0.8
	LH14	07/31/2001	6.0		LH14	08/06/2001	3.8		LH14	08/16/2001	2.8
	LH15	07/31/2001	1.9		LH15	08/06/2001	2.2		LH15	08/16/2001	1.1
	LH16	07/31/2001	1.6		LH16	08/06/2001	3.9		LH16	08/16/2001	3.7
	LH17	07/31/2001	1.5		LH17	08/06/2001	1.7		LH17	08/16/2001	1.0
	Ave.		1.0		Ave.		1.3		Ave.		0.9

Table 3-4. (Continued)											
TRIP	STATION	DATE	Chl a Avg (µg/L)	TRIP	STATION	DATE	Chl a Avg (µg/L)	TRIP	STATION	DATE	Chl a Avg (µg/L)
13	LH1	08/20/2001	0.8	14	LH1	08/29/2001	0.7	15	LH1	09/04/2001	0.6
	LH2	08/20/2001	0.9		LH2	08/29/2001	0.9		LH2	09/04/2001	1.1
	LH3	08/20/2001	0.6		LH3	08/29/2001	0.5		LH3	09/04/2001	0.6
	LH4	08/20/2001	0.2		LH4	08/29/2001	0.2		LH4	09/04/2001	0.4
	LH5	08/20/2001	0.6		LH5	08/29/2001	1.2		LH5	09/04/2001	0.8
	LH6	08/20/2001	0.0		LH6	08/29/2001	0.2		LH6	09/04/2001	0.5
	LH7	08/20/2001	0.6		LH7	08/29/2001	0.8		LH7	09/04/2001	0.7
	LH8	08/20/2001	0.1		LH8	08/29/2001	0.2		LH8	09/04/2001	0.6
	LH9	08/20/2001	0.1		LH9	08/29/2001	0.4		LH9	09/04/2001	0.3
	LH10	08/20/2001	0.3		LH10	08/29/2001	0.9		LH10	09/04/2001	0.9
	LH11	08/20/2001	1.5		LH11	08/29/2001	2.5		LH11	09/04/2001	0.8
	LH12	08/20/2001	0.7		LH12	08/29/2001	0.9		LH12	09/04/2001	0.7
	LH13	08/20/2001	0.6		LH13	08/29/2001	0.8		LH13	09/04/2001	0.5
	LH14	08/20/2001	4.5		LH14	08/29/2001	4.3		LH14	09/04/2001	4.0
	LH15	08/20/2001	1.5		LH15	08/29/2001	4.3		LH15	09/04/2001	1.5
	LH16	08/20/2001	2.6		LH16	08/29/2001	1.2		LH16	09/04/2001	2.0
	LH17	08/20/2001	1.1		LH17	08/29/2001	1.9		LH17	09/04/2001	1.5
	Ave.		1.0		Ave.		1.3		Ave.		1.0
16	LH1	09/12/2001	0.3	17	LH1	09/17/2001	0.5	18	LH1	09/24/2001	0.8
	LH2	09/12/2001	1.4		LH2	09/17/2001	1.7		LH2	09/24/2001	0.6
	LH3	09/12/2001	0.5		LH3	09/17/2001	0.5		LH3	09/24/2001	1.1
	LH4	09/12/2001	0.0		LH4	09/17/2001	0.1		LH4	09/24/2001	1.3
	LH5	09/12/2001	0.2		LH5	09/17/2001	0.2		LH5	09/24/2001	0.0
	LH6	09/12/2001	0.1		LH6	09/17/2001	0.0		LH6	09/24/2001	0.1
	LH7	09/12/2001	0.2		LH7	09/17/2001	0.2		LH7	09/24/2001	0.2
	LH8	09/12/2001	1.0		LH8	09/17/2001	0.6		LH8	09/24/2001	0.4
	LH9	09/12/2001	0.2		LH9	09/17/2001	0.2		LH9	09/24/2001	0.1
	LH10	09/12/2001	0.5		LH10	09/17/2001	0.8		LH10	09/24/2001	1.0
	LH11	09/12/2001	1.8		LH11	09/17/2001	1.4		LH11	09/24/2001	2.2
	LH12	09/12/2001	0.7		LH12	09/17/2001	0.7		LH12	09/24/2001	1.1
	LH13	09/12/2001	0.6		LH13	09/17/2001	0.5		LH13	09/24/2001	0.4
	LH14	09/12/2001	2.6		LH14	09/17/2001	2.1		LH14	09/24/2001	0.5
	LH15	09/12/2001	1.9		LH15	09/17/2001	2.1		LH15	09/24/2001	1.4
	LH16	09/12/2001	2.6		LH16	09/17/2001	2.8		LH16	09/24/2001	1.9
	LH17	09/13/2001	1.5		LH17	09/17/2001	1.2		LH17	09/24/2001	1.0
	Ave.		1.0		Ave.		0.9		Ave.		0.8

Table 3-4. (Continued)											
TRIP	STATION	DATE	Chl a Avg (µg/L)	TRIP	STATION	DATE	Chl a Avg (µg/L)	TRIP	STATION	DATE	Chl a Avg (µg/L)
19	LH1	10/02/2001	1.6	20	LH1	10/09/2001	2.5	21	LH1	10/18/2001	2.5
	LH2	10/02/2001	5.0		LH2	10/09/2001	5.2		LH2	10/18/2001	5.2
	LH3	10/02/2001	2.5		LH3	10/09/2001	1.4		LH3	10/18/2001	1.4
	LH4	10/02/2001	0.1		LH4	10/09/2001	0.1		LH4	10/18/2001	0.1
	LH5	10/02/2001	0.2		LH5	10/09/2001	0.3		LH5	10/18/2001	0.3
	LH6	10/02/2001	0.1		LH6	10/09/2001	0.1		LH6	10/18/2001	0.1
	LH7	10/02/2001	0.2		LH7	10/09/2001	0.2		LH7	10/18/2001	0.2
	LH8	10/02/2001	0.7		LH8	10/09/2001	0.5		LH8	10/18/2001	0.5
	LH9	10/02/2001	0.2		LH9	10/09/2001	0.1		LH9	10/18/2001	0.1
	LH10	10/02/2001	0.7		LH10	10/09/2001	0.3		LH10	10/18/2001	0.3
	LH11	10/02/2001	1.8		LH11	10/09/2001	1.2		LH11	10/18/2001	1.2
	LH12	10/02/2001	0.7		LH12	10/09/2001	1.1		LH12	10/18/2001	1.1
	LH13	10/02/2001	0.4		LH13	10/09/2001	0.9		LH13	10/18/2001	0.9
	LH14	10/02/2001	0.3		LH14	10/09/2001	0.9		LH14	10/18/2001	0.9
	LH15	10/02/2001	0.6		LH15	10/09/2001	0.8		LH15	10/18/2001	0.8
	LH16	10/02/2001	1.3		LH16	10/09/2001	1.5		LH16	10/18/2001	1.5
	LH17	10/02/2001	0.5		LH17	10/09/2001	0.9		LH17	10/18/2001	0.9
	Ave.		1.0		Ave.		1.1		Ave.		1.1
22	LH1	10/23/2001	1.6	23	LH1	10/29/2001	2.1	24	LH1	11/05/2001	2.2
	LH2	10/23/2001	3.5		LH2	10/29/2001	3.3		LH2	11/05/2001	5.3
	LH3	10/23/2001	1.2		LH3	10/29/2001	1.7		LH3	11/05/2001	2.3
	LH4	10/23/2001	0.1		LH4	10/29/2001	0.1		LH4	11/05/2001	0.1
	LH5	10/23/2001	0.3		LH5	10/29/2001	0.1		LH5	11/05/2001	0.3
	LH6	10/23/2001	0.0		LH6	10/29/2001	0.1		LH6	11/05/2001	0.1
	LH7	10/23/2001	0.2		LH7	10/29/2001	0.9		LH7	11/05/2001	0.1
	LH8	10/23/2001	0.9		LH8	10/29/2001	0.3		LH8	11/05/2001	0.5
	LH9	10/23/2001	0.1		LH9	10/29/2001	0.2		LH9	11/05/2001	0.4
	LH10	10/23/2001	0.8		LH10	10/29/2001	0.5		LH10	11/05/2001	0.6
	LH11	10/23/2001	0.9		LH11	10/29/2001	0.9		LH11	11/05/2001	0.7
	LH12	10/23/2001	1.1		LH12	10/29/2001	1.1		LH12	11/05/2001	0.9
	LH13	10/23/2001	0.3		LH13	10/29/2001	0.5		LH13	11/05/2001	0.6
	LH14	10/23/2001	1.9		LH14	10/29/2001	1.9		LH14	11/05/2001	2.6
	LH15	10/23/2001	1.4		LH15	10/29/2001	1.0		LH15	11/05/2001	1.7
	LH16	10/23/2001	3.5		LH16	10/29/2001	4.5		LH16	11/05/2001	3.0
	LH17	10/23/2001	1.4		LH17	10/29/2001	1.7		LH17	11/05/2001	1.7
	Ave.		1.1		Ave.		1.2		Ave.		1.4

occurrences of zinc concentrations above the hardness based criteria was observed in the time series. Station L17 was over the zinc criteria in May and June while L14 exceeded the criteria in the June and August collections. Station L6 had zinc concentrations over criteria in June and August as well. Zinc concentration at station L7 was above criteria once during the June sampling.

Table 3-5. Total metals concentrations (mg/L) observed in grab samples collected in May, June, August, and September 2001 at selected tributary and mainstem stations in the Lehigh River watershed. Shaded values are above the lowest water quality criteria available.

STATION	DATE	AL	CD	FE	MN	ZN	Hardness
LH2	05/30/2001	0.12	<0.005	0.292	0.065	0.016	21
LH3	05/30/2001	0.11	<0.005	0.249	0.069	0.013	20
LH6	05/30/2001	0.17	<0.005	0.23	0.08	0.01	34
LH7	05/30/2001	0.19	<0.005	0.273	0.087	0.028	36
LH8	05/30/2001	0.22	<0.005	0.184	0.082	0.017	22
LH10	05/30/2001	0.24	<0.005	0.304	0.111	0.024	31
LH14	05/30/2001	0.23	<0.005	0.297	0.105	0.025	62
LH17	05/31/2001	0.25	<0.005	0.342	0.113	0.08	34
LH2	06/21/2001	0.16	<0.005	0.227	0.101	< 0.005	11
LH3	06/21/2001	0.14	<0.005	0.232	0.063	< 0.005	12
LH6	06/20/2001	1.26	<0.005	0.237	0.54	0.158	11
LH7	06/20/2001	0.81	<0.005	0.225	0.404	0.116	11
LH8	06/20/2001	0.26	<0.005	0.23	0.077	< 0.005	12
LH10	06/20/2001	0.26	<0.005	0.246	0.084	< 0.005	16
LH14	06/20/2001	0.35	<0.005	0.435	0.121	0.072	21
LH17	06/20/2001	0.29	<0.005	0.331	0.097	0.047	25
LH2	08/20/2001	<0.02	<0.005	0.139	0.112	< 0.005	24
LH3	08/20/2001	<0.02	<0.005	<0.005	0.041	< 0.005	27
LH6	08/20/2001	4.74	<0.005	<0.005	1.0	0.276	50
LH7	08/20/2001	1.64	<0.005	<0.005	0.584	0.057	46
LH8	08/20/2001	0.38	<0.005	<0.005	0.207	< 0.005	26
LH10	08/20/2001	0.06	<0.005	<0.005	0.196	< 0.005	32
LH14	08/20/2001	0.08	<0.005	<0.005	0.13	0.771	102
LH17	08/20/2001	<0.02	<0.005	<0.005	0.095	< 0.005	42
LH2	09/13/2001	0.14	<0.005	0.037	0.026	0.034	40
LH3	09/12/2001	0.13	<0.005	0.037	0.034	0.01	44
LH6	09/12/2001	<0.02	<0.005	0.095	0.036	< 0.005	44
LH7	09/12/2001	0.06	<0.005	0.282	0.095	0.026	30
LH8	09/12/2001	0.14	<0.005	0.028	0.062	0.015	22
LH10	09/12/2001	0.13	<0.005	0.025	0.078	0.027	30
LH14	09/12/2001	0.03	<0.005	0.008	0.008	0.009	30
LH17	09/12/2001	<0.02	<0.005	0.053	0.023	< 0.005	20
DRBC Chronic		0.087	0.001	none	none	0.082	
PADEP		0.750 (acute)	hardness based	1.5	1	hardness based	
NJDEP Chronic		none	none	none	none	0.1	
EPA Chronic		none	0.002	none	none	0.12	

Table 3-6. Dissolved metals concentrations (mg/L) observed in grab samples collected in June 2001 at selected tributary and mainstem stations in the Lehigh River watershed. Shaded values are above the lowest water quality criteria available.						
STATION	DATE	Al-dissolved	Cd-dissolved	Fe-dissolved	Mn-dissolved	Zn-dissolved
LH2	06/21/2001	0.03	<0.005	<0.005	0.084	<0.005
LH3	06/21/2001	<0.02	<0.005	<0.005	0.023	<0.005
LH6	06/20/2001	0.21	<0.005	0.014	0.064	<0.005
LH7	06/20/2001	0.22	<0.005	0.046	0.067	<0.005
LH8	06/20/2001	0.03	<0.005	<0.005	0.033	<0.005
LH10	06/20/2001	0.03	<0.005	<0.005	0.042	<0.005
LH14	06/20/2001	<0.02	<0.005	<0.005	0.116	0.629
LH17	06/20/2001	<0.02	<0.005	<0.005	0.027	0.037
DRBC Chronic		0.087	0.001	none	none	0.082
PADEP		0.750 (acute)		1.5	1	
NJDEP Chronic		none	none	none	none	0.1
EPA Chronic		none	0.002	none	none	0.12

Dissolved metals analyzed in the June 2001 sampling (collected during higher water flows) had much lower concentration relative to the total metals measured for the month (Table 3-6). Dissolved aluminum exceeded criteria at stations LH6 and LH7. None of the other dissolved metals concentrations exceeded its respective water quality criteria, with the exception of zinc at station LH14. Dissolved zinc levels at Aquashicola Creek were measured at 0.629 mg/L and were over 19 times higher than the PADEP hardness based criteria of 0.032 mg/L (at a hardness of 21). Dissolved zinc concentrations at LH17 (Northampton) were slightly over the 0.037 mg/L criteria for a hardness of 25.

4.0 SUMMARY AND CONCLUSIONS

Water quality monitoring in the Lehigh River in the year 2001 has provided the data set that was needed to develop a water quality model for the system. If sufficient funding is found to continue with the overall program goals, this model can be used to evaluate the effects of operational changes at Walters and Beltzville reservoirs and input changes from other point and non-point sources on Lehigh River water quality. Currently, Wildlands Conservancy, DRBC, and the US Army Corps of Engineers are investigating potential funding sources to continue the program initiated in the spring of 2001.

The data collected in 2001 suggest that water quality was generally within PADEP and DRBC recommended levels with some exceptions. Temperature conditions upstream and immediately downstream of Walters dam were too high to support a Cold Water Fishery according to PADEP guidelines. While most of the tributary water temperatures were within recommended levels, mainstem stations just below the Lehigh Gorge State Park were above HQ-CWF requirements. Ambient water temperature in the lower portion of the Lehigh (between Mahoning Creek and Northampton) typically met the temperature requirement for TSF critical use. Dissolved oxygen monitoring by the in-situ meters revealed that apart from a few minor exceptions, oxygen levels were within acceptable ranges, even in the stream reach directly below Walters dam. Overall pH levels remained between the required 6 to 9 range, except for a few short-term low pH events. Nutrient levels were not excessive and with the exception of aluminum in May and June 2001, few water quality violations for metals were observed during the monitoring period. Chlorophyll levels monitored by weekly grab samples indicated that concentrations were consistently low (1.5 mg/L) throughout the entire monitoring period suggesting that very little if any seasonal changes in water column phytoplankton biomass occurred in 2001. Sampling for total and dissolved metals suggest that aluminum concentrations are typically above the lowest criteria available for comparison (DRBC chronic) and that zinc concentrations are occasionally higher than PADEP hardness based criteria.

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**WATER QUALITY MONITORING
AT BELTZVILLE RESERVOIR
DURING 2001**

Prepared for

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1.0 INTRODUCTION

1.1 PURPOSE OF THE MONITORING PROGRAM

The U.S. Army Corps of Engineers (USACE) manages Beltzville Reservoir located in east-central Pennsylvania within the Delaware River Basin. Foremost, Beltzville Reservoir provides flood control and a dependable water supply to downstream communities along the Lehigh River. Additionally, the reservoir provides important habitat for fish, waterfowl, and other wildlife, and recreational opportunities through fishing, boating, and swimming. Due to the broad range of uses and demands that Beltzville Reservoir serves, the USACE monitors water quality to compare with state water quality standards and to diagnose other problems that commonly effect reservoir health such as nutrient enrichment and toxic loadings. This report summarizes the results of water quality monitoring at Beltzville Reservoir from April to October 2001. This report also discusses the relevance of the water quality measures to the ecology of the reservoir and makes recommendations toward future water quality monitoring.

1.2 DESCRIPTION OF BELTZVILLE RESERVOIR

Beltzville Reservoir was designed to provide flood control, water supply, and enhanced water quality to downstream communities along the Lehigh River. The damming of Pohopoco Creek approximately three miles upstream of its confluence with the Lehigh River formed the reservoir. The reservoir is located in Carbon County, 3 miles northeast of Lehighton and about 20 miles northwest of Allentown, Pennsylvania. The reservoir dams a drainage area of 96.3 square miles and can impound up to 13 billion gallons of water. The primary water source feeding into the lake is Pohopoco creek as it flows southwest to the Lehigh River. Secondary water sources include Pine Run and Wild Creek, both entering the reservoir from the north. The reservoir is approximately 7 miles long and, when full, covers an area of 947 acres. The maximum depth of the lake is 140 feet near the face of the dam. The average annual discharge is approximately 196 cubic feet per second (USGS 1993).

1.3 ELEMENTS OF THE STUDY

The USACE, Philadelphia District, has been monitoring the water quality of Beltzville Reservoir since 1975. Over this time, the yearly monitoring designs have evolved to address new concerns such as the health of public drinking water and contamination of

reservoir bottom sediments. The 2001 monitoring program follows that in most recent years and includes the following major elements:

- ? Monthly water quality monitoring from April through October of reservoir and upstream sources to evaluate compliance with Pennsylvania state water quality standards;
- ? In an effort to coordinate concurrent studies, additional parameters were collected and analyzed in conjunction with the Lehigh Water Quality Study. This included the addition of a meteorological station on the dam tower;
- ? Sediment priority pollutant monitoring of semivolatile organics and metals to evaluate sediment toxicity relative to USACE identified screening concentrations; and
- ? Drinking water monitoring to ensure public health and safety by comparing water from a public drinking water source to standards determined by the Safe Drinking Water Act (SDWA).

2.0 METHODS

2.1 STRATIFICATION MONITORING

Physical stratification monitoring of the water column was conducted 6 times at Beltzville Reservoir between April and October 2001 (Table 2-1). Physical stratification parameters included temperature, dissolved oxygen (DO), pH, and conductivity. Physical stratification was monitored at seven fixed stations throughout the reservoir watershed (Fig. 2-1). Three stations were located within the reservoir body (BZ-3, BZ-6, and BZ-7) for which water quality was measured from the surface to the bottom at 5-foot intervals. Surface water quality was measured at four stations, located on upstream source waters (BZ-2 on Pine Run, BZ-4 on Wild Creek, and BZ-5 on Pohopoco Creek) and downstream of the reservoir (BZ-1). The physical water quality parameters were measured with a calibrated Hydrolab water quality meter.

For this report, all of the stratification monitoring results were summarized and compared to water quality standards enacted by the Pennsylvania Department of Environmental Protection (PADEP). The water quality standard for DO is a minimum concentration of 5 mg/L and the criteria for pH is an acceptable range of 6 to 9.

2.2 WATER COLUMN CHEMISTRY MONITORING

Water column chemistry monitoring was conducted seven times at Beltzville Reservoir between April and October 2001 (Table 2-1). Water samples were collected at the seven fixed stations in the reservoir watershed (Fig. 2-1). Surface water samples were collected downstream of the reservoir (BZ-1) and on upstream sources Pine Run (BZ-2), Wild Creek (BZ-4), and Pohopoco Creek (BZ-5). Surface, middle, and bottom water samples were collected at three reservoir stations (BZ-3, BZ-6, and BZ-7). Surface water samples were collected by opening sample containers approximately 1 foot below the water's surface. Middle and bottom water samples were collected with a Van Dorn design horizontal water bottle.

Water samples from all depths were analyzed for ammonia, nitrite, nitrate, total Kjeldahl nitrogen (TKN), total phosphorus, total dissolved solids (TDS), total suspended solids (TSS), biochemical oxygen demand (BOD), alkalinity, total organic carbon (TOC), total inorganic carbon (TIC) and chlorophyll *a*. Additionally, surface water samples collected at stations BZ-3, BZ-6, and BZ-7 were analyzed for purgeable aromatics (benzene, toluene, ethylbenzene, and xylenes, i.e., BTEX). BTEX was not analyzed during May monitoring because of a lab processing error.

Table 2-1. Beltzville Reservoir water quality monitoring schedule for 2001						
Date of Sample Collection	Physical Stratification Monitoring (All Stations)	Water Column Chemistry Monitoring (All Stations)	Trophic State Assessment (BZ-3, -6, and -7)	Coliform Bacteria Monitoring (All Stations)	Sediment Priority Pollutant Monitoring (BZ-6)	Drinking Water Monitoring*
24 April	X	X	X	X		
24 May	X	X	X	X		
14 June	X	X	X	X		Sets A and B
21 June						Total Coliform/E. Coli
26 June						Total Coliform/ Fecal Coliform
5 July						Total Coliform/E. Coli
17 July	X	X	X	X	X	
7 August	X	X	X	X		Set A
25 September	X	X	X	X		
24 October	X	X	X	X		Set A
*Set A – comprised analyses for nitrate, nitrite, and coliform bacteria contaminants Set B – comprised analyses for primary and secondary contaminants						

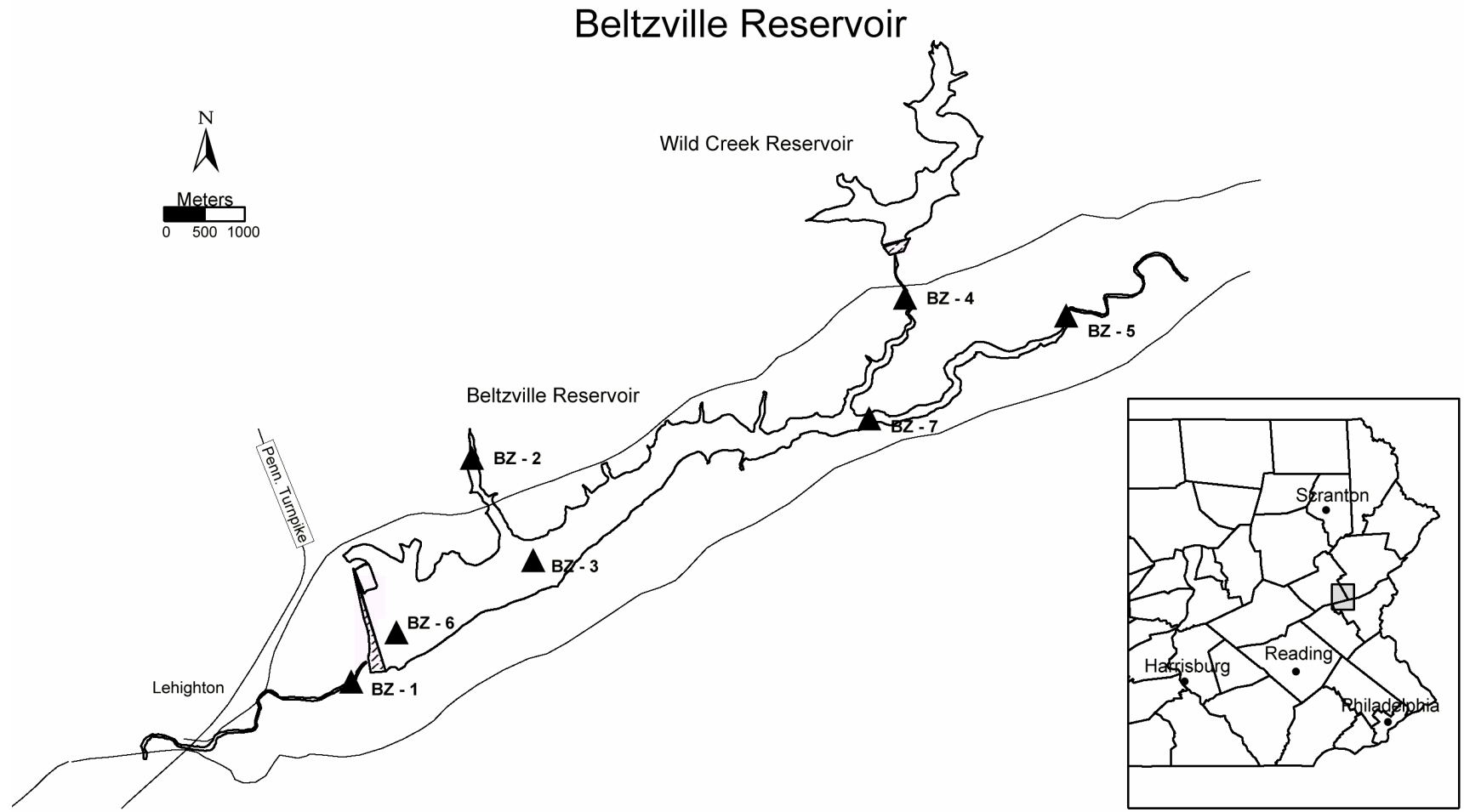


Figure 2-1. Beltville Reservoir and the location of water quality monitoring stations in 2001.

Table 2-2 summarizes the laboratory methods; detection limits, state regulatory criteria, and sample hold times for each water quality parameter monitored. All of the water samples collected during the 2001 monitoring period were analyzed within their respective maximum allowable hold times.

Table 2-2. Water quality test methods, detection limits, state regulatory criteria, and sample holding times for water quality parameters monitored at Beltzville Reservoir in 2001					
Parameter	EPA Method	Detection Limit	PADEP Surface Water Quality Criteria	Allowable Hold Times (Days)	Maximum Hold Time Achieved (Days)
Alkalinity	310.3	1 mg/L	minimum 20 mg/L CaCO ₃	14	9
Biochemical Oxygen Demand (BOD)	SM5210B	3 mg/L	None	2	2
Total Phosphorus	365.2	0.05 mg/L	None	28	11
Dissolved Phosphorus	365.2	0.05 mg/L	None	28	11
Dissolved Phosphate	365.2	0.05 mg/L	None	28	11
Total Organic Carbon	415.1	5 mg/L	None	28	14
Total Inorganic Carbon	415.1	5 mg/L	None	28	14
* Chlorophyll <i>a</i>	445.0	0-mg/m ³	None	90	60
Total Kjeldahl Nitrogen	351.3	0.20 mg/L	None	28	16
Ammonia	350.3	0.1 mg/L	Temperature and pH dependent	28	13
Nitrate	300	0.5 mg/L	Maximum 10 mg/L (nitrate + nitrite)	2	2
Nitrite	300	0.5 mg/L		2	2
Total Dissolved Solids	160.1	10 mg/L	Maximum 500 mg/L	7	7
Total Suspended Solids	160.2	1 mg/L	None	7	7
Benzene	8021B	0.001 mg/L	None	14	12
Ethyl benzene	8021B	0.001 mg/L	None	14	12
Toluene	8021B	0.001 mg/L	None	14	12
Xylenes	8021B	0.001 mg/L	None	14	12

* Chlorophyll *a* samples were allowed this holding time when wrapped tightly in the dark at -20 °C

2.3 TROPIC STATE DETERMINATION

The trophic state of Beltzville Reservoir was determined by methods outlined by Carlson (1977). In general, this method calculated trophic state indices (TSIs) independently for measures of total phosphorus, chlorophyll *a*, and secchi disk depth. Surface water measures of total phosphorus and chlorophyll *a* from chemistry monitoring were averaged in the calculation of monthly TSIs (Table 2-1). Secchi disk depth was measured monthly at stations BZ-3, BZ-6, and BZ-7 and similarly averaged for the TSI calculation. Trophic state determinations were made using criteria defined by Carlson and EPA (1983).

2.4 RESERVOIR BACTERIA MONITORING

Monitoring for coliform bacteria contaminants was conducted seven times at Beltzville Reservoir between April and October 2001 (Table 2-1). Surface water samples were collected at all seven stations and analyzed for total coliform, fecal coliform and fecal streptococcus. The samples were collected in the same manner as the chemistry samples or approximately 1-foot below the surface of the water. Table 2-3 presents the test methods, detection limits, PADEP standards, and sample holding times for the bacteria parameters monitored at Beltzville Reservoir in 2001. The bacteria analytical method was based on a membrane filtration technique. All of the samples were analyzed within their maximum allowable hold times. At the end of the monitoring period, streamflow data (CFS) were collected from a USGS gauging station in the region (Kresgeville) and precipitation data collected at Beltzville dam were used to correlate rainfall patterns with measured bacteria levels.

Monthly coliform bacteria counts were compared to the PADEP water quality standard for bacteria. The standard is defined as a maximum geometric mean of 200 colonies/100-ml based on 5 samples collected on different days. Given our logistical limitations (all monthly sampling conducted on one day), we calculated the geometric mean based on all of the surface reservoir samples collected for each month. Although our sampling design does not fully meet PADEP guidelines, we feel that this interpretation of the coliform data meets the intent of the PADEP water quality standard for evaluating Beltzville Reservoir bacteria levels.

Table 2-3. Water quality test methods, detection limits, PADEP standards, and sample holding times for bacteria parameters monitored at Beltzville Reservoir in 2001			
Parameter	Total Coliform	Fecal Coliform	Fecal Streptococcus
Test method	SM 9222B	SM9222D	SM9230C
Detection limit	10 clns/100-mls	10 clns/100-mls	10 clns/100-mls
PADEP standard	-	Geometric mean < 200 clns/100-mls	-
Maximum allowable holding time	30 hours	30 hours	30 hours
Achieved holding time	< 30 hours	< 30 hours	< 30 hours

2.5 STREAMFLOW AND PRECIPITATION

Stream flow and precipitation data for the principal monitoring months of April to October were compiled from USACE records. Stream flow data was collected at the USGS gauging station (measured in cubic feet per second; CFS) located in Kresgeville to reflect rainfall patterns throughout the watershed of Beltzville Reservoir. Precipitation data was collected by

Beltzville Reservoir personnel and reflected more local conditions of rainfall pattern. Stream flow and precipitation records were largely in agreement throughout the monitoring period (Figs. 2-2 through 2-8).

In April through the middle of May, stream flow slowly decreased until two small precipitation events took place at the end of May (Fig. 2-2 and Fig. 2-8). These rain events increased the flow to 100-cfs. After the May rain events, stream flow began to decrease until the middle of June when there was another rain event that peaked at 2 inches. Monthly monitoring in all three months took place when stream flow ranged from 60 to 100-cfs. In the later part of the summer the stream flow decreased to approximately 35-cfs. Monthly monitoring was done at 35-cfs during July and August. Towards the end of September there were two storm events that each exceeded 1.5 inches of rain. These storm events caused the greatest stream flow to peak at approximately 200-cfs. Monthly monitoring was sampled during the highest stream flow on September 25.

2.6 SEDIMENT PRIORITY POLLUTANT MONITORING

Sediment from Beltzville Reservoir was monitored for priority pollutant contaminants, Group 2 – metals and semivolatile organic compounds. Sediment was collected 17 July at station BZ-6 with a petite ponar grab-sampler. Sediment from the grab-sampler was emptied into a stainless steel mixing bowl and homogenized with a stainless steel spoon. Sediments were contained in appropriately labeled sample jars and stored on ice until shipment to the analytical laboratory. All field equipment used during the handling of reservoir sediments was decontaminated prior to sampling. Decontamination procedures were as follows: detergent wash, first deionized water rinse, 10% nitric acid rinse, second deionized water rinse, hexane rinse, and third deionized water rinse. Table 24 summarizes the parameters monitored, method detection limits, sample hold times, and the laboratory methods used in the analyses. All of the sediment priority pollutant parameters were analyzed within their respective maximum allowable hold times. Laboratory analysis of sediments followed EPA methods 6010B and 8270C. Sediment contaminant concentrations were reported based on dry weight and are calculated as follows:

$$\text{Dry weight concentration (mg/kg)} = \frac{\text{Wet weight concentration (mg/kg)} \times 100}{\% \text{ solids of sample}}$$

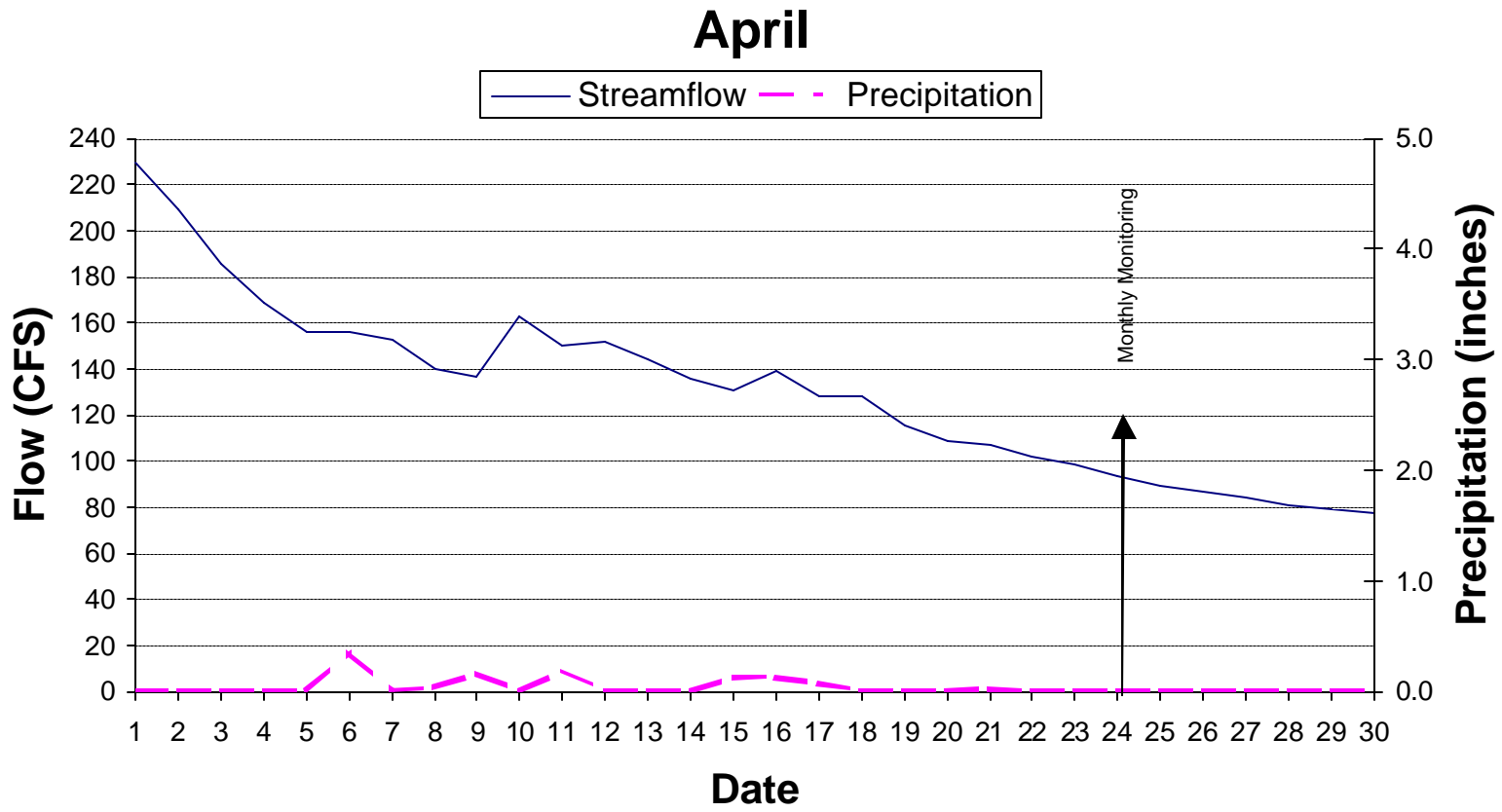


Figure 2-2. April streamflow and precipitation in the vicinity of Beltzville Reservoir during 2001

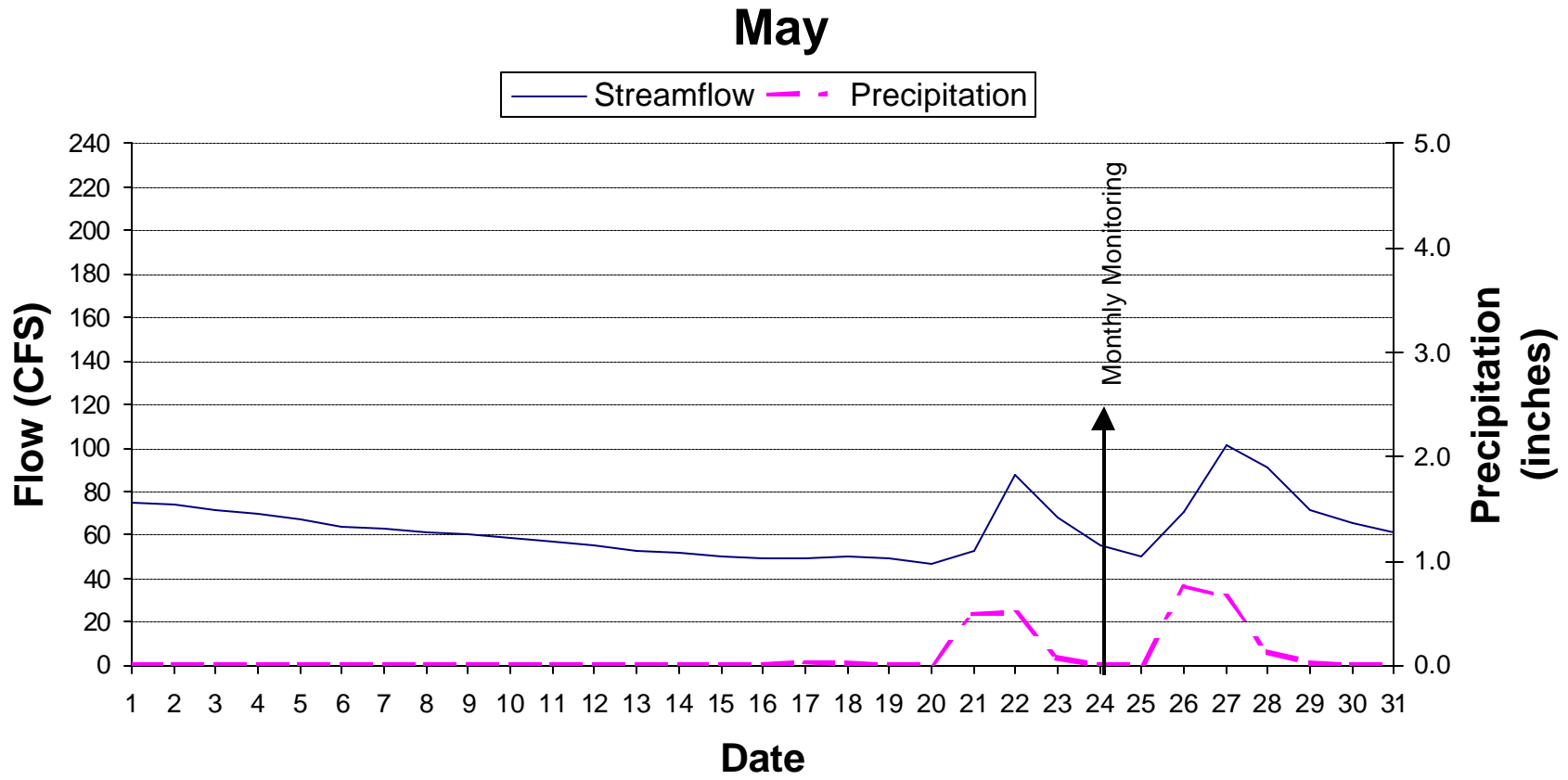


Figure 2-3. May streamflow and precipitation in the vicinity of Beltzville Reservoir during 2001

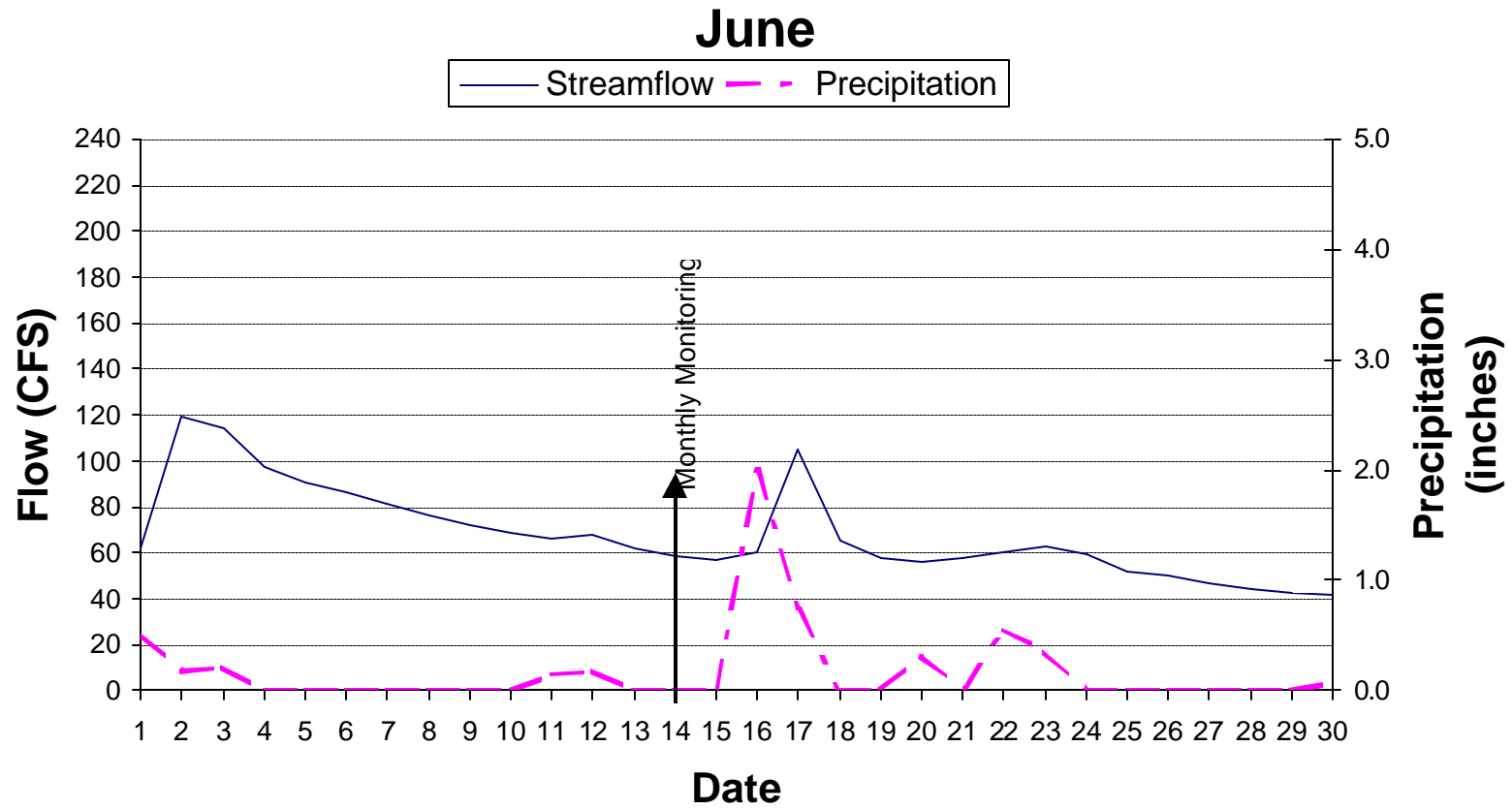


Figure 2-4. June streamflow and precipitation in the vicinity of Beltzville Reservoir during 2001

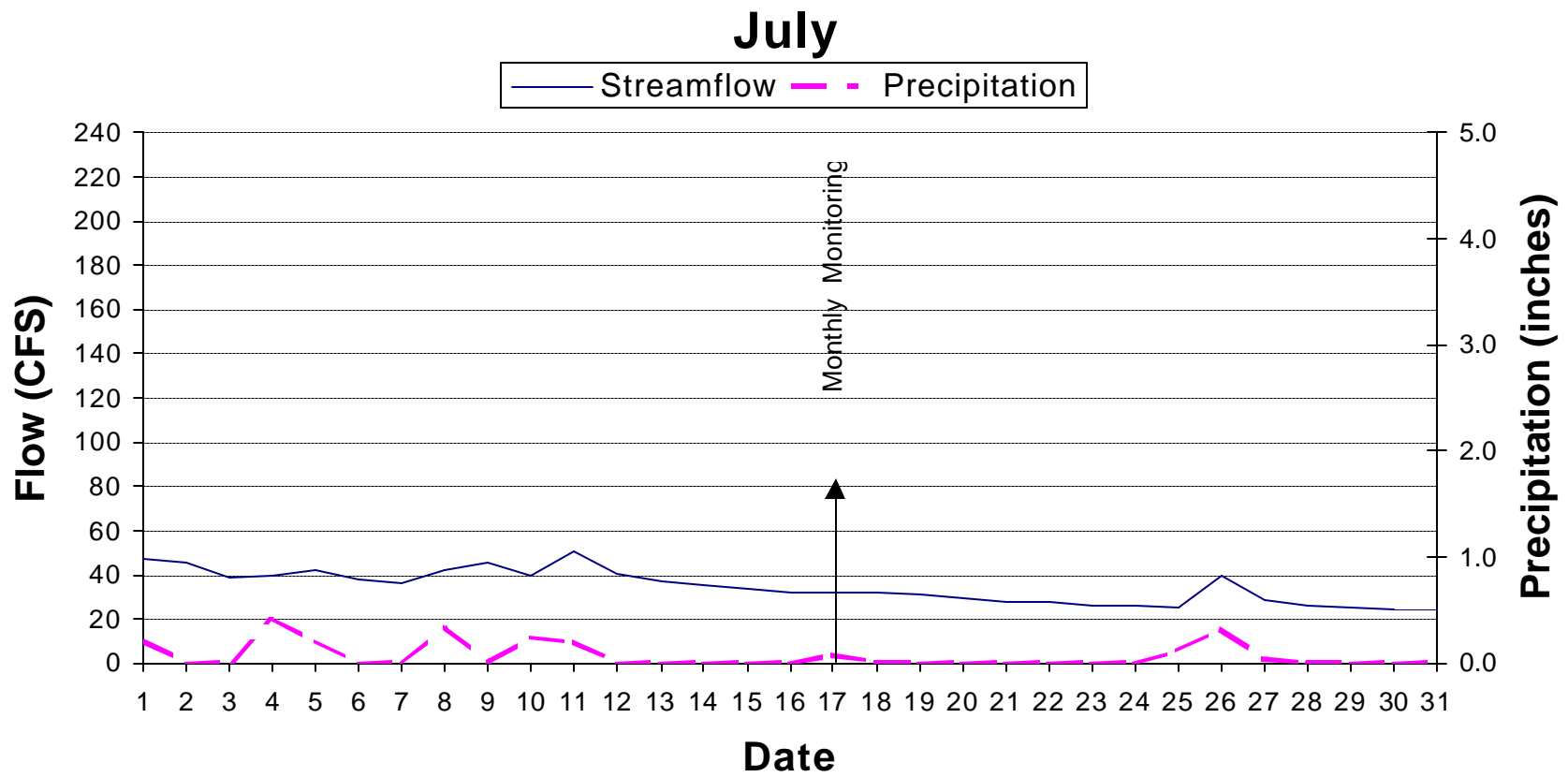


Figure 2-5. July streamflow and precipitation in the vicinity of Beltzville Reservoir during 2001

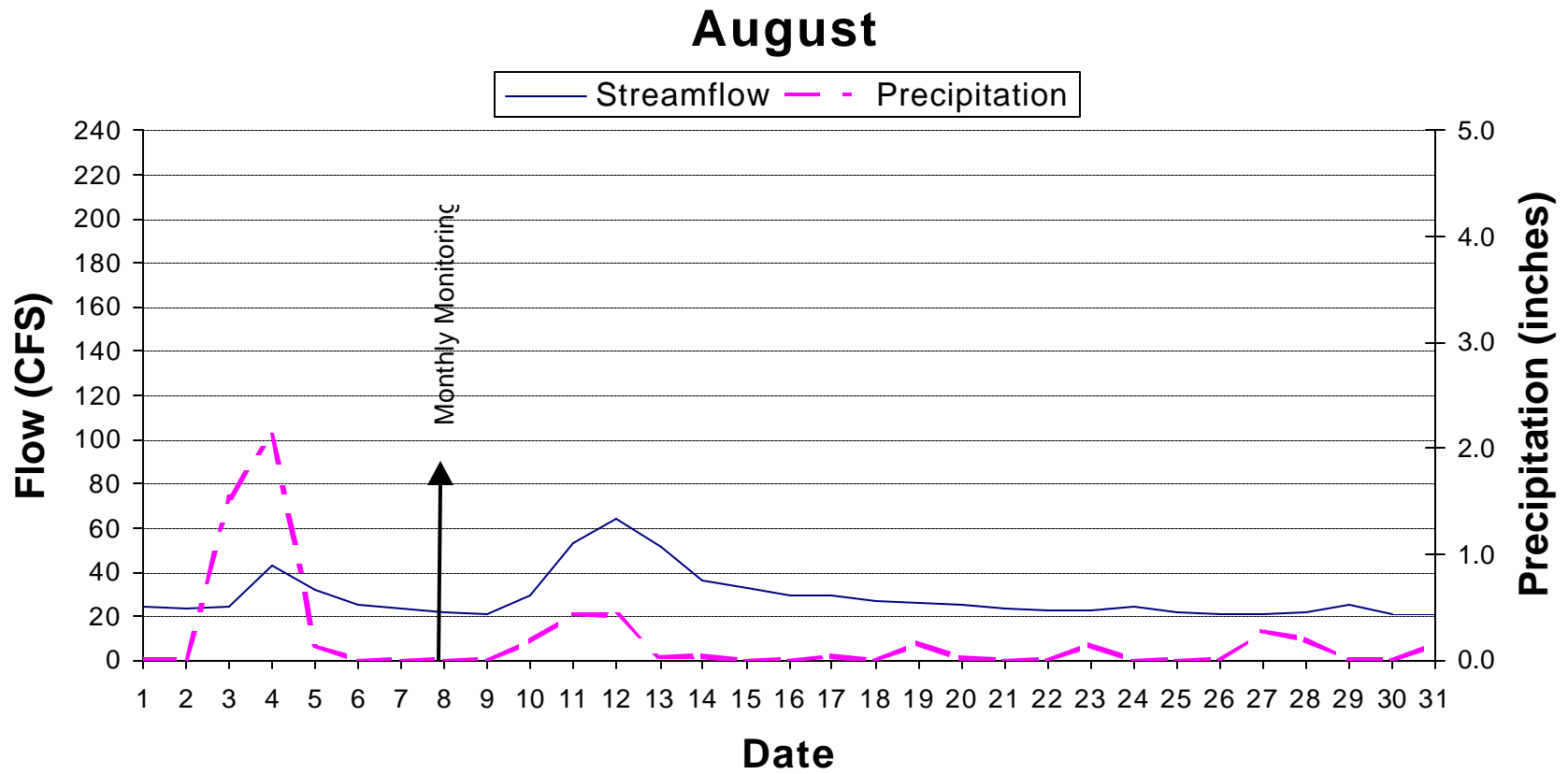


Figure 2-6. August streamflow and precipitation in the vicinity of Beltzville Reservoir during 2001

September

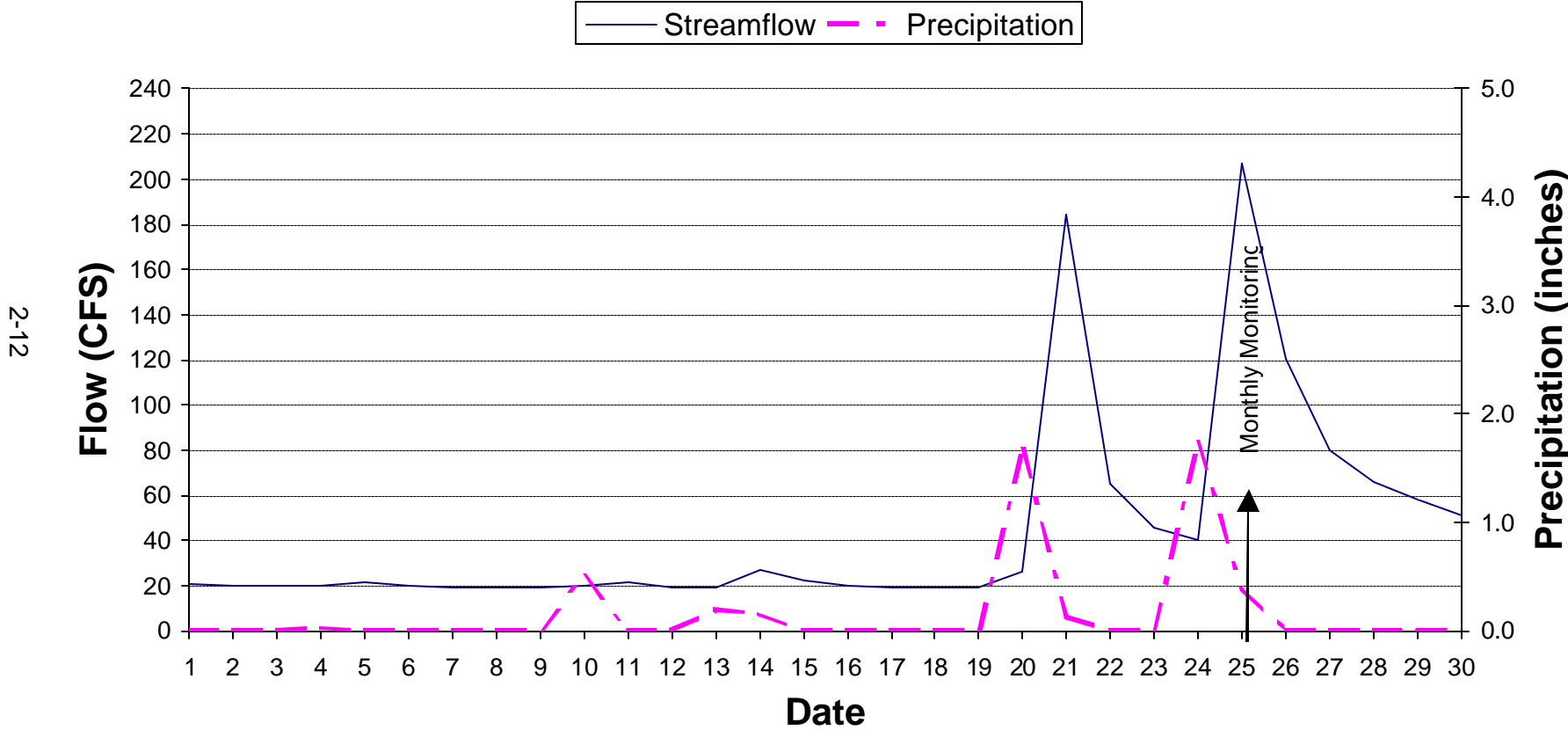


Figure 2-7. September streamflow and precipitation in the vicinity of Beltzville Reservoir during 2001

October

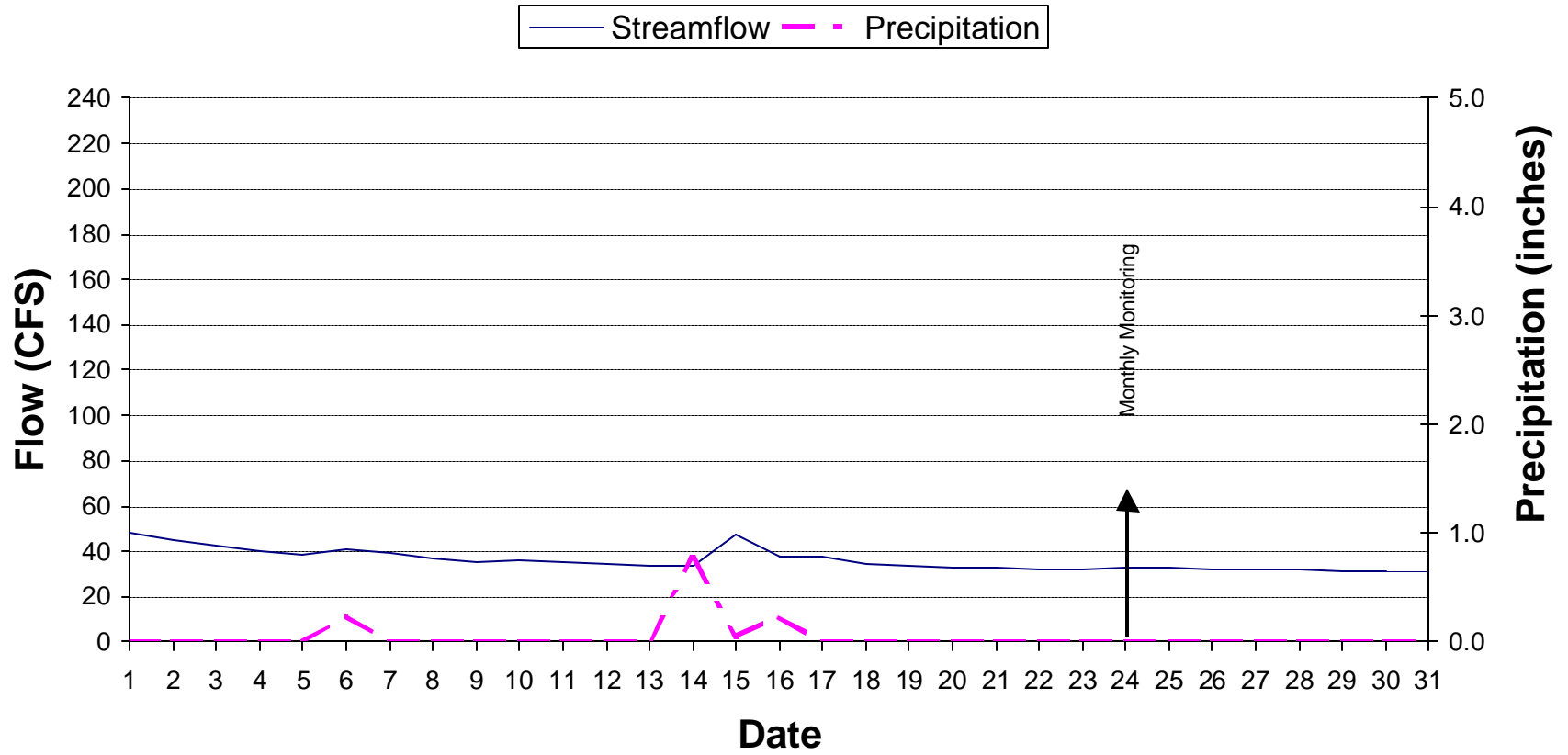


Figure 2-8. October streamflow and precipitation in the vicinity of Beltzville Reservoir during 2001

Sample-specific detection limits were calculated for the sediment tests because of matrix interference and the conversion from wet weight to dry weight.

Table 2-4. Analytical methods, detection limits, and sample hold times for sediment priority pollutant metals and semivolatiles (SVOCs) monitored at Beltzville Reservoir in 2001.				
Parameter	EPA Method	Method Detection Limit (mg/kg)	Allowable Hold Time (days)	Max. Hold Time Achieved (days)
CONVENTIONALS				
Percent Solids	STM D2974	0.1		1
METALS				
Aluminum	6010B	97.6	180	13
Antimony	6010B	2	180	13
Arsenic	6010B	3/ 4	180	13
Barium	6010B	0.5	180	13
Beryllium	6010B	0.5	180	13
Cadmium	6010B	0.5	180	13
Calcium	6010B	2	180	13
Chromium	6010B	0.5	180	13
Cobalt	6010B	2	180	13
Copper	6010B	0.5	180	13
Iron	6010B	24.4	180	13
Lead	6010B	2	180	13
Magnesium	6010B	2	180	13
Manganese	6010B	0.5	180	13
Mercury	6010B	0.1	28	2
Nickel	6010B	0.5	180	13
Potassium	6010B	2	180	9
Selenium	6010B	4.9	180	13
Sodium	6010B	2	180	8
Vanadium	6010B	2	180	13
Zinc	6010B	0.5	180	13

Table 2-4. (Continued)				
Parameter	EPA Method	Method Detection Limit (mg/kg)	Allowable Hold Time (days)	Max. Hold Time Achieved (days)
<i>SVOC (mg/kg)</i>				
2,4,5-Trichlorophenol	8270C	490	40	2
2,4,6-Trichlorophenol	8270C	490	40	2
2,4-Dichlorophenol	8270C	490	40	2
2,4-Dimethylphenol	8270C	490	40	2
2,4-Dinitrophenol	8270C	490	40	2
2-Chlorophenol	8270C	490	40	2
2-Methylphenol	8270C	490	40	2
2-Nitrophenol	8270C	490	40	2
3-Methylphenol	8270C	490	40	2
4,6-Dinitro-2-methylphenol	8270C	490	40	2
4-Chloro-3-methylphenol	8270C	490	40	2
4-Methylphenol	8270C	490	40	2
4-Nitrophenol	8270C	490	40	2
Benzoic acid	8270C	490	40	2
Benzyl alcohol	8270C	490	40	2
Pentachlorophenol	8270C	490	40	2
Phenol	8270C	490	40	2

2.7 TREND ANALYSIS METHODS

Annual water quality, sediment contaminant, and drinking water monitoring have been conducted at Beltzville Reservoir since 1974. Data collected over these years were compiled into an electronic database by the USACE (Versar 1996). Similarly, water column stratification monitoring of temperature, dissolved oxygen, pH, and conductivity has been conducted by USACE personnel bi-monthly during spring and summer seasons since 1988. Electronic copies of these data were also compiled into a separate database. The compilation of historical data enables the use of statistical trend analysis, an important step toward understanding how the water quality of Beltzville Reservoir is changing. A number of trend analysis methods are available, some more complicated than others. For the purposes of this report, we employed two general methods, regression and the Mann-Kendall, or Seasonal Kendall, test.

2.7.1 Regression Analysis

The spatial and temporal distributions of the historical data were examined to determine for which stations and parameters had sufficient time series to warrant meaningful trend analysis. For the major water quality parameters (e.g., nutrients, dissolved oxygen, total dissolved solids) downstream station BZ-1 and reservoir station BZ-2, BZ-3, BZ-4, BZ-5, BZ-6, and BZ-7 were consistently sampled over the time series. Water quality trend analyses was limited to the spring (April through June) and summer (July through 15 October) periods. The "spring season" analyses were conceptualized as representing long-term trends associated with inputs to the reservoir system during snow melt periods. The "summer season" analyses

depicted conditions during periods of maximum productivity and greatest low DO stress. Trends at station BZ-1 were analyzed separately to evaluate conditions downstream of the dam. Water quality trends within the reservoir were evaluated with concentrations observed at station BZ-2, BZ-3, BZ-4, BZ-5, BZ-6, and BZ-7. Regressions analyses were used to determine if significant increases or decreases in parameter concentrations occurred during the time series. The slope of the regression line was used to estimate the yearly rate of change. For this report, regression analysis was applied to the following water quality parameters: dissolved oxygen, ammonia, total nitrogen, total phosphorus, total dissolved solids, biochemical oxygen demand, and fecal coliform.

2.7.2 Mann-Kendall Analysis

In addition to the regression analysis, the non-parametric Mann-Kendall test was used to determine trends for individual stations over the time span of historical monitoring at Beltzville Reservoir. The Mann-Kendall test (or Seasonal Kendall test) scores all combinations of yearly changes for the tested parameter with a +1 or -1 depending on whether parameter concentrations increased or decreased over the time interval. All of the scores are then summed and compared to the Chi-Square distribution to determine if the parameter has a significant trend (increasing or decreasing) over the time series. For this report, the Mann-Kendall test was applied to the following water quality parameters: dissolved oxygen, ammonia, total nitrogen, total phosphorus, total dissolved solids, biochemical oxygen demand, and total and fecal coliform.

2.8 DRINKING WATER MONITORING

Drinking water was monitored at the public water fountain in the overlook building of Beltzville Reservoir (Table 2-1). Drinking water parameters were divided into two sets, A and B. Set A comprised bacteria parameters, total and fecal coliform (for analytical methods, see section 2.4), and nitrate and nitrite. Set A samples were collected 14 June, 7 August, and 24 October. Set B samples were analyzed for primary and secondary contaminants and were collected on 14 June. Additional coliform samples were collected on the following dates 21 June, 26 June, and 5 July. Table 2-5 summarizes the analytical method, detection limits, and sample hold times for each Set B parameter. All of the drinking water quality parameters were analyzed within their respective maximum allowable hold times.

Table 2-5. Analytical methods, method detection limits, and sample hold times for drinking water monitored at Beltzville Reservoir in 2001

Parameter	Detection Limits (mg/L)	Method	Allowable Hold Times (Days)	Maximum Hold Time Achieved (Days)
Aluminum	0.020	200.7	180	12
Antimony	0.050	200.8	180	12
Arsenic	0.050	200.7	180	12
Barium	0.005	200.7	180	12
Beryllium	0.005	200.7	183	15
Cadmium	0.005	200.7	180	12
Chromium	0.005	200.7	180	12
Copper	0.005	200.7	180	12
Iron	0.005	200.7	180	12
Lead	0.001	200.8	N/A	6
Magnesium	0.02	200.7	180	12
Manganese	0.005	200.7	180	12
Mercury	0.0002	245.1	28	12
Nickel	0.005	200.7	180	12
Selenium	0.050	200.8	180	12
Silver	0.005	200.7	180	12
Sodium	0.020	200.7	180	12
Thallium	0.05	200.8	180	12
Zinc	0.005	200.7	180	12
Chloride	1	300.0	28	12
Cyanide, total	0.007	SM4500CN-C&E	14	12
Fluoride	0.100	SM4500F-C	28	1
Foaming Agents	0.05	SM5540C	2	1
Nitrate	0.1	SM4500	2	2
Nitrite	0.5	SM4500	2	2
pH	0.010	150.1	N/A	1
Sulfate	5.000	300.0	28	7
Total Dissolved Solids @ 180C	10	SM2540C	7	5

3.0 RESULTS AND DISCUSSION

3.1 STRATIFICATION MONITORING

The following sections summarize the water quality monitoring results of the physical and chemical parameters: temperature, dissolved oxygen, pH, and conductivity. For each parameter, we describe seasonal and spatial patterns of surface water quality measured throughout the reservoir watershed, and seasonal and depth related patterns of the stratified water column based on measures from the deepest portion of the reservoir (station BZ-6 or the "Tower"). We feel that it is appropriate to focus discussion of stratification at this station as water quality problems related to depth are generally most severe in deeper water habitats, thus our evaluation will be a conservative one. Finally, we analyze 2001 data along with the Beltzville Reservoir historical database for trends in dissolved oxygen concentrations over the past two decades. Versar personnel collected the physical and chemical water quality data discussed herein over the monitoring period from April to October 2001. All of the parameters were measured with a calibrated Hydrolab water quality meter and are presented in Appendix Table A.

3.1.1 Temperature

Temperatures of surface water generally followed a similar pattern throughout the watershed of Beltzville Reservoir during 2001, however consistent differences were apparent between reservoir-body and upstream and downstream waters (Fig. 3-1). Stations located in the reservoir-body (BZ-3, -6, and -7) averaged 20 °C throughout the monitoring period. Temperatures downstream of the reservoir (BZ-1) and at the upstream stations (BZ-2, -4, -5) were similar but averaged 6 °C cooler than the reservoir.

Beltzville Reservoir was stratified with respect to temperature in 2001 (Fig. 3-2). In April stratification was already apparent with surface temperatures (10 °C) approximately 4 °C warmer than the lower water column (6 °C). This difference was also observed in May, however the upper water column from the surface to about 50 feet had warmed to about 15 °C. Throughout June and into September, the temperature pattern was very consistent with temperature at the surface averaging 22 °C and decreasing to 6 °C near the bottom.

3.1.2 Dissolved Oxygen

Dissolved oxygen (DO) in the surface water generally followed a similar pattern throughout the watershed of Beltzville Reservoir during 2001, however consistent differences were apparent between reservoir-body and upstream and downstream waters (Fig. 3-3). Stations located in the reservoir-body (BZ-3, -6, and -7) averaged 8mg/L throughout the monitoring period. Dissolved Oxygen concentrations downstream of the reservoir

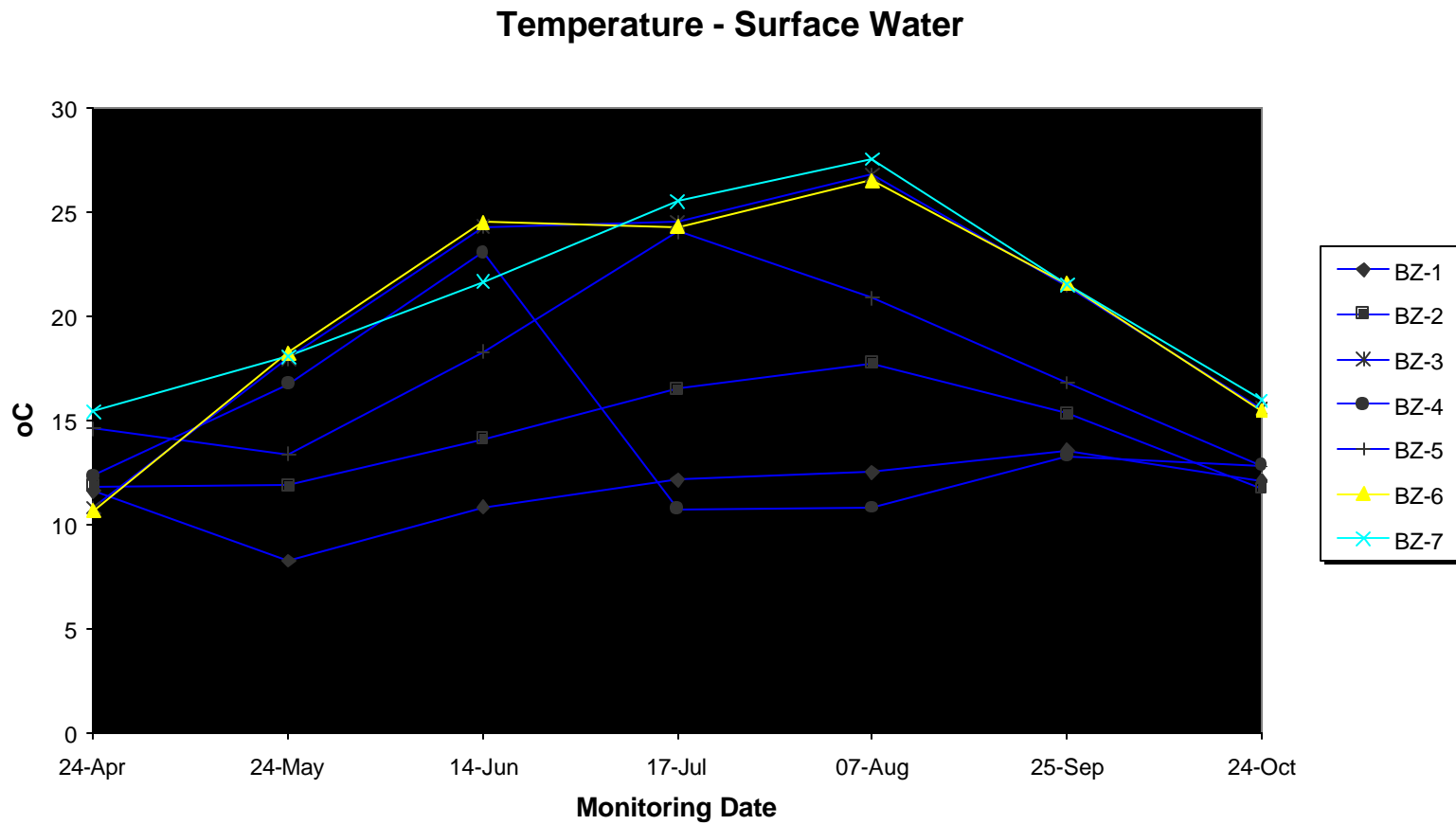


Figure 3-1. Surface water temperature (°C) measured at Beltzville Reservoir in 2001. See Appendix A for Summary of plotted values.

Temperature - Stratification

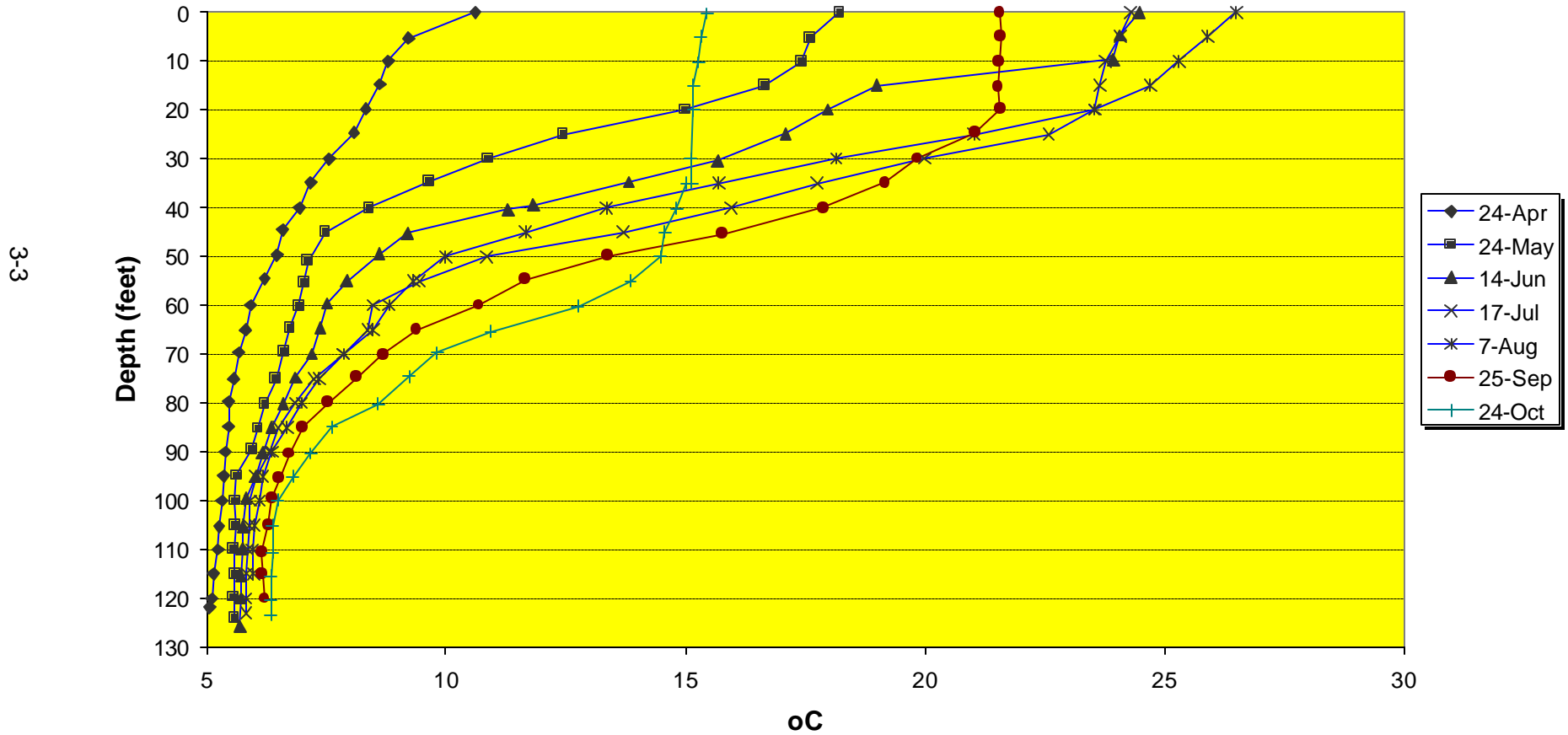


Figure 3-2. Temperature stratification at station BZ-6 of Beltzville Reservoir in 2001. See Appendix A for summary of plotted values.

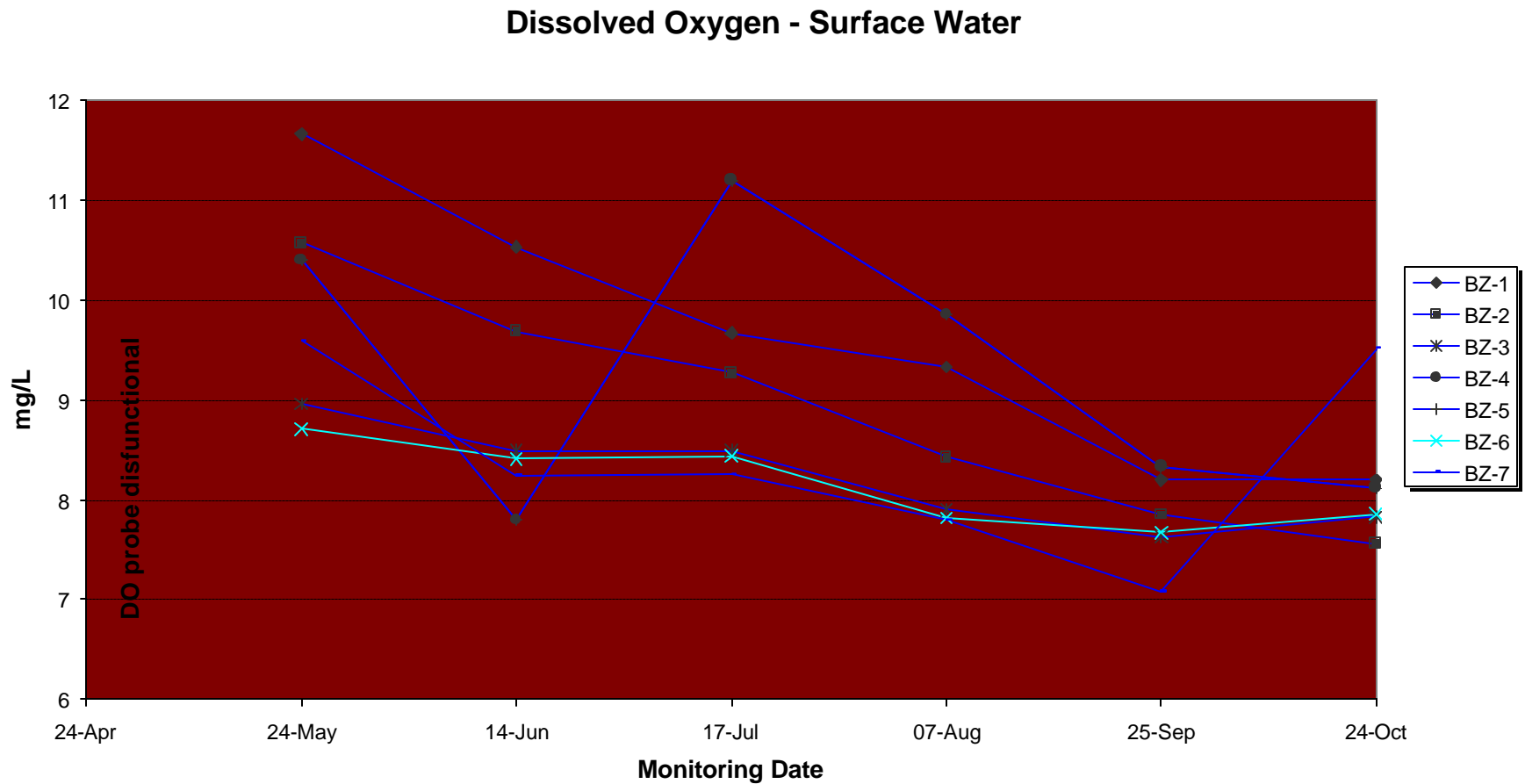


Figure 3-3. Dissolved oxygen concentrations measured in surface waters at Beltzville Reservoir in 2001. (The PADEP water quality standard for dissolved oxygen is a minimum concentration of 5 mg/L.) See Appendix A for summary of plotted values.

(BZ-1) and at the upstream stations (BZ-2, -4, -5) were consistently higher and averaged 9-mg/L.

DO in the water column of Beltzville Reservoir was stratified during September and October (Fig. 3-4). However, in most months DO concentrations were high throughout the water column. In September and October, DO concentrations were severely depleted throughout most of the water column. In these months, DO was less than 5-mg/L from 45-ft to the bottom, while concentrations nearer the surface were closer to 8-mg/L. Also during these months, DO exhibited a sinuous pattern with concentrations decreasing rapidly from the surface to approximately 50 feet, increasing to a depth of 90 feet, and decreasing again thereafter to the bottom. This pattern has been observed in previous years and may be due to a lens of oxygenated water passing through the reservoir from upstream sources or a result of portal operations at the reservoir tower.

DO concentrations in the water column of Beltzville Reservoir at times were not in compliance with PADEP water quality standards during 2001. The state water quality standard for DO is a minimum concentration of 5-mg/L. As stated above, concentrations falling below the standard were encountered during the September and October. In addition, the concentrations of DO fell to 4.6-mg/L during August (Fig 3-4). DO concentrations measured in all surface waters of the reservoir and upstream and downstream were in compliance with the standard.

The health of aquatic ecosystems is impaired by low DO concentrations in the water column. Hypoxia, or conditions of DO less than 2 mg/L, is generally accepted as the threshold at which the most severe effects on biota occur. In 2001, the deeper water column of Beltzville was affected by hypoxia (Fig. 3-5). Hypoxic water was encountered in September and October and occupied the lower two-thirds of the water column from around 45-ft to the bottom. Hypoxia in the lower water column is a symptom of eutrophication. Nutrients in the water column feed accelerating algal growth at the surface photic zone. Dead and decaying algae sink to lower levels of the water column and during the process of decay; oxygen is depleted from the water column. This phenomenon is not uncommon for lake systems.

Since 1988, DO concentrations have been measured in the water column at station BZ-6 near the "Tower". Station BZ-6 is located in the deepest part of the reservoir (120-ft) at which DO has been measured at 5-foot intervals from the surface to the bottom. We analyzed this historical data along with this year's data to determine if the depth at which hypoxia was initially encountered in the water column had significantly changed over the past 14 years. The trend analysis was conducted for the summer season (July to September) only as hypoxia was rarely observed in the spring (April to June). From the regression analysis, the level of hypoxia has not changed significantly ($P > 0.05$; $R^2 = 0.00003$) over the past 14 years (Fig. 3-6). In most years, the average depth at which hypoxia occurred was between 70 and 90 feet. In 2001, this average depth at which hypoxia occurred was 80 feet.

Dissolved Oxygen - Stratification

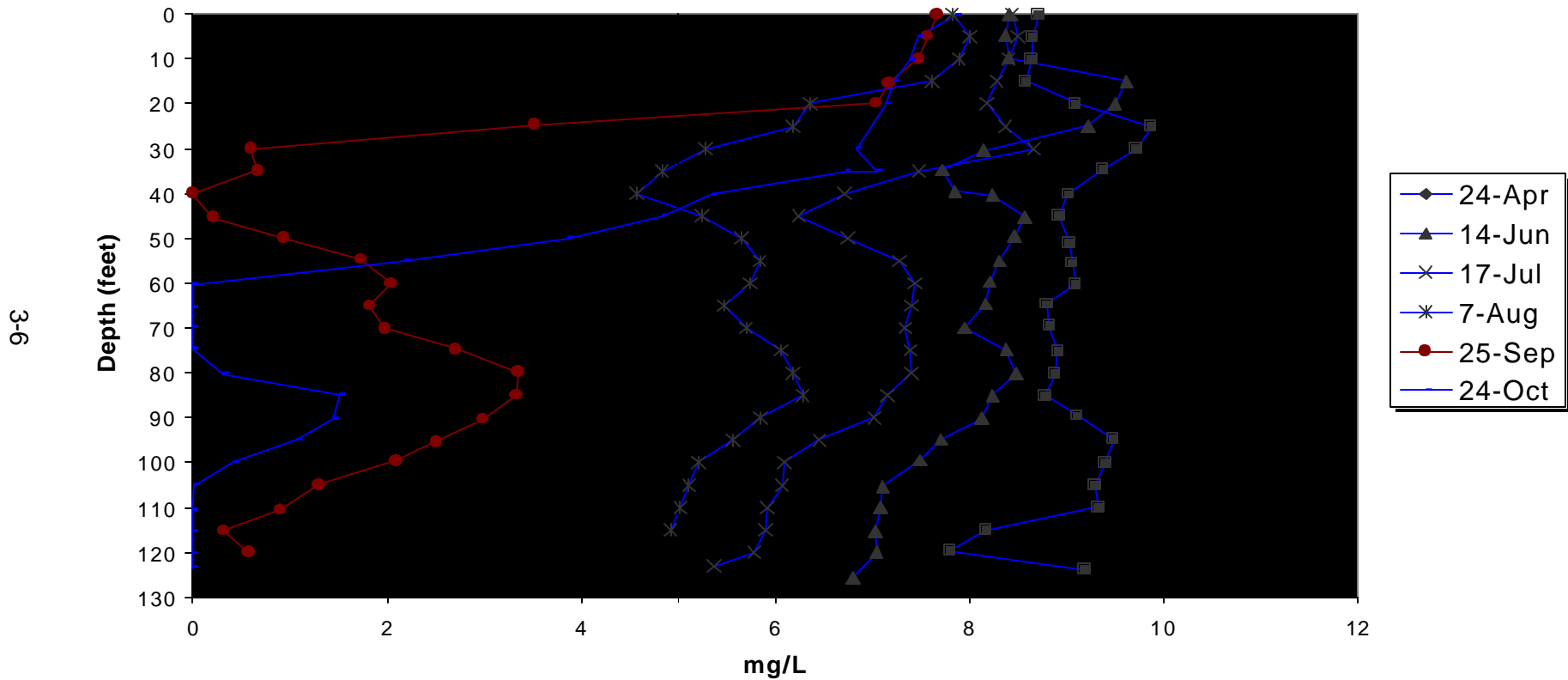


Figure 3-4. Dissolved oxygen stratification at station BZ-6 of Beltzville Reservoir in 2001. (The PADEP water quality standard for DO is a minimum concentration of 5 mg/L.) See Appendix A for summary of plotted values.

Tower - Hypoxia

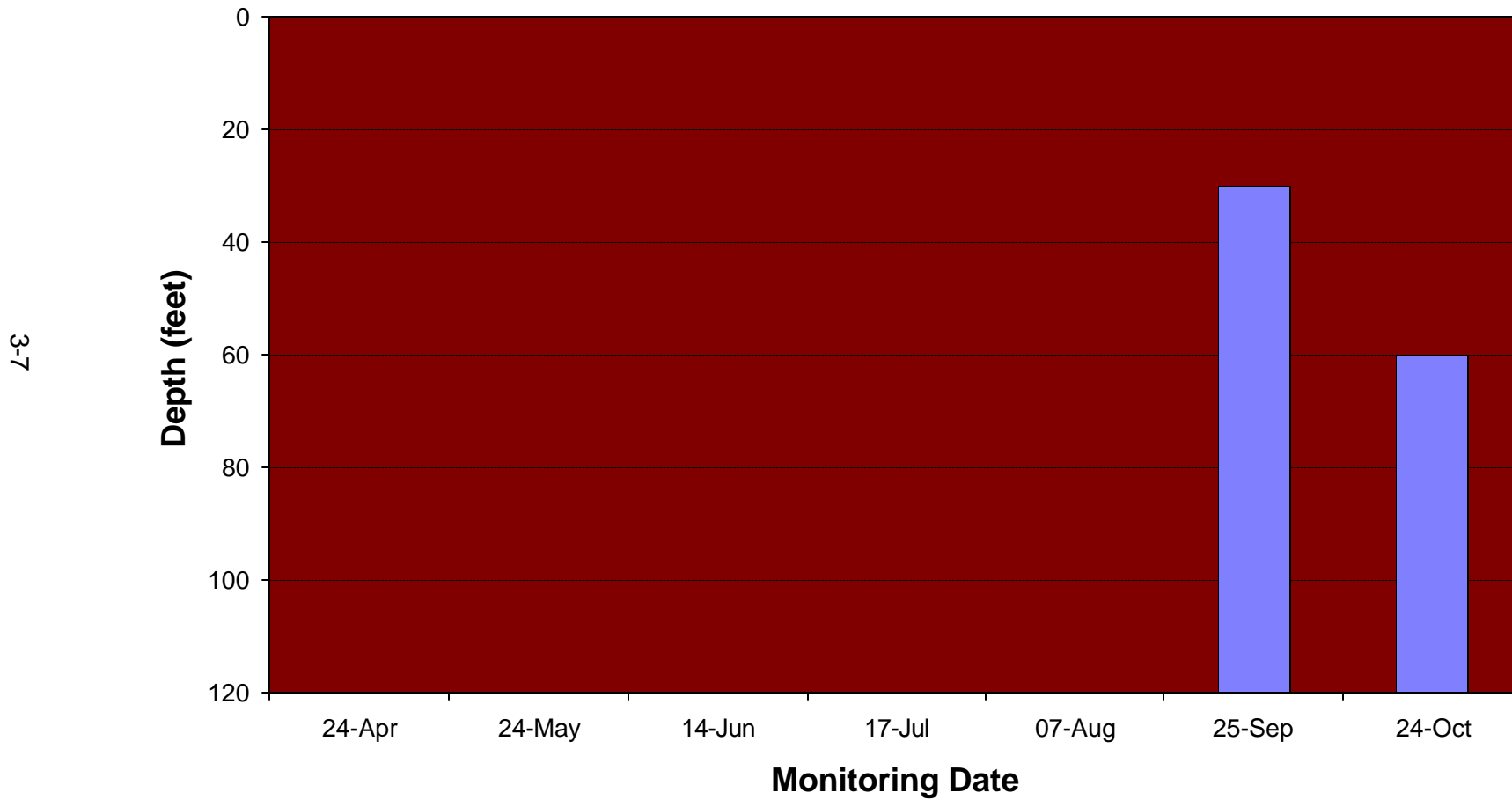


Figure 3-5. Spatial/temporal distribution of hypoxic reservoir water in Beltzville Reservoir measured at the “Tower” station in 2001. Histograms indicate dissolved oxygen concentrations in the water column below 2.0 mg/L.

Tower - Hypoxia Trends

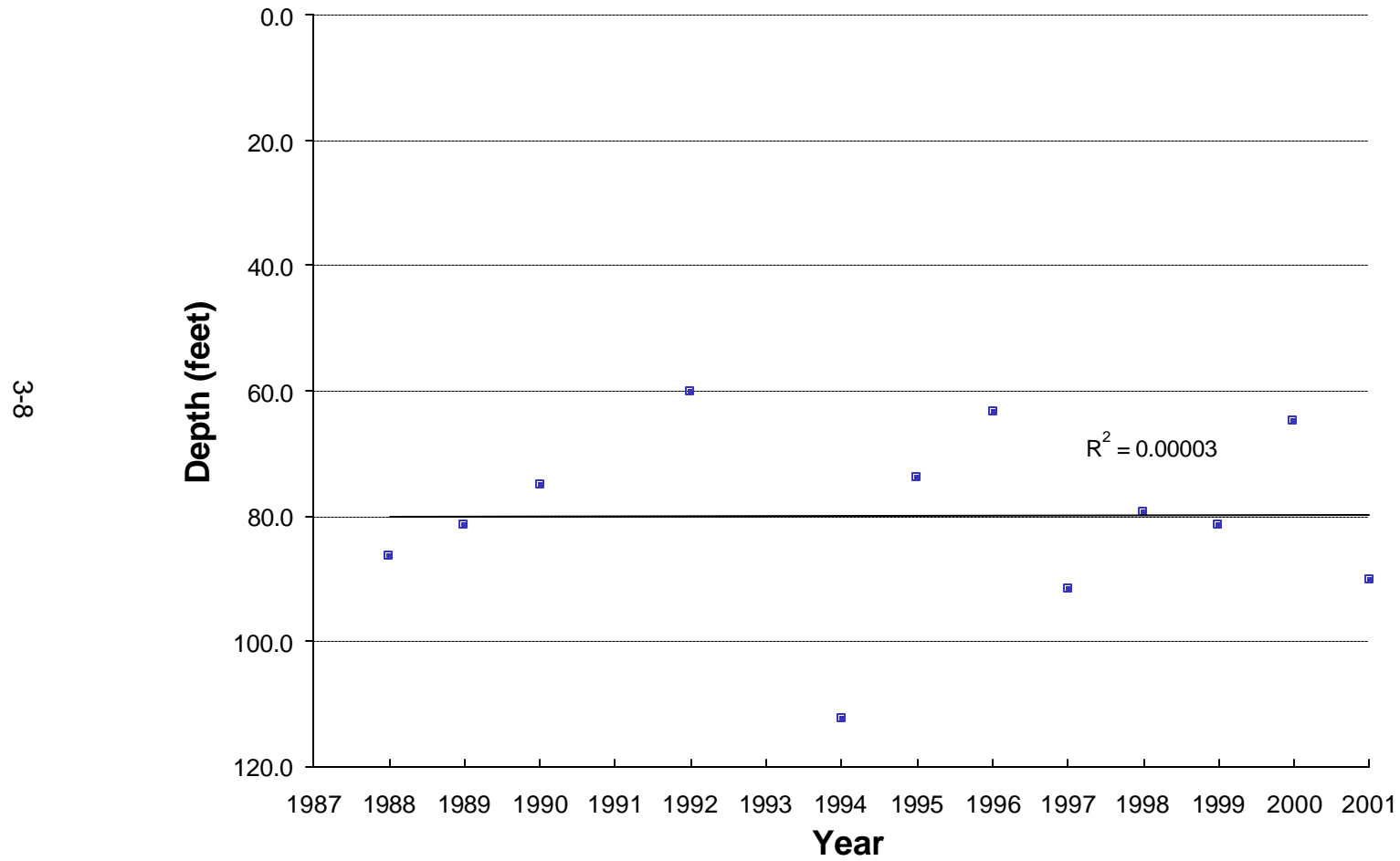


Figure 3-6. Trends in seasonal average hypoxia at the “Tower” station BZ-6. Measured as the depth at which hypoxia was observed in the water column.

In addition to the regression analysis, we also used the Mann-Kendall test to determine if DO concentrations had changed significantly at individual monitoring stations over the past 20 years or more. As before, the trend analysis was conducted separately for spring (April to June) and summer (July to September) seasons. Surface water concentrations were analyzed at upstream station BZ-5 and downstream station BZ-1. Surface and bottom water concentrations were averaged at the reservoir-body station BZ-3. Dissolved oxygen in surface waters of Beltzville Reservoir does not appear to have changed in concentration over the past two decades. However, a significant decreasing trend was determined from the analysis at station BZ-3 for the summer. The rate of decrease was 0.12 mg/L/year (Table 3-1).

Table 3-1. Spring and summer season trends of dissolved oxygen concentration at individual stations of Beltzville Reservoir calculated with the Mann-Kendall Statistic.					
Station	# of Years spring/summer	Spring		Summer	
		P Level	Rate (mg/L/year)	P Level	Rate (mg/L/year)
Surface Water					
BZ-1	23	NS	0.02	NS	-0.02
BZ-2	21	NS	0.03	NS	0.01
BZ-3	25	NS	-0.02	<0.05	-0.12
BZ-4	23	NS	0.01	NS	0.01
BZ-5	24/25	NS	0.02	NS	0.01
BZ-6	6	NS	-0.24	NS	0.22
BZ-7	6	NS	-0.12	NS	0.17

3.1.3 pH

The concentrations of pH in surface water followed a similar pattern at Beltzville Reservoir during 2001 (Fig. 3-7). Throughout the reservoir and upstream and downstream stations the pH among stations remained consistent among stations. The overall average pH throughout the monitoring period was 7.1, with a maximum average of 7.3 at station BZ-7.

In 2001, pH in the water column of Beltzville Reservoir was broadly effected by stratification (Fig. 3-8). In general, the stratification pattern was marked by a rapidly decreasing pH from the surface to about 30 feet and thereafter remaining relatively consistent to the bottom. In April, pH at the surface was 7.2 while the lower water column was about 6.9. In early August, pH of the entire water column was lowest and ranged from 7.5 at the surface to about 5.6 in the lower water column.

pH - Surface Water

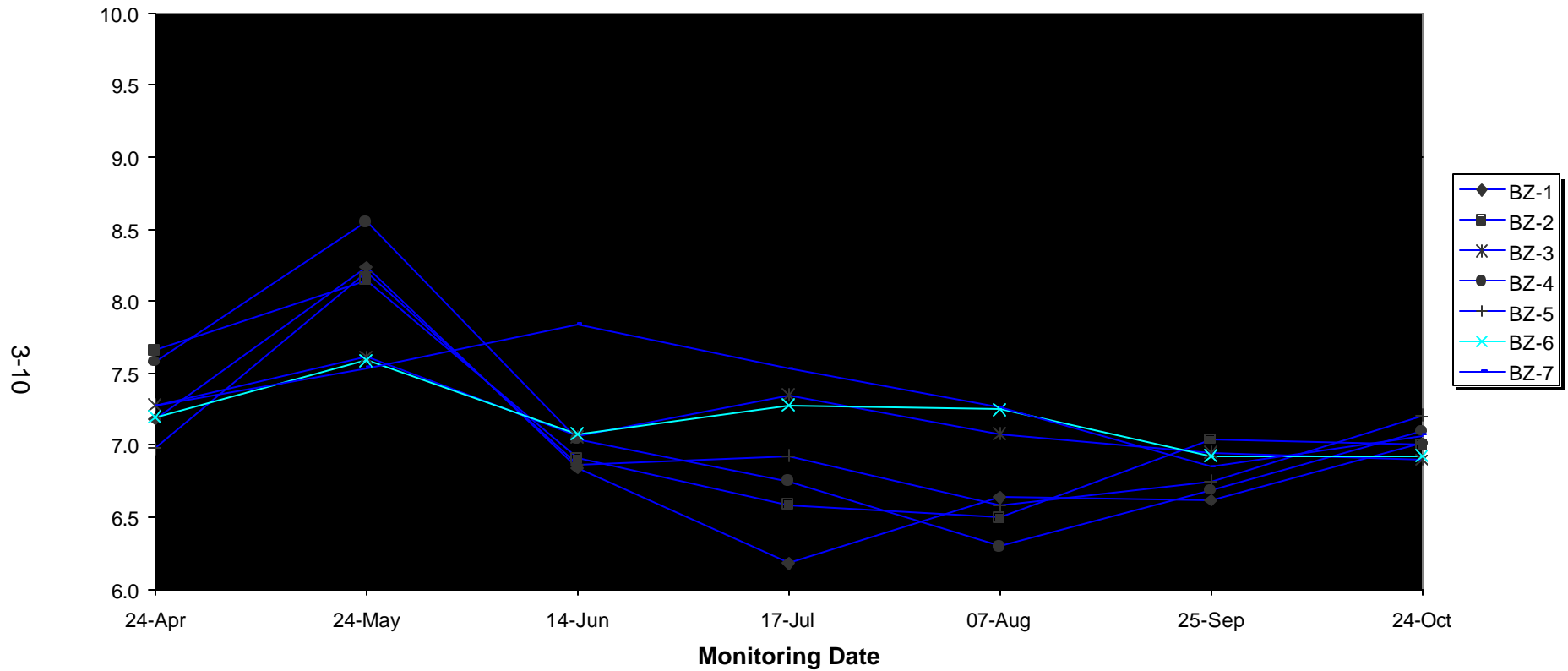


Figure 3-7. Surface water pH measured at Beltzville Reservoir in 2001. (The PADEP water quality standard for pH is from 6 to 9.) See Appendix A for summary of plotted values.

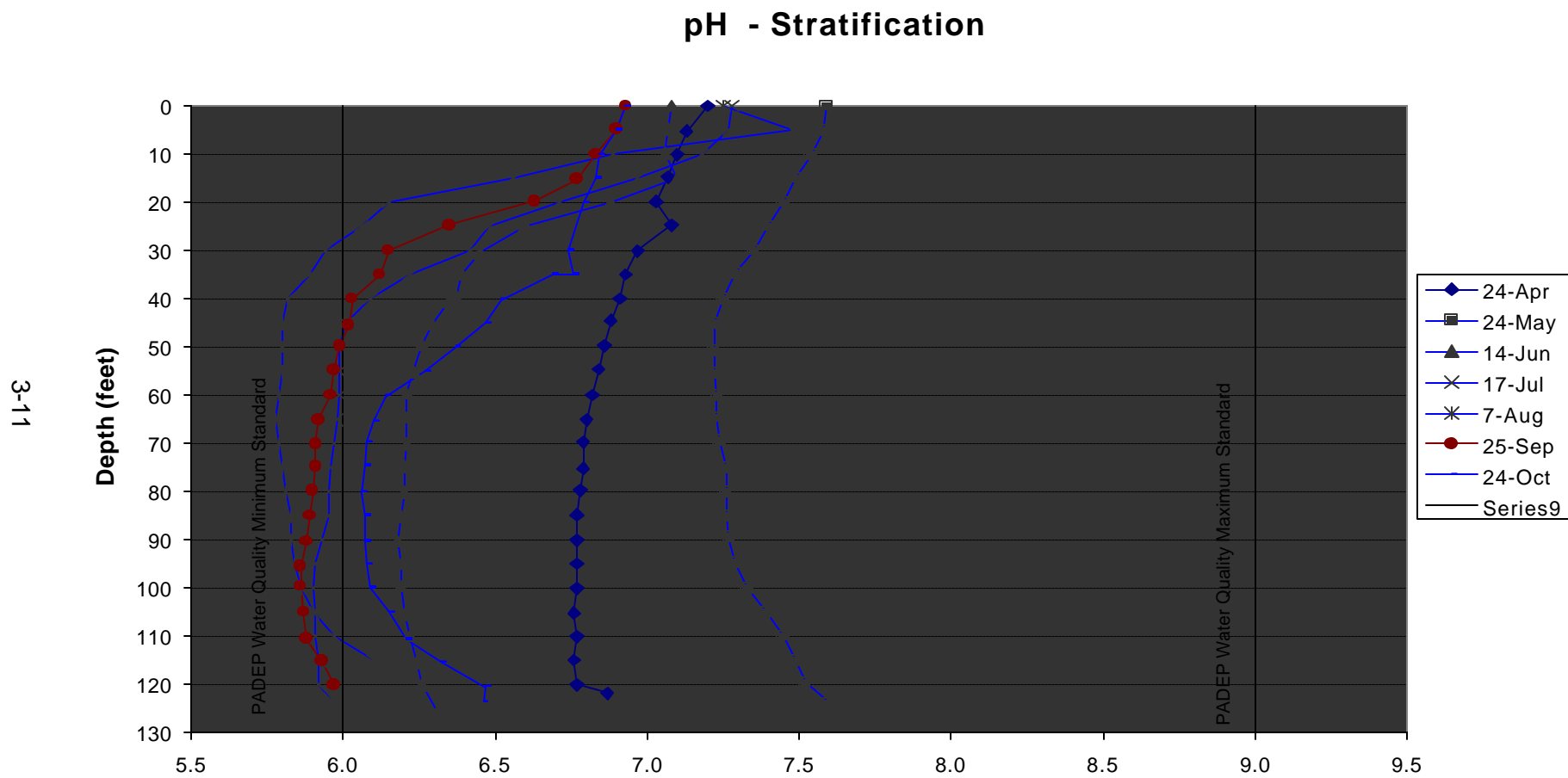


Figure 3-8. pH stratification at station BZ-6 of Beltzville Reservoir in 2001. (The PADEP water quality standard for pH is from 6 to 9.) See Appendix A for summary of plotted values.

The pH measures in the lower water column of Beltzville Reservoir were not in compliance with PADEP water quality standards from July to September. The standard for pH is a range of acceptable measures between 6 and 9. In July, August, and September, pH at station BZ-6 were below the minimum value of the standard. In those months, the average pH at station BZ-6 below 30 feet was 5.9. Additionally, the average pH at station BZ-7 below 25 feet in August was 5.9.

3.1.4 Conductivity

Conductivity measured in the surface waters of Beltzville Reservoir was generally consistent during 2001. Measures in the reservoir-body (stations BZ-3, BZ-6, and BZ-7), downstream of the reservoir (BZ-1), and upstream stations (BZ-2 and BZ-5) were most similar and averaged about 0.08-mS/cm throughout the monitoring period (Fig. 39). Conductivity measured at Wild Creek (BZ-4) was consistently the lowest, averaging 0.04-mS/cm and ranged from 0.07-mS/cm in May to 0.09-mS/cm in September.

Conductivity throughout the water column of Beltzville Reservoir was also fairly consistent during 2001 (Fig. 3-10). In May, measures were most consistent at about 0.074-mS/cm from surface to bottom. In the later months of August, September, and October, measures were lower at the surface than the bottom and overall ranged from 0.070-mS/cm to 0.089-mS/cm. The increasing conductivity in the lower water column during the summer months is an indication of eutrophic influences. As oxygen is depleted in the lower water column, a chemically reducing environment is formed. In this state, metals are mobilized into the water column, which results in an increase in conductivity. Conversely, at the surface, biological activity in the photic zone during the summer months effectively reduces conductivity as metabolizing algae remove dissolved constituents.

3.2 WATER COLUMN CHEMISTRY MONITORING

The following sections describe temporal, spatial, and patterns relating to depth for the water quality parameters measured in surface, middle, and bottom waters of Beltzville Reservoir during 2001 (Table 3-2). Where appropriate, long-term trends are discussed for surface water quality parameters incorporating 2001 data with the Beltzville Reservoir historical water quality database.

3.2.1 Ammonia

Ammonia concentrations were generally low in Beltzville Reservoir during 2001 (Fig. 3-11). Concentrations at most stations and depths were near or less than the method detection limit of 0.1 mg/L. The highest concentrations of ammonia (0.3-mg/L) were measured in the surface water at station BZ-1 during April and the middle water at station BZ-6 during August. Elevated ammonia in the lower water column of deep, stratified lakes and

Conductivity - Surface

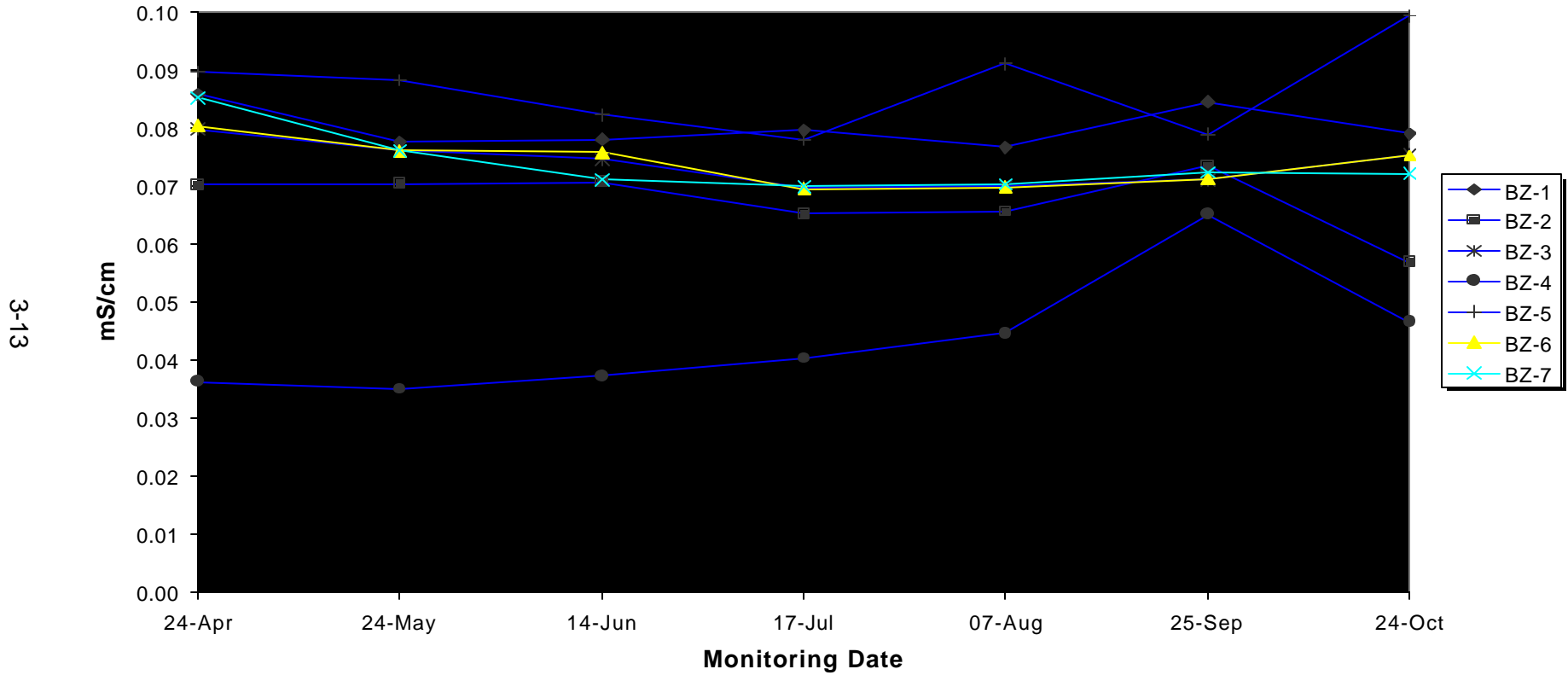


Figure 3-9. Surface water conductivity (mS/cm) measured at Beltzville Reservoir in 2001. See Appendix A for summary of plotted values.

Conductivity - Stratification

3-14

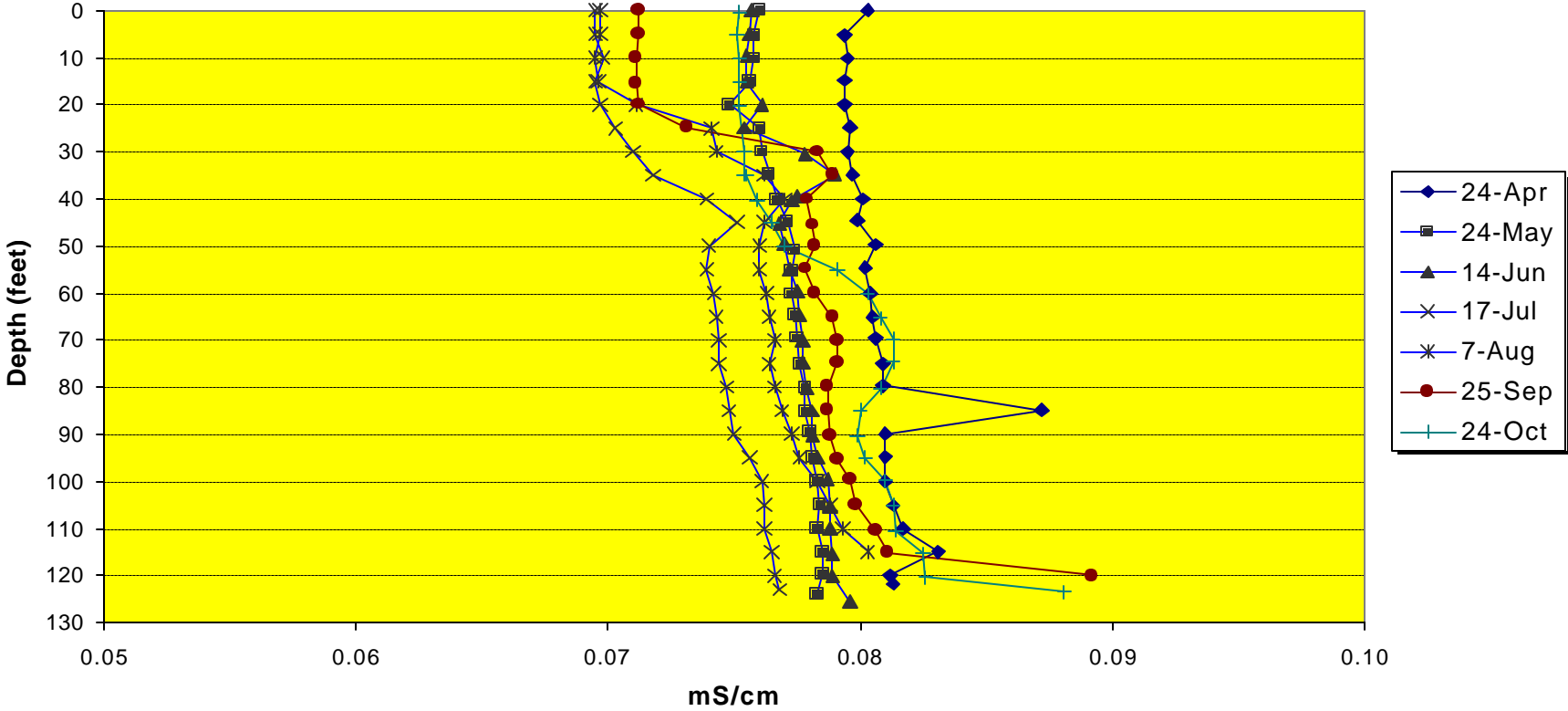


Figure 3-10. Conductivity stratification at station BZ-6 of Beltzville Reservoir in 2001. See Appendix A for summary of plotted values.

Table 3-2. Summary of surface, middle, and bottom water quality monitoring data for Beltzville Reservoir in 2001

STATION	DATE	NH3	NO2	NO3	PO4	TKN	TP	TDS	TSS	BOD5	ALK	CHL_A
BZ-1S	24-Apr	0.30<	0.005	0.100<	0.05	0.30<	0.05	28	8.0	< 3.0	10.0	2.3
	24-May	0.10<	0.005	0.700<	0.05<	0.10<	0.05	96	2.0	< 3.0	8.0	1.5
	14-Jun	0.10<	0.005<	0.100<	0.05	4.30<	0.05	82	6.0	< 2.0	10.0	4.8
	17-Jul	0.10	0.008	0.400<	0.05	0.23<	0.05	80	2.0	< 1.0	10.0	3.2
	07-Aug	0.10<	0.100	0.700<	0.05	0.42<	0.05	38	1.0	< 2.0	14.0	1.7
	25-Sep	0.10<	0.100	0.500<	0.05<	0.20<	0.05	105	4.0	2.0	16.0	0.9
	24-Oct	0.10<	0.500<	0.500	0.16<	1.00	0.07	64<	1.0	< 2.0	10.0	2.6
	Mean		0.13	0.103	0.429	0.07	0.94	0.05	70	3.4	2.1	11.1
Maximum		0.30	0.500	0.700	0.16	4.30	0.07	105	8.0	3.0	16.0	4.8
Minimum		0.10	0.005	0.100	0.05	0.10	0.05	28	1.0	1.0	8.0	0.9
Std. Dev		0.08	0.180	0.250	0.04	1.51	0.01	29	2.7	0.7	2.8	1.3
No. of D		1	1	5	1	4	1	7	6	1	7	7
BZ-2S	24-Apr	0.20<	0.005<	0.100<	0.05	0.10<	0.05<	10	14.0	< 3.0	6.0	0.6
	24-May	0.10<	0.005	0.400<	0.05<	0.10<	0.05	72<	1.0	< 3.0	6.0	0.2
	14-Jun	0.10<	0.005<	0.100<	0.05	5.40<	0.05	58	9.0	< 2.0	8.0	2.1
	17-Jul	0.10<	0.005	0.300<	0.05	0.45<	0.05	84	3.0	< 1.0	10.0	0.2
	07-Aug	0.10<	0.100	0.300	1.20	0.74<	0.05	28	6.0	< 2.0	10.0	0.3
	25-Sep	0.10<	0.100	0.200	0.07<	0.20<	0.05	66	4.0	1.0	10.0	0.8
	24-Oct	0.10<	0.500<	0.500	0.07<	1.00<	0.05	56<	1.0	< 2.0	10.0	0.1
	Mean		0.11	0.103	0.271	0.22	1.14	0.05	53	5.4	2.0	8.6
Maximum		0.20	0.500	0.500	1.20	5.40	0.05	84	14.0	3.0	10.0	2.1
Minimum		0.10	0.005	0.100	0.05	0.10	0.05	10	1.0	1.0	6.0	0.1
Std. Dev		0.04	0.181	0.150	0.43	1.91	0.00	26	4.7	0.8	1.9	0.7
No. of D		4	0	4	3	4	0	6	5	1	7	7
BZ-3S	24-Apr	0.10<	0.005	0.100<	0.05	0.20<	0.05	18	7.0	< 3.0	8.0	2.9
	24-May	0.10	0.005	0.600<	0.05<	0.10<	0.05	70	3.0	< 3.0	6.0	1.1
	14-Jun	0.10	0.006<	0.100<	0.05	5.70<	0.05	72	5.0	< 2.0	9.0	2.4
	17-Jul	0.10<	0.005	0.400<	0.05	0.58<	0.05	92	9.0	< 1.0	11.0	3.2
	07-Aug	0.10<	0.100	0.400<	0.05	1.18<	0.05	16	7.0	< 2.0	11.0	4.2
	25-Sep	0.10<	0.100	0.200<	0.05<	0.20<	0.05	52	1.0	3.0	12.0	12.3
	24-Oct	0.10<	0.500<	0.500	0.06<	1.00<	0.05	80<	1.0	< 2.0	12.0	3.0
	Mean		0.10	0.103	0.329	0.05	1.28	0.05	57	4.7	2.3	9.9
Maximum		0.10	0.500	0.600	0.06	5.70	0.05	92	9.0	3.0	12.0	12.3
Minimum		0.10	0.005	0.100	0.05	0.10	0.05	16	1.0	1.0	6.0	1.1
Std. Dev		0.00	0.181	0.198	0.00	1.99	0.00	30	3.1	0.8	2.3	3.7
No. of D		2	2	5	1	4	0	7	6	1	7	7

Table 3-2. (Continued)													
STATION	DATE	NH3	NO2	NO3	PO4	TKN	TP	TDS	TSS	BOD5	ALK	CHL_A	
BZ-3M	24-Apr	< 0.10	< 0.005	0.100	< 0.05	0.40	< 0.05	< 10	3.0	< 3.0	8.0	2.7	
	24-May	< 0.10	< 0.005	0.600	< 0.05	0.10	< 0.05	76	7.0	< 3.0	6.0	1.0	
	14-Jun	< 0.10	0.005	< 0.100	< 0.05	3.40	< 0.05	74	5.0	< 2.0	9.0	8.5	
	17-Jul	< 0.10	0.005	0.500	< 0.05	0.53	< 0.05	104	5.0	< 1.0	12.0	1.2	
	07-Aug	< 0.10	< 0.100	0.700	< 0.05	0.53	< 0.05	34	< 1.0	< 2.0	10.0	1.4	
	25-Sep	< 0.10	< 0.100	0.500	0.06	< 0.20	< 0.05	61	4.0	1.0	12.0	0.8	
	24-Oct	< 0.10	< 0.500	< 0.500	0.08	< 1.00	< 0.05	84	< 1.0	< 2.0	16.0	2.1	
	Mean		0.10	0.103	0.429	0.06	0.88	0.05	63	3.7	2.0	10.4	2.5
	Maximum		0.10	0.500	0.700	0.08	3.40	0.05	104	7.0	3.0	16.0	8.5
	Minimum		0.10	0.005	0.100	0.05	0.10	0.05	10	1.0	1.0	6.0	0.8
Std. Dev		0.00	0.181	0.236	0.01	1.15	0.00	32	2.2	0.8	3.3	2.7	
No. of D		0	2	5	2	4	0	6	5	1	7	7	
BZ-3B	24-Apr	0.10	< 0.005	0.100	< 0.05	0.20	< 0.05	< 10	8.0	< 3.0	9.0	1.6	
	24-May	< 0.10	0.005	0.600	< 0.05	< 0.10	< 0.05	76	8.0	< 3.0	12.0	0.5	
	14-Jun	< 0.10	0.005	< 0.100	< 0.05	1.90	< 0.05	74	11.0	< 2.0	9.0	0.9	
	17-Jul	< 0.10	0.008	0.300	< 0.05	0.37	< 0.05	90	8.0	< 1.0	11.0	0.8	
	07-Aug	< 0.10	< 0.100	0.700	< 0.05	0.36	< 0.05	42	4.0	< 2.0	12.0	0.8	
	25-Sep	< 0.10	< 0.100	0.500	0.05	< 0.20	< 0.05	65	11.0	1.0	14.0	0.8	
	24-Oct	< 0.10	< 0.500	< 0.500	0.07	< 1.00	< 0.05	70	36.0	< 2.0	12.0	0.8	
	Mean		0.10	0.103	0.400	0.05	0.59	0.05	61	12.3	2.0	11.3	0.9
	Maximum		0.10	0.500	0.700	0.07	1.90	0.05	90	36.0	3.0	14.0	1.6
	Minimum		0.10	0.005	0.100	0.05	0.10	0.05	10	4.0	1.0	9.0	0.5
Std. Dev		0.00	0.180	0.238	0.01	0.65	0.00	27	10.7	0.8	1.8	0.3	
No. of D		10	3	5	2	4	0	6	7	1	7	7	
BZ-4S	24-Apr	0.10	< 0.005	< 0.100	< 0.05	0.40	< 0.05	10	5.0	< 3.0	5.0	1.9	
	24-May	< 0.10	< 0.005	0.300	< 0.05	0.10	< 0.05	54	4.0	< 3.0	10.0	11.7	
	14-Jun	< 0.10	< 0.005	< 0.100	< 0.05	5.90	< 0.05	42	4.0	< 2.0	7.0	1.1	
	17-Jul	< 0.10	0.005	0.400	< 0.05	0.43	< 0.05	80	1.0	< 2.0	8.0	0.8	
	07-Aug	< 0.10	< 0.100	0.200	< 0.05	0.38	< 0.05	40	9.0	6.0	10.0	1.3	
	25-Sep	< 0.10	< 0.100	0.500	< 0.05	< 0.20	< 0.05	52	7.0	5.0	18.0	0.7	
	24-Oct	< 0.10	< 0.500	< 0.500	0.07	< 1.00	< 0.05	72	< 1.0	< 2.0	10.0	0.9	
	Mean		0.10	0.103	0.300	0.05	1.20	0.05	50	4.4	3.3	9.7	2.6
	Maximum		0.10	0.500	0.500	0.07	5.90	0.05	80	9.0	6.0	18.0	11.7
	Minimum		0.10	0.005	0.100	0.05	0.10	0.05	10	1.0	2.0	5.0	0.7
Std. Dev		0.00	0.181	0.173	0.01	2.09	0.00	23	2.9	1.6	4.1	4.0	
No. of D		1	1	4	1	5	0	7	6	2	7	7	

Table 3-2. (Continued)													
STATION	DATE	NH3	NO2	NO3	PO4	TKN	TP	TDS	TSS	BOD5	ALK	CHL_A	
BZ-5S	24-Apr	< 0.10	< 0.005	0.200	0.06	0.20	< 0.05	82	10.0	< 3.0	11.0	2.0	
	24-May	0.10	0.025	1.000	< 0.05	< 0.10	< 0.05	82	6.0	< 3.0	10.0	1.2	
	14-Jun	0.10	0.007	0.100	< 0.05	2.90	< 0.05	72	13.0	< 2.0	6.0	1.1	
	17-Jul	< 0.10	0.011	0.500	0.11	0.40	< 0.05	86	6.0	< 2.0	13.0	14.8	
	07-Aug	< 0.10	< 0.100	1.200	0.07	0.40	< 0.05	44	< 1.0	< 2.0	13.0	1.0	
	25-Sep	< 0.10	< 0.100	0.800	0.28	< 0.20	0.10	89	73.0	1.0	20.0	3.1	
	24-Oct	< 0.10	< 0.500	0.800	0.07	< 1.00	< 0.05	92	< 1.0	< 2.0	14.0	0.6	
	Mean		0.10	0.107	0.657	0.10	0.74	0.06	78	15.7	2.1	12.4	3.4
	Maximum		0.10	0.500	1.200	0.28	2.90	0.10	92	73.0	3.0	20.0	14.8
	Minimum		0.10	0.005	0.100	0.05	0.10	0.05	44	1.0	1.0	6.0	0.6
Std. Dev		0.00	0.178	0.408	0.08	1.00	0.02	16	25.6	0.7	4.3	5.1	
No. of D		2	3	7	5	4	1	7	5	1	7	7	
BZ-6S	24-Apr	< 0.10	< 0.005	0.100	< 0.05	0.30	< 0.05	86	1.0	< 3.0	5.0	1.9	
	24-May	< 0.10	0.006	0.600	< 0.05	< 0.10	< 0.05	90	6.0	< 3.0	12.0	2.0	
	14-Jun	< 0.10	0.007	< 0.100	< 0.05	9.20	< 0.05	36	10.0	< 2.0	9.0	2.5	
	17-Jul	< 0.10	0.006	0.400	< 0.05	0.43	< 0.05	92	1.0	< 2.0	10.0	5.4	
	07-Aug	< 0.10	< 0.100	0.400	< 0.05	0.53	< 0.05	28	4.0	< 2.0	11.0	3.6	
	25-Sep	< 0.10	< 0.100	0.200	< 0.05	< 0.20	< 0.05	53	2.0	< 1.0	10.0	8.8	
	24-Oct	< 0.10	< 0.500	0.500	0.07	< 1.00	< 0.05	66	< 1.0	< 2.0	12.0	3.9	
	Mean		0.10	0.103	0.329	0.05	1.68	0.05	64	3.6	2.1	9.9	4.0
	Maximum		0.10	0.500	0.600	0.07	9.20	0.05	92	10.0	3.0	12.0	8.8
	Minimum		0.10	0.005	0.100	0.05	0.10	0.05	28	1.0	1.0	5.0	1.9
Std. Dev		0.00	0.180	0.198	0.01	3.33	0.00	26	3.4	0.7	2.4	2.4	
No. of D		0	3	5	1	4	0	7	6	0	7	7	
BZ-6M	24-Apr	< 0.10	< 0.005	0.500	< 0.05	0.30	< 0.05	104	< 1.0	< 3.0	8.0	1.8	
	24-May	< 0.10	< 0.005	0.700	< 0.05	< 0.10	< 0.05	92	3.0	< 3.0	10.0	0.8	
	14-Jun	0.20	< 0.005	< 0.100	< 0.05	2.90	< 0.05	32	15.0	< 2.0	10.0	2.9	
	17-Jul	< 0.10	0.008	0.600	< 0.05	0.34	< 0.05	110	6.0	< 2.0	10.0	2.0	
	07-Aug	0.28	< 0.100	0.700	< 0.05	0.30	< 0.05	22	< 1.0	< 2.0	12.0	1.9	
	25-Sep	< 0.10	< 0.100	0.600	< 0.05	< 0.20	< 0.05	51	3.0	< 1.0	12.0	9.2	
	24-Oct	< 0.10	< 0.500	0.500	0.08	< 1.00	< 0.05	56	2.0	< 2.0	10.0	2.4	
	Mean		0.14	0.103	0.529	0.05	0.73	0.05	67	4.4	2.1	10.3	3.0
	Maximum		0.28	0.500	0.700	0.08	2.90	0.05	110	15.0	3.0	12.0	9.2
	Minimum		0.10	0.005	0.100	0.05	0.10	0.05	22	1.0	1.0	8.0	0.8
Std. Dev		0.07	0.180	0.206	0.01	1.00	0.00	35	5.0	0.7	1.4	2.8	
No. of D		2	1	5	1	4	0	7	5	0	7	7	

Table 3-2. (Continued)													
STATION	DATE	NH3	NO2	NO3	PO4	TKN	TP	TDS	TSS	BOD5	ALK	CHL_A	
BZ-6B	24-Apr	< 0.10	< 0.005	0.200	< 0.05	0.30	< 0.05	80	3.0	< 3.0	10.0	1.3	
	24-May	< 0.10	0.005	0.600	< 0.05	< 0.10	< 0.05	80	2.0	< 3.0	10.0	0.6	
	14-Jun	0.10	< 0.005	< 0.100	< 0.05	4.10	< 0.05	44	20.0	< 2.0	9.0	1.1	
	17-Jul	< 0.10	0.010	0.300	< 0.05	0.11	< 0.05	38	4.0	< 2.0	11.0	1.2	
	07-Aug	0.12	< 0.100	0.700	0.06	0.28	< 0.05	22	1.0	< 2.0	12.0	1.0	
	25-Sep	< 0.10	< 0.100	0.400	2.43	< 0.20	1.44	62	10.0	5.0	12.0	1.4	
	24-Oct	< 0.10	< 0.500	< 0.500	0.07	< 1.00	< 0.05	78	< 1.0	< 2.0	12.0	0.5	
	Mean		0.10	0.104	0.400	0.39	0.87	0.25	58	5.9	2.7	10.9	1.0
	Maximum		0.12	0.500	0.700	2.43	4.10	1.44	80	20.0	5.0	12.0	1.4
	Minimum		0.10	0.005	0.100	0.05	0.10	0.05	22	1.0	2.0	9.0	0.5
Std. Dev		0.01	0.180	0.216	0.90	1.46	0.53	23	7.0	1.1	1.2	0.3	
No. of D		2	2	5	3	4	1	7	6	1	7	7	
BZ-7S	24-Apr	< 0.10	< 0.005	0.100	0.06	0.20	< 0.05	74	8.0	< 3.0	5.0	1.4	
	24-May	< 0.10	0.007	0.600	< 0.05	< 0.10	< 0.05	84	3.0	< 3.0	10.0	4.8	
	14-Jun	0.20	< 0.006	< 0.100	< 0.05	5.00	< 0.05	40	8.0	< 2.0	9.0	3.3	
	17-Jul	< 0.10	0.006	0.400	< 0.05	0.11	< 0.05	44	11.0	< 2.0	14.0	5.4	
	07-Aug	< 0.10	< 0.100	0.300	0.05	0.41	< 0.05	18	12.0	< 2.0	14.0	5.6	
	25-Sep	< 0.10	< 0.100	0.200	0.06	< 0.20	< 0.05	47	2.0	< 1.0	10.0	5.9	
	24-Oct	< 0.10	< 0.500	< 0.500	0.06	< 1.00	< 0.05	46	< 1.0	< 2.0	10.0	4.0	
	Mean		0.11	0.103	0.314	0.05	1.00	0.05	50	6.4	2.1	10.3	4.3
	Maximum		0.20	0.500	0.600	0.06	5.00	0.05	84	12.0	3.0	14.0	5.9
	Minimum		0.10	0.005	0.100	0.05	0.10	0.05	18	1.0	1.0	5.0	1.4
Std. Dev		0.04	0.180	0.195	0.01	1.79	0.00	22	4.4	0.7	3.1	1.6	
No. of D		1	3	5	4	4	0	7	6	0	7	7	
BZ-7M	24-Apr	0.20	< 0.005	0.100	< 0.05	0.30	< 0.05	92	3.0	< 3.0	8.0	3.4	
	24-May	< 0.10	0.007	0.700	< 0.05	< 0.10	< 0.05	88	3.0	< 3.0	12.0	3.1	
	14-Jun	< 0.10	< 0.006	< 0.100	0.06	4.10	< 0.05	34	6.0	< 2.0	10.0	6.0	
	17-Jul	< 0.10	0.011	0.500	< 0.05	0.34	< 0.05	34	7.0	< 2.0	12.0	1.1	
	07-Aug	< 0.10	< 0.100	0.500	0.08	0.47	< 0.05	32	11.0	< 2.0	16.0	3.5	
	25-Sep	< 0.10	< 0.100	0.200	0.05	< 0.20	< 0.05	46	2.0	6.0	12.0	5.9	
	24-Oct	< 0.10	< 0.500	< 0.500	0.09	< 1.00	< 0.05	58	1.0	< 2.0	12.0	3.9	
	Mean		0.11	0.104	0.371	0.06	0.93	0.05	55	4.7	2.9	11.7	3.8
	Maximum		0.20	0.500	0.700	0.09	4.10	0.05	92	11.0	6.0	16.0	6.0
	Minimum		0.10	0.005	0.100	0.05	0.10	0.05	32	1.0	2.0	8.0	1.1
Std. Dev		0.04	0.180	0.236	0.02	1.43	0.00	26	3.5	1.5	2.4	1.7	
No. of D		1	3	5	4	4	0	7	7	1	7	7	

Table 3-2. (Continued)													
STATION	DATE	NH3	NO2	NO3	PO4	TKN	TP	TDS	TSS	BOD5	ALK	CHL_A	
BZ-7B	24-Apr	< 0.10	< 0.005	0.100	0.06	0.20	< 0.05	84	8.0	< 3.0	10.0	1.2	
	24-May	0.20	0.005	0.600	< 0.05	< 0.10	< 0.05	84	1.0	< 3.0	12.0	0.4	
	14-Jun	< 0.10	0.005	< 0.100	0.07	4.60	< 0.05	34	11.0	< 2.0	10.0	1.5	
	17-Jul	< 0.10	0.008	0.400	< 0.05	0.26	< 0.05	28	11.0	< 2.0	14.0	0.5	
	07-Aug	0.11	< 0.100	0.600	0.09	0.36	< 0.05	46	5.0	< 2.0	14.0	1.0	
	25-Sep	< 0.10	< 0.100	0.400	0.05	< 0.20	< 0.05	63	6.0	2.0	14.0	1.9	
	24-Oct	< 0.10	< 0.500	< 0.500	0.08	< 1.00	< 0.05	68	6.0	< 2.0	12.0	4.2	
Mean		0.12	0.103	0.386	0.06	0.96	0.05	58	6.9	2.3	12.3	1.5	
Maximum		0.20	0.500	0.600	0.09	4.60	0.05	84	11.0	3.0	14.0	4.2	
Minimum		0.10	0.005	0.100	0.05	0.10	0.05	28	1.0	2.0	10.0	0.4	
Std. Dev		0.04	0.180	0.212	0.02	1.63	0.00	23	3.5	0.5	1.8	1.3	
No. of D		2	3	5	5	4	0	7	7	1	7	7	

Ammonia

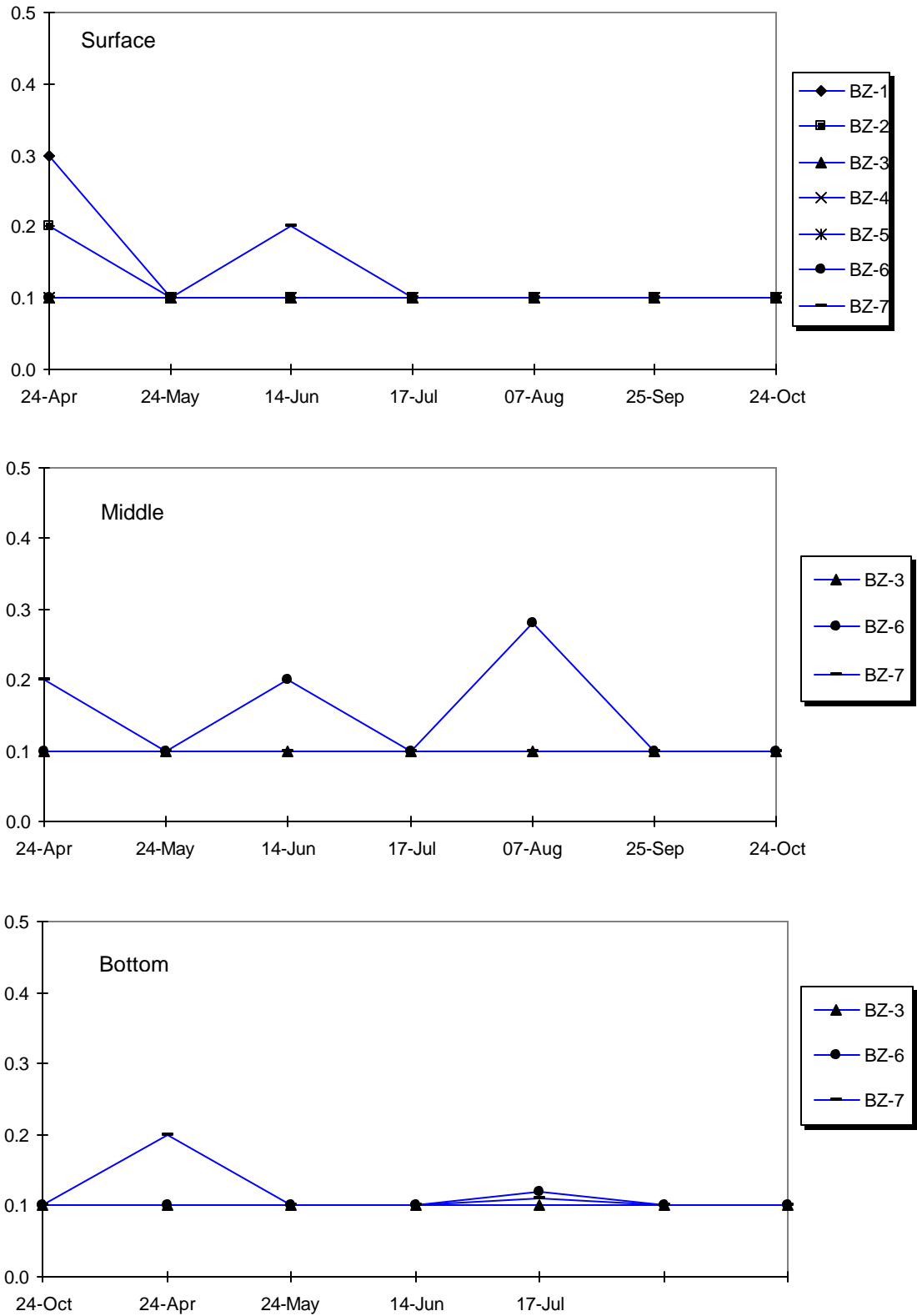


Figure 3-11. Ammonia measured in surface, middle, and bottom waters of Beltzville Reservoir in 2001.

reservoirs usually results in those that are affected by eutrophication. However, high concentrations of ammonia were not observed on later monitoring dates in September and October when hypoxia was present in the lower water column.

Concentrations of ammonia measured at Beltzville Reservoir were in compliance with the PADEP water quality standards during 2001. The state water quality standard for ammonia is dependent on temperature and pH (Table 3-3). Throughout the monitoring period, the most conservative criterion for ammonia resulting from the highest measured pH (8.6) and temperature (30 °C) was 0.6-mg/L.

pH	10°C	15°C	20°C	25°C	30°C
6.50	25.5	17.4	12.0	8.4	5.9
6.75	23.6	16.0	11.1	7.7	5.5
7.00	20.6	14.0	9.7	6.8	4.8
7.25	16.7	11.4	7.8	5.5	3.9
7.50	12.4	8.5	5.9	4.1	2.9
7.75	8.5	5.8	4.0	2.8	2.0
8.00	5.5	5.8	4.0	2.8	2.0
8.25	3.4	2.3	1.6	1.2	0.9
8.50	2.0	1.4	1.0	0.7	0.6
8.75	1.2	0.9	0.6	0.5	0.4
9.00	0.8	0.5	0.4	0.3	0.3
9.25	0.36	0.24	0.17	0.12	0.08
9.50	0.20	0.13	0.10	0.07	0.05

Seasonal trends for ammonia in surface water were determined for individual stations using the non-parametric Mann-Kendall statistic. The statistical analysis was conducted for stations with historical data (21 years or more), individually for spring (April through June) and summer (July through September) seasons. Data from seven stations were analyzed representing downstream (BZ-1), Pine Run (BZ-2), the reservoir-body (BZ-3, -6, and -7), Wild Creek (BZ-4), and upstream on Pohopoco Creek (BZ-5). Ammonia concentrations appear to be decreasing throughout the Beltzville Reservoir watershed (Table 34). From the analysis, stations BZ-1, -2, -3, -4, and -5 showed significant and decreasing trends. Rates of decrease were greater during the summer season and ranged from 0.001 to 0.004 mg/L/year. Stations BZ-1 and -5 also had significant decreasing spring season rates of 0.001 mg/L/year.

Table 3-4. Seasonal trends of ammonia concentration at individual stations of Beltzville Reservoir calculated with the Mann-Kendall Statistic. Shaded values are significant (at least $P < 0.05$).					
Station	# of Years spring/summer	Spring		Summer	
		P Level	Rate (mg/)	P Level	Rate (mg/L)
Surface Water					
BZ-1	24/23	<0.05	-0.001	<0.001	-0.004
BZ-2	22	NS	-0.001	<0.05	-0.001
BZ-3	26/25	NS	-0.001	<0.01	-0.003
BZ-4	25/24	NS	-0.001	<0.01	-0.002
BZ-5	25	<0.001	-0.001	<0.001	-0.003
BZ-6	6	NS	0.009	NS	0.005
BZ-7	6	NS	0.005	NS	0.008

3.2.2 Nitrite and Nitrate

Nitrite concentrations in the water column of Beltzville Reservoir were very low during 2001 (Fig. 3-12). Concentrations measured at all stations and depths were less than the method detection limit of 0.5-mg/L throughout the monitoring period.

Nitrate was distributed uniformly in the water column of Beltzville Reservoir during 2001 (Fig. 3-13). At most stations and depths, concentrations ranged from less than the method detection limit (0.1-mg/L) to 0.8-mg/L. Concentrations in surface water from the reservoir-body stations (BZ-3, -6, and -7) were similar to those from middle and bottom depths. Overall, concentrations appeared to average 0.4-mg/L throughout the monitoring period. Concentrations of nitrate upstream of the reservoir on Pohopoco Creek (BZ-5) were usually highest and over the monitoring period ranged from 0.1 to 1.2-mg/L. Nitrate measured downstream of the reservoir (BZ-1) was consistent over the monitoring period at about 0.4-mg/L. This average was consistent with all other stations.

Beltzville Reservoir was in compliance with the PADEP water quality standard for nitrite and nitrate during 2001. The standard is a summed concentration of nitrite and nitrate of less than 10 mg/L. Throughout the monitoring period, the summed concentrations for all stations averaged 0.5-mg/L with maximum values of 1.3-mg/L in August and October at BZ-5

3.2.3 Total Inorganic Nitrogen

Concentrations of total inorganic nitrogen have not changed appreciably over the past 26 years in surface waters of Beltzville Reservoir or downstream of the reservoir in either spring or summer seasons (Figs. 3-14 and 3-15).

Nitrite

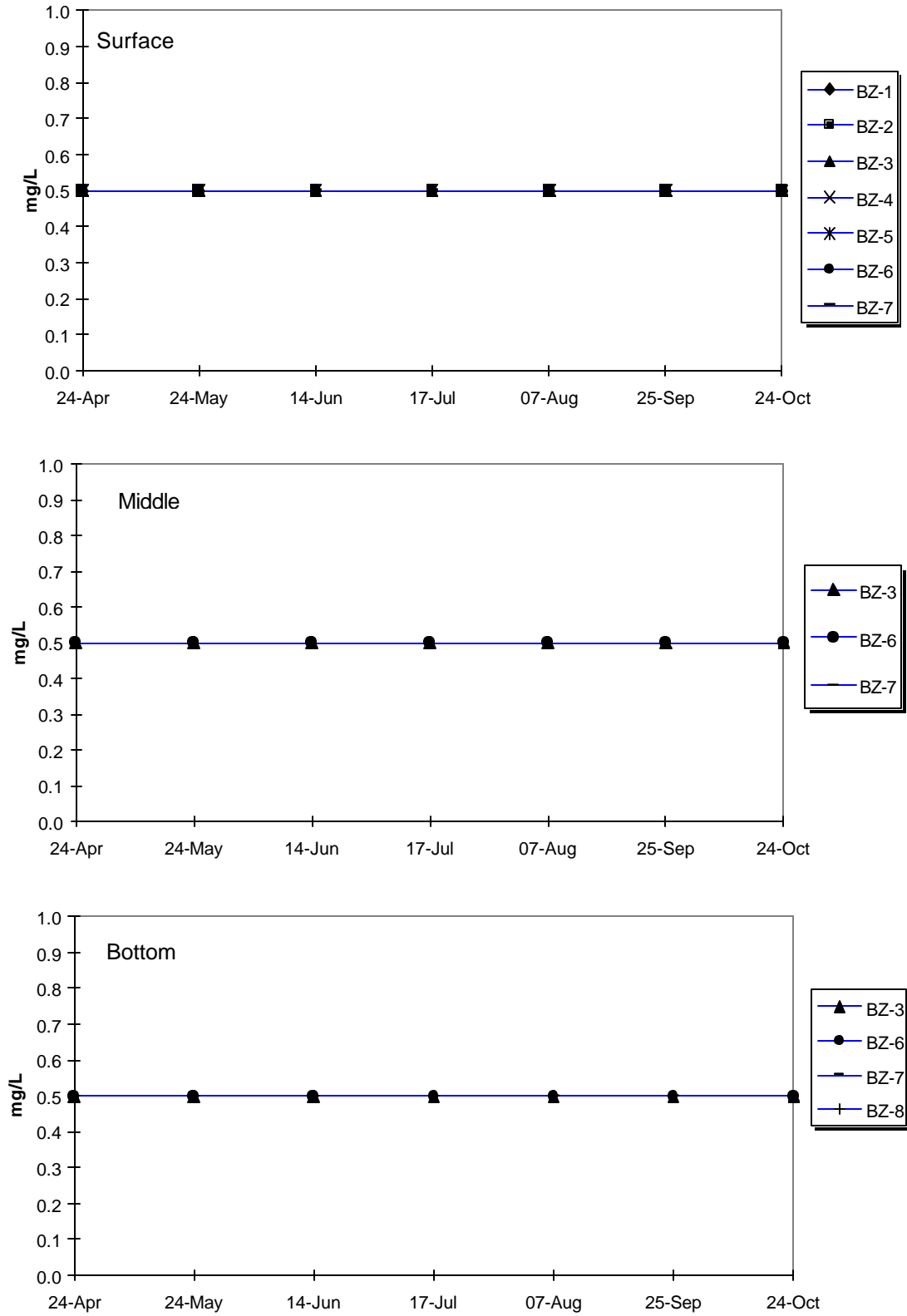


Figure 3-12. Nitrite measured in surface, middle, and bottom waters of Beltzville Reservoir in 2001.

Nitrate

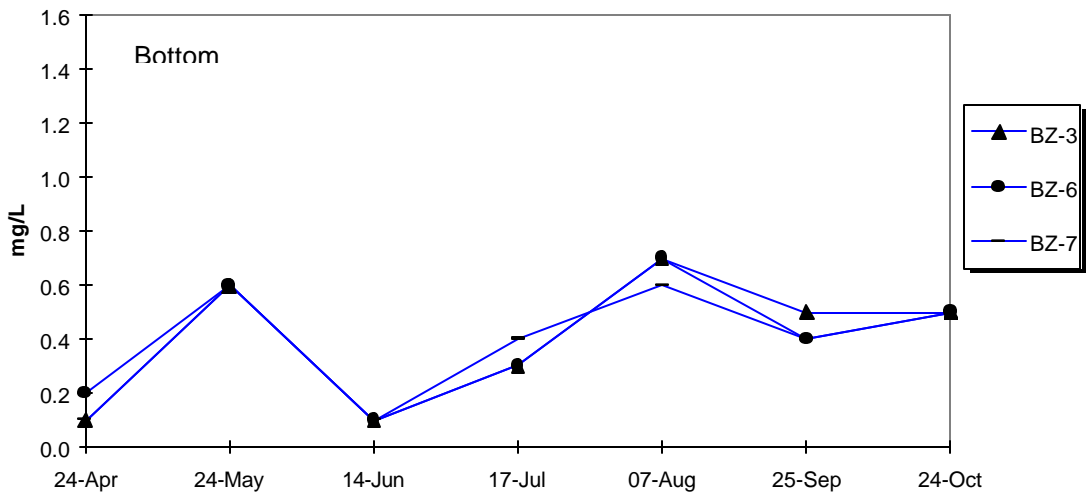
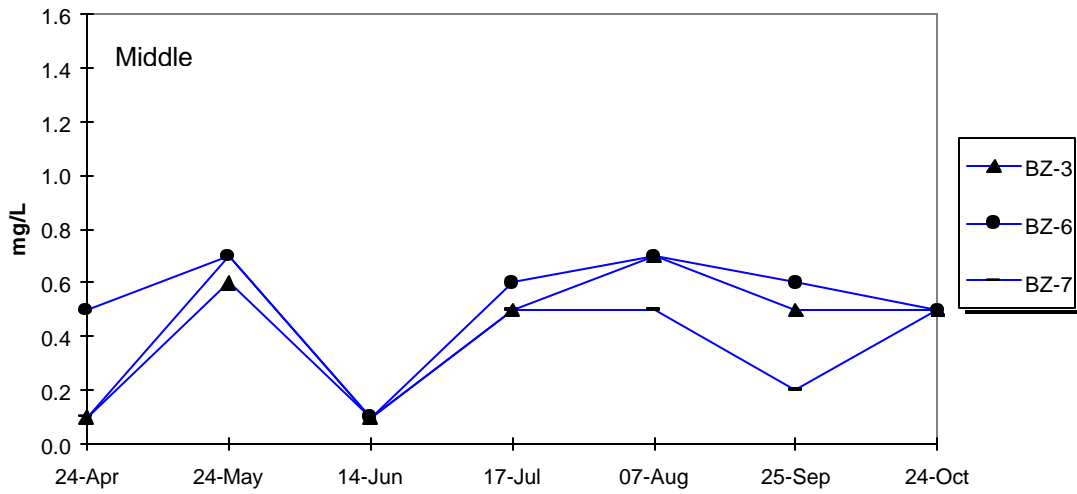
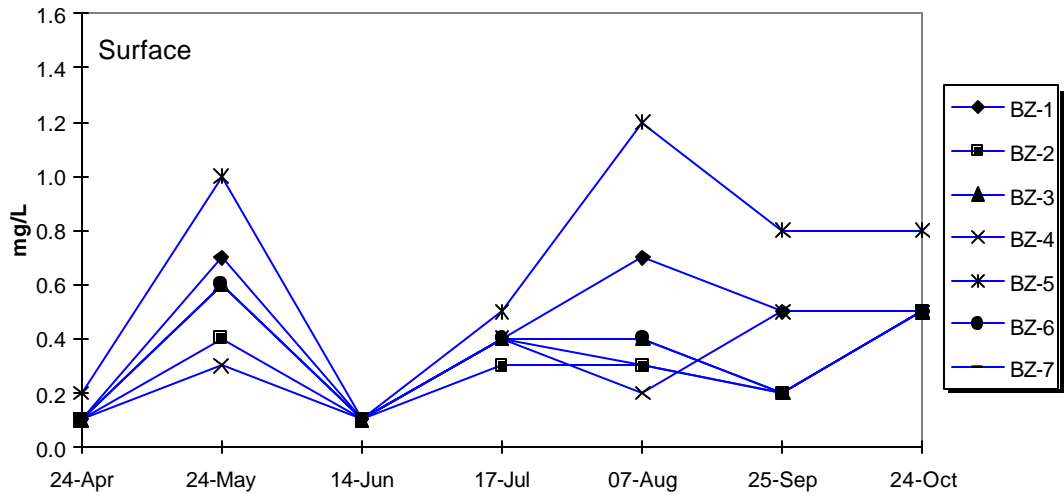


Figure 3-13. Nitrate measured in surface, middle, and bottom waters of Beltville Reservoir in 2001.

Total Nitrogen *Spring*

3-25

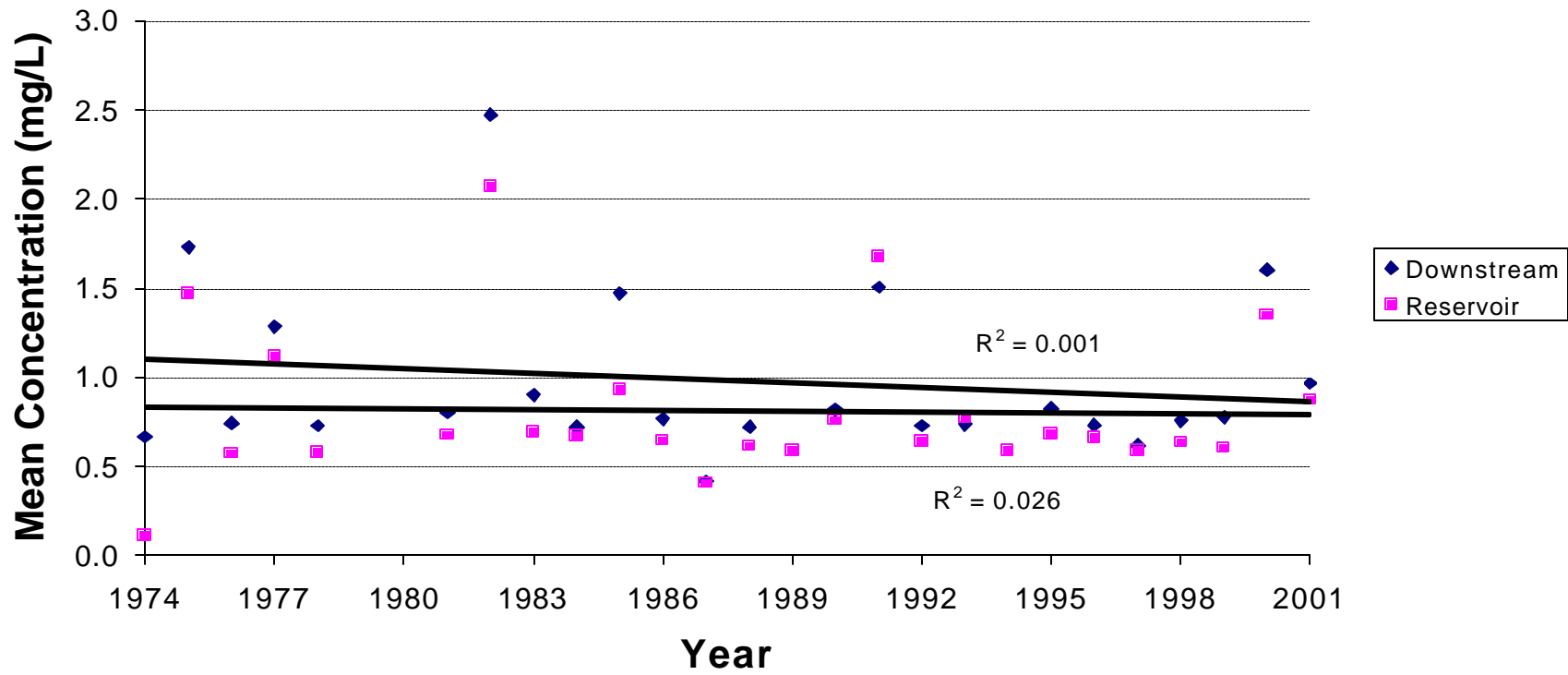
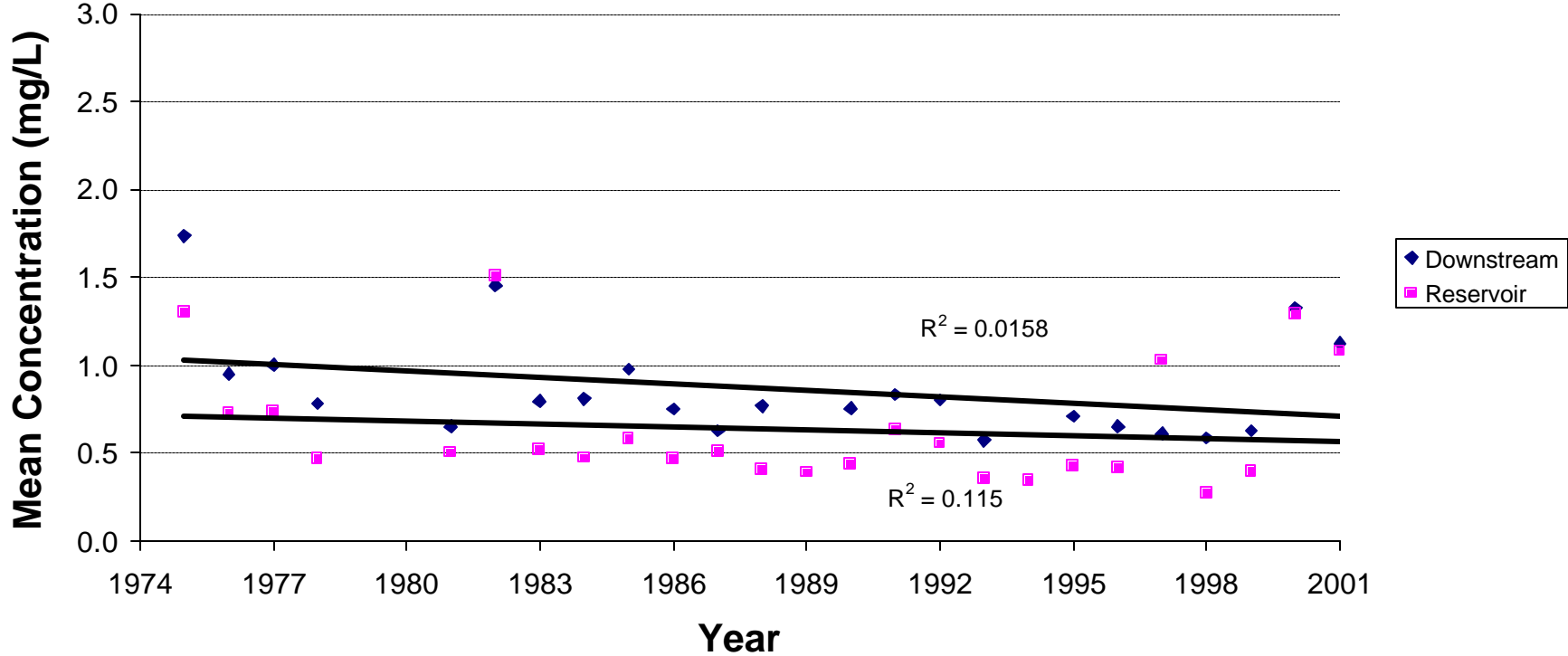


Figure 3-14. Seasonal trends of total nitrogen (ammonia + nitrite + nitrate) in the spring at Beltzville Reservoir.

Total Nitrogen *Summer*



3-26

Figure 3-15. Seasonal trends of total nitrogen (ammonia + nitrite + nitrate) in the summer at Beltzville Reservoir.

Seasonal trends (spring and summer) for total nitrogen in surface water were also determined for individual stations using the non-parametric Mann-Kendall statistic. Total inorganic nitrogen, calculated as the summed concentration of ammonia, nitrite, and nitrate, was analyzed separately for reservoir and upstream stations (BZ-2, -3, -4, -5, -6, and -7) and downstream of the reservoir (station BZ-1). Regression analyses conducted on the average concentrations indicated significant decreasing trends for stations BZ-1, -3, and -4 during the summer period. Throughout the 26-year time series, total nitrogen concentrations generally averaged less than 0.8-mg/L; however, in 2001, concentrations were slightly higher at about 1.0-mg/L.

Table 3-5. Seasonal trends of total nitrogen at individual stations of Beltzville Reservoir calculated with the Mann-Kendall Statistic. Shaded values are significant at P – 0.05.

Station	# of Years Spring/Summer	Spring		Summer	
		P Level	Rate (mg/L)	P Level	Rate
Surface Water					
BZ-1	24/23	NS	-0.004	< 0.01	-0.01
BZ-2	22	NS	-0.002	NS	0.002
BZ-3	26/25	NS	-0.002	< 0.05	-0.08
BZ-4	25/24	NS	-0.004	< 0.05	-0.01
BZ-5	25	NS	-0.007	NS	0.03
BZ-6	6	NS	-0.03	NS	0.02
BZ-7	6	NS	-0.05	NS	0.008

3.2.4 Total Kjeldahl Nitrogen

For the most part, total Kjeldahl nitrogen (TKN) was uniformly low in the water column of Beltzville Reservoir during 2001 (Fig. 3-16). Throughout the monitoring period, concentrations measured at all depths generally ranged less than 1.2-mg/L. In June; however, concentrations averaged 2.3-mg/L and ranged as high as 4.6-mg/L. Concentrations measured at upstream stations BM-2, -4, and -5 were 2.7, 2.95, and 1.45-mg/L, respectively. Concentrations were also elevated within the reservoir body at stations BZ-3, -6, and -7 and below the reservoir at station BZ-1. Concentrations at these stations measured 2.85, 4.6, 2.5, and 2.15-mg/L, respectively.

Total Kjeldahl Nitrogen

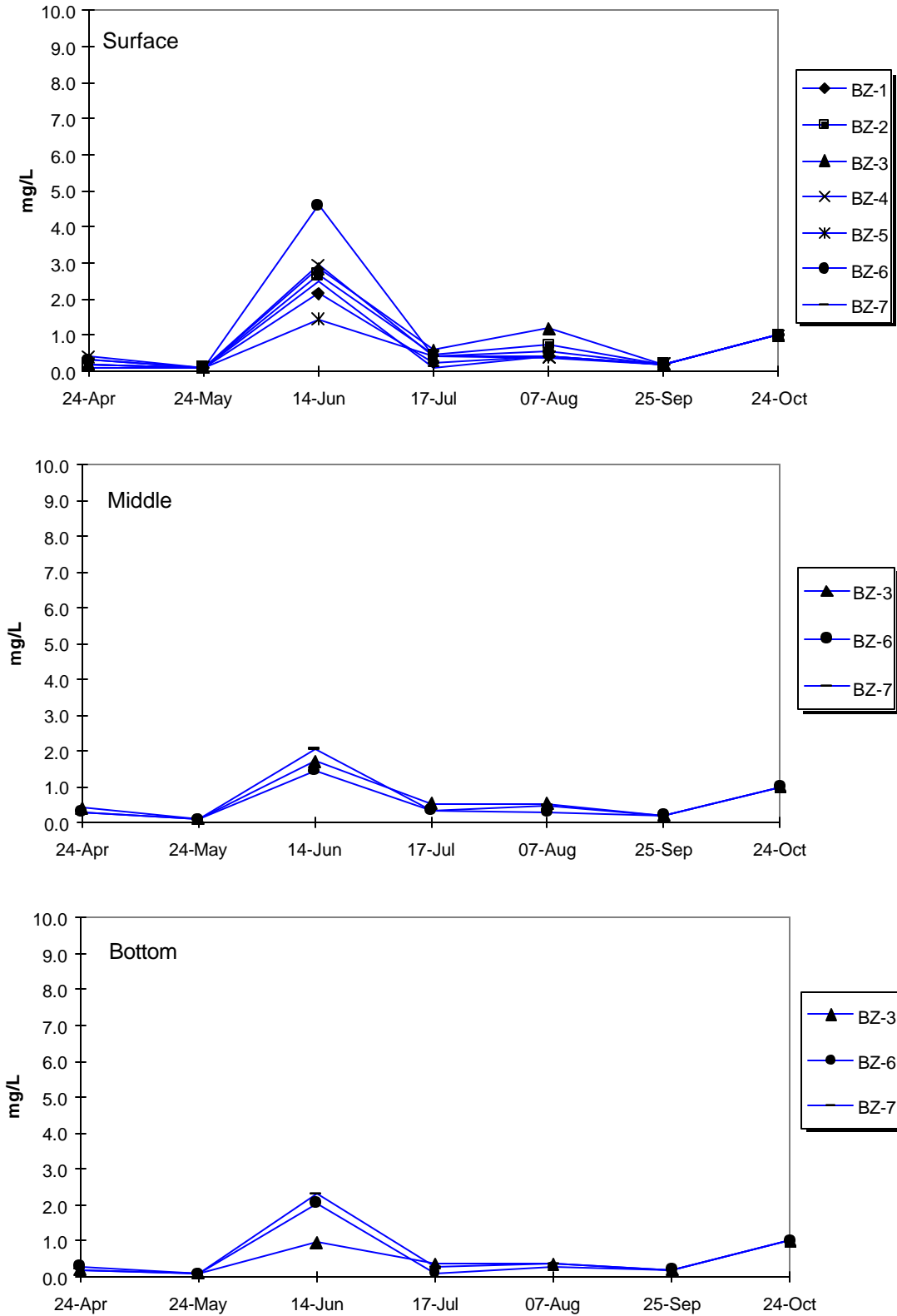


Figure 3-16. Total Kjeldahl nitrogen measured in surface, middle, and bottom waters of Beltzville Reservoir in 2001.

3.2.5 Dissolved Phosphate

Dissolved phosphate was not a significant nutrient parameter at Beltzville Reservoir in 2001 (Fig. 3-17). Concentrations of dissolved phosphate were generally at or below the detection limit of 0.05-mg/L. Two isolated instances of high values were recorded during August at BZ-2 in the surface water and in September at BZ-6 in the bottom water. These concentrations were 1.2 and 2.4-mg/L, respectively. In freshwater environments, dissolved phosphate is usually a limiting nutrient and is readily taken up by freshwater plants and algae.

3.2.6 Total Phosphorus

Total phosphorus in the water column of Beltzville Reservoir was consistently measured at low concentrations during 2001 (Fig. 3-18). EPA guidance for nutrient criteria in lakes and reservoirs suggests a minimum concentration for total phosphorus of 0.01-mg/L (EPA 2000). Lakes and reservoirs exceeding this concentration are more likely to experience algal bloom problems during the growing season. Overall, only three measures for total phosphorus with results greater than the detection limit from reservoir monitoring were greater than the EPA guideline. High measures of total phosphorus were recorded in the surface waters at station BZ-5 (0.1-mg/L) in September and BZ-1 (0.7-mg/L) in October. Additionally, a high concentration of total phosphorus was present in the bottom water at BZ-6 (1.4-mg/L) in September. All remaining results were less than the detection limit of 0.05-mg/L, which is a concentration 5 times greater than the guideline.

Total phosphorus concentrations measured during 2001 and historical data from the past 26 years were analyzed for seasonal trends. Regression analyses for spring and summer periods were conducted separately for stations of the reservoir and downstream. No trends were determined for either season at reservoir and downstream stations (Figs. 3-19 and 3-20). None of the regression lines were significant ($P > 0.05$).

Trend analyses for total phosphorus were also conducted for individual monitoring stations of Beltzville Reservoir using the non-parametric Mann-Kendall statistic. As before, the trends were calculated separately for spring and summer seasons. Stations analyzed for the seasonal trends included BZ-1, -2, -3, -4, -5, -6, and -7. From these stations, historical data on total phosphorus spanned a maximum of 21 years. Only one significant trend resulted from the analysis. A significant decreasing trend in summer was determined for station BZ-4 on the Wild Creek tributary (Table 3-6). The estimated rate of decrease for this trend was 0.004-mg/L/year.

Dissolved Phosphate

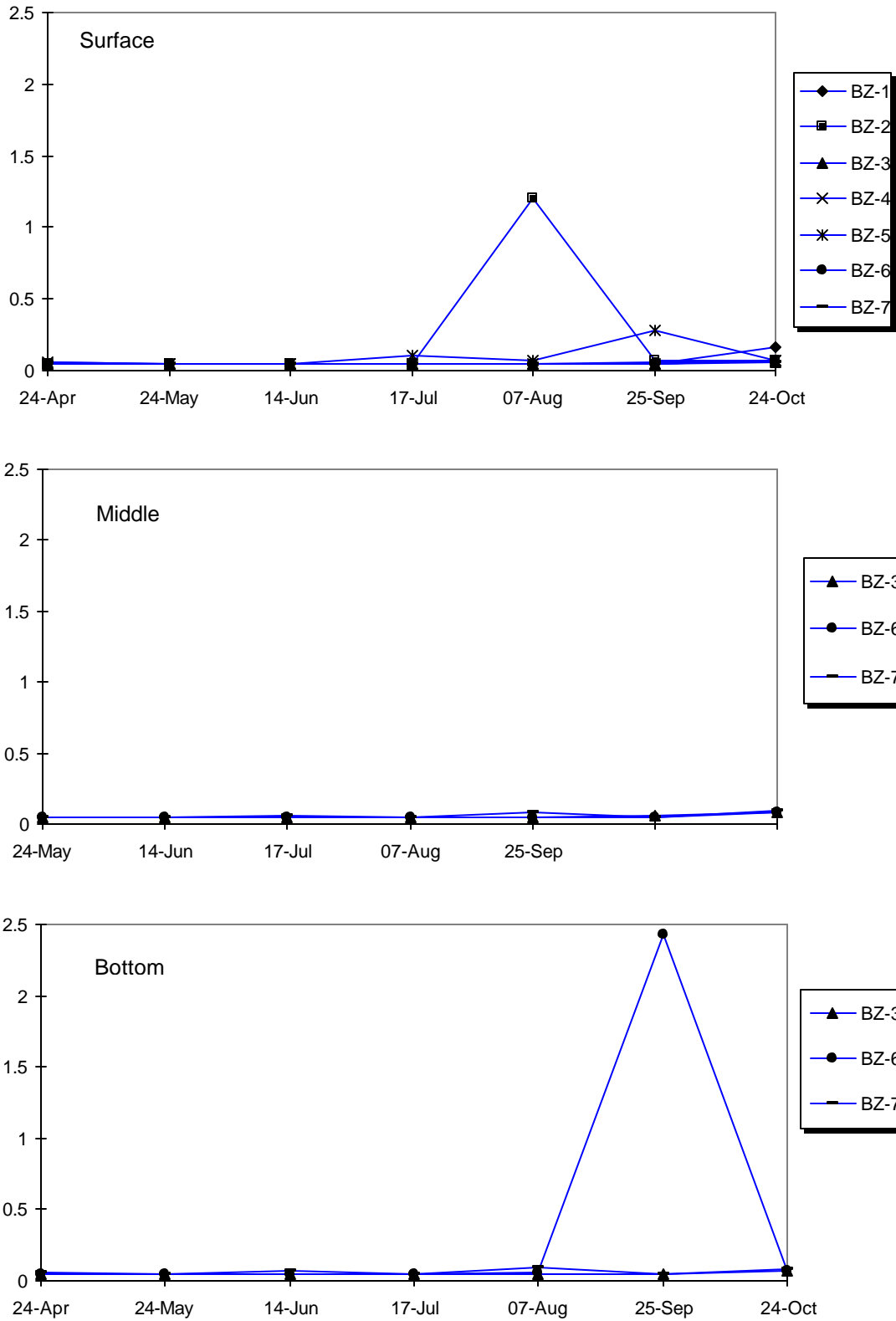


Figure 3-17. Dissolved phosphorus measured in surface, middle, and bottom waters of Beltzville Reservoir in 2001.

Total Phosphorus

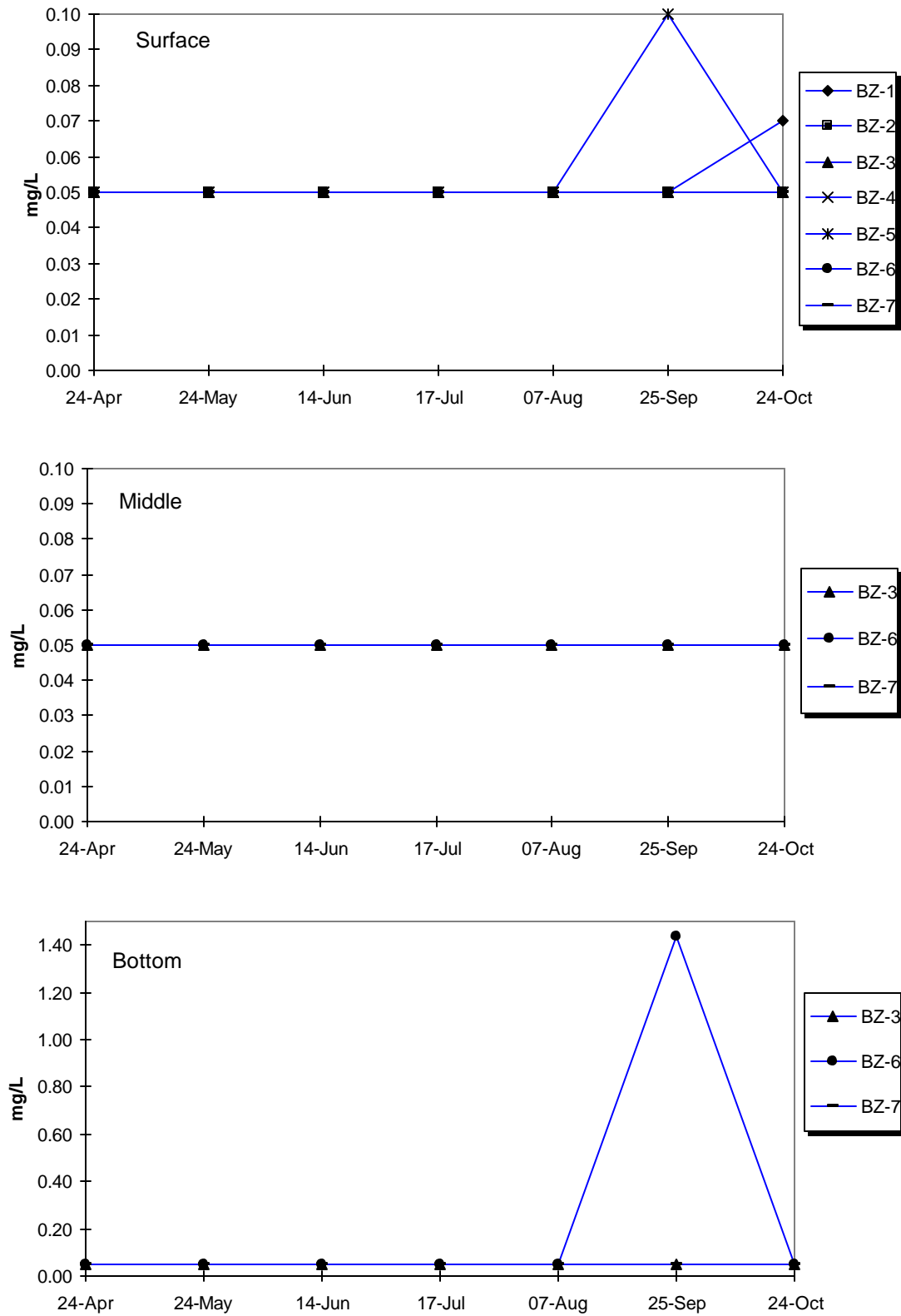


Figure 3-18. Total phosphorus measured in surface, middle, and bottom waters of Beltzville Reservoir in 2001.

Total Phosphorus *Spring*

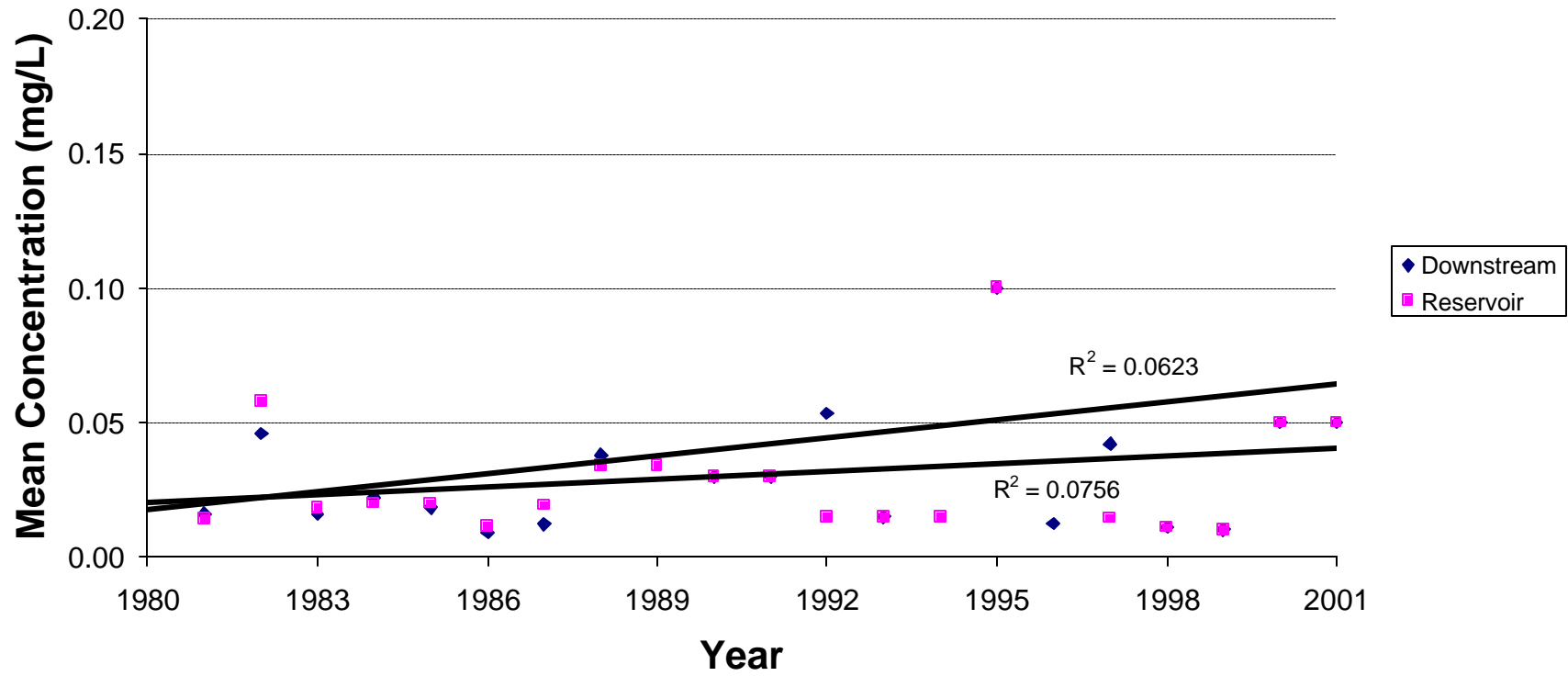


Figure 3-19. Seasonal trends of total phosphorus in spring at Beltzville Reservoir.

Total Phosphorus *Summer*

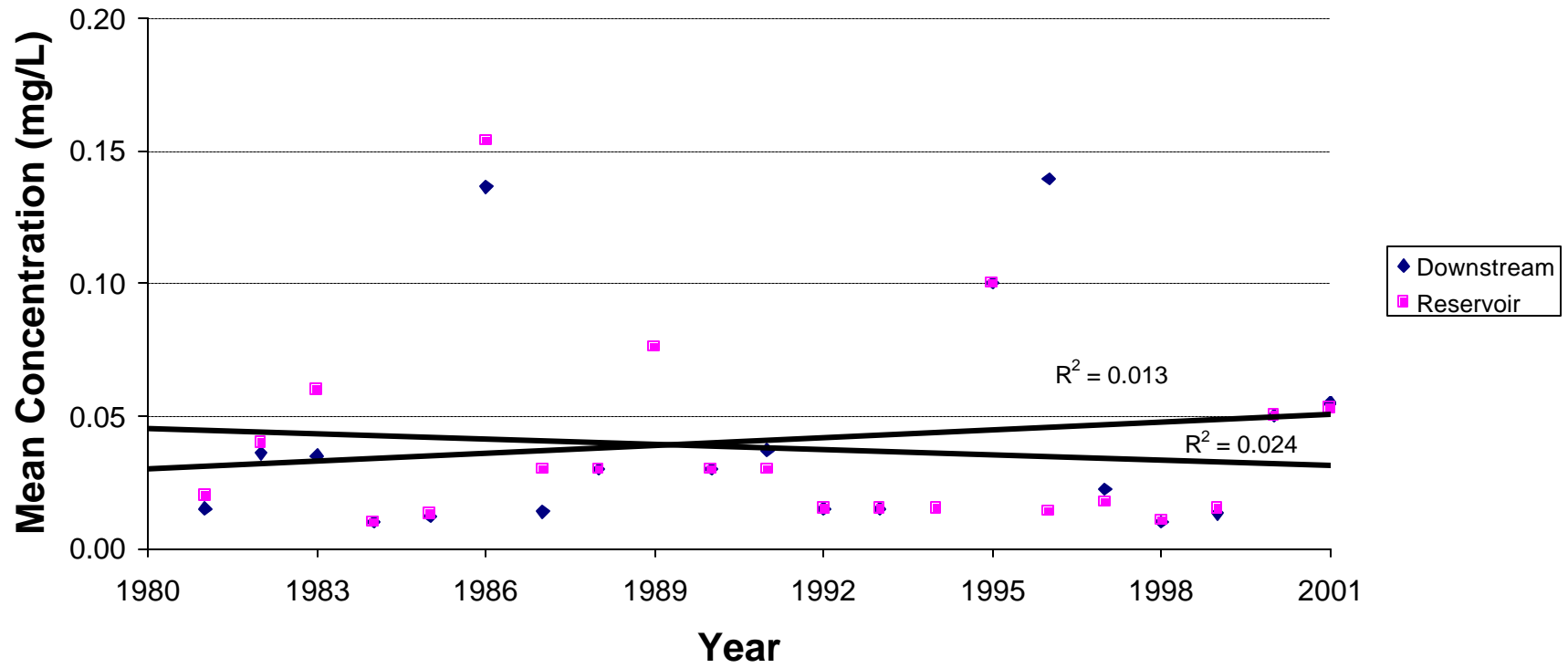


Figure 3-20. Seasonal trends of total phosphorus in summer at Beltzville Reservoir.

Table 3-6. Seasonal trends of total phosphorus concentration at individual stations of Beltzville Reservoir calculated with the Mann-Kendall Statistic. Shaded values are significant (at least $P < 0.05$).					
Station	# of Years spring/summer	Spring		Summer	
		P Level	Rate (mg/L)	P Level	Rate (mg/L)
Surface Water					
BZ-1	19	NS	0.0	NS	0.0003
BZ-2	21	NS	0.09	NS	-0.0004
BZ-3	22/21	NS	-0.13	NS	-0.0003
BZ-4	21/20	NS	0.28	<0.05	-0.004
BZ-5	21	NS	-0.09	NS	-0.00001
BZ-6	5	NS	5.75	NS	0.007
BZ-7	5	NS	6.44	NS	0.006

3.2.7 Total Dissolved Solids

Concentrations of total dissolved solids (TDS) in the water column of Beltzville Reservoir were variable during 2001 (Fig. 3-21). The variability among measures was different on each monitoring date, and patterns of consistency for individual stations were not easily discernible. Concentrations among all stations and depths ranged from 10 to 104-mg/L. Overall, measures of TDS at all stations and depths averaged 60-mg/L.

TDS concentrations measured at Beltzville Reservoir in 2001 were in compliance with PADEP water quality standards. The state water quality standard for TDS is a maximum concentration of 500 mg/L. Throughout the monitoring period, all measures of TDS were at least 5 times less than the standard (Fig. 3-21).

Total dissolved solids concentrations have exhibited no discernible pattern over the past 26 years of water quality monitoring at Beltzville Reservoir. Regression analyses conducted separately by season for upstream and downstream data did not result in any significant trends (Figs. 3-22 and 3-23). Average TDS concentrations calculated this year were slightly higher than recent years.

Seasonal trends (spring and summer) for total dissolved solids in surface water were also determined for individual stations using the non-parametric Mann-Kendall statistic. Overall, seven stations were tested representing downstream (BZ-1), Pine Run (BZ-2), mid-reservoir (BZ-3, -6, and -7), Wild Creek (BZ-4), and upstream on Pohopoco Creek (BZ-5). Concentrations of total dissolved solids appear to have decreased in many of the surface waters of Beltzville Reservoir over the past two decades (Table 3-7). Significant

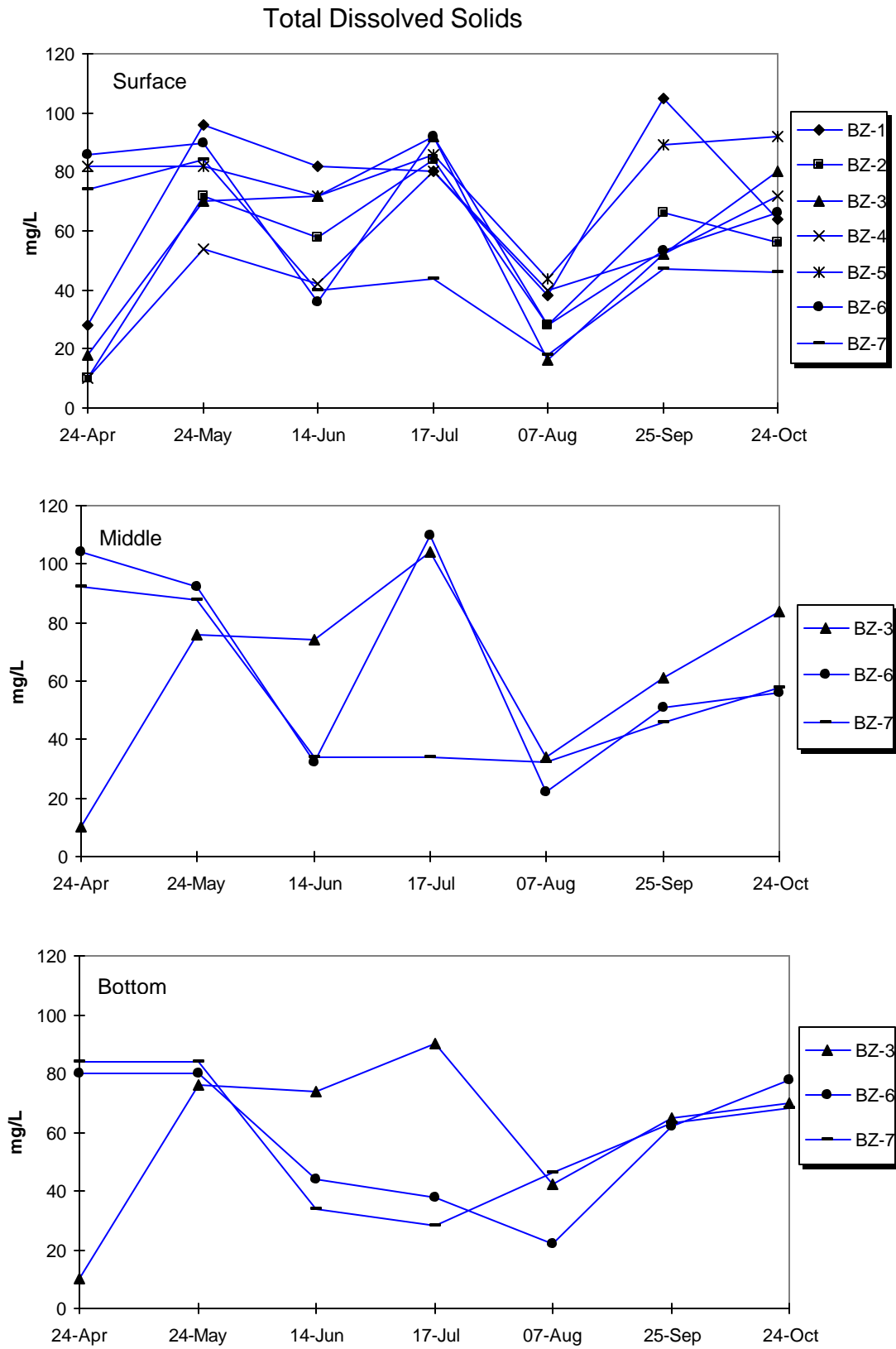


Figure 3-21. Total dissolved solids in surface, middle, and bottom waters of Beltzville Reservoir in 2001. (The PADEP water quality standard for TDS is a maximum concentration of 500 mg/l.)

Total Dissolved Solids *Spring*

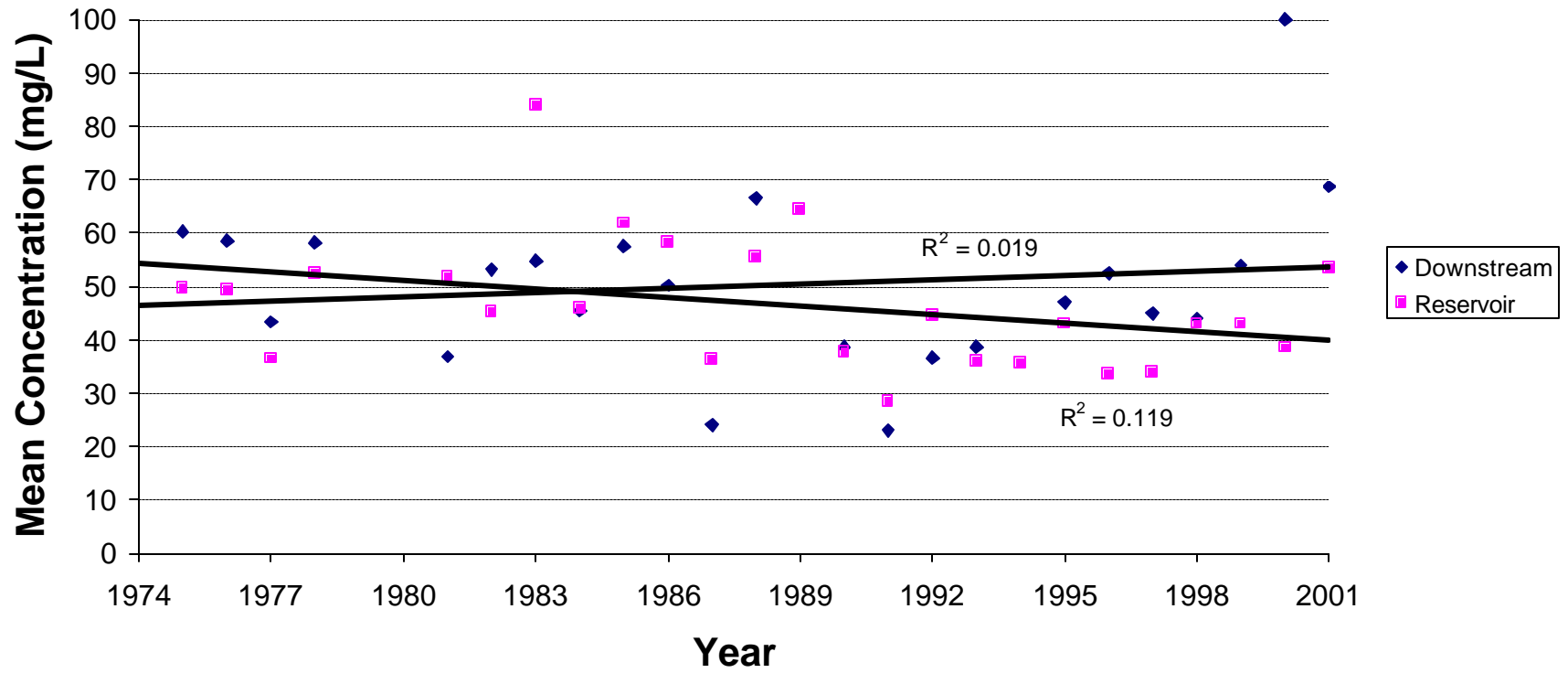


Figure 3-22. Seasonal trends of total dissolved solids in spring at Beltzville Reservoir.

Total Dissolved Solids *Summer*

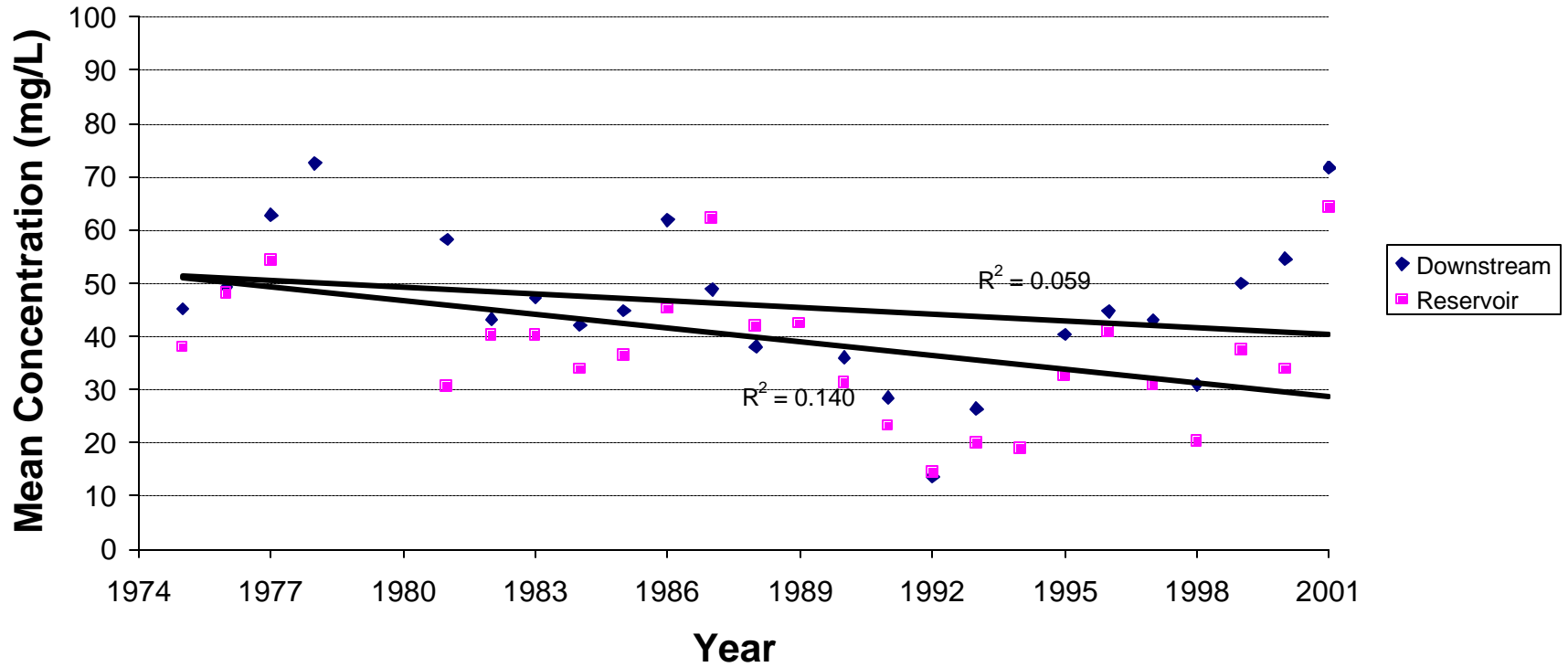


Figure 3-23. Seasonal trends of total dissolved solids in summer at Beltzville Reservoir.

decreasing trends were observed in the mid-reservoir (station BZ-3) during both seasons as well as for Pine Creek and Wild Creek tributaries (stations BZ-2 and BZ-4) in the summer. The estimated rates of decrease among all trends were similar at about 0.8-mg/L/year. A significant increasing trend was seen at station BZ-6 during the spring period. The rate of increase was 11.5-mg/L/yr.

Table 3-7. Seasonal trends of total dissolved solids concentration at individual stations of Beltzville Reservoir calculated with the Mann-Kendall Statistic. Shaded values are significant (at least P<0.05).					
Station	# of Years spring/summer	Spring		Summer	
		P Level	Rate (mg/L)	P Level	Rate (mg/L)
Surface Water					
BZ-1	23	NS	-0.047	NS	-0.527
BZ-2	22	NS	-0.583	<0.05	-1.02
BZ-3	25	<0.05	-0.579	<0.05	-0.742
BZ-4	24	NS	-0.342	<0.05	-0.922
BZ-5	25	NS	0.105	NS	-0.487
BZ-6	6	<0.05	11.5	NS	5
BZ-7	6	NS	5.5	NS	-2.33

3.2.8 Total Suspended Solids

Total suspended solids (TSS) concentrations in the water column of Beltzville Reservoir were generally low during 2001 (Fig. 324). In general, concentrations measured at most stations and depths ranged less than 20 mg/L. Higher concentrations were measured in September at the surface of station BZ-5 and in the bottom waters of station BZ-3 in October. The concentration of TSS at BZ-5 was 73-mg/L and 36-mg/L at BZ-3.

3.2.9 Biochemical Oxygen Demand

Biochemical oxygen demand (BOD) is a measure of the oxygen-depleting burden imposed by organic material present in water. BOD concentrations in the water column of Beltzville Reservoir were relatively low in 2001 (Fig. 3-25). Throughout the monitoring period, concentrations measured at 91% of all stations and depths were typically less than the method detection limit (1 to 3-mg/L). BOD was detected at all stations and throughout the water column in September and only once in August on Wild Creek (BZ-4). Concentrations at all stations and depths in the water column averaged 2.3-mg/L throughout the monitoring period.

Total Suspended Solids

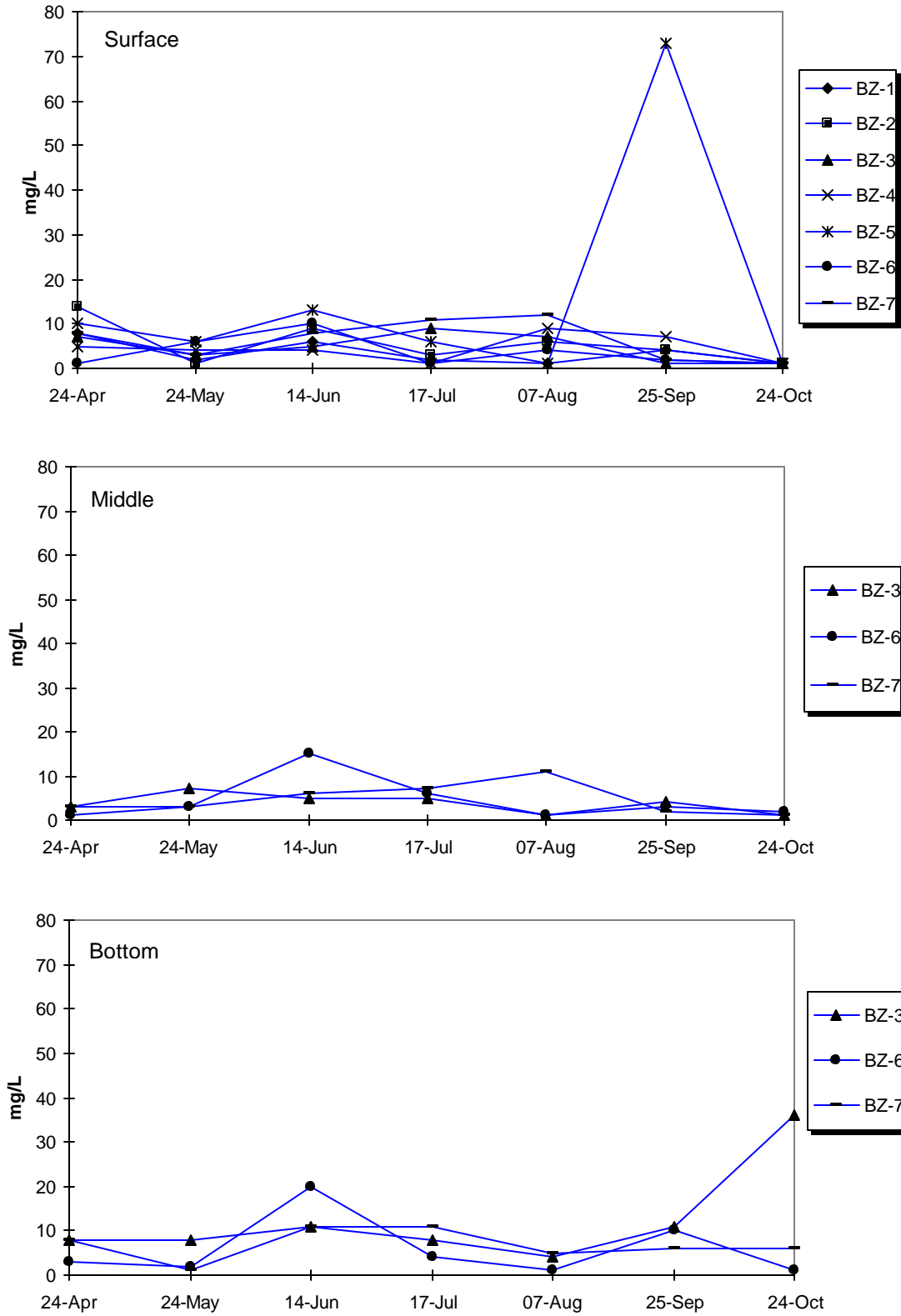


Figure 3-24. Total suspended solids in surface, middle, and bottom waters of Beltzville Reservoir in 2001.

Biochemical Oxygen Demand

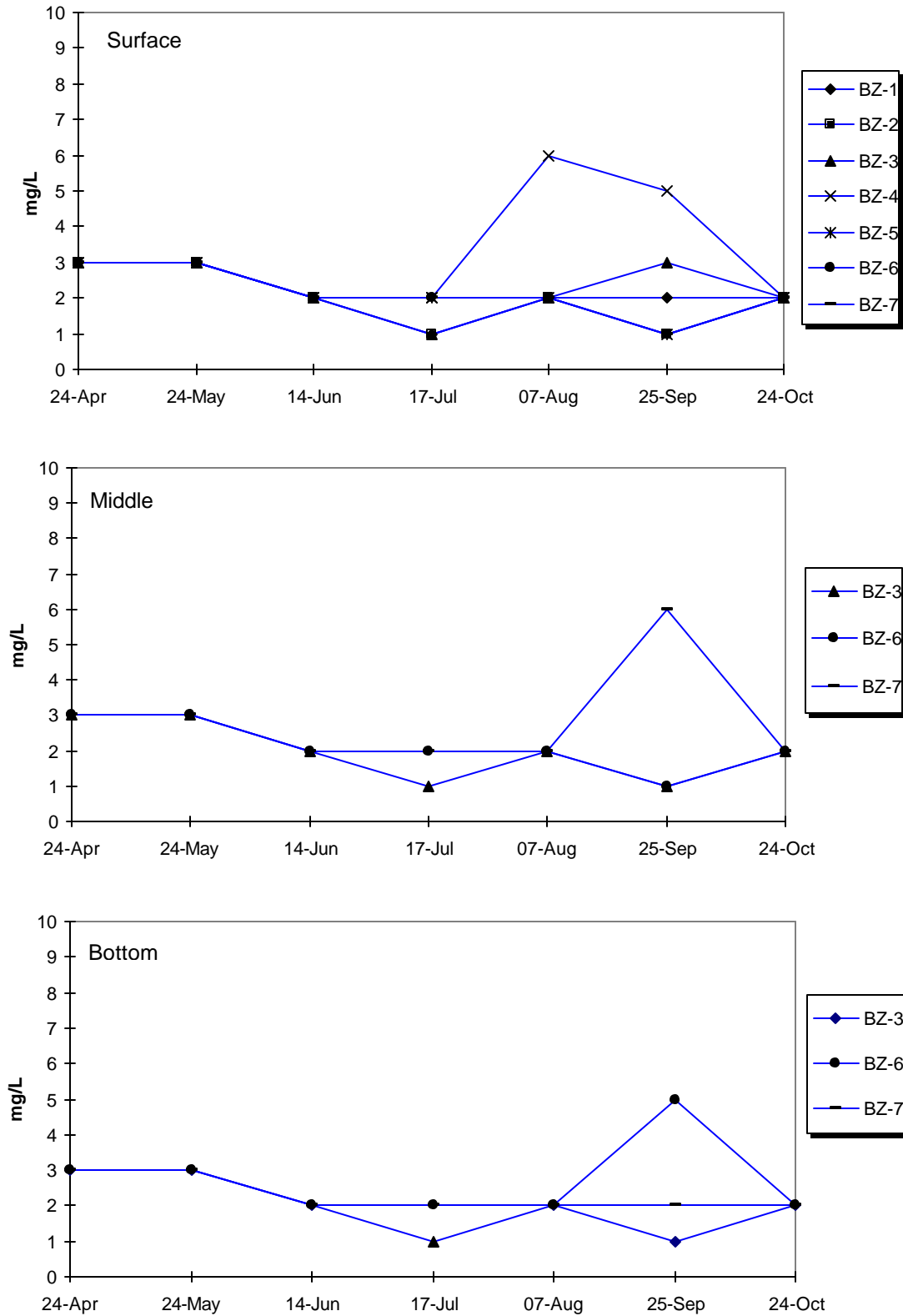


Figure 3-25. Biochemical oxygen demand in surface, middle, and bottom waters of Beltzville Reservoir in 2001.

Based on trend analyses using 2001 and historical data, BOD does not appear to have changed significantly in the reservoir or downstream (Figs. 3-26 and 3-27). Although the regression lines for both spring and summer seasons suggested a slight reduction in BOD concentrations, none of the trends were significant ($P > 0.05$).

A trend analysis for BOD was also conducted on individual monitoring stations of Beltzville Reservoir using the non-parametric Mann-Kendall statistic (Table 3-8). Based on this analysis, a significant decreasing summer trend was determined for station BZ-1, downstream of the reservoir. The estimated rate of decrease ranged was 0.03-mg/L/year.

Table 3-8. Seasonal trends of total BOD concentration at individual stations of Beltzville Reservoir calculated with the Mann-Kendall Statistic. Shaded values are significant (at least $P < 0.05$).					
Station	# of Years spring/summer	Spring		Summer	
		P Level	Rate (mg/L)	P Level	Rate (mg/L)
Surface Water					
BZ-1	19	NS	-0.003	<0.01	-0.03
BZ-2	21	NS	0.0	NS	-0.004
BZ-3	21	NS	-0.02	NS	-0.009
BZ-4	20	NS	0.0	NS	0.0
BZ-5	21	NS	0.0	NS	-0.04
BZ-6	6	NS	0.13	NS	0.0
BZ-7	6	NS	0.13	NS	0.0

3.2.10 Alkalinity

Alkalinity is a measure of the acid-neutralizing capacity of water. Alkalinity in the water column of Beltzville Reservoir was relatively low during 2001 (Fig. 328). Throughout the monitoring period, concentrations measured at all stations and depths ranged between 5 and 20-mg/L.

Concentrations of alkalinity measured at Beltzville Reservoir were in compliance with PADEP water quality standards during 2001. The state water quality standard for alkalinity is a minimum concentration of 20 mg/L CaCO_3 , except where natural conditions are less. The natural alkalinity of water is largely dependent on the underlying geology and soils within the surrounding watershed. The low alkalinity measured at Beltzville Reservoir probably results from the regional geology, which is primarily sandstone and shale (Van Diver 1990).

5-day Biochemical Oxygen Demand *Spring*

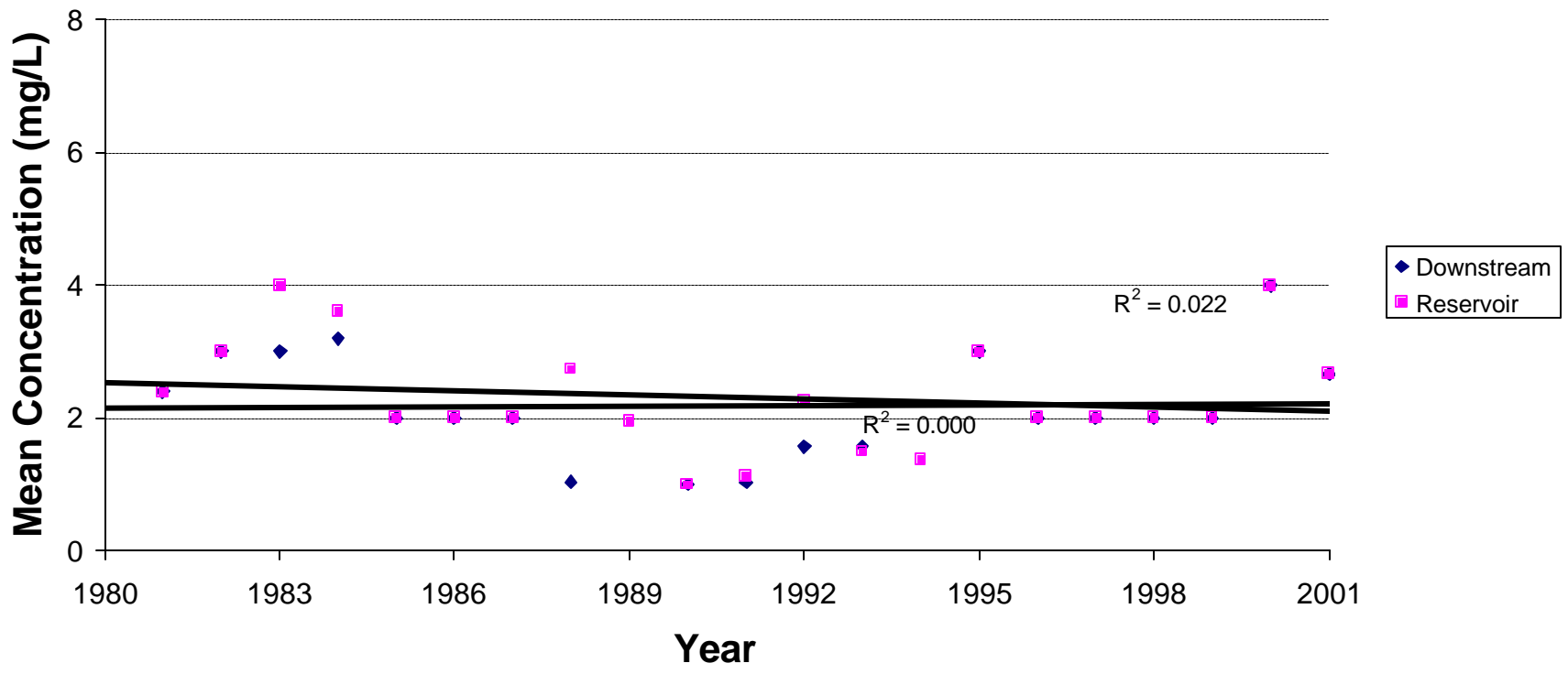


Figure 3-26. Seasonal trends of five-day biochemical oxygen demand in spring at Beltzville Reservoir.

5-day Biochemical Oxygen Demand Summer

3-43

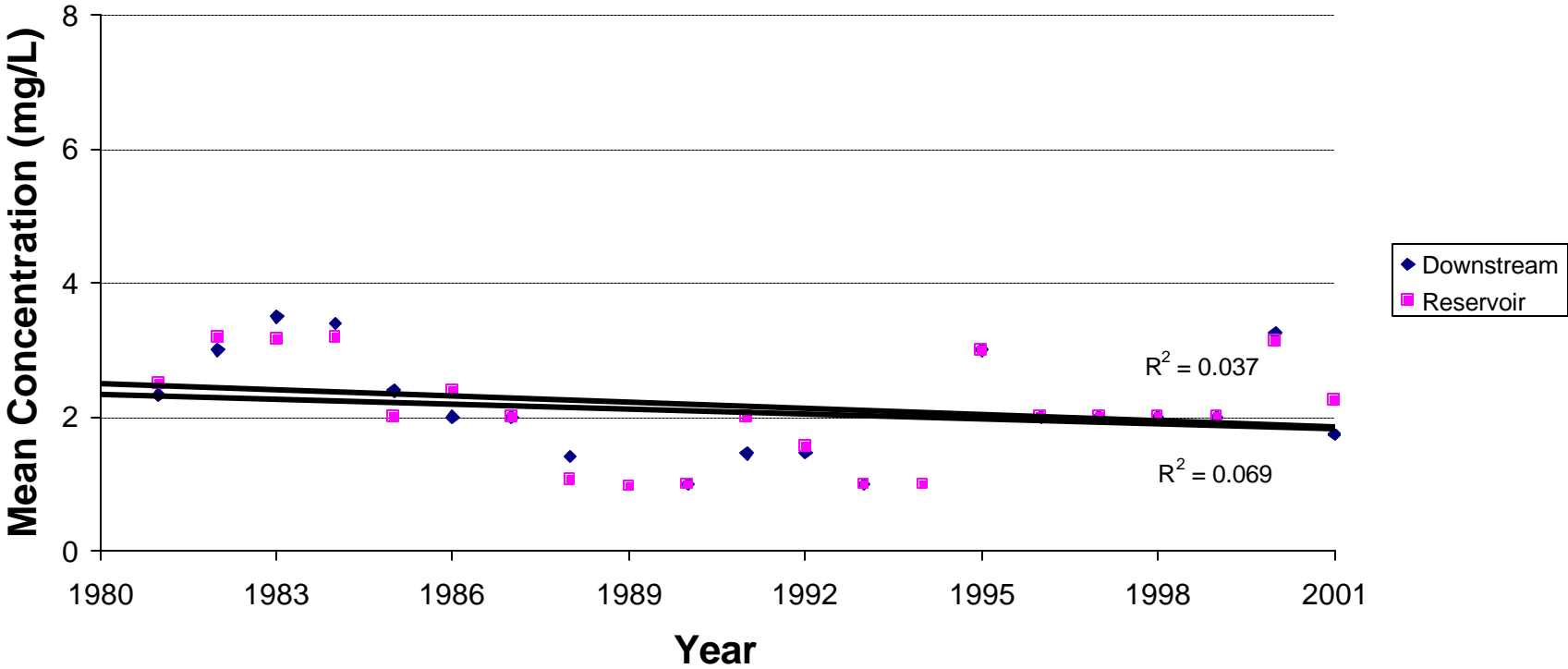


Figure 3-27. Seasonal trends of five-day biochemical oxygen demand in summer at Beltzville Reservoir.

3.2.11 Total Organic and Inorganic Carbon

Total inorganic carbon and total organic carbon in the water column of Beltzville Reservoir were not present in measurable concentrations during 2001 (Fig. 3-29 and Fig. 3-30). All concentrations measured were less than the method detection limit of 5-mg/L.

3.2.12 Chlorophyll *a*

Chlorophyll *a* is a measure of algal biomass. For the most part, chlorophyll *a* concentrations in the water column of Beltzville Reservoir were relatively low during 2001 (Fig. 3-31). Concentrations measured at all stations and depths ranged between 0.1 and 14.8-mg/m³. Concentrations were highly variable throughout the reservoir and its tributaries and averaged 2.6- mg/m³.

3.2.13 BTEX

Concentrations of benzene, toluene, ethylbenzene, *o*-xylene and *m,p*-xylenes (BTEX) in surface waters of Beltzville Reservoir were consistently low during 2001 (Table 3-9). Benzene and Ethylbenzene concentrations were always less than method detection limits of 1.0 µg/L. Toluene was detected in April, June, and August with values ranging from 1 to 4 µg/L. *o*-Xylene concentrations were only detected one time in August with a low value of 1 µg/L. *m,p*-Xylene was detected in August at all three stations (BZ-3, -6, and -7) with values of 2 and 4 µg/L.

Beltzville Reservoir was in compliance with PADEP water quality standard for BTEX parameters during 2001. All of the concentrations measured were more than an order of magnitude less than PADEP water quality criteria for toxic substances. PADEP fish and aquatic criteria continuous concentrations (CCCs) for the 4 parameters are as follows: benzene, 128µg/L ; ethylbenzene, 580 µg/L; toluene, 330 µg/L; and xylene, 211 µg/L (Pa. Code, Title 25, Chapter 16).

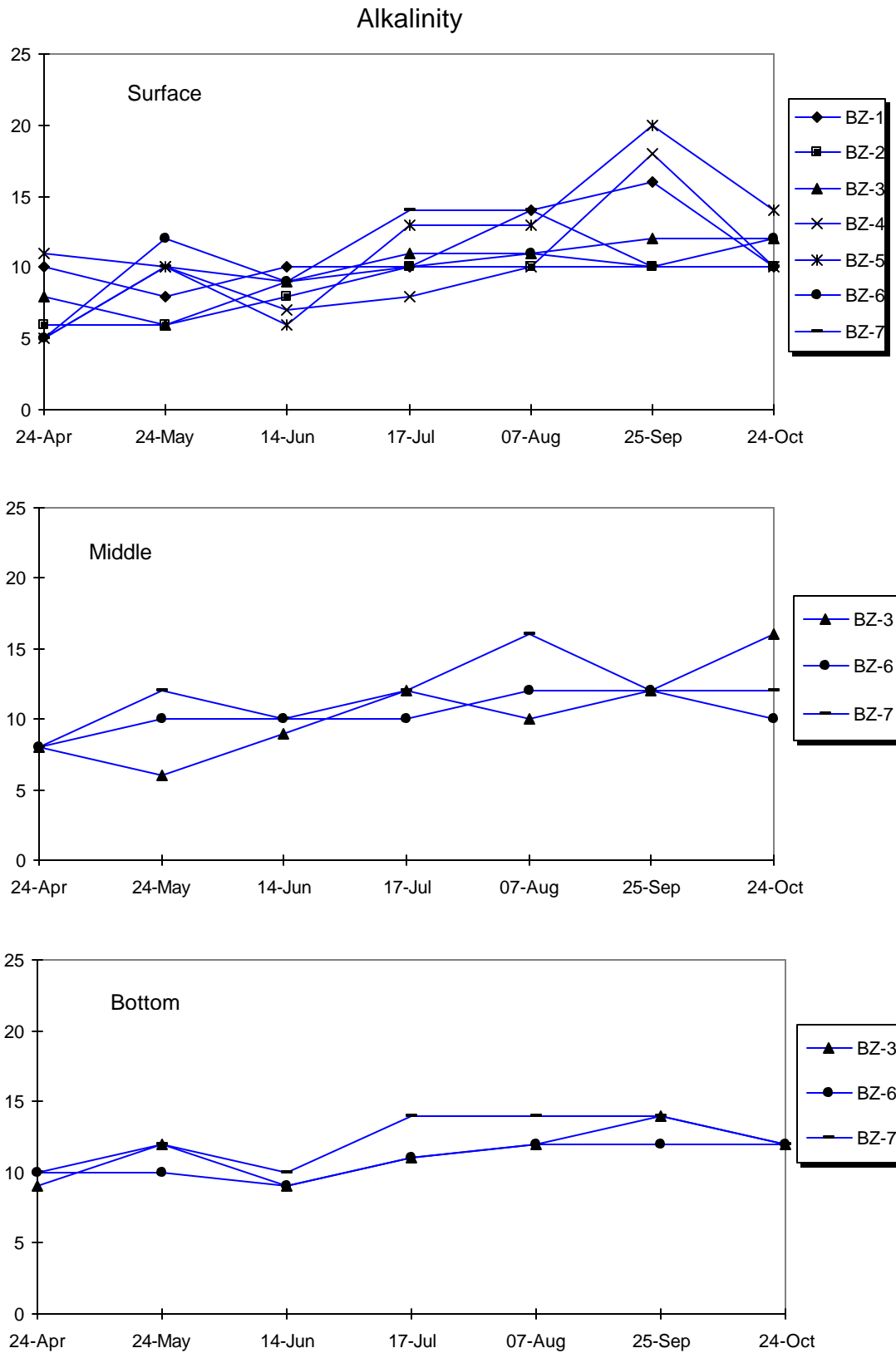


Figure 3-28. Alkalinity in surface, middle, and bottom waters of Beltzville Reservoir in 2001. (The PADEP water quality standard for alkalinity is a minimum concentration of 20 mg/L, except where natural conditions are less.)

Total Inorganic Carbon

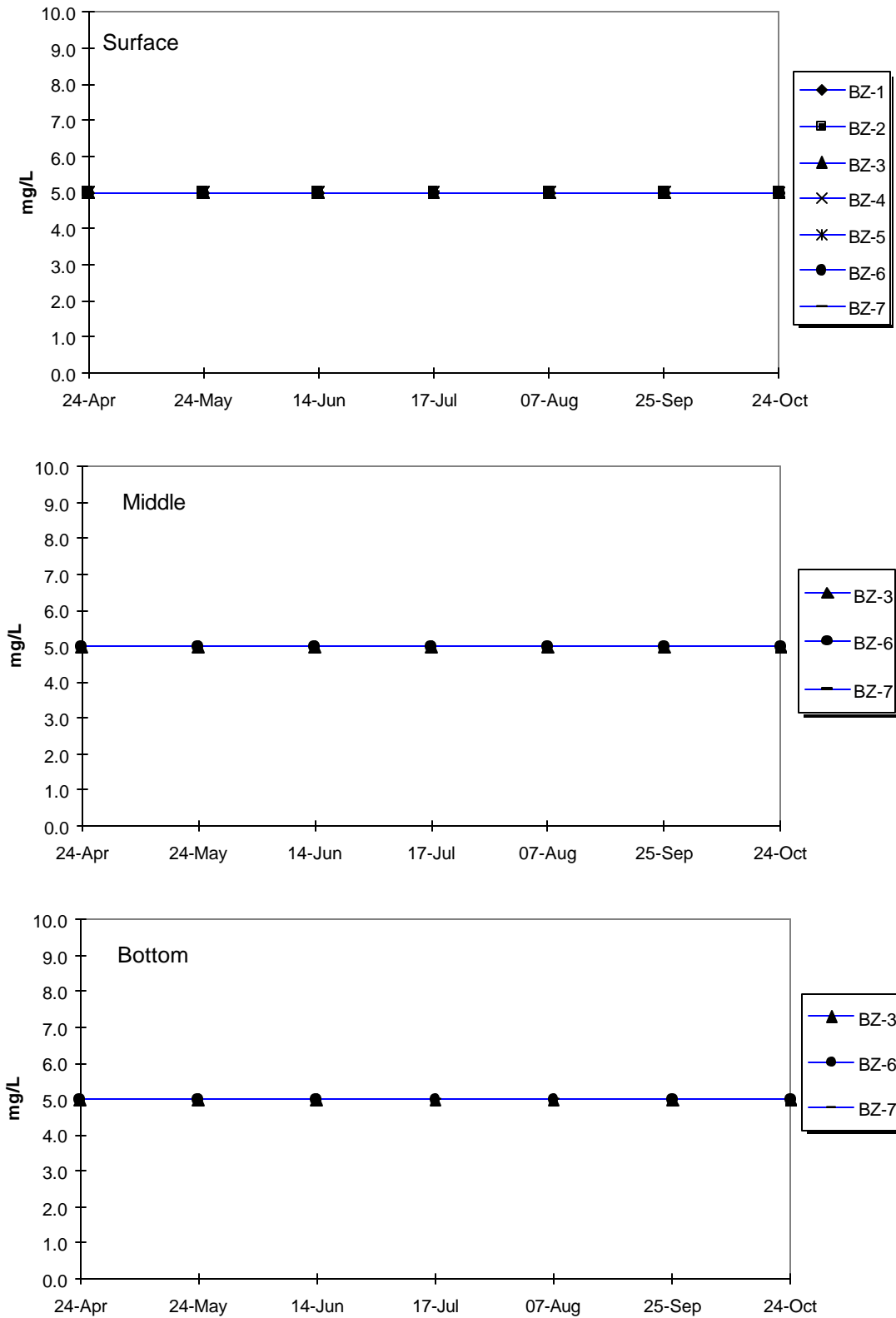


Figure 3-29. Total inorganic carbon in surface, middle, and bottom waters of Beltzville Reservoir in 2001.

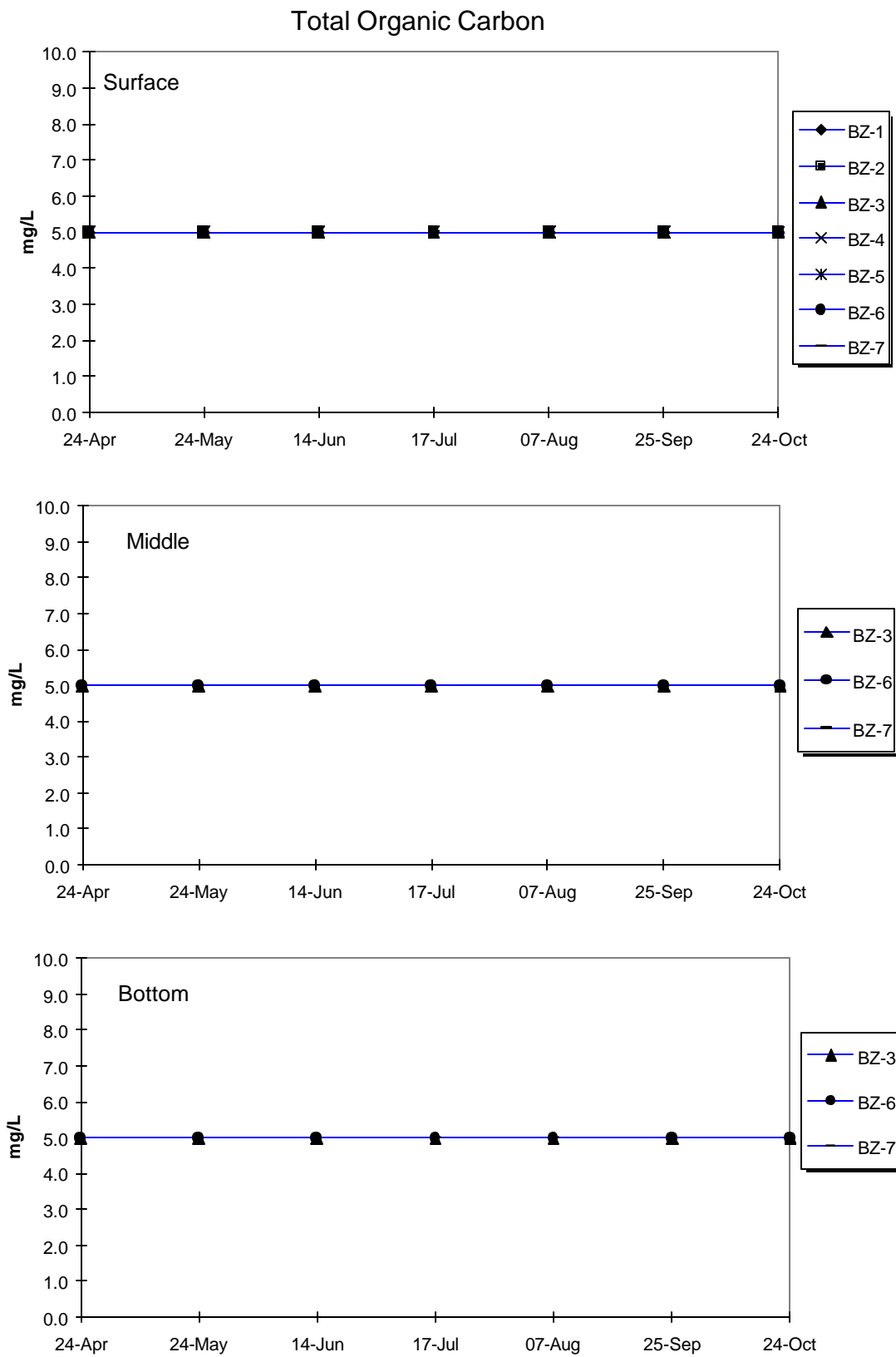


Figure 3-30. Total organic carbon in surface, middle, and bottom waters of Beltzville Reservoir in 2001.

Chlorophyll a

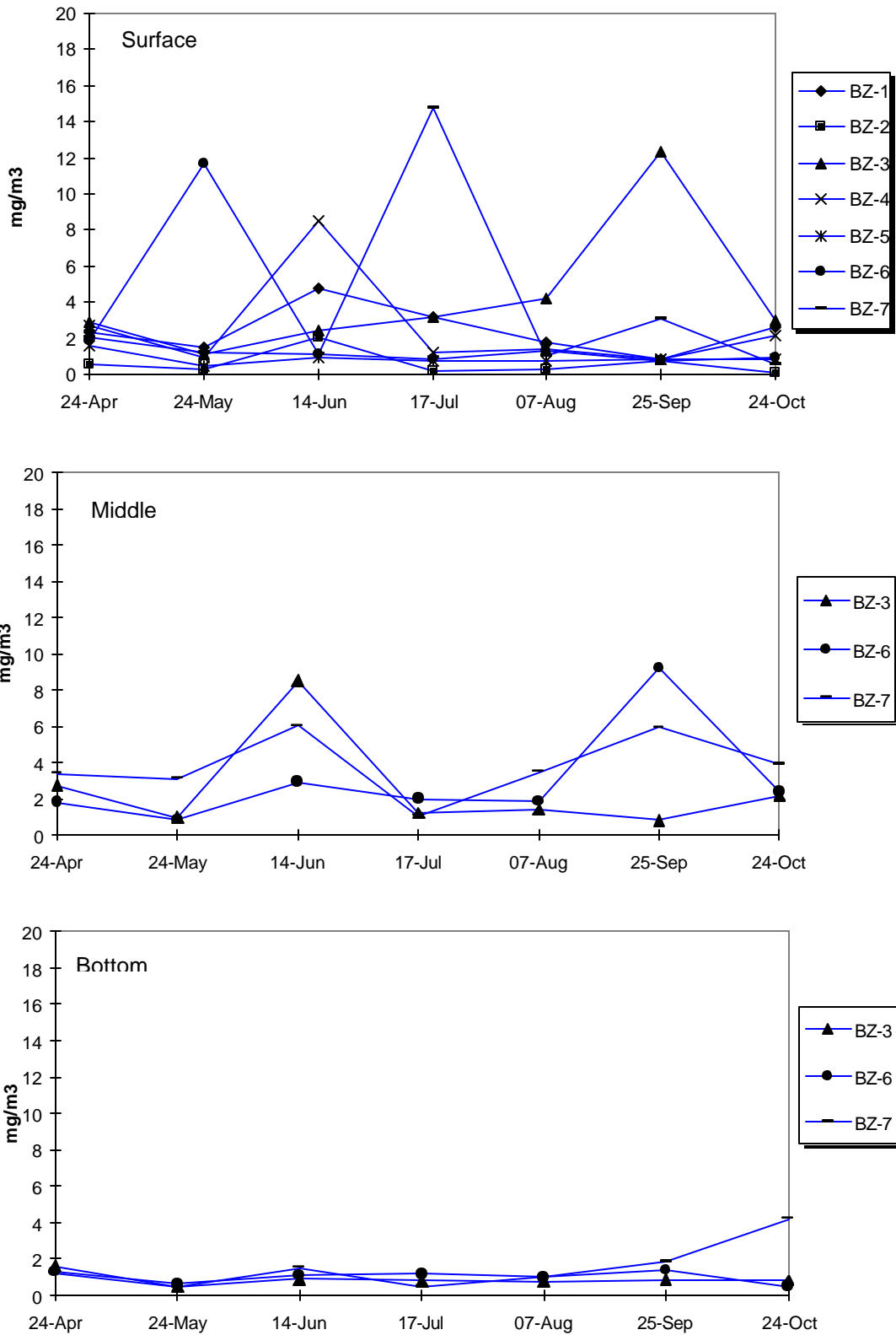


Figure 3-31. Total Chlorophyll a in surface, middle, and bottom waters of Beltzville Reservoir in 2001.

Table 3-9. Concentrations of BTEX parameters (µg/l) measured in surface water at Beltzville Reservoir during 2001.*

Station	Date	Benzene	Ethylbenzene	Toluene	o-Xylene	m,p-Xylene
BZ-3S	24-Apr	<1	<1	1	<1	<1
	24-May					
	14-June	<1	<1	2	<1	1
	17-July	<1	<1	<1	<1	<1
	7-Aug	<1	<1	3	1	4
	25-Sept	<1	<1	<1	<1	<1
	24-Oct	<1	<1	<1	<1	<1
BZ-6S	24-Apr	<1	<1	<1	<1	<1
	24-May					
	14-June	<1	<1	4	<1	<1
	17-July	<1	<1	<1	<1	<1
	7-Aug	<1	<1	2	<1	2
	25-Sept	<1	<1	<1	<1	<1
	24-Oct	<1	<1	<1	<1	<1
BZ-7S	24-Apr	<1	<1	1	<1	<1
	24-May					
	14-June	<1	<1	<1	<1	<1
	17-July	<1	<1	<1	<1	<1
	7-Aug	<1	<1	2	<1	2
	25-Sept	<1	<1	<1	<1	<1
	24-Oct	<1	<1	<1	<1	<1

* BTEX was not analyzed during May monitoring because of laboratory sample processing error

3.3 TROPIC STATE DETERMINATION

Carlson's (1977) trophic state index (TSI) is a method of quantitatively expressing the magnitude of eutrophication for a lake. The trophic state analysis calculates separate indices for eutrophication based on measures of total phosphorus, chlorophyll *a*, and secchi disk. Index values for each parameter range on the same scale from 0 (least enriched) to 100 (most enriched). The resulting indices can also be compared to qualitative threshold values that correspond to levels of eutrophication: mesotrophic (TSI < 40), mesoeutrophic (TSIs from 50 to 60), and eutrophic (TSI > 60).

TSIs calculated for measures of secchi disk depth classified Beltzville Reservoir as both oligotrophic and mesotrophic during 2001 (Fig. 3-32). The TSI values ranged from 28 to 36 when it was oligotrophic and from 40 to 47 during the mesotrophic period.

Trophic State

3-50

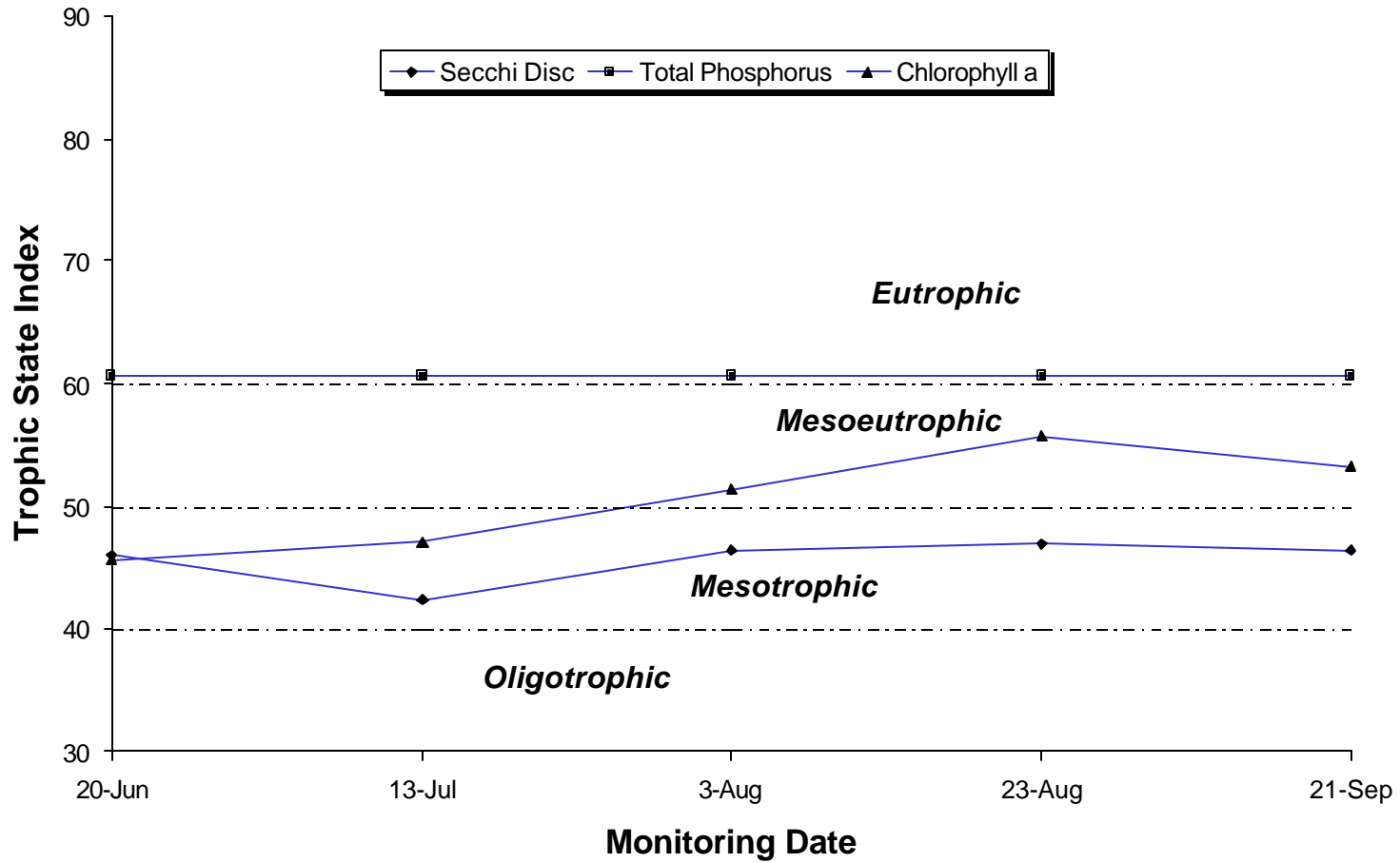


Figure 3-32. Trophic state indices calculated from secchi disk depth and concentrations of total phosphorus and chlorophyll *a* at Beltzville Reservoir in 2001

The TSI classification based on measures of total phosphorus was not feasible because of the high method detection limit for the parameter (Fig. 3-32). All concentrations measured at Beltzville Reservoir were less than the method detection limit of 0.05-mg/L. However, at this concentration, the TSI result of 60 is already bordering on eutrophic.

TSIs calculated for measures of chlorophyll *a* classified Beltzville Reservoir as mesotrophic (Fig. 332). Most of the TSI values ranged from 40 to 45. There were two monitoring dates that were not in that range. On 24 April, the TSI value was 37.67, which is in the oligotrophic level and on 25 September the TSI value was 52.13, which is in the mesoeutrophic level.

Carlson (1977) warned against averaging TSI values estimated for different parameters, and instead suggested giving priority to chlorophyll *a* in the summer and to phosphorus in the spring, fall, and winter. With this in mind, our estimation of the trophic state of the reservoir based on TSI's was mesotrophic during 2001.

The EPA (1983) also provides criteria for defining the trophic conditions of lakes of the north-temperate zone based on concentrations of total phosphorus, chlorophyll *a*, and secchi depth (Table 310). As related above, total phosphorus was not measured with enough precision to permit a substantive interpretation of trophic condition. The concentration of the method detection limit used for total phosphorus was eutrophic. Concentrations of chlorophyll *a* and secchi disk depth ranged from oligotrophic (April to June and October) to mesotrophic (July to September). Taking into account the general agreement between the EPA classifications with that of the TSIs, the trophic condition of Beltzville Reservoir was borderline oligotrophic-mesotrophic.

Water Quality Variable	Oligo-trophic	Meso-trophic	Eutrophic	Apr	May	Jun	Jul	Aug	Sep	Oct
Total phos. (µg/l)	<10	10-20	>20	50	50	50	50	50	50	50
Chlorophyll (mg/m ³)	<4	4-10	>10	2.06	2.65	2.74	4.67	4.45	9.00	3.60
Secchi depth (m)	>3.7	2-4	<2	3.83	4.99	4.95	8.86	2.45	2.82	3.40

3.4 RESERVOIR BACTERIA MONITORING

Three forms of coliform bacteria contamination were monitored at Beltzville Reservoir during 2001 including total coliform, fecal coliform, and fecal streptococcus (Table 3-11). Total coliform includes *Escherichia coli* (*E. coli*) and related bacteria that are associated with fecal discharges. Fecal coliform bacteria are a subgroup of the total coliform and are normally associated with waste derived from human and other warm-blooded animals. Fecal streptococcus refers to a group of bacteria that are common to warm-blooded animals other than humans. Because of the relative differences between fecal coliform and fecal streptococcus, their ratio can be used as a qualitative indicator of the source of fecal contamination.

Total coliform contamination of Beltzville Reservoir was generally low during 2001 monitoring period (Fig. 3-33). No station appeared to have consistently higher counts over the monitoring period. However, all stations during the autumn season (September and October), had higher total coliform counts that ranged from 60 to 560-clns/100ml. The highest counts of 560-clns/100-ml were found at station BZ-1, on 25 September.

Fecal coliform counts were generally lower counts than total coliform except for station BZ-4 (Fig. 3-34). On 24 October monitoring, BZ-4 had the highest count of 850-clns/100-mls. Counts within the reservoir (stations BZ-3, BZ-6, and BZ-7) were low throughout the monitoring period.

Fecal streptococcus contamination at Beltzville Reservoir had low counts below 200-clns/100-mls except for one station BZ-2 (Fig. 3-35). On 7 August station BZ-2 had the highest count of 330-clns/100-mls observed during monitoring period. Counts within the reservoir (stations BZ-3, BZ-6, and BZ-7) and downstream (station BZ-1) were low generally ranging less than 120-clns/100-ml.

With respect to PADEP water quality standards, coliform bacteria contamination was low at Beltzville Reservoir during 2001 (Table 3-12; Fig. 3-36). The PADEP standard for bacteria during the swimming season (from 1 May to 30 September) is a geometric mean not greater than 200 colonies/100-ml calculated for fecal coliform samples collected on consecutive days. Given that our regular monitoring was completed on one day, we calculated the geometric mean based on all the surface water samples collected on that day. Throughout the monitoring period, the geometric mean, calculated for each monitoring day, was less than the PADEP criteria.

Flow data from a USGS gauging station within the Beltzville Reservoir watershed (Kresgeville) were analyzed to qualitatively correlate precipitation patterns with coliform bacteria contamination (Fig. 2-2 through 2-6). Overall, coliform contamination did not appear to be strongly correlated with precipitation and streamflow. The only time that precipitation may have effected coliform bacteria contamination is during the monitoring on

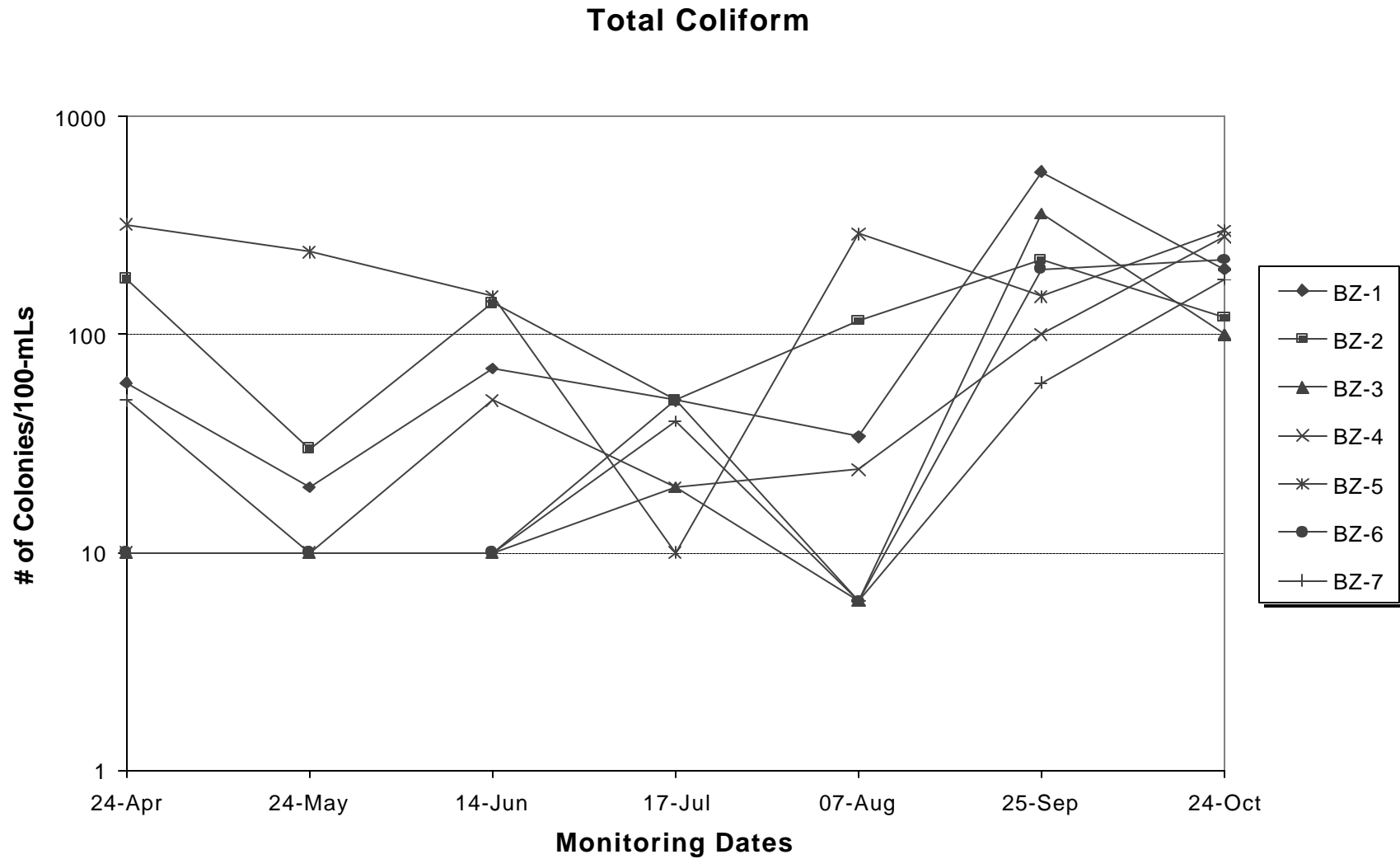


Figure 3-33. Total coliform counts in surface waters of Beltzville Reservoir in 2001

3-54

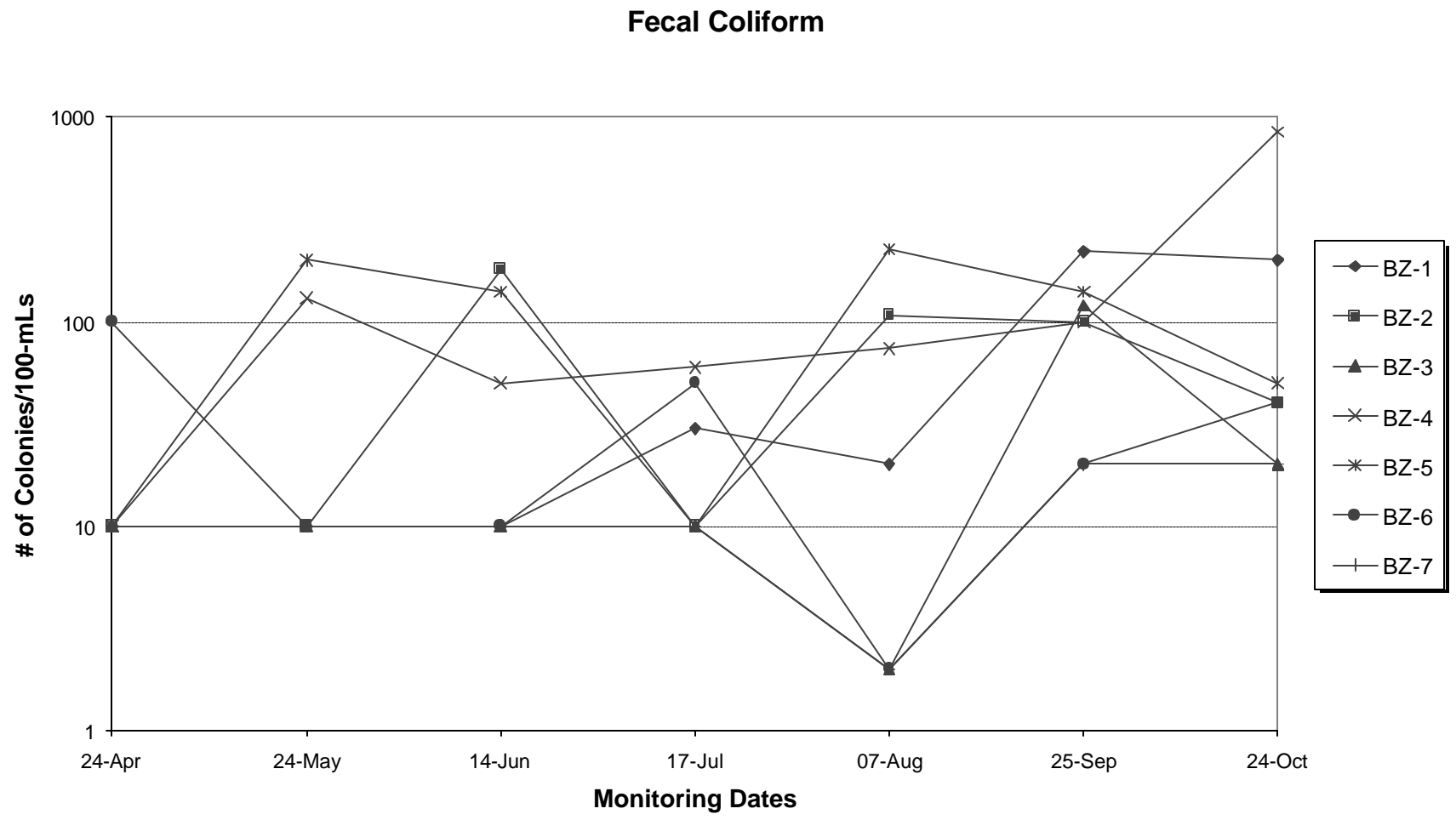


Figure 3-34. Fecal coliform counts in surface waters of Beltzville Reservoir in 2001. (PADEP water quality standard for fecal coliform is less than 200 colonies/100 mls.)

Fecal Streptococcus

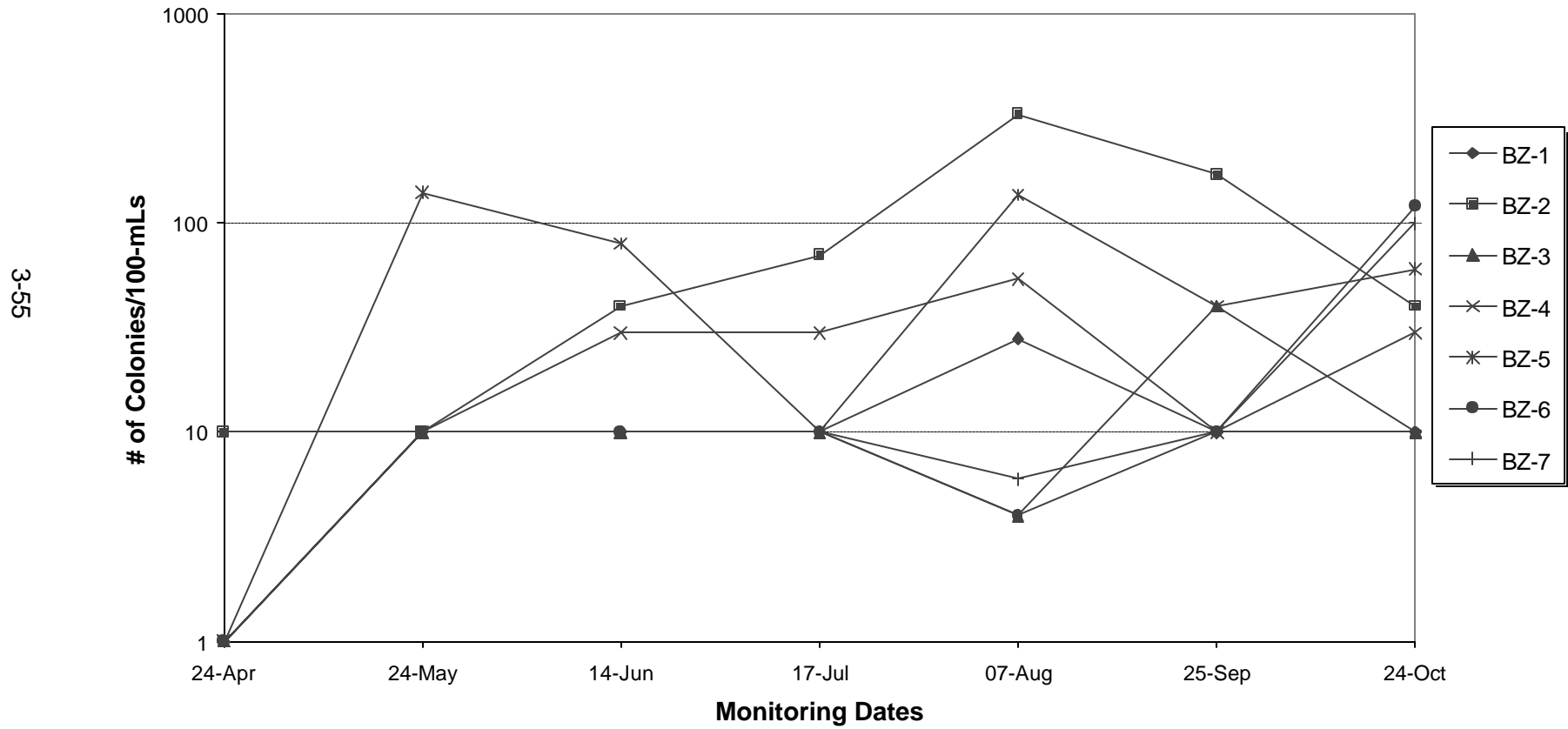


Figure 3-35. Fecal streptococcus counts in surface waters of Beltzville Reservoir in 2001

Fecal Coliform

3-56

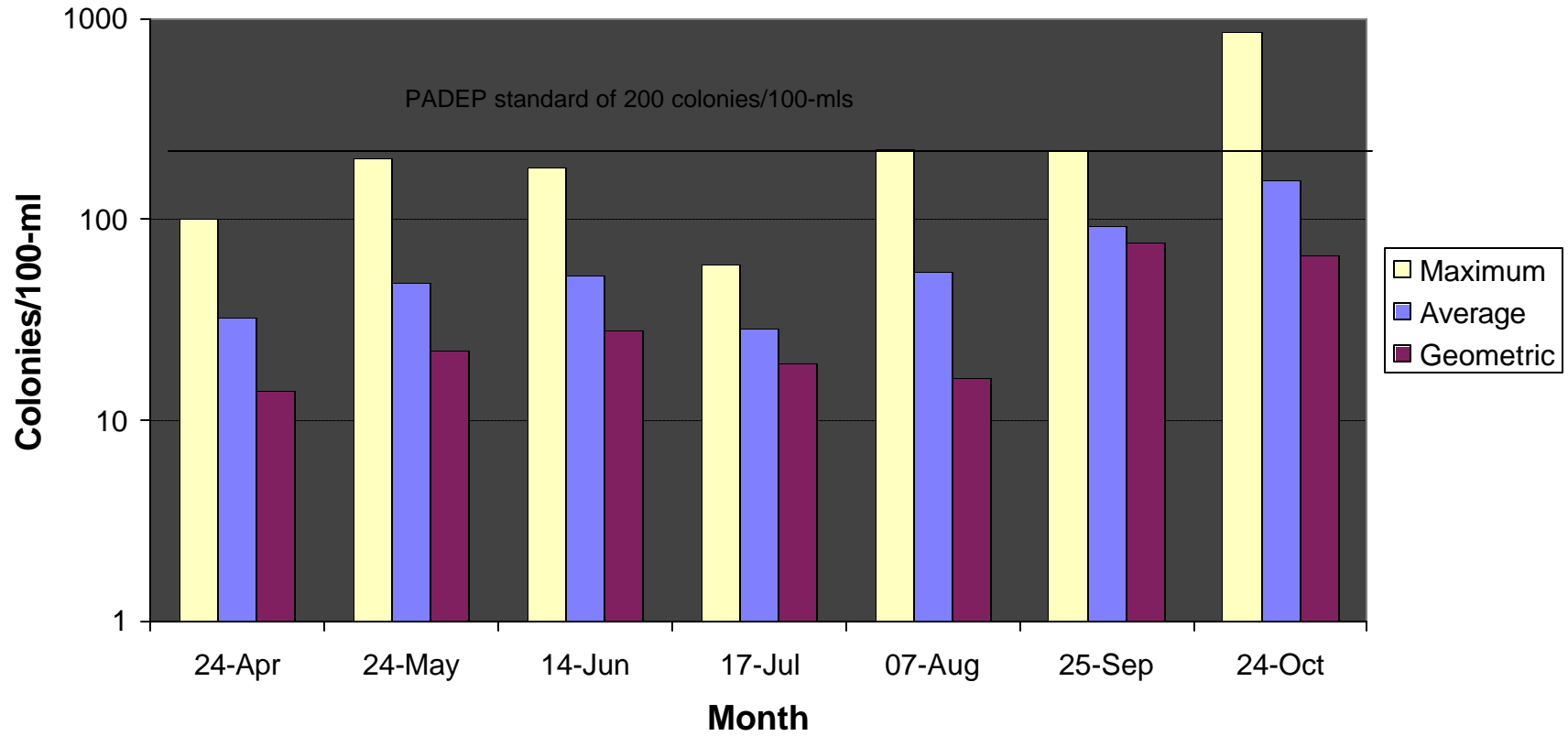


Figure 3-36. Maximum, average, and geometric mean of fecal coliform counts (colonies/100-ml) for all stations monitored at Beltzville Reservoir in 2001

25 September. This rain event exceeded four inches of rain and the total coliform counts are high ranging from 60 to 560-clns/100-mls.

Table 3-11. Bacteria counts (colonies/100 ml) at Beltzville Reservoir during 2001.

STATION	DATE	Total Coliform (TC)	Fecal Coliform (FC)	Fecal Strep (FS)	FC/FS
BZ-1S	24-Apr	60	< 10	1	NC
	24-May	20	< 10	< 10	NC
	14-Jun	70	< 10	10	NC
	17-Jul	50	30	10	3.00
	07-Aug	34	20	28	0.71
	25-Sep	560	220	< 10	NC
	24-Oct	200	200	< 10	NC
BZ-2S	24-Apr	180	< 10	10	NC
	24-May	30	10	< 10	NC
	14-Jun	140	180	40	4.50
	17-Jul	50	< 10	70	NC
	07-Aug	116	108	330	0.33
	25-Sep	220	100	170	0.59
	24-Oct	120	40	40	1.00
BZ-3S	24-Apr	10	10	< 1	NC
	24-May	< 10	< 10	< 10	NC
	14-Jun	< 10	< 10	< 10	NC
	17-Jul	20	< 10	< 10	NC
	07-Aug	6	< 2	4	NC
	25-Sep	360	120	40	3.00
	24-Oct	100	20	< 10	NC
BZ-4S	24-Apr	10	10	< 1	NC
	24-May	10	130	10	13.00
	14-Jun	50	50	30	1.67
	17-Jul	20	60	30	2.00
	07-Aug	24	74	54	1.37
	25-Sep	100	100	< 10	NC
	24-Oct	280	850	30	28.33
BZ-5S	24-Apr	320	< 10	1	NC
	24-May	240	200	140	1.43
	14-Jun	150	140	80	1.75
	17-Jul	10	< 10	10	NC
	07-Aug	290	226	136	1.66
	25-Sep	150	140	40	3.50
	24-Oct	300	50	60	0.83
	24-Oct	220	40	120	0.33

STATION	DATE	Total Coliform (TC)	Fecal Coliform (FC)	Fecal Strep (FS)	FC/FS
BZ-6S	24-Apr	< 10	100	< 1	NC
	24-May	10	< 10	< 10	NC
	14-Jun	< 10	< 10	< 10	NC
	17-Jul	50	50	< 10	NC
	07-Aug	6	2	4	0.50
	25-Sep	200	20	< 10	NC
BZ-7S	24-Apr	50	< 10	< 1	NC
	24-May	< 10	< 10	< 10	NC
	14-Jun	< 10	10	< 10	NC
	17-Jul	40	< 10	< 10	NC
	07-Aug	6	2	6	0.33
	25-Sep	60	20	< 10	NC
	24-Oct	180	20	100	0.20

	Geometric Mean	Arithmetic Mean	Maximum Count
24-Apr	13.9	32.5	100.0
24-May	22.1	48.8	200.0
14-Jun	27.7	52.5	180.0
17-Jul	19.0	28.8	60.0
07-Aug	16.2	54.5	226.0
25-Sep	76.1	92.5	220.0
24-Oct	66.0	157.5	850.0

An analysis for trends was conducted on fecal coliform data collected during 2001 and historical data collected over the past 21 years. Average counts at reservoir and downstream stations were analyzed separately, for trends occurring in spring and summer sessions. None of the regression lines were significant for either location in either season (Figs. 3-37 and 3-38). However, the plotted averages for both reservoir and downstream sites over the past 21-year time frame reflect consistently low fecal coliform contamination.

Seasonal trend analyses for total and fecal coliform contamination in surface water were also calculated for individual stations using the Mann-Kendall Statistic (Tables 3-13 and 3-14). The tests were conducted for spring (April through June) and summer (July through September) seasons for seven stations with extensive historical data. No trends were observed for total coliforms (Table 3-13). For fecal coliforms there were two trends that were

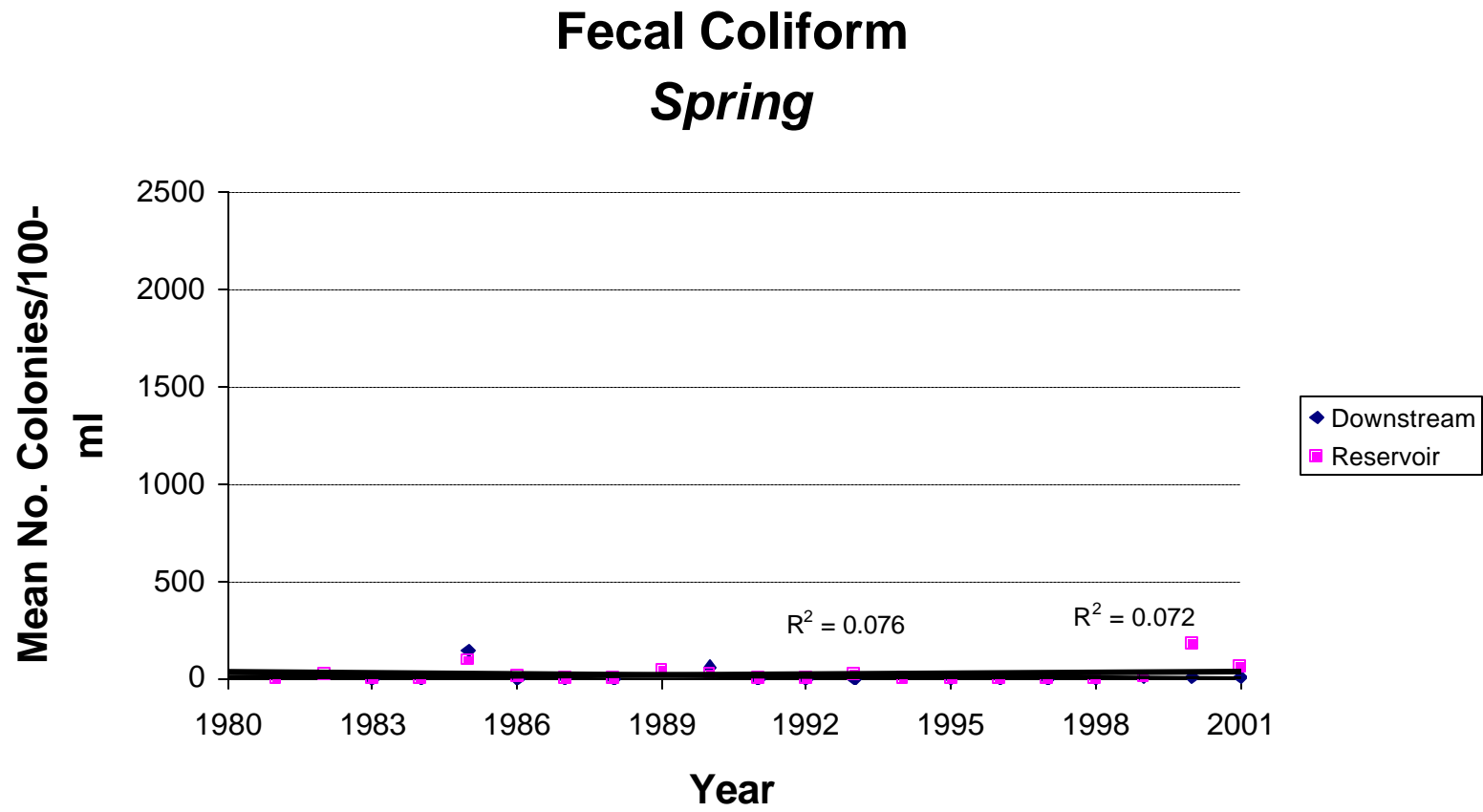


Figure 3-37. Seasonal trends of fecal coliform in spring at Beltzville Reservoir

Fecal Coliform *Summer*

3-60

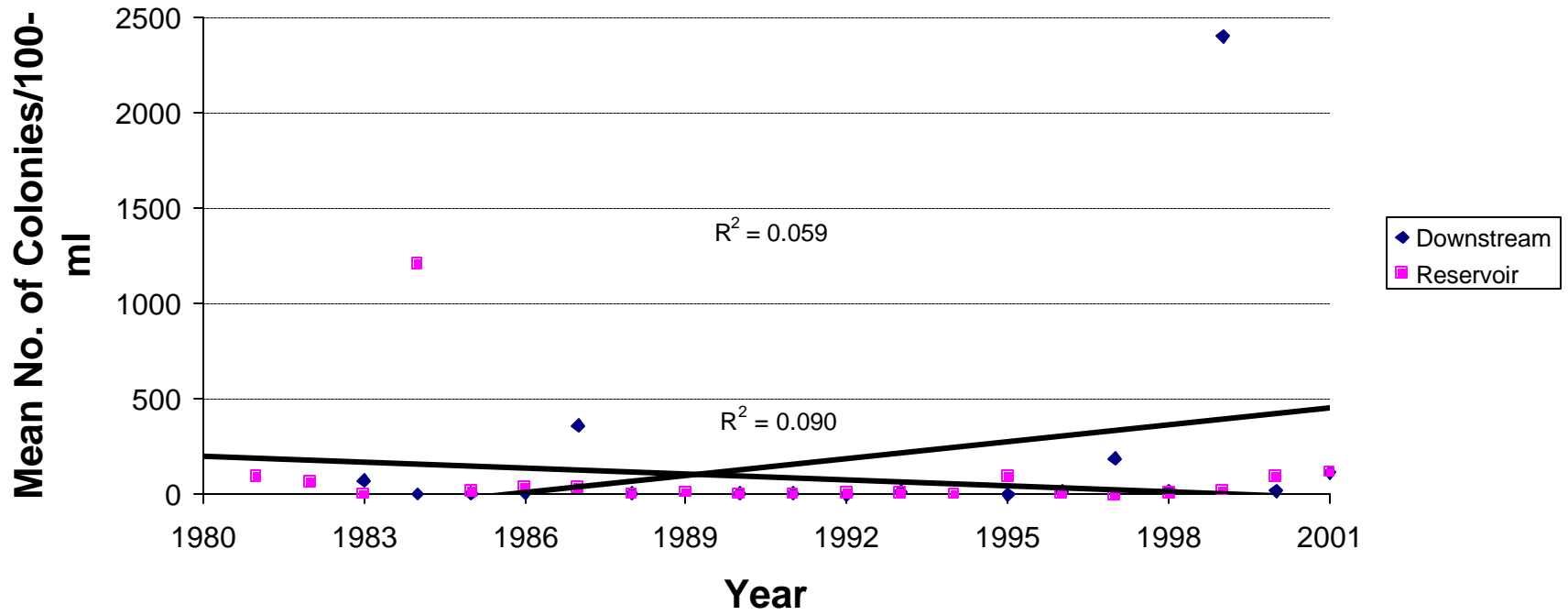


Figure 3-38. Seasonal trends of fecal coliform in summer at Beltzville Reservoir

determined to be significant; station BZ-5 and BZ-6 for fecal coliform contaminants in the spring (Table 3-13). The rate of increase estimated for the trend was 8.58 and 3.0 colonies/100-ml/year.

Table 3-13. Seasonal trends of fecal coliforms/100-ml at individual stations of Beltzville Reservoir calculated with the Mann-Kendall Statistic.					
Station	# of Years spring/summer	Spring		Summer	
		P Level	Rate (mg/L)	P Level	Rate
Surface Water					
BZ-1	17/16	NS	-0.06	NS	8.06
BZ-2	21	NS	-4.75	NS	6.11
BZ-3	21/20	NS	-2.78	NS	-1.14
BZ-4	21/20	NS	-6.75	NS	-3.54
BZ-5	21	NS	-18.61	NS	3.64
BZ-6	6	NS	0.5	NS	3.67
BZ-7	6	NS	-2	NS	-72.33

Table 3-14. Seasonal trends of fecal coliforms/100-ml at individual stations of Beltzville Reservoir calculated with the Mann-Kendall Statistic.					
Station	# of Years spring/summer	Spring		Summer	
		P Level	Rate (mg/L)	P Level	Rate
Surface Water					
BZ-1	17	NS	0.12	NS	1.07
BZ-2	21	NS	0.82	NS	3.35
BZ-3	21	NS	-0.13	NS	-1.07
BZ-4	21	NS	-0.42	NS	0.82
BZ-5	21	< 0.05	8.58	NS	6.37
BZ-6	6	< 0.05	3.0	NS	3.25
BZ-7	6	NS	0.75	NS	-104

The ratio of fecal coliform to fecal streptococcus counts can be used to qualitatively identify sources of bacteria contamination (McComas 1993). The ratio is characteristic for several animal species and certain waste disposal practices; for human waste, the ratio is 4 to 1. Use of the ratio was limited to the extent that counts at most stations were at or less than method detection limits for one or both coliform parameters. Out of a total of 49 perspective ratios, only 21 were calculated. Of these, ratios ranged from 0.2 to 28.33, and only 10 fell within the range one would expect for human waste sources (Table 3-12).

3.5 SEDIMENT PRIORITY POLLUTANT MONITORING

Sediment samples were collected at station BZ-6 and analyzed for priority pollutant contaminants, Group 2 – semivolatile organic compounds and metals. Resulting concentrations were compared to New Jersey Soil Cleanup Criteria (NJDEP 1999; Table 315). The NJDEP criteria are human health based with categories addressing residential and non-residential settings, and impacts to groundwater. For our comparison, we reported the most conservative of the three criteria.

Table 3-15. Metals and semivolatiles (Group II) concentrations measured in sediments of Beltzville Reservoir in 2001.					
Parameter	Units	Method Detection Limit	BZ-6	USACE Screening Level	References
CONVENTIONALS					
Percent Solids	%	0.1	20.4		
METALS					
Aluminum	mg/kg	97.6	17,674.40		
Antimony	mg/kg	2	ND	14	NJDEP 1999
Arsenic	mg/kg	4.9	ND	20	NJDEP 1999
Barium	mg/kg	0.5	161.1	700	NJDEP 1996
Beryllium	mg/kg	0.5	1.1	2	NJDEP 1999
Cadmium	mg/kg	0.5	12.3	39	NJDEP 1999
Calcium	mg/kg	2	1513.6		
Chromium	mg/kg	0.5	26.1	33	MacDonald 1992
Cobalt	mg/kg	2	26.9		
Copper	mg/kg	0.5	32.8	600	NJDEP 1999
Iron	mg/kg	24.4	35,251.20		
Lead	mg/kg	2	105.5	400	NJDEP 1999
Magnesium	mg/kg	2	2,216.60		
Manganese	mg/kg	0.5	907.2		
Mercury	mg/kg	0.1	0.14	14	NJDEP 1999
Nickel	mg/kg	0.5	35.1	250	NJDEP 1999
Potassium	mg/kg	2	1152.3		
Selenium	mg/kg	4.9	ND	63	NJDEP 1999
Sodium	mg/kg	2	130.8		
Vanadium	mg/kg	2	45.7	370	NJDEP 1999
Zinc	mg/kg	0.5	682.6	1500	NJDEP 1999

Table 3-15. (Continued)					
Parameter	Units	Method Detection Limit	BZ-6	USACE Screening Level	References
SVOC (mg/kg)					
2,4,5-Trichlorophenol	mg/kg	0.490	ND	5,600	NJDEP 1999
2,4,6-Trichlorophenol	mg/kg	0.490	ND	62	NJDEP 1999
2,4-Dichlorophenol	mg/kg	0.490	ND	170	NJDEP 1999
2,4-Dimethylphenol	mg/kg	0.490	ND	10	NJDEP 1999
2,4-Dinitrophenol	mg/kg	0.490	ND	10	NJDEP 1999
2-Chlorophenol	mg/kg	0.490	ND	280	NJDEP 1999
2-Methylphenol	mg/kg	0.490	ND	2,800	NJDEP 1999
2-Nitrophenol	mg/kg	0.490	ND		
3-Methylphenol	mg/kg	0.490	ND		
4,6-Dinitro-2-methylphenol	mg/kg	0.490	ND		
4-Chloro-3-methylphenol	mg/kg	0.490	ND	10,000	NJDEP 1999
4-Methylphenol	mg/kg	0.490	ND	2,800	NJDEP 1999
4-Nitrophenol	mg/kg	0.490	ND		
Benzoic acid	mg/kg	0.490	ND		
Benzyl alcohol	mg/kg	0.490	ND	10,000	NJDEP 1999
Pentachlorophenol	mg/kg	0.490	ND	6	NJDEP 1999
Phenol	mg/kg	0.490	ND	10,000	NJDEP 1999

A total of 21 metals were analyzed in Beltzville Reservoir sediments (Table 3-15). None of compounds analyzed exceeded the screening level.

A total of 17 semivolatile organics (SVOC) were analyzed in Beltzville Reservoir sediments (Table 3-15). None of the compounds were detected in the sediment sample from station BZ-6 (Table 3-15).

3.6 DRINKING WATER

Drinking water from the public water fountain located in the overlook building of Beltzville Reservoir was monitored for compliance with PADEP water quality standards for primary and secondary contaminants, and quarterly monitored inorganic nitrogen (nitrate and nitrite) and coliform bacteria contaminants during 2001. Drinking water samples were analyzed in duplicate, comprising initial and confirmation samples. For matters of reporting, only if the result of the initial sample was not in compliance with water quality standards, the result of the confirmation sample was also reported.

3.6.1 Primary and Secondary Contaminants

Beltzville Reservoir drinking water was in compliance with PADEP water quality standards for all the primary and secondary contaminants (Table 3-16). As part of drinking water compliance monitoring, Safe Drinking Water Act (SDWA) form 4 for the reporting of results of primary and secondary drinking water contaminants were submitted to appropriate state environmental agencies.

Table 3-16. Concentrations of primary and secondary contaminants in drinking water at Beltzville Reservoir in 2001. Shaded values indicate results that exceeded Pennsylvania State drinking water standards; in these instances the result of a second sample is also reported.

Parameter	Sampling Date	PADEP Regulatory Level	Detection Limits	EPA Method
	14 June			
Aluminum	ND	0.2	0.02	200.7
Antimony	ND	0.006	0.05	200.7
Arsenic	ND	0.05	0.05	200.7
Barium	ND	2.0	0.005	200.7
Cadmium	ND	0.005	0.005	200.7
Chromium	ND	0.1	0.005	200.7
Copper	0.589	1.3	0.005	200.7
Iron	0.143	0.3	0.005	200.7
Lead	0.004	0.015	0.001	200.8
Magnesium	2.02	NL	0.02	200.7
Manganese	0.042	0.05	0.005	200.7
Mercury	ND	0.002	0.0002	245.1
Nickel	0.006	0.1	0.005	200.7
Selenium	ND	0.05	0.05	200.7
Silver	ND	0.1	0.005	200.7
Sodium	3.49	NL	0.02	200.7
Thallium	ND	0.002	0.05	200.7
Zinc	2.476	5.0	0.005	200.7
Chloride	2	250	1	325.3
Cyanide	ND	0.2	0.007	SM 4500CN-C&E
Fluoride	ND	2.0	0.1	SM 4500F-C
Foaming Agents	ND	0.5	0.05	SM 5540C
PH	7.14	6.5-8.5	+/-0.01	150.1
Sulfate	11	250.0	5	375.4
Total Dissolved Solids	34	500.0	10	SM 2540C

All results, criteria and detection limits are expressed in mg/L except pH which is expressed in positive/negative
 ND – Not Detected

3.6.2 Inorganic Nitrogen and Coliform bacteria

Beltzville Reservoir drinking water was in compliance with PADEP criteria for nitrate and nitrite (Table 3-17). Concentrations of nitrate and nitrite were not detected throughout the monitoring period. On 14 June during a scheduled sampling event, total coliform was present in the drinking water sample. A test collected on 21 June also detected coliform bacteria. To further investigate the source of bacteria four additional samples were collected on 26 June (Table 3-18). Water was collected from the observation fountain, the office fountain, the office sink, and the ranger's house faucet and tested for total coliform and fecal coliform. Coliform was present in the samples collected from the office sink. An additional sample collected on 5 July indicated that total coliform present. Subsequently, in late July, the USACE personnel at the Beltzville Reservoir office added a chlorine system to the water supply. On 7 August and there was no coliform bacteria contamination present. Additionally, coliform was absent on the scheduled 24 October sampling event. Following laboratory testing, drinking water monitoring results were recorded on Safe Drinking Water Act (SDWA-S and SDWA-4) forms and submitted to the appropriate state environmental agencies.

3.6.3 Historical Drinking Water Quality

Drinking water quality has been monitored at Blue Marsh Reservoir over the past 20 years. Versar (1996) compiled the results from all of the previous years into a single database to facilitate water quality comparisons. Historical data from drinking water quality parameters were compared to their respective PADEP standards. Of 26 parameters summarized, 7 had incidences of noncompliance with drinking water standards from 1983 to present (Table 3-18). Lead, pH, and corrosivity were most often not in compliance with PADEP criteria.

Table 3-17. Concentrations of nitrate and nitrite, and results of coliform bacteria monitoring of drinking water sampled from the public water fountain located in the overlook building at Beltzville Reservoir during 2001								
Parameter	Sampling Dates					PADEP Regulatory Level	Detection Limits	Method
	14 June	21 June	5 July	7 August	24 October			
Nitrate as N (mg/L)	ND			ND	ND	10.0	0.5	SM4500
Nitrite as N (mg/L)	ND			ND	ND	1.0	0.5	SM4500
E. coli (CFU)	Absence	Absence	Absence	Absence	Absence	Presence	1	SM 9223
Total Coliform (CFU)	Presence	Presence	Presence	Absence	Absence	Presence	1	SM 9223
CFU – colony forming units ND – Not Detected								

Table 3-18. Results of coliform bacteria monitoring of drinking water sampled on 26 June at various places at the Beltzville Reservoir after the testing on 21 June. (Detection limit 10-clns/100-mls)				
	Observation Fountain	Office Fountain	Office Sink	Rangers House Faucet
Total Coliform (10-clns/100-mls)	ND	ND	40	ND
Fecal Coliform (10-clns/100-mls)	ND	ND	10	ND
ND – Not Detected				

4.0 SUMMARY

The USACE implements an annual monitoring program at Beltzville Reservoir to evaluate lake water quality and potential public health concerns. In general, the monitoring programs emphasize measuring water quality and sediment contamination. Monitoring results are compared to state and federal criteria to evaluate the condition of Beltzville Reservoir. The 2001 monitoring program of Beltzville Reservoir comprised four major elements:

- water quality of physical/chemical parameters at fixed stations from April through October;
- monthly water quality monitoring of nutrient parameter concentrations and bacteria contamination from April to October;
- sediment priority pollutant monitoring for semivolatile organic compounds and metals at a fixed station in the deepest part of the reservoir; and
- drinking water monitoring of the public water fountain in the overlook building.

4.1 WATER QUALITY MONITORING

Surface and downstream water quality were in compliance with state standards for dissolved oxygen concentrations (minimum of 5 mg/L). Dissolved oxygen in the lower water column of the deeper portions of the reservoir was below standards during September and October. Measures of pH throughout the water column of the reservoir met the conditions of the water quality standard. Beltzville Reservoir contained acceptable levels of nutrients during 2001. Ammonia, nitrate + nitrite, TDS, and alkalinity were in compliance with state water quality standards throughout the reservoir watershed. Organic contamination in the reservoir was relatively low during 2001. Concentrations of toluene, o-xylene and m,p-xylenes were rarely measured above detection limits throughout the monitoring period.

The trophic status of Beltzville Reservoir was defined, independently, Carlson's trophic state indices and EPA criteria. Carlson's trophic state indices indicated the reservoir to be in mesotrophic condition during 2001. EPA criteria indicated the reservoir to be in oligotrophic/mesotrophic condition during 2001.

Beltzville Reservoir was in compliance with the PADEP water quality standard for bacteria contamination during 2001. The geometric means among samples collected each month were always less than 200 colonies/100-ml. Ratios of fecal coliform to fecal streptococcus counts were ambiguous and did not appear to identify a source of bacteria contamination.

4.2 SEDIMENT PRIORITY POLLUTANT MONITORING

Beltzville Reservoir was in compliance with NJDEP soil guidelines in 2001. Concentrations of metals and semivolatile organic compounds were less than screening guidelines.

4.3 MONITORING PROGRAM TRENDS

Analysis of long-term downstream and reservoir trends suggested that few water quality changes have occurred in Beltzville Reservoir over the past 26 years.

Trends computed for individual stations using the Mann-Kendall test indicated significant water quality changes at several locations in the Beltzville Reservoir watershed. Ammonia appears to be decreasing at most stations throughout the reservoir and downstream in both seasons. Total phosphorus was decreasing only at station BZ-4 in summer. TDS was decreasing at station BZ-3 in both seasons, and at stations BZ-4 and BZ-5 in the summer. Additionally, TDS was increasing at station BZ-6 in the spring. BOD was decreasing in the summer at station BZ-1, downstream of the reservoir. Fecal coliform was increasing at stations BZ-5, -6, and -7 in the spring and decreasing at BZ-3 in the summer.

4.4 DRINKING WATER MONITORING

Drinking water from the public fountain located in the overlook building of Beltzville Reservoir was in compliance with most water quality standards in 2001. Repeated tests for Coliform presence in the drinking water was out of compliance in the early half of the summer; however, upon installation of a chlorination system into the water supply, coliform was absent in subsequent drinking water monitoring tests.

5.0 RECOMMENDATIONS

The USACE intends to continue monitoring of the Beltzville Reservoir in future years to evaluate trends and to identify potential environmental problems related to human development within the watershed. The USACE is continually seeking to improve the quality and cost-effectiveness of the information gathered as part of this effort. Below, we present several recommendations for improving the monitoring program:

Recommendation 1: Add a monitoring component to assess relative loadings of nutrients, toxic chemicals, and sediment from each of the major watersheds draining into the Beltzville reservoir.

The Beltzville Reservoir contains several feeder streams which drain different watersheds. Each of these watersheds has different land use characteristics (e.g., residential, agricultural, forested ecosystems) each of which may contribute a different suite of chemical loadings to the reservoir. Management of water quality problems in the reservoir will require an understanding of the relative loadings of nutrients, toxics, and sediment from each watershed, and in which watersheds these loadings are changing most rapidly. Developing this information could be accomplished by deploying automatic samplers into the major feeder streams to obtain composite samples over randomly selected 24-hour periods, stratified by season, and by conducting special sampling during storm events.

Recommendation 2: Conduct a watershed modeling effort.

A survey of all nutrient and pollutant sources (point source and non-point source) within the Beltzville Reservoir watershed could be conducted and presented in a GIS format. Using predicted loadings from the various pollutant sources identified within the watershed, a simple nutrient/DO prediction model could be constructed and verified with the long-term data set. This model could be used to predict the degree of improvement in reservoir water quality that could be obtained through various nutrient control measures such as sewage treatment upgrades and reduced fertilizer application to farmlands.

6.0 REFERENCES

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APPENDIX A
STRATIFICATION MONITORING

Table A-1. Summary of stratification monitoring at Betzville Reservoir in 2001

Station	DATE	Depth (F)	Temp ?C	pH	DO (mg/L)	DO (%)	Cond (mS/cm)
BZ1	24-Apr	0	11.57	7.18	*	*	0.086
	24-May	0	8.25	8.24	11.66	99.10	0.078
	14-Jun	0	10.81	6.84	10.53	95.10	0.078
	17-Jul	0	12.15	6.18	9.67	90.06	0.080
	07-Aug	0	12.49	6.64	9.33	87.56	0.077
	25-Sep	0	13.54	6.62	8.20	78.78	0.085
	24-Oct	0	12.09	7.02	8.20	76.30	0.079
BZ2	24-Apr	0	11.83	7.66	*	*	0.070
	24-May	0	11.87	8.15	10.57	97.81	0.070
	14-Jun	0	14.10	6.91	9.69	94.25	0.071
	17-Jul	0	16.49	6.59	9.27	94.91	0.065
	07-Aug	0	17.72	6.50	8.43	88.55	0.066
	25-Sep	0	15.31	7.04	7.85	78.38	0.073
	24-Oct	0	11.70	7.00	7.56	69.70	0.057
BZ3	24-Apr	100	5.18	6.88	*	*	0.082
		95	5.19	6.87	*	*	0.082
		90	5.20	6.86	*	*	0.082
		85	5.24	6.86	*	*	0.082
		80	5.27	6.85	*	*	0.082
		75	5.27	6.86	*	*	0.082
		70	5.32	6.86	*	*	0.082
		65	5.60	6.87	*	*	0.081
		60	5.74	6.89	*	*	0.081
		55	5.83	6.89	*	*	0.081
		50	6.01	6.91	*	*	0.081
		45	6.38	6.94	*	*	0.080
		40	6.66	6.96	*	*	0.080
		35	6.99	6.98	*	*	0.080
		30	7.30	7.02	*	*	0.080
		25	7.61	7.04	*	*	0.080
		20	8.72	7.11	*	*	0.079
15	10.14	7.21	*	*	0.079		
10	10.38	7.23	*	*	0.080		
5	10.49	7.26	*	*	0.080		
0	10.78	7.28	*	*	0.080		

Table A-1. (Continued)

Station	DATE	Depth (F)	Temp °C	pH	DO (mg/L)	DO (%)	Cond (mS/cm)
BZ3 (Con't)	24-May	95	5.75	7.98	8.51	67.97	0.079
		90	5.73	7.80	10.06	80.31	0.078
		85	5.85	7.72	8.38	67.10	0.078
		80	6.12	7.60	8.62	69.50	0.078
		75	6.23	7.57	8.70	70.34	0.078
		70	6.39	7.44	8.56	69.49	0.078
		65	6.64	7.42	8.48	69.27	0.078
		60	6.85	7.39	8.43	69.23	0.078
		55	7.13	7.38	8.43	69.71	0.077
		51	7.28	7.36	8.77	72.79	0.077
		50	7.33	7.30	8.34	69.31	0.077
		45	7.62	7.29	8.42	70.47	0.077
		40	8.45	7.30	8.68	74.13	0.077
		35	9.27	7.33	9.04	78.74	0.077
		30	11.36	7.37	8.77	80.22	0.076
		25	15.84	7.45	8.37	84.52	0.076
		20	15.89	7.47	8.34	84.31	0.076
		15	16.84	7.53	8.52	87.87	0.076
		10	17.28	7.57	8.37	87.12	0.076
		5	17.50	7.60	8.65	90.45	0.076
	0	17.95	7.61	8.96	94.56	0.076	
	14-Jun	90	6.30	6.43	7.72	62.53	0.079
		85	6.49	6.40	7.85	63.88	0.078
		80	6.71	6.39	8.06	65.96	0.078
		75	7.03	6.37	8.07	66.57	0.078
		70	7.19	6.35	7.76	64.26	0.078
		65	7.36	6.34	7.67	63.79	0.078
		60	7.68	6.31	7.35	61.61	0.078
		55	7.95	6.30	7.24	61.09	0.078
		50	8.30	6.31	7.63	64.93	0.078
		45	9.50	6.34	7.76	67.96	0.077
		40	12.10	6.40	7.45	69.30	0.078
		35	14.20	6.46	7.43	72.43	0.079
		30	15.60	6.51	7.89	79.27	0.078
25		16.96	6.60	8.88	91.82	0.076	
20	17.60	6.71	9.24	96.82	0.076		
15	19.34	6.98	9.34	101.40	0.076		
10	21.47	7.04	8.88	100.55	0.076		
5	23.74	7.05	8.51	100.63	0.074		
0	24.27	7.06	8.49	101.39	0.075		

Table A-1. (Continued)

Station	DATE	Depth (F)	Temp ?C	pH	DO (mg/L)	DO (%)	Cond (mS/cm)
BZ3 (Con't)	17-Jul	97	6.13	6.19	6.02	48.55	0.076
		95	6.19	6.01	6.67	53.87	0.076
		90	6.41	5.98	6.69	54.33	0.076
		85	6.70	5.98	6.99	57.19	0.075
		80	6.93	5.99	7.06	58.09	0.075
		75	7.28	5.98	7.09	58.85	0.075
		70	7.90	5.97	6.88	57.98	0.075
		65	8.19	5.96	6.62	56.18	0.075
		60	8.41	5.94	6.18	52.73	0.075
		55	8.80	5.91	5.43	46.77	0.076
		50	9.75	5.93	5.40	47.58	0.075
		45	10.95	5.95	5.78	52.37	0.075
		40	13.62	6.01	5.79	55.72	0.076
		35	15.82	6.08	6.23	62.89	0.075
		30	17.89	6.20	7.11	74.94	0.073
		25	19.74	6.28	7.81	85.47	0.073
		20	22.37	6.45	8.25	95.05	0.071
		15	23.78	6.84	8.39	99.28	0.070
		10	24.18	7.22	8.44	100.63	0.070
		5	24.36	7.33	8.40	100.49	0.070
	0	24.48	7.35	8.49	101.79	0.070	
	07-Aug	100	6.44	5.95	5.45	44.30	0.078
		95	6.57	5.87	5.33	43.46	0.078
		90	6.71	5.83	5.43	44.43	0.078
		85	6.72	5.81	5.43	44.45	0.078
		80	7.07	5.79	5.61	46.32	0.077
		75	7.50	5.77	5.22	43.56	0.078
		70	7.79	5.75	5.07	42.61	0.077
		65	8.38	5.73	4.59	39.14	0.078
		60	8.88	5.72	3.86	33.31	0.078
		55	9.29	5.70	3.36	29.28	0.078
		50	10.01	5.69	3.32	29.43	0.078
		45	11.59	5.73	3.98	36.60	0.077
		40	13.84	5.77	3.89	37.62	0.077
		35	16.39	5.83	3.98	40.66	0.077
30		19.07	5.91	4.82	52.04	0.075	
25	21.11	6.00	5.50	61.84	0.075		
20	23.50	6.18	6.65	78.28	0.072		
15	24.76	6.56	7.75	93.40	0.070		
10	25.45	7.31	8.19	99.97	0.070		
5	26.59	7.10	7.80	97.20	0.070		
0	26.76	7.08	7.90	98.75	0.070		

Table A-1. (Continued)

Station	DATE	Depth (F)	Temp ?C	pH	DO (mg/L)	DO (%)	Cond (mS/cm)
BZ3 (Con't)	25-Sep	100	6.45	6.07	1.86	15.12	0.082
		95	6.52	5.99	1.74	14.17	0.081
		90	6.85	5.94	1.63	13.39	0.080
		85	7.25	5.93	1.87	15.51	0.080
		80	7.84	5.94	2.13	17.92	0.080
		75	8.35	5.93	1.97	16.78	0.080
		70	8.91	5.93	1.11	9.59	0.080
		65	9.61	5.93	0.70	6.15	0.080
		60	10.13	5.94	0.51	4.53	0.080
		55	11.17	5.96	1.16	10.56	0.079
		50	13.18	6.00	0.98	9.34	0.079
		45	14.80	6.03	0.87	8.59	0.078
		40	17.25	6.07	0.04	0.42	0.079
		35	19.13	6.27	4.17	45.08	0.081
		30	21.20	6.49	5.98	67.36	0.072
		25	21.46	6.71	7.31	82.75	0.071
		20	21.48	6.79	7.49	84.82	0.071
		15	21.48	6.86	7.55	85.50	0.071
		10	21.48	6.89	7.58	85.84	0.071
		5	21.46	6.93	7.68	86.94	0.071
	0	21.46	6.95	7.63	86.38	0.071	
	24-Oct	95	7.28	6.14	0.13	1.10	0.083
		90	7.47	6.07	0.00	0.00	0.082
		85	7.81	6.04	0.00	0.00	0.082
		80	8.28	6.03	0.00	0.00	0.083
		75	8.96	6.05	0.00	0.00	0.084
		70	9.63	6.07	0.00	0.00	0.083
		65	10.86	6.09	0.00	0.00	0.082
		60	12.46	6.26	2.31	21.60	0.082
		55	13.35	6.48	5.53	52.90	0.080
		50	14.68	6.56	5.57	54.80	0.076
		45	14.86	6.60	6.07	60.00	0.076
		40	14.97	6.64	6.30	62.40	0.076
		35	14.98	6.67	6.41	63.50	0.076
		30	15.01	6.73	6.53	64.70	0.076
		25	15.06	6.74	6.61	65.70	0.076
20		15.11	6.77	6.91	68.70	0.075	
15	15.16	6.81	7.12	70.90	0.075		
10	15.32	6.84	7.15	71.40	0.075		
5	15.40	6.89	7.50	75.00	0.075		
0	12.79	7.21	9.03	85.30	0.099		
0	15.53	6.90	7.83	78.60	0.075		

Table A-1. (Continued)

Station	DATE	Depth (F)	Temp ?C	pH	DO (mg/L)	DO (%)	Cond (mS/cm)
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BZ4	24-Apr	0	12.32	7.58	*	*	0.036
	24-May	0	16.72	8.55	10.40	106.98	0.035
	14-Jun	0	23.04	7.04	7.80	91.01	0.037
	17-Jul	0	10.74	6.75	11.20	100.98	0.040
	07-Aug	0	10.80	6.30	9.86	89.02	0.045
	25-Sep	0	13.29	6.69	8.33	79.58	0.065
	24-Oct	0	12.81	7.10	8.12	76.70	0.047
BZ5	24-Apr	0	14.60	6.98	*	*	0.090
	24-May	0	13.35	8.20	9.63	92.13	0.088
	14-Jun	0	18.27	6.86	8.10	86.05	0.082
	17-Jul	0	24.04	6.93	7.14	84.91	0.078
	07-Aug	0	20.87	6.58	7.08	79.24	0.091
	25-Sep	0	16.79	6.75	7.82	80.57	0.079
	24-Oct	0	12.79	7.21	9.03	85.30	0.099
BZ6	24-Apr	122	5.07	6.87	*	*	0.081
		120	5.11	6.77	*	*	0.081
		115	5.14	6.76	*	*	0.083
		110	5.24	6.77	*	*	0.082
		105	5.26	6.76	*	*	0.081
		100	5.32	6.77	*	*	0.081
		95	5.36	6.77	*	*	0.081
		90	5.39	6.77	*	*	0.081
		85	5.46	6.77	*	*	0.087
		80	5.47	6.78	*	*	0.081
		75	5.57	6.79	*	*	0.081
		70	5.67	6.79	*	*	0.081
		65	5.81	6.80	*	*	0.081
		60	5.92	6.82	*	*	0.080
		55	6.21	6.84	*	*	0.080
		50	6.47	6.86	*	*	0.081
		45	6.59	6.88	*	*	0.080
		40	6.94	6.91	*	*	0.080
		35	7.17	6.93	*	*	0.080
		30	7.56	6.97	*	*	0.080
		25	8.08	7.08	*	*	0.080
20	8.33	7.03	*	*	0.079		
15	8.62	7.07	*	*	0.079		
10	8.79	7.10	*	*	0.080		
5	9.22	7.13	*	*	0.079		
0	10.62	7.20	*	*	0.080		

Table A-1. (Continued)

Station	DATE	Depth (F)	Temp ?C	pH	DO (mg/L)	DO (%)	Cond (mS/cm)
BZ6 (Con't)	24-May	124	5.58	7.60	9.19	73.09	0.078
		120	5.57	7.52	7.80	62.02	0.079
		115	5.59	7.49	8.17	64.99	0.079
		110	5.57	7.45	9.33	74.18	0.078
		105	5.61	7.39	9.29	73.94	0.078
		100	5.60	7.33	9.40	74.80	0.078
		95	5.63	7.29	9.48	75.49	0.078
		90	5.94	7.27	9.11	73.12	0.078
		85	6.07	7.26	8.78	70.70	0.078
		80	6.21	7.26	8.88	71.76	0.078
		75	6.45	7.26	8.91	72.44	0.078
		70	6.61	7.24	8.82	72.00	0.078
		65	6.74	7.23	8.80	72.07	0.077
		60	6.93	7.23	9.09	74.79	0.077
		55	7.04	7.22	9.06	74.75	0.077
		51	7.12	7.22	9.03	74.65	0.077
		45	7.48	7.22	8.92	74.40	0.077
		40	8.39	7.25	9.02	76.93	0.077
		35	9.64	7.29	9.37	82.34	0.076
		30	10.88	7.35	9.72	87.93	0.076
	25	12.45	7.40	9.87	92.54	0.076	
	20	14.99	7.45	9.09	90.14	0.075	
	15	16.64	7.49	8.58	88.12	0.076	
	10	17.42	7.54	8.64	90.19	0.076	
	5	17.61	7.58	8.65	90.65	0.076	
	0	18.22	7.59	8.71	92.43	0.076	
	14-Jun	126	5.70	6.31	6.80	54.25	0.080
		120	5.71	6.26	7.04	56.17	0.079
		115	5.72	6.24	7.03	56.11	0.079
		110	5.75	6.22	7.08	56.55	0.079
		105	5.76	6.20	7.11	56.81	0.079
		100	5.82	6.19	7.49	59.93	0.079
		95	6.03	6.19	7.71	62.02	0.078
90		6.17	6.18	8.13	65.63	0.078	
85		6.36	6.19	8.24	66.84	0.078	
80		6.60	6.20	8.48	69.20	0.078	
75		6.86	6.20	8.38	68.83	0.078	
70		7.20	6.21	7.95	65.85	0.078	
65		7.37	6.21	8.17	67.96	0.078	
60	7.52	6.21	8.21	68.55	0.078		
55	7.93	6.23	8.31	70.08	0.077		

Table A-1. (Continued)

Station	DATE	Depth (F)	Temp ?C	pH	DO (mg/L)	DO (%)	Cond (mS/cm)
BZ6 (Con't)	14-Jun (Con't)	50	8.61	6.26	8.46	72.53	0.077
		45	9.20	6.29	8.57	74.52	0.077
		40	11.30	6.35	8.24	75.27	0.077
		40	11.82	6.37	7.85	72.56	0.078
		35	13.82	6.39	7.72	74.63	0.079
		30	15.68	6.45	8.14	81.92	0.078
		25	17.09	6.60	9.22	95.59	0.075
		20	17.97	6.88	9.50	100.30	0.076
		15	18.99	7.10	9.62	103.70	0.076
		10	23.93	7.06	8.40	99.68	0.076
		5	24.08	7.07	8.37	99.61	0.076
		0	24.48	7.08	8.41	100.83	0.076
	17-Jul	123	5.83	5.96	5.37	42.98	0.077
		120	5.83	5.92	5.78	46.26	0.077
		115	5.84	5.92	5.90	47.23	0.077
		110	5.86	5.91	5.92	47.42	0.076
		105	5.88	5.91	6.07	48.64	0.076
		100	5.91	5.90	6.09	48.84	0.076
		95	6.02	5.91	6.45	51.87	0.076
		90	6.32	5.93	7.02	56.89	0.075
		85	6.50	5.95	7.15	58.20	0.075
		80	6.85	5.95	7.40	60.77	0.075
		75	7.24	5.96	7.39	61.27	0.074
		70	7.85	5.97	7.34	61.78	0.074
		65	8.36	5.98	7.40	63.06	0.074
		60	8.48	5.99	7.44	63.59	0.074
		55	9.44	5.99	7.28	63.67	0.074
		50	10.85	5.99	6.75	61.02	0.074
		45	13.70	6.01	6.24	60.16	0.075
		40	15.95	6.09	6.71	67.92	0.074
		35	17.75	6.22	7.48	78.62	0.072
		30	19.99	6.42	8.66	95.24	0.071
		25	22.58	6.48	8.37	96.82	0.070
		20	23.54	6.71	8.18	96.36	0.070
		15	23.65	6.97	8.28	97.74	0.070
		10	23.76	7.18	8.40	99.36	0.070
5	24.07	7.27	8.50	101.13	0.070		
0	24.29	7.28	8.44	100.83	0.070		

Table A-1. (Continued)

Station	DATE	Depth (F)	Temp ?C	pH	DO (mg/L)	DO (%)	Cond (mS/cm)
BZ6 (Con't)	07-Aug	115	5.98	6.10	4.92	39.53	0.080
		110	5.96	5.97	5.02	40.31	0.079
		105	6.00	5.90	5.11	41.08	0.079
		100	6.11	5.86	5.21	42.00	0.078
		95	6.18	5.84	5.56	44.90	0.078
		90	6.37	5.83	5.85	47.47	0.077
		85	6.68	5.83	6.28	51.35	0.077
		80	6.99	5.81	6.18	50.93	0.077
		75	7.35	5.80	6.06	50.38	0.076
		70	7.86	5.79	5.70	47.99	0.077
		65	8.48	5.78	5.47	46.75	0.076
		60	8.81	5.79	5.74	49.45	0.076
		55	9.33	5.80	5.84	50.94	0.076
		50	10.00	5.80	5.65	50.07	0.076
		45	11.66	5.80	5.24	48.26	0.076
		40	13.35	5.82	4.57	43.72	0.077
		35	15.70	5.89	4.83	48.63	0.076
		30	18.15	5.94	5.28	55.95	0.074
		25	21.02	6.06	6.18	69.36	0.074
		20	23.55	6.15	6.36	74.94	0.071
		15	24.71	6.56	7.61	91.63	0.070
		10	25.30	6.89	7.89	96.04	0.070
		5	25.90	7.48	8.00	98.45	0.070
		0	26.50	7.25	7.82	97.29	0.070
	25-Sep	120	6.21	5.97	0.58	4.69	0.089
		115	6.17	5.93	0.32	2.58	0.081
		111	6.15	5.88	0.90	7.26	0.081
		105	6.29	5.87	1.30	10.53	0.080
		100	6.37	5.86	2.10	17.04	0.080
		95	6.52	5.86	2.51	20.44	0.079
		90	6.73	5.88	2.99	24.48	0.079
		85	7.01	5.89	3.34	27.54	0.079
		80	7.54	5.90	3.35	27.98	0.079
		75	8.13	5.91	2.71	22.97	0.079
		70	8.69	5.91	1.98	17.01	0.079
65	9.38	5.92	1.82	15.89	0.079		
60	10.68	5.96	2.04	18.37	0.078		
55	11.66	5.97	1.73	15.93	0.078		
50	13.38	5.99	0.94	9.00	0.078		
45	15.78	6.02	0.21	2.12	0.078		
40	17.88	6.03	0.00	0.00	0.078		
35	19.17	6.12	0.67	7.25	0.079		

Table A-1. (Continued)

Station	DATE	Depth (F)	Temp ?C	pH	DO (mg/L)	DO (%)	Cond (mS/cm)	
BZ6 (Con't)	25-Sep (Con't)	30	19.84	6.15	0.60	6.58	0.078	
		25	21.04	6.35	3.52	39.52	0.073	
		20	21.57	6.63	7.04	79.87	0.071	
		15	21.53	6.77	7.17	81.28	0.071	
		10	21.55	6.83	7.48	84.83	0.071	
		5	21.58	6.90	7.57	85.90	0.071	
		0	21.56	6.93	7.67	87.00	0.071	
	24-Oct	124	6.34	6.46	0.00	0.00	0.00	0.088
		120	6.34	6.47	0.00	0.00	0.00	0.083
		115	6.34	6.32	0.00	0.00	0.00	0.083
		111	6.38	6.21	0.00	0.00	0.00	0.081
		105	6.38	6.15	0.02	0.20	0.20	0.081
		100	6.48	6.09	0.41	3.30	3.30	0.081
		95	6.80	6.08	1.07	8.70	8.70	0.080
		90	7.18	6.07	1.45	12.00	12.00	0.080
		85	7.62	6.07	1.52	12.70	12.70	0.080
		80	8.58	6.06	0.31	2.60	2.60	0.081
		75	9.23	6.07	0.00	0.00	0.00	0.081
		70	9.81	6.08	0.00	0.00	0.00	0.081
		65	10.93	6.10	0.00	0.00	0.00	0.081
		60	12.75	6.14	0.00	0.00	0.00	0.080
		55	13.85	6.27	2.19	21.20	21.20	0.079
		50	14.47	6.37	3.87	38.00	38.00	0.077
		45	14.57	6.47	4.83	47.50	47.50	0.077
		40	14.81	6.52	5.35	52.90	52.90	0.076
		35	15.03	6.69	6.72	66.70	66.70	0.076
		35	15.13	6.76	7.05	70.20	70.20	0.075
		30	15.11	6.74	6.84	68.00	68.00	0.075
		20	15.17	6.79	7.14	71.10	71.10	0.075
		15	15.17	6.83	7.23	72.00	72.00	0.075
		10	15.27	6.84	7.38	73.60	73.60	0.075
		5	15.32	6.90	7.47	74.60	74.60	0.075
		0	15.45	6.93	7.86	78.70	78.70	0.075

Table A-1. (Continued)

Station	DATE	Depth (F)	Temp ?C	pH	DO (mg/L)	DO (%)	Cond (mS/cm)
BZ7	24-Apr	50	6.94	6.84	*	*	0.080
		45	7.05	6.84	*	*	0.080
		40	7.27	6.84	*	*	0.080
		35	8.42	6.89	*	*	0.084
		30	9.91	6.97	*	*	0.084
		25	10.87	7.06	*	*	0.078
		20	12.01	7.15	*	*	0.076
		15	12.60	7.18	*	*	0.077
		10	12.99	7.21	*	*	0.076
		5	13.45	7.24	*	*	0.077
		0	15.40	7.27	*	*	0.085
	24-May	50	7.90	7.38	9.57	80.65	0.078
		45	8.10	7.31	9.34	79.10	0.078
		40	8.59	7.28	9.16	78.50	0.078
		35	11.18	7.28	8.71	79.34	0.081
		30	13.50	7.29	8.75	83.99	0.084
		25	15.13	7.34	8.93	88.82	0.079
		20	16.00	7.38	9.44	95.65	0.076
		15	16.57	7.45	9.75	99.99	0.076
		10	17.00	7.47	9.83	101.72	0.076
		5	17.38	7.51	9.70	101.18	0.076
		0	18.03	7.54	9.59	101.38	0.076
	14-Jun	50	8.41	6.56	6.19	52.82	0.080
		45	8.42	6.42	6.27	53.51	0.079
		40	8.55	6.33	6.42	54.96	0.079
		35	9.32	6.29	6.27	54.68	0.079
		30	11.82	6.27	5.96	55.09	0.081
		25	15.31	6.34	6.17	61.61	0.083
		20	17.03	6.46	6.66	68.96	0.082
		15	17.96	6.66	7.68	81.07	0.077
		10	19.74	7.34	7.99	87.44	0.074
		5	20.88	7.92	8.40	94.02	0.073
		0	21.62	7.84	8.24	93.57	0.071

Table A-1. (Continued)

Station	DATE	Depth (F)	Temp ?C	pH	DO (mg/L)	DO (%)	Cond (mS/cm)
BZ7 (Con't)	17-Jul	50	11.24	6.06	3.62	33.02	0.078
		45	12.81	6.06	3.45	32.61	0.078
		40	15.04	6.09	3.47	34.45	0.078
		35	16.26	6.05	4.12	41.98	0.076
		30	17.40	6.09	4.51	47.06	0.076
		25	20.19	6.39	6.91	76.30	0.081
		20	21.51	6.47	7.17	81.25	0.078
		15	24.44	6.65	7.56	90.57	0.071
		10	25.07	7.07	7.95	96.36	0.070
		5	25.35	7.43	8.17	99.54	0.070
		0	25.49	7.53	8.25	100.77	0.070
	07-Aug	50	11.66	5.80	1.41	12.99	0.082
		45	14.66	5.80	1.31	12.90	0.081
		40	16.42	5.81	1.80	18.40	0.080
		35	17.98	5.83	2.60	27.46	0.079
		30	18.76	5.87	3.09	33.16	0.078
		25	20.70	5.99	4.22	47.07	0.079
		20	22.79	6.21	5.78	67.13	0.082
		15	24.84	6.45	6.82	82.32	0.073
		10	27.37	7.02	7.49	94.65	0.070
		5	27.48	7.16	7.45	94.33	0.070
		0	27.52	7.26	7.79	98.71	0.070
	25-Sep	50	14.17	6.27	0.03	0.29	0.088
		45	17.88	6.42	4.59	48.38	0.091
		40	19.34	6.60	6.61	71.76	0.089
		35	20.21	6.67	6.82	75.34	0.084
		30	20.65	6.68	6.55	72.99	0.080
		25	21.21	6.63	6.03	67.93	0.074
		20	21.49	6.72	6.81	77.14	0.071
		15	21.53	6.77	6.87	77.88	0.071
		10	21.52	6.80	7.03	79.68	0.071
		5	21.52	6.84	6.94	78.66	0.071
		0	21.50	6.85	7.08	80.21	0.072

Table A-1. (Continued)

Station	DATE	Depth (F)	Temp ?C	pH	DO (mg/L)	DO (%)	Cond (mS/cm)
BZ-7 (Con't)	24-Oct	50	13.83	6.86	8.58	83.00	0.087
		45	14.26	6.87	8.77	85.60	0.082
		40	14.67	6.88	8.54	84.10	0.078
		35	14.80	6.86	8.39	82.80	0.076
		30	14.86	6.85	8.37	82.80	0.076
		25	14.94	6.85	8.37	82.90	0.076
		20	15.04	6.87	8.47	84.10	0.076
		15	15.14	6.89	8.38	83.40	0.075
		10	15.39	6.92	8.94	89.40	0.075
		5	15.64	7.00	9.39	94.50	0.075
		0	15.94	7.07	9.51	96.20	0.072

* Dissolved Oxygen was not sampled in April due to a probe malfunction

APPENDIX B

**WATER COLUMN CHEMISTRY MONITORING
LABORATORY ANALYSIS CERTIFICATES**

APPENDIX C**SEDIMENT PRIORITY POLLUTANT AND
ARSENIC MONITORING
LABORATORY ANALYSIS CERTIFICATES**

APPENDIX D

**DRINKING WATER MONITORING
LABORATORY ANALYSIS CERTIFICATES**

APPENDIX E
SCOPE OF WORK

**WATER QUALITY MONITORING
AT F.E. WALTER RESERVOIR
DURING 2001**

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1.0 INTRODUCTION

1.1 PURPOSE OF THE MONITORING PROGRAM

The U.S. Army Corps of Engineers (USACE) manages F.E. Walter Reservoir located in northeastern Pennsylvania within the Delaware River Basin. Foremost, F.E. Walter Reservoir provides flood control and a dependable water supply to downstream communities on the Lehigh River. Additionally, the reservoir provides important habitat for fish, waterfowl, and other wildlife, and recreational opportunities through fishing, and boating. Due to the broad range of uses and demands F.E. Walter Reservoir serves, the USACE monitors water quality and other aspects related to reservoir health primarily to ensure public health safety. Water quality monitoring results are compared to state water quality standards and used to diagnose other problems that commonly effect reservoir health such as nutrient enrichment and toxic loadings. This report summarizes the results of water quality monitoring at F.E. Walter Reservoir from April through October 2001. This report also discusses the relevance of the water quality measures to the ecology of the reservoir and makes recommendations toward future water quality monitoring.

1.2 DESCRIPTION OF F.E. WALTER RESERVOIR

F.E. Walter Reservoir is an integral part of the Lehigh River Flood Control Program. The authorized purpose of this project is flood control. The reservoir project was authorized as a white water project as part of Public Law 100-676, Section 6, dated November 17, 1988. Located about 9 miles southeast of Wilkes-Barre, PA, the reservoir dams a drainage area of 288 square miles. The dam can impound up to 35.8 billion gallons of floodwater. The primary surface water input into the reservoir is the Lehigh River as it flows west between Luzerne and Carbon Counties. Bear Creek, a secondary surface water input, enters the reservoir from the north. Tobyhanna Creek drains an area to the southeast and joins the Lehigh River near the headwaters of the reservoir. The reservoir is approximately 3 miles long and about 50 feet deep at the face of the dam. Average annual discharge from the dam into the Lehigh River is approximately 625 cubic feet per second (USGS 1993).

1.3 ELEMENTS OF THE STUDY

The USACE, Philadelphia District, has been monitoring the water quality of F.E. Walter Reservoir since 1975. Over this time, the yearly monitoring designs have evolved to address newly defined problems such as health of public drinking water and

contamination of sediments. The 2001 monitoring program follows that in recent years and includes the following major elements:

- Monthly water quality and bacteria monitoring from April through October to evaluate compliance with the Pennsylvania state water quality standards;
- In an effort to coordinate concurrent studies, additional parameters were collected and analyzed in conjunction with the Lehigh Water Quality Study. This included the addition of a meteorological station on the dam tower;
- Sediment priority pollutant monitoring of semivolatile organics and metals to evaluate sediment toxicity relative to identified screening concentrations; and
- Drinking water monitoring to ensure public health safety by comparing water quality from a drinking water source to standards determined by the Safe Drinking Water Act (SDWA).

2.0 METHODS

2.1 PHYSICAL STRATIFICATION MONITORING

Physical stratification monitoring of the water column of F.E. Walter Reservoir was conducted seven times during 2001, between April and October (Table 2-1). Physical stratification parameters included temperature, dissolved oxygen (DO), percent of DO saturation (dependent on temperature), pH, and conductivity. Monitoring was conducted at seven fixed stations located throughout the reservoir watershed (Fig. 21). Surface water quality was monitored at stations downstream of the reservoir (WA-1), and upstream on Tobyhanna Creek (WA-3), the Lehigh River (WA-4), and Bear Creek (WA-5). Stratification monitoring was conducted at the reservoir-body station WA-2 with water quality measured at the surface to the bottom at 5-ft intervals. Two new stations were added this year on Bear Creek (WA-6) and on Lehigh River (WA-7). All of the water quality monitoring was conducted with a calibrated Hydrolab water quality meter.

In this report, water quality data recorded from stratification monitoring were compared to water quality standards mandated by the Pennsylvania Department of Environmental Protection (PADEP Chapter 93). The standard for DO is a minimum concentration of 5 mg/L, and that for pH is an acceptable range from 6 to 9.

All of the water quality data collected during physical stratification monitoring are summarized in Appendix Table A-1.

2.2 WATER COLUMN CHEMISTRY MONITORING

Water column chemistry monitoring was conducted seven times at F.E. Walter Reservoir between April and October (Table 2-1). Water samples were collected at the seven fixed stations throughout the reservoir drainage area (Fig. 2-1). Surface water samples were collected at stations downstream of the reservoir (WA-1) and upstream on Tobyhanna Creek (WA-3), the Lehigh River (WA-4), and Bear Creek (WA-5). Surface, middle, and bottom water samples were collected at the reservoir-body station WA-2, WA-6, and WA-7. Surface water samples were collected by opening the sample containers approximately 1 foot below the water's surface. Middle and bottom samples were collected with a Van Dorn design horizontal water bottle.

Water samples collected from surface, middle, and bottom depths were analyzed for ammonia, nitrite, nitrate, total Kjeldahl nitrogen (TKN), total phosphorus, total dissolved solids (TDS), total suspended solids (TSS), biochemical oxygen demand (BOD), alkalinity, total organic carbon (TOC), total inorganic carbon (TIC) and chlorophyll *a*. Table 2-2 summarizes the water quality parameters; laboratory method detection limits, state water quality standards, and allowable and achieved maximum hold times for each. Parameters such as BOD went beyond the maximum holding time by one day.

Table 2-1. F.E. Walter Reservoir water quality monitoring schedule for 2001

Date of Sample Collection	Physical Stratification Monitoring (All Stations)	Water Column Chemistry Monitoring (All Stations)	Trophic State Determination (WA-2)	Coliform Bacteria Monitoring (All Stations)	Sediment Priority Pollutant Monitoring (WA-2)	Drinking Water Monitoring*
24 April	X	X	X	X		
23 May	X	X	X	X		
13 June	X	X	X	X		Sets A and B
21 June						Total Coliform/ E. Coli
18 July	X	X	X	X	X	
9 August	X	X	X	X		Sets A
27 September	X	X	X	X		
23 October	X	X	X	X		

* Set A – comprised analyses of nitrate, nitrite, and coliform bacteria contaminants.
Set B – comprised analyses for primary and secondary contaminants.

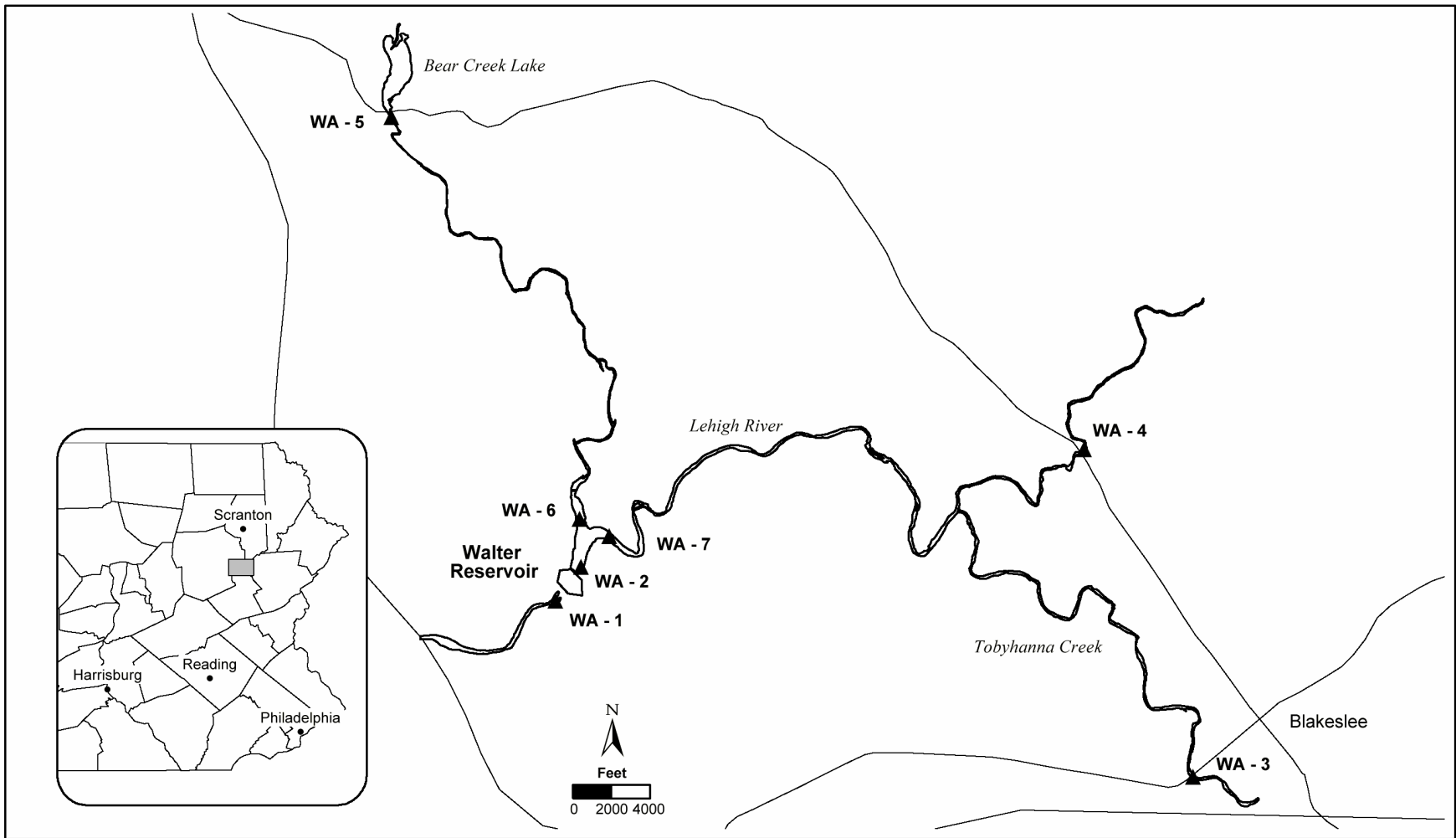


Figure 2-1 Location map for F.E. Walter Reservoir and water quality monitoring stations in 2001

Table 2-2. Water quality test methods, detection limits, state regulatory criteria, and sample holding times for water quality parameters monitored at F.E. Walter Reservoir in 2001					
Parameter	EPA Method	Detection Limit	PADEP Surface Water Quality Criteria	Allowable Hold Times (Days)	Maximum Hold Time Achieved (Days)
Alkalinity	310.3	1 mg/L	minimum 20 mg/L CaCO ₃	14	13
Biochemical Oxygen Demand (BOD)	SM5210B	3 mg/L	None	2	3
Total Phosphorus	365.2	0.05 mg/L	None	28	9
Dissolved Phosphorus	365.2	0.05mg/L	None	28	13
Dissolved Phosphate	365.2	0.05 mg/L	None	28	13
Total Organic Carbon	415.1	5 mg/L	None	28	21
Total Inorganic Carbon	415.1	5 mg/L	None	28	21
* Chlorophyll <i>a</i>	445.0	0-mg/m ³	None	90	60
Total Kjeldahl Nitrogen	351.3	0.20 mg/L	None	28	15
Ammonia	350.3	0.1 mg/L	Temperature and pH dependent	28	14
Nitrate	300	0.5 mg/L	Maximum 10 mg/L (nitrate + nitrite)	2	2
Nitrite	300	0.5 mg/L		2	2
Total Dissolved Solids	160.1	10 mg/L	Maximum 500 mg/L	7	7
Total Suspended Solids	160.2	1 mg/L	None	7	7
* Chlorophyll <i>a</i> samples were allowed this holding time when wrapped tightly in the dark at -20 °C					

2.3 TROPIC STATE DETERMINATION

The trophic state of F.E. Walter Reservoir was determined by methods outlined by Carlson (1977). In general, this method calculates trophic state indices (TSIs) independently for total phosphorus and chlorophyll *a* concentrations, and secchi disk depth. Surface water measures of total phosphorus and chlorophyll *a* from chemistry monitoring were averaged in determining monthly TSI values. Secchi disk depth was measured only in surface waters at the reservoir-body station (WA-2). Trophic state determinations were made using criteria defined by Carlson (1977) and EPA (1983).

2.4 RESERVOIR BACTERIA MONITORING

Monitoring for coliform bacteria contaminants was conducted seven times between April and October at F.E. Walter Reservoir. Surface water samples were collected in the same manner as for chemical parameter samples, and analyzed for total and fecal coliform bacteria contamination. Table 2-3 presents the test methods, detection limits, PADEP standards, and sample holding times for the bacteria parameters monitored at F.E. Walter Reservoir in 2001. The bacteria analytical method was based on a membrane filtration technique. All of the samples were analyzed within their maximum allowable hold times. At the end of the monitoring period, streamflow data (CFS) collected from USGS gauging stations in the region (Blakeslee and Stoddartsville) and precipitation data collected at the dam were used to correlate rainfall patterns with measured bacteria levels (see Section 2.5).

Table 2-3. Water quality test methods, detection limits, PADEP water quality standards, and sample holding times for bacteria parameters monitored at F.E. Walter Reservoir in 2001		
Parameter	Total coliform	Fecal coliform
Test method	SM 9222B	SM9222D
Detection limit	10 clns/100-mls	10 clns/100-ml
PADEP standard	-	Geometric mean less than 200 clns/100-ml (application of this standard is conservative because swimming is not permitted in the reservoir)
Maximum allowable holding time	30 hours	30 hours
Achieved holding time	< 30 hours	< 30 hours

Monthly coliform bacteria counts were compared to the PADEP water quality standard for bacteria. The standard is defined as a maximum geometric mean of 200 colonies/100-ml based on five samples collected on different days. Given our logistical limitations (all monthly sampling conducted on one day), we calculated the geometric mean based on all of the surface samples collected for each month. Although our sampling design does not fully meet PADEP guidelines, we feel that this interpretation of the coliform data meets the intent of the PADEP water quality standard for evaluating F.E. Walter Reservoir bacteria levels. Additionally, application of this standard is conservative because swimming and other human/water contact recreation is prohibited in the reservoir.

2.5 STREAMFLOW AND PRECIPITATION DATA

Streamflow and precipitation data for the principal monitoring months from April to October were compiled from USACE records (Figs. 2-2 through 2-8). Streamflow data were collected from the USGS stations located in Blakeslee and Stoddartsville and reflect rainfall patterns throughout the F.E. Walter Reservoir watershed. Precipitation data was collected by F.E. Walter Reservoir personnel and reflects a more local condition of rainfall pattern.

In April through the middle of May, stream flow slowly decreased from over 1,000-cfs to 300-cfs until two small precipitation events took place at the end of May (Fig. 2-2 and Fig. 2-8). These rain events increased the flow to 600-cfs. After the May rain events, stream flow decreased again to 300-cfs until the middle of June when there was another rain event of over 3 inches. Monthly monitoring in all three months took place when stream flow ranged from 200 to 600-cfs. In the later part of the summer the stream flow decreased to approximately 200-cfs. Monthly monitoring was done at 200-cfs during July and August. Towards the end of September there was a storm event that exceeded 2.0 inches of rain. Monthly monitoring was conducted at a stream flow of approximately 300-cfs on September 25.

2.6 SEDIMENT PRIORITY POLLUTANT MONITORING

Sediment from F.E. Walter Reservoir was monitored for priority pollutant contaminants, Group 2 – metals and semivolatiles. Sediment was collected on 18 July at station WA-2 with a petite ponar grab-sampler. Sediment from the grab-sampler was emptied into a stainless steel mixing bowl and homogenized with a stainless steel spoon. Sediments were contained in appropriately labeled sample jars and stored on ice until shipment to the analytical laboratory. All field equipment used during the handling of reservoir sediments was decontaminated prior to sampling. Decontamination procedures were as follows: detergent wash, first deionized water rinse, 10% nitric acid rinse, second deionized water rinse, hexane rinse, and third deionized water rinse. Table 2-4 summarizes the parameters monitored, method detection limits, sample hold times, and the laboratory methods used in the analyses.

All sediment contaminant concentrations were reported on a dry weight basis, and were calculated as follows:

$$\text{Dry weight concentration (mg/kg)} = \frac{\text{Wet weight concentration (mg/kg)} \times 100}{\% \text{ solid of sample}}$$

Sample-specific detection limits were calculated for the sediment tests because of matrix interference and the conversion from wet weight to dry weight.

April

2-7

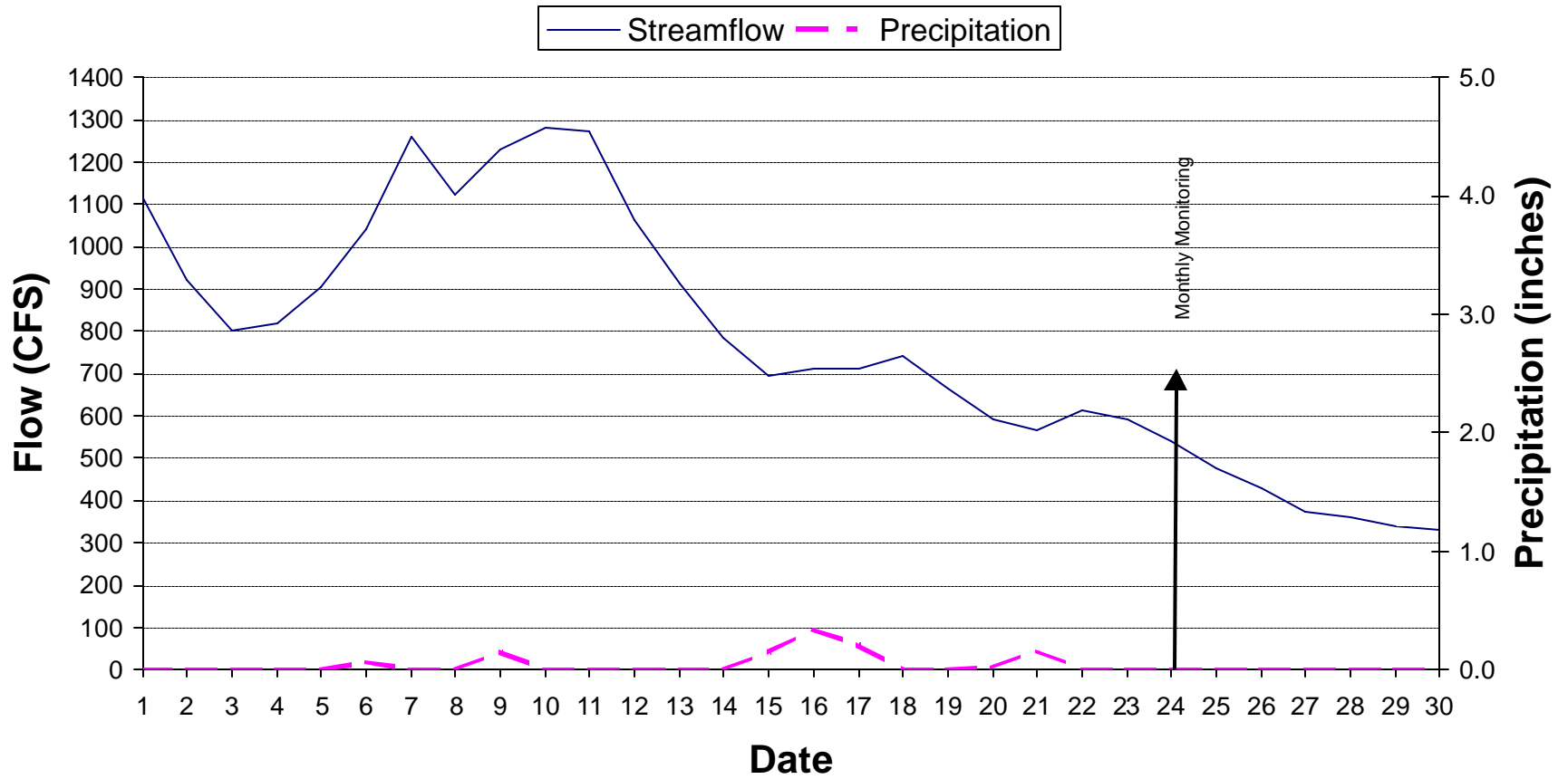


Figure 2-2. April streamflow and precipitation in the vicinity of F.E. Walter Reservoir in 2001

May

2-8

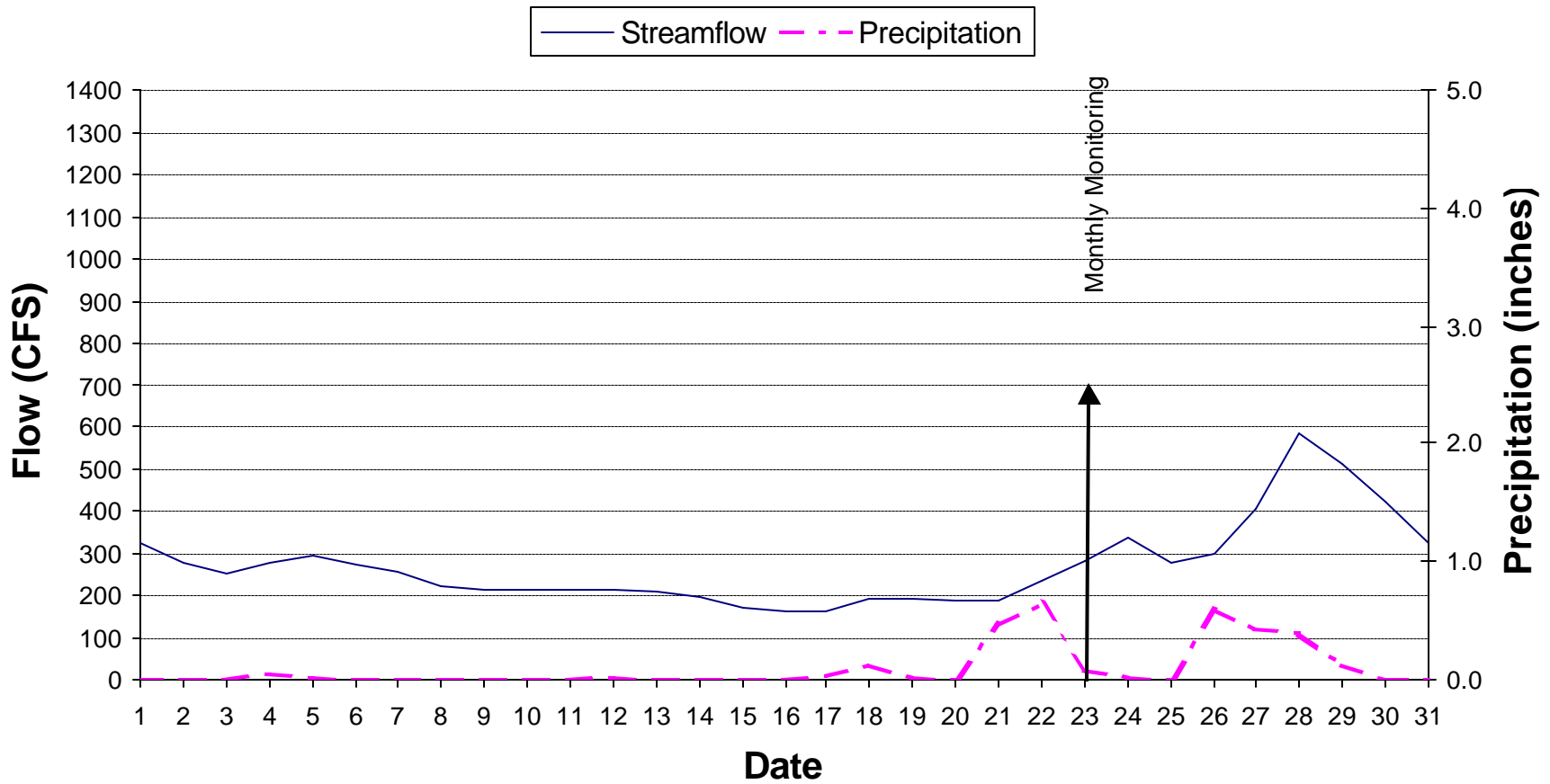


Figure 2-3. May streamflow and precipitation in the vicinity of F.E. Walter Reservoir in 2001

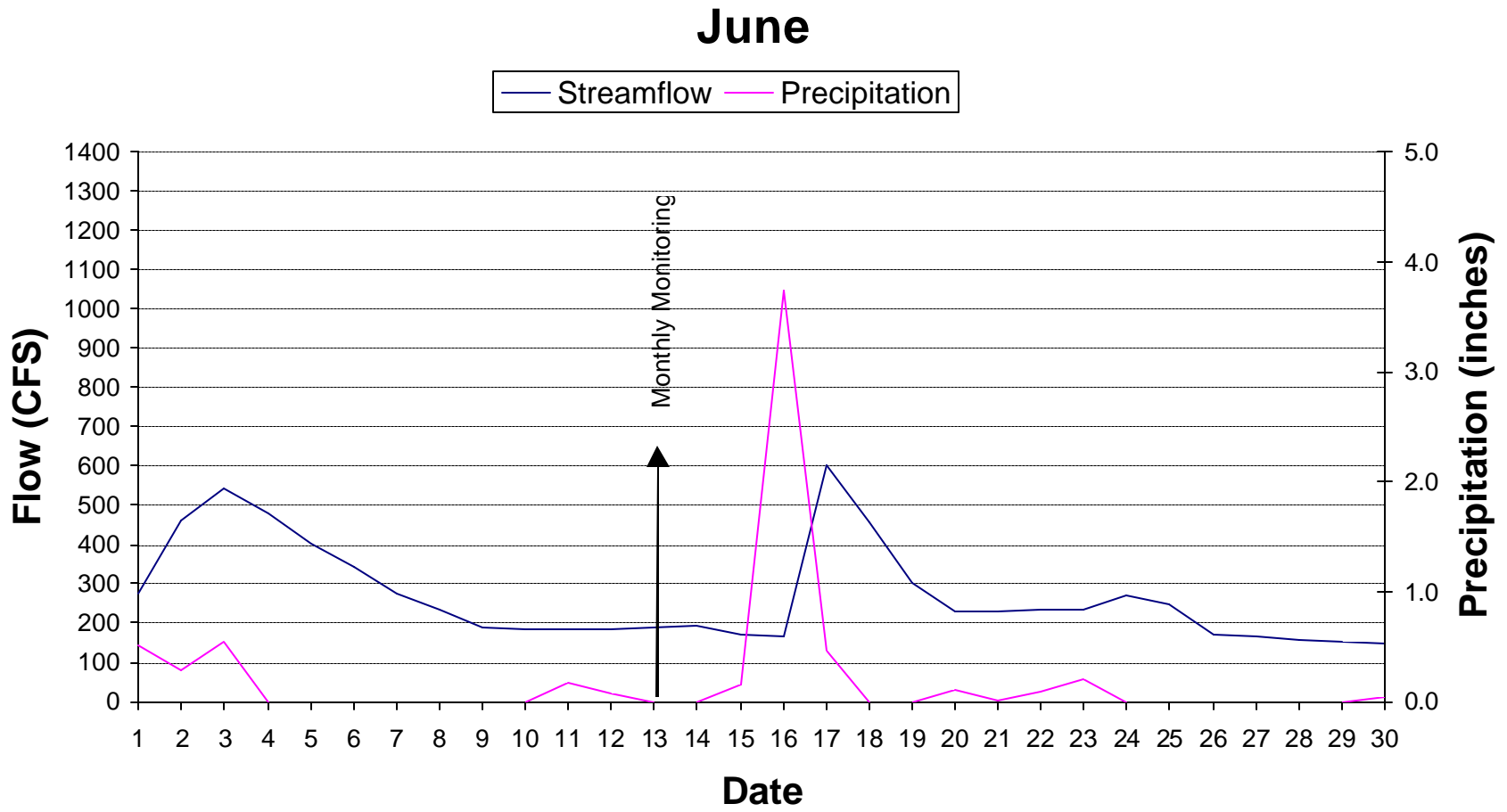


Figure 2-4. June streamflow and precipitation in the vicinity of F.E. Walter Reservoir in 2001

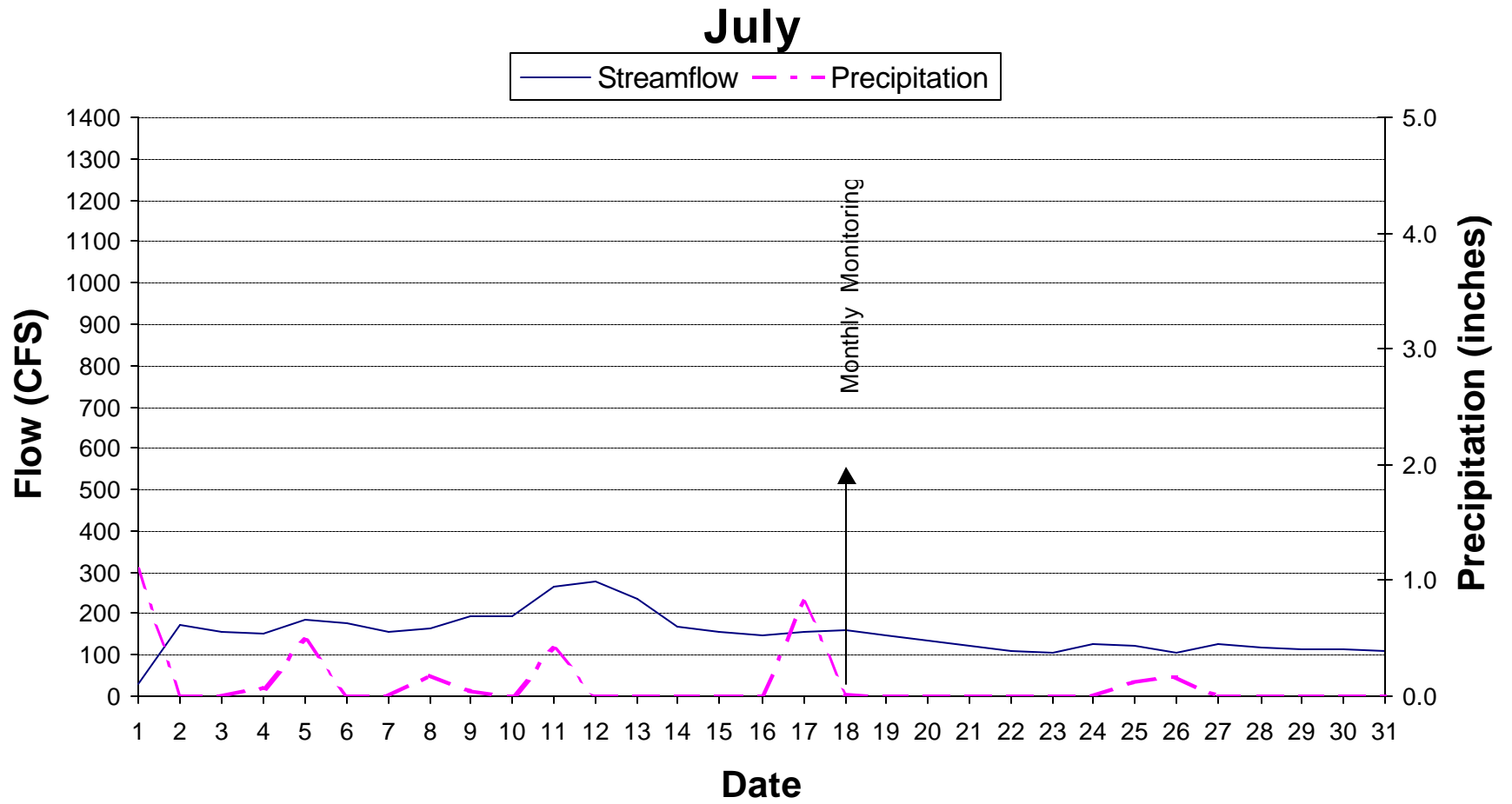


Figure 2-5. July streamflow and precipitation in the vicinity of F.E. Walter Reservoir in 2001

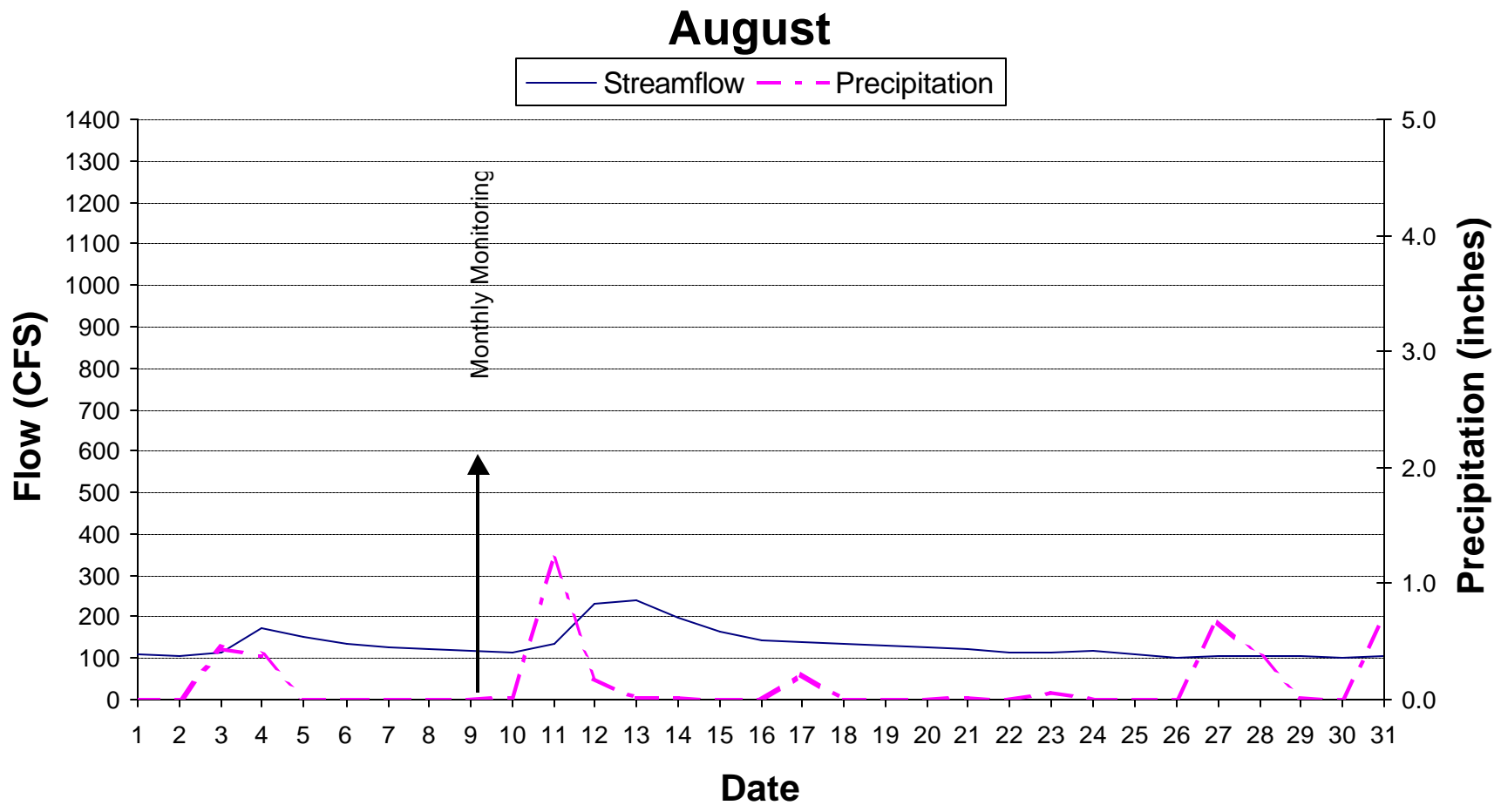


Figure 2-6. August streamflow and precipitation in the vicinity of F.E. Walter Reservoir during August 2001

September

2-12

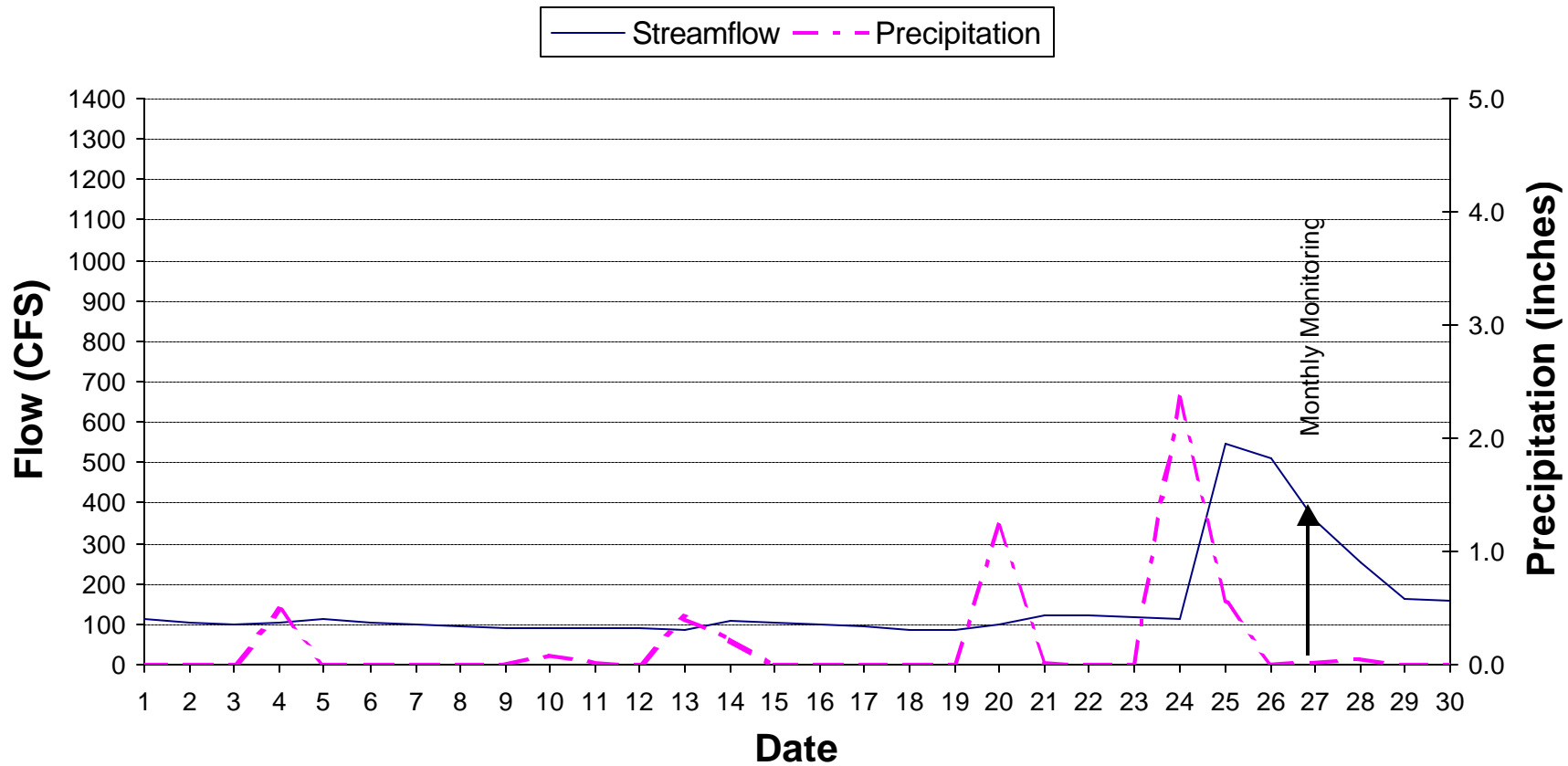


Figure 2-7. September streamflow and precipitation in the vicinity of F.E. Walter Reservoir during September 2001

Figure 2-8. October streamflow and precipitation in the vicinity of F.E. Walter Reservoir in 2001

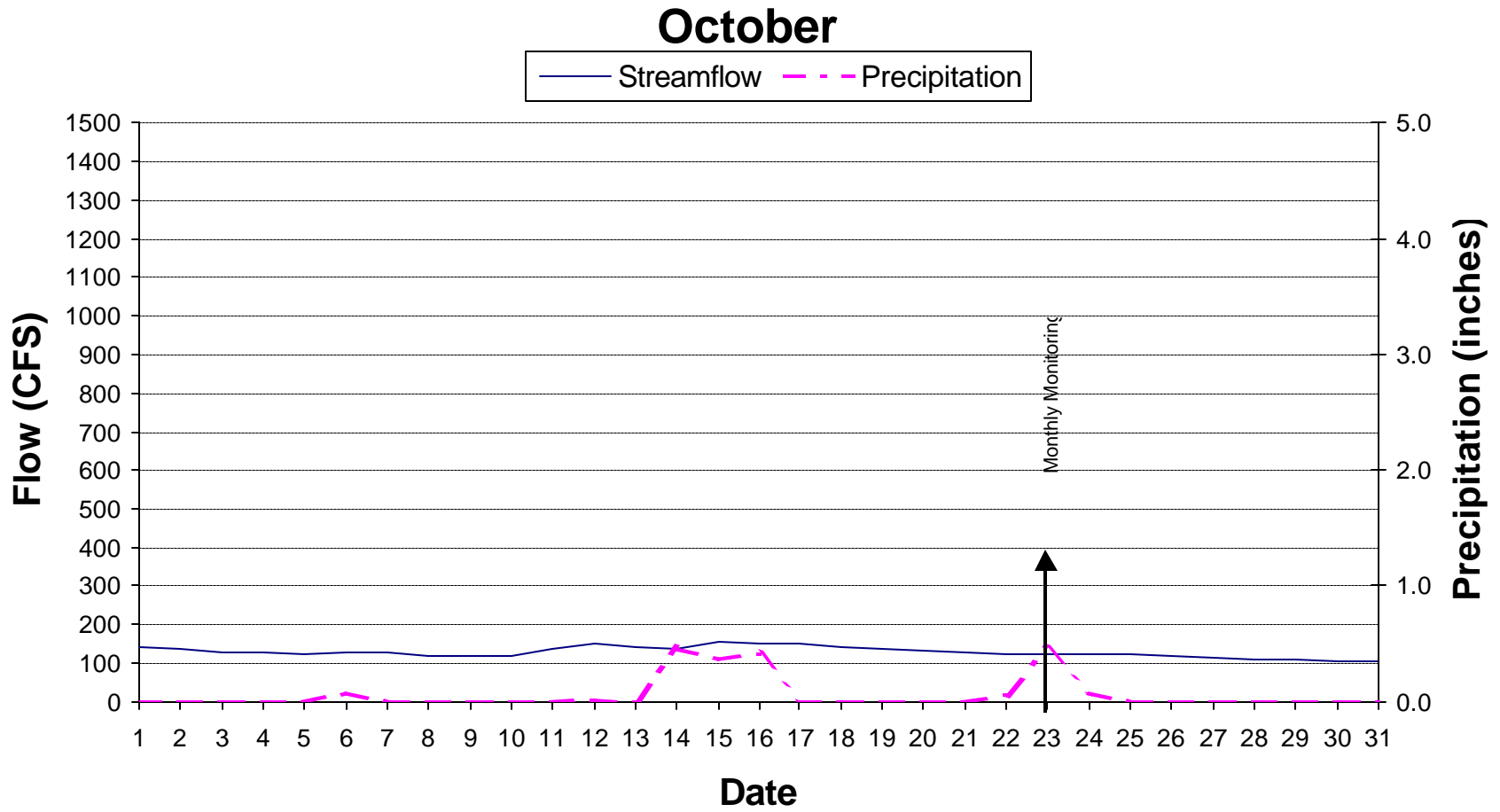


Table 2-4. Analytical methods, detection limits, and sample hold times for sediment priority pollutant metals and semivolatiles (SVOCs) monitored at F.E. Walter in 2001.				
Parameter	EPA Method	Method Detection Limit (mg/kg)	Allowable Hold Time (days)	Max. Hold Time Achieved (days)
CONVENTIONALS				
Percent Solids	STM D2974	0.1		0
METALS				
Aluminum	6010B	80.2	180	12
Antimony	6010B	1.6	180	7
Arsenic	6010B	4	180	7
Barium	6010B	0.4	180	7
Beryllium	6010B	0.4	180	7
Cadmium	6010B	0.4	180	7
Calcium	6010B	1.6	180	7
Chromium	6010B	0.4	180	7
Cobalt	6010B	1.6	180	7
Copper	6010B	0.4	180	7
Iron	6010B	20	180	12
Lead	6010B	1.6	180	7
Magnesium	6010B	1.6	180	7
Manganese	6010B	0.4	180	7
Mercury	6010B	0.07	28	12
Nickel	6010B	0.4	180	7
Potassium	6010B	1.6	180	7
Selenium	6010B	3.0	180	7
Sodium	6010B	1.6	180	7
Vanadium	6010B	1.6	180	7
Zinc	6010B	0.4	180	7
SVOC (mg/kg)				
2,4,5-Trichlorophenol	8270C	397	40	7
2,4,6-Trichlorophenol	8270C	397	40	7
2,4-Dichlorophenol	8270C	397	40	7
2,4-Dimethylphenol	8270C	397	40	7
2,4-Dinitrophenol	8270C	397	40	7
2-Chlorophenol	8270C	397	40	7
2-Methylphenol	8270C	397	40	7
2-Nitrophenol	8270C	397	40	7
3-Methylphenol	8270C	397	40	7
4,6-Dinitro-2-methylphenol	8270C	397	40	7
4-Chloro-3-methylphenol	8270C	397	40	7
4-Methylphenol	8270C	397	40	7
4-Nitrophenol	8270C	397	40	7
Benzoic acid	8270C	397	40	7
Benzyl alcohol	8270C	397	40	7
Pentachlorophenol	8270C	397	40	7
Phenol	8270C	397	40	7

2.7 TREND ANALYSIS METHODS

Annual water quality, sediment contaminant, and drinking water monitoring have been conducted at F.E. Walter Reservoir since 1975. Data collected over these years were compiled in to an electronic database by the USACE (Versar 1996). The compilation of historical data enables the use of statistical trend analysis, an important tool in determining if the water quality at F.E. Walter Reservoir is changing. A number of different trend analysis methods are available, some more complicated than others. For the purpose of this report, we employed two general methods, regression analysis and the Mann-Kendall, or Seasonal Kendall, test.

2.7.1 Regression Analysis

The spatial and temporal distributions of the historical data were examined to determine which parameters had a sufficient time series to warrant meaningful trend analysis. Among the stations monitored for the major water quality parameters (e.g., nutrients, dissolved oxygen, total dissolved solids), downstream station WA-1 and reservoir station WA-2 were consistently sampled over the entire 23-year time series. Water quality trend analyses were limited to the spring (April through June) and summer (July through 15 October) periods. The "spring season" analyses were conceptualized as representing long-term trends associated with inputs to the reservoir during snow melt periods. The "summer season" analyses depicted conditions during periods of maximum productivity and greatest low DO stress. Trends at station WA-1 were analyzed separately to evaluate conditions in the Lehigh River downstream of the reservoir. Regression analyses were used to determine if significant change in parameter concentrations occurred over the past two decades. The slope of the regression line was used to estimate the yearly rate of change. For this report, regression analysis was applied to the water quality parameters: total nitrogen, total phosphorus, total dissolved solids, biochemical oxygen demand, and fecal coliform bacteria.

2.7.2 Mann-Kendall Analysis

In addition to regression analysis, the non-parametric Mann-Kendall test was used to determine trends for individual stations over the time span of historical monitoring at F.E. Walter Reservoir. The Mann-Kendall (or Seasonal Kendall) test scores all combinations of yearly change for the tested parameter with a +1 or -1 depending on whether parameter increased or decreased over the time interval. All of the scores are then summed and compared to the chi-square distribution to determine if the parameter has a significant trend (increasing or decreasing) over the time series. For this report, the Mann-Kendall test was applied to the water quality parameters: dissolved oxygen, ammonia, total nitrogen, total phosphorus, total dissolved solids, biochemical oxygen demand, and total and fecal coliform bacteria.

2.8 DRINKING WATER MONITORING

Drinking water was monitored in the operations building of F.E. Walter Reservoir (Table 2-1). Drinking water parameters were divided into two sets, A and B. Set A comprised bacteria parameters, total and fecal coliform (for analytical methods, see section 2.4), and nitrate and nitrite. Set A samples were collected 13 June and 9 August. Set B samples were analyzed for primary and secondary contaminants and were monitored 13 June. An extra coliform sampling was collected on 21 June. Table 2-5 summarizes the analytical methods, method detection limits, and sample hold times for each set B parameter. All of the drinking water quality parameters were analyzed within their respective maximum allowable hold times during 2001.

Parameter	Detection Limits	EPA Method	Allowable Hold Times (Days)	Maximum Hold Time Achieved (Days)
Aluminum	0.02	200.7	180	12
Antimony	0.05	200.8	180	12
Arsenic	0.05	200.7	180	12
Barium	0.005	200.7	180	12
Beryllium	0.005	200.7	183	12
Cadmium	0.005	200.7	180	12
Chromium	0.005	200.7	180	12
Copper	0.005	200.7	180	12
Iron	0.005	200.7	180	12
Lead	0.001	200.8	N/A	6
Magnesium	0.02	200.7	180	12
Manganese	0.005	200.7	180	12
Mercury	0.0002	245.1	28	12
Nickel	0.005	200.7	180	12
Selenium	1.0	200.8	183	26

Table 2-5. (Continued)				
Parameter	Detection Limits	EPA Method	Allowable Hold Times (Days)	Maximum Hold Time Achieved (Days)
Silver	0.005	200.7	180	12
Sodium	0.02	200.7	180	12
Thallium	0.05	200.8	180	12
Zinc	0.005	200.7	180	12
Alkalinity as CaCO ₃	2.0	SM 2320B	183	2
Chloride	1	300.0	28	12
Cyanide	0.007	SM 4500CN-C&E	14	12
Fluoride	0.1	SM 4500F-B	28	11
Hardness as CaCO ₃	2.0	SM 3500-Ca-D	14	14
Foaming Agents	0.05	SM 5540C	2	1
Nitrate as N	1	SM4500	2	1
Nitrite as N	0.005	SM4500	2	1
Sulfate	5.0	300.0	28	7
Total Dissolved Solids	10.0	SM 2540C	7	5
pH	+/-0.01	150.1	N/A	1
N/A – Not applicable				

3.0 RESULTS AND DISCUSSION

3.1 STRATIFICATION MONITORING

The following sections describe temporal and spatial patterns for the water quality parameters of temperature, dissolved oxygen (DO), percent saturation of DO, pH, and conductivity measured throughout the F.E. Walter Reservoir watershed during 2001. Additionally, patterns related to season and depths are described for station WA-2 located in the deepest portion of the reservoir. All of the data collected during the 2001 monitoring period are presented in Appendix Table A-1.

3.1.1 Temperature

Temperature of the surface waters of the F.E. Walter Reservoir watershed generally followed a similar pattern throughout the monitoring period. Temperatures increased throughout the summer and peaked in August at about 28 °C, and decreased thereafter through October to 12 °C (Fig. 3-1). Temperatures in surface waters of the reservoir-body (station WA-2, -6, and -7) were generally warmer than in tributaries (stations WA-3, WA-4, and WA-5) and downstream of the dam (WA-1) and throughout the monitoring period averaged 3 °C higher.

The water column of F.E. Walter Reservoir was weakly stratified during 2001. Temperatures throughout the water column in all months were somewhat uniform, and the greatest difference between surface and bottom was about 7 °C in June (Fig. 3-2). In April and October, the temperature of the water column was lowest and averaged about 12 °C. In August, the temperature of the water column averaged 25 °C and peaked at 28 °C.

3.1.2 Dissolved Oxygen

Dissolved oxygen (DO) in the surface waters of F.E. Walter Reservoir followed a consistent pattern during 2001. Concentrations among all stations generally averaged 9-mg/L over the monitoring period and ranged from 6 to 11-mg/L (Fig. 3-3). Two exceptions were noted during the July monitoring; DO measured downstream of the reservoir (WA-1) and upstream of the reservoir on Tobyhanna Creek (WA-3) were elevated to supersaturated conditions. The DO concentration at WA-1 was 17.3-mg/L and the DO at WA-3 was 14.6-mg/L. High DO at these stations may be indicative of an algal bloom; however, chlorophyll concentrations measured at these stations were not elevated (see section 3.2.12).

Temperature - Surface Water

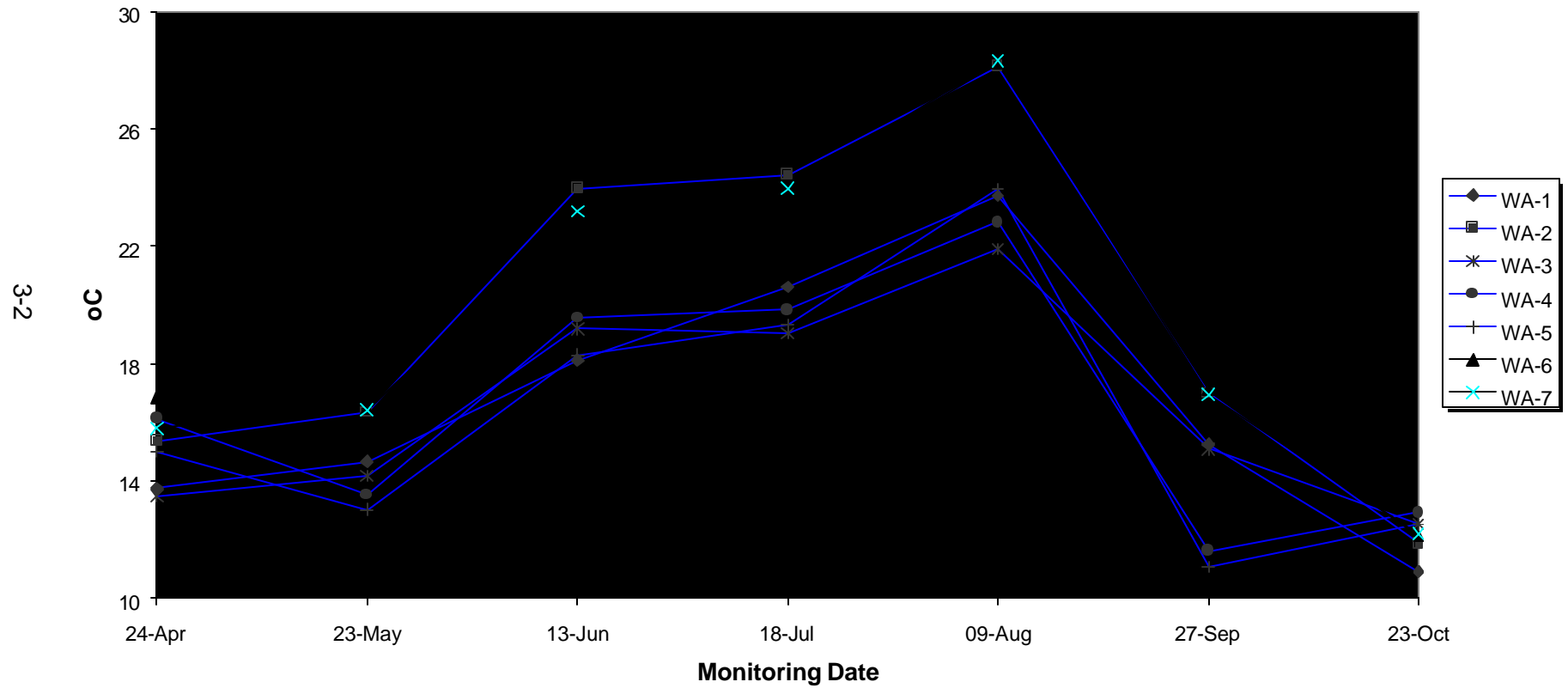


Figure 3-1. Temperature measured in surface waters of F.E. Walter Reservoir during 2001. See Appendix A for a summary of the plotted values.

Temperature - Stratification

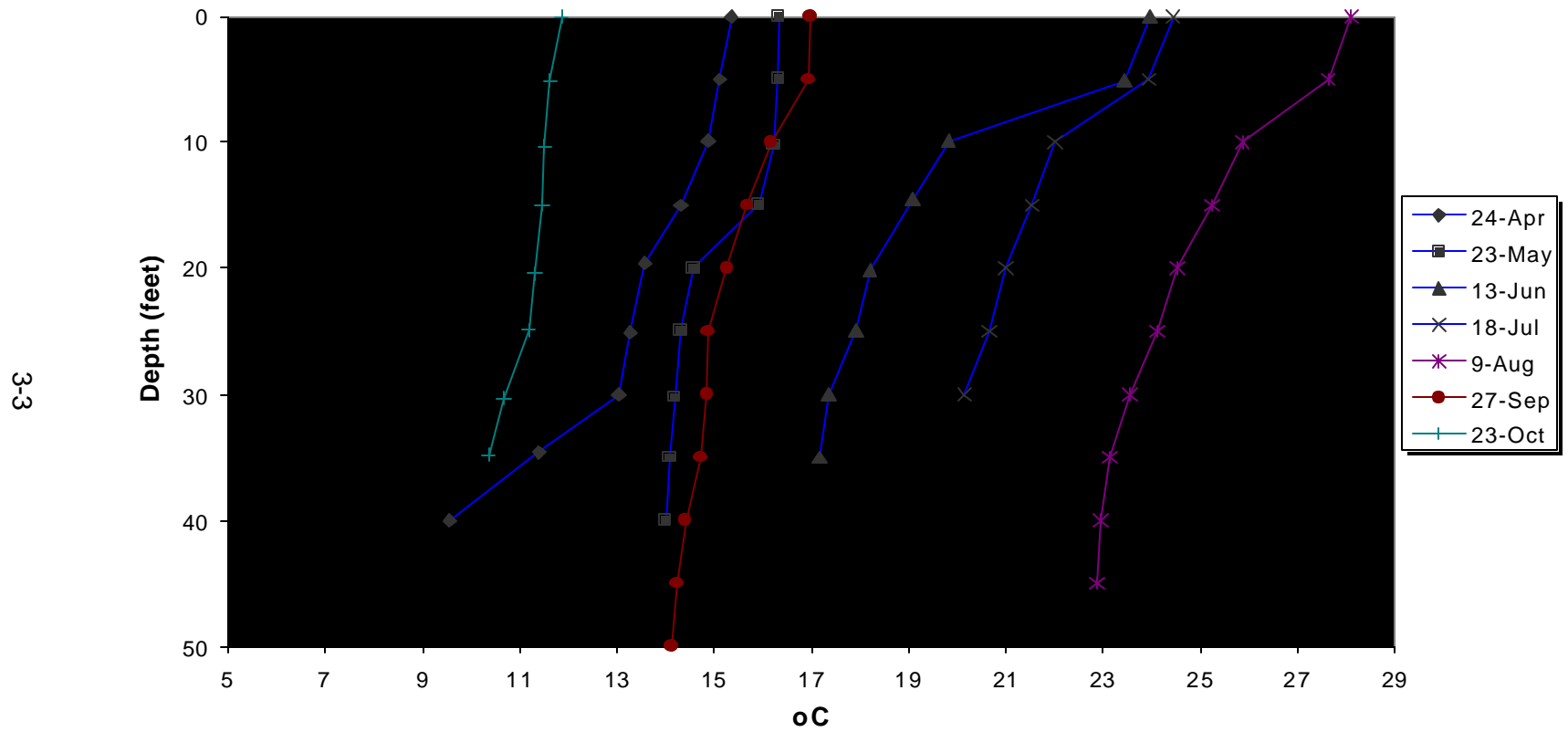


Figure 3-2. Stratification of temperature measured in the water column of F. E. Walter Reservoir at station WA-2 during 2001. See Appendix A for a summary of the plotted values

Dissolved Oxygen - Surface Water

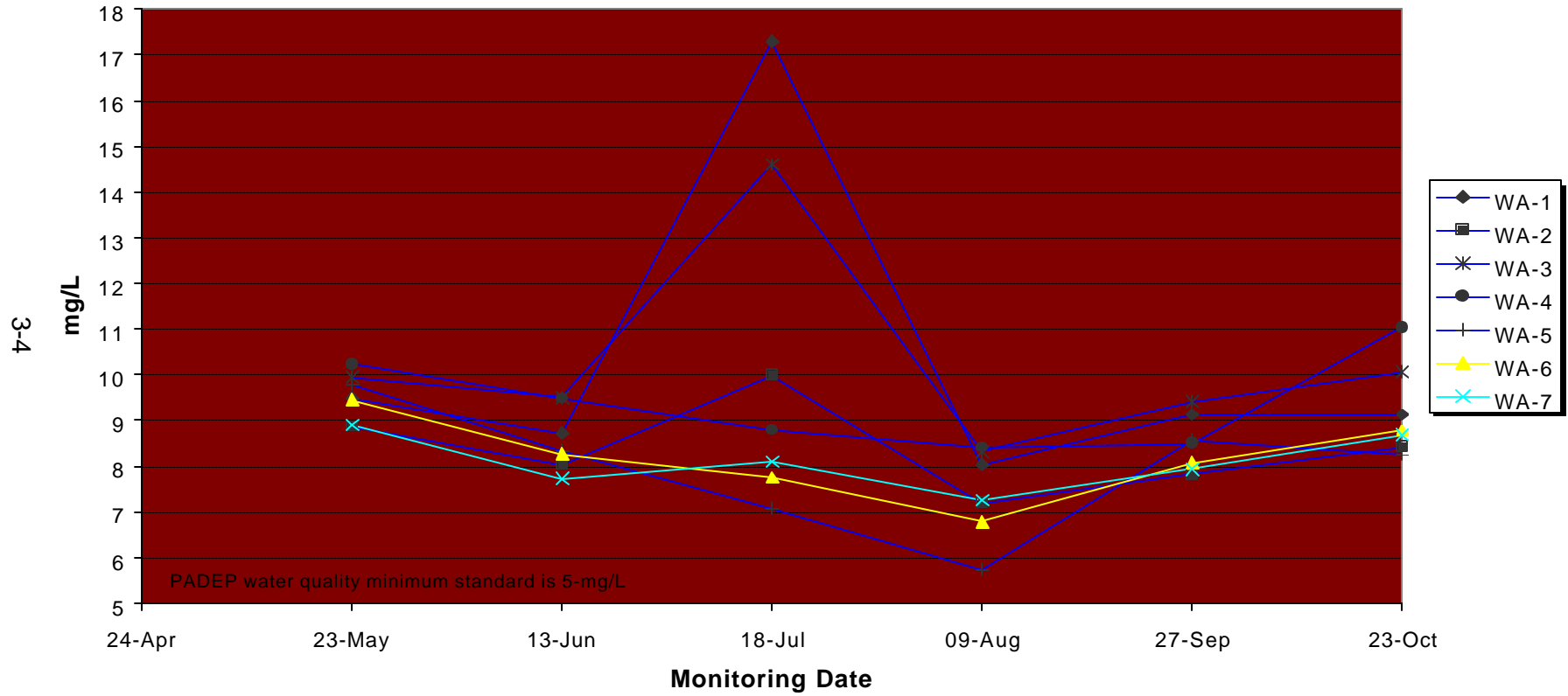


Figure 3-3. Percent saturation of dissolved oxygen measured in surface waters of F. E. Walter Reservoir during 2001. See Appendix A for a summary of the plotted values.

The water column of F.E. Walter Reservoir was weakly stratified with respect to DO during 2001. On most monitoring dates, the water column was relatively uniform with concentrations remaining stable throughout the water column (Fig. 3-4). In April, May, June, September, and October, concentrations were similar and averaged 7.9-mg/L throughout the water column. In July and August, the DO in the bottom 5 to 10 feet of the water column was low with concentrations ranging to 3.9-mg/L at the bottom.

With the exception of the bottom water in August at stations BZ-2 and BZ-7, F.E. Walter Reservoir was in compliance with the PADEP water quality standard for DO during 2001. The PADEP standard for DO is a minimum concentration of 5 mg/L. Throughout the remainder of the monitoring period, concentrations of DO in water column of the reservoir and its tributaries were greater than the minimum standard.

A seasonal trend analysis of DO was conducted for individual stations of F.E. Walter Reservoir, combining 2001 and historical data. The Mann-Kendall statistic was applied to station data collected over the past 22 years or more, separately for spring (April to June) and summer (July to September) seasons. Stations included in the analysis were representative of locations downstream (WA-1), main reservoir (WA-2), and upstream sources on Tobyhanna Creek (WA-3), Lehigh River (WA-4), and Bear Creek (WA-5). From the analysis, none of the spring or summer trends were significant (Table 3-1).

Table 3-1. Seasonal trends of dissolved oxygen concentration at individual stations of F.E. Walter Reservoir calculated with the Mann-Kendall Statistic.					
Station	# of Years spring/summer	Spring		Summer	
		P Level	Rate (mg/L)	P Level	Rate (mg/L)
Surface Water					
WA-1	26	NS	0.005	NS	-0.038
WA-2	27	NS	-0.036	NS	-0.051
WA-3	26	NS	-0.021	NS	-0.024
WA-4	27	NS	-0.022	NS	-0.028
WA-5	23	NS	-0.036	NS	-0.075

3.1.3 pH

Measures of pH in surface waters of F.E. Walter Reservoir generally followed a similar pattern during 2001. Among all stations, pH generally averaged about 7.1 throughout the monitoring period and ranged from 6.2 to 8.4 (Fig. 3-5).

Dissolved Oxygen - Stratification

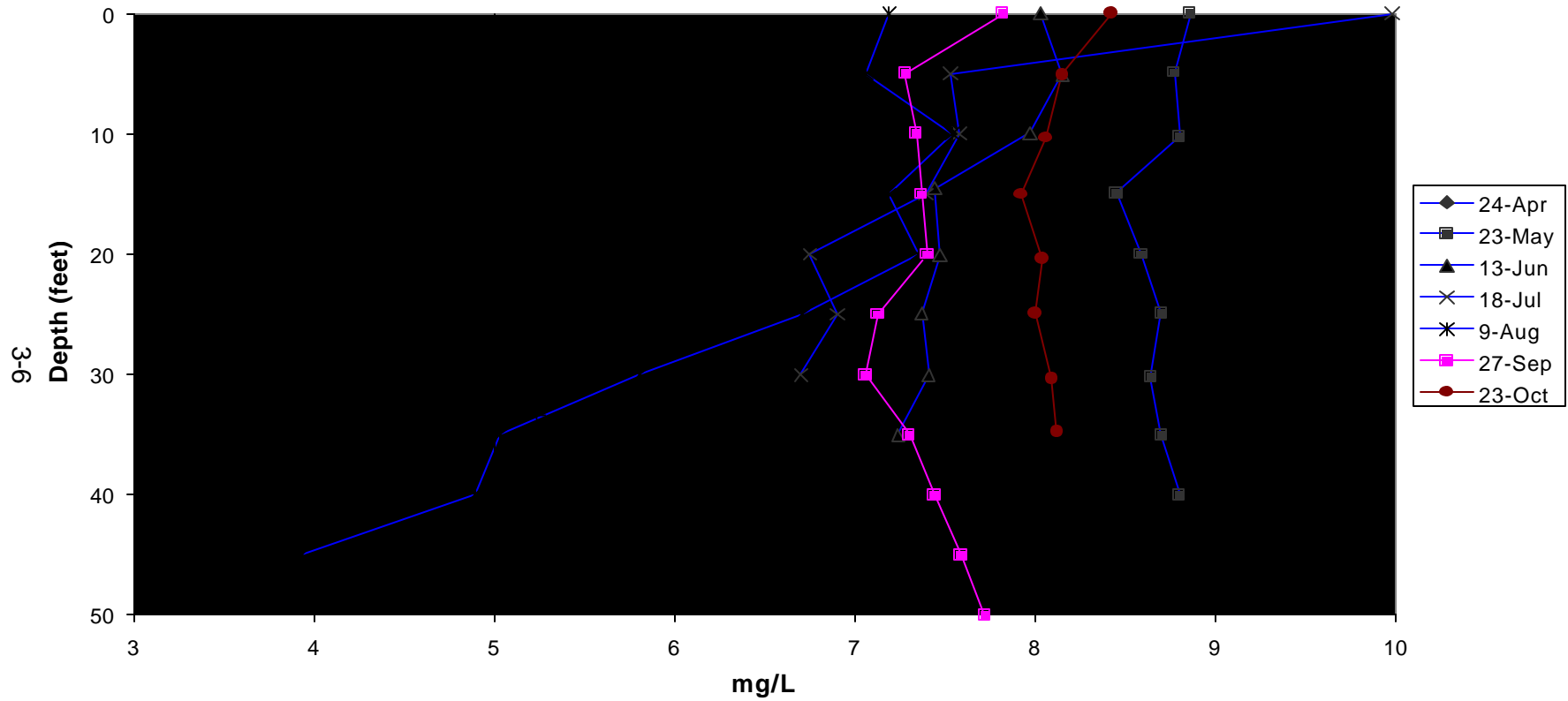


Figure 3-4. Dissolved oxygen measured in surface waters of F.E. Walter Reservoir during 2001. The PADEP water quality standard for DO is a minimum concentration of 5 mg/L. See Appendix A for a summary of the plotted values.

pH - Surface Water

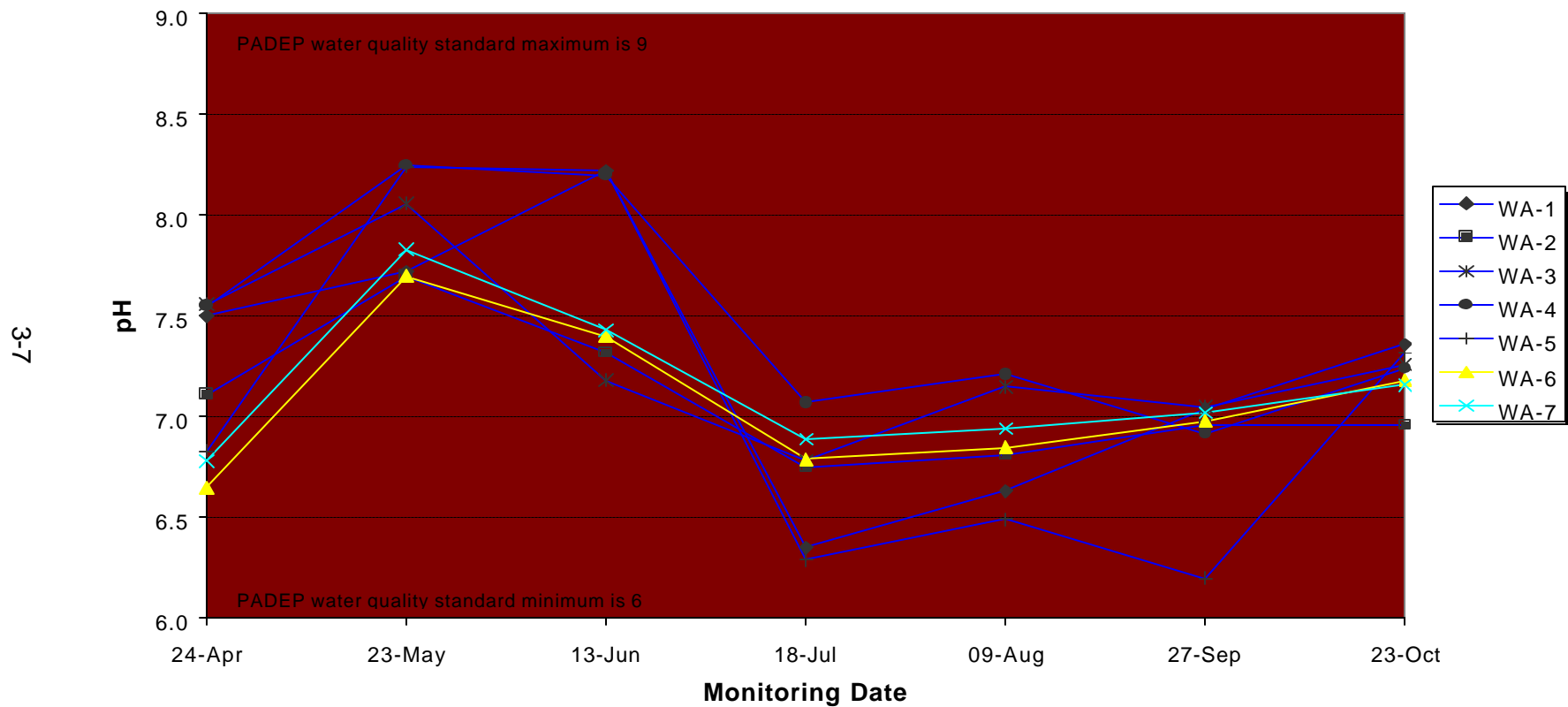


Figure 3-5. Measures of pH in surface waters of F.E. Walter Reservoir during 2001. The PADEP water quality standard for pH is an acceptable range from 6 to 9. See Appendix A for a summary of the plotted values.

The water column of F.E. Walter Reservoir was weakly stratified with respect to pH during 2001. On most monitoring dates, measures of pH were relatively uniform throughout the water column (Fig. 3-6). In May, pH was highest and averaged about 7.9. In July, pH was lowest averaging 6.5 and ranged from 6.2 to 6.8.

During 2001, all measures of pH in the water column of F.E. Walter Reservoir were in compliance with PADEP water quality standards. The water quality standard for pH is a range of acceptable measures between 6 and 9. Throughout the monitoring period, measures of pH at all stations and depths were within the limits of the water quality standard.

3.1.4 Conductivity

For the most part, conductivity among the surface waters of F.E. Walter Reservoir followed a consistent pattern during 2001. Conductivity at most stations averaged about 0.083-mS/cm throughout the monitoring period and ranged from 0.07 to 0.14-mS/cm (Fig. 37). Conductivity was typically higher upstream of the reservoir at stations WA-3 and WA-5. At these locations, conductivity averaged 0.097-mS/cm.

Conductivity in the water column of F.E. Walter Reservoir was weakly stratified during 2001. In most months, measures were generally uniform throughout, but followed a slight increasing trend as the season progressed (Fig. 38). In July, conductivity was lowest at approximately 0.068-mS/cm. Thereafter, through September, conductivity increased on each monitoring date to an average of 0.09-mS/cm. In early August, conductivity demonstrated the strongest stratification pattern with measures ranging from 0.08-mS/cm at the surface to 0.09-mS/cm in the lower water column.

3.2 WATER COLUMN CHEMISTRY MONITORING

The following sections describe temporal, spatial, and depth related patterns for water quality measured in the water column of F.E. Walter Reservoir during 2001 (Table 3-2). Where appropriate, trends in surface water quality are discussed based on the regression and Mann-Kendall analysis of 2001 data and the F.E. Walter Reservoir water quality database.

pH - Stratification

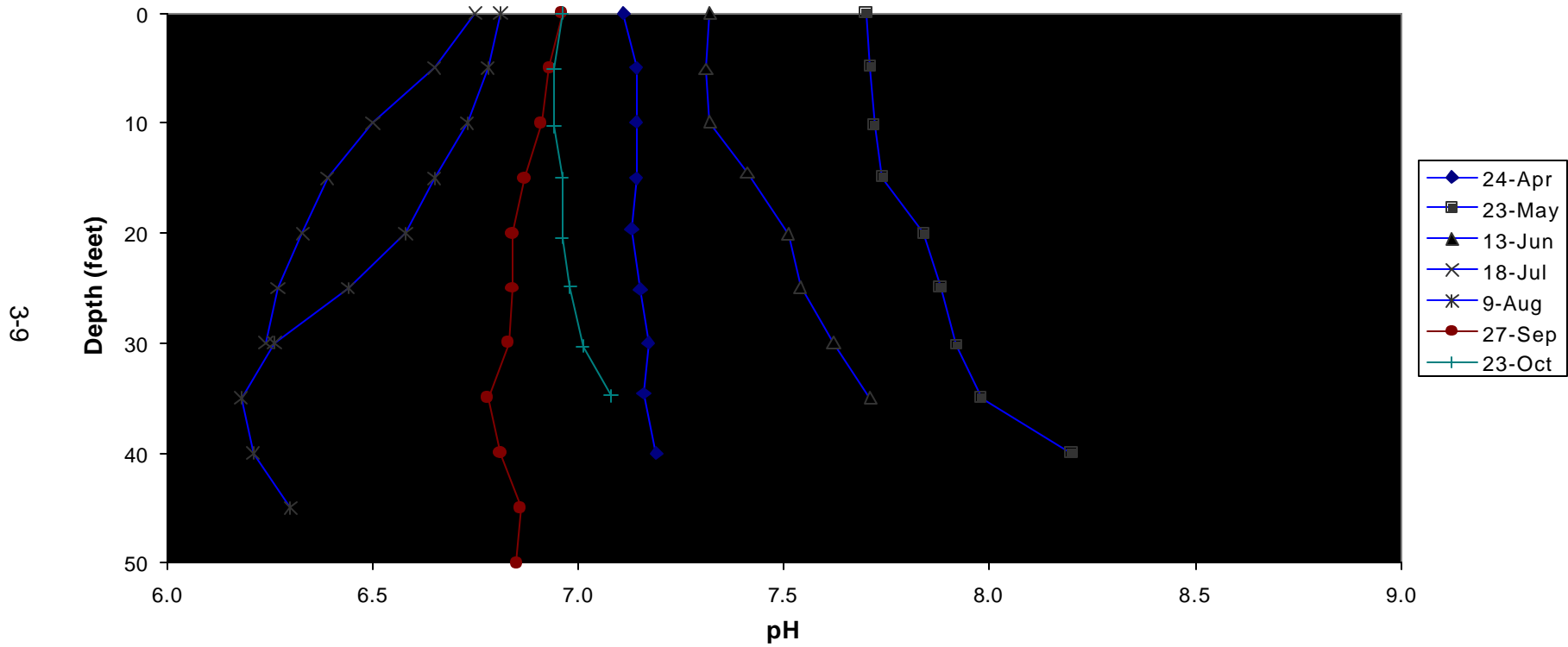


Figure 3-6. Stratification of pH measured in the water column of F.E. Walter Reservoir at station WA-2 during 2001. The PADEP water quality standard pH is an acceptable range from 6 to 9. See Appendix A for a summary of the plotted values.

Conductivity - Surface Water

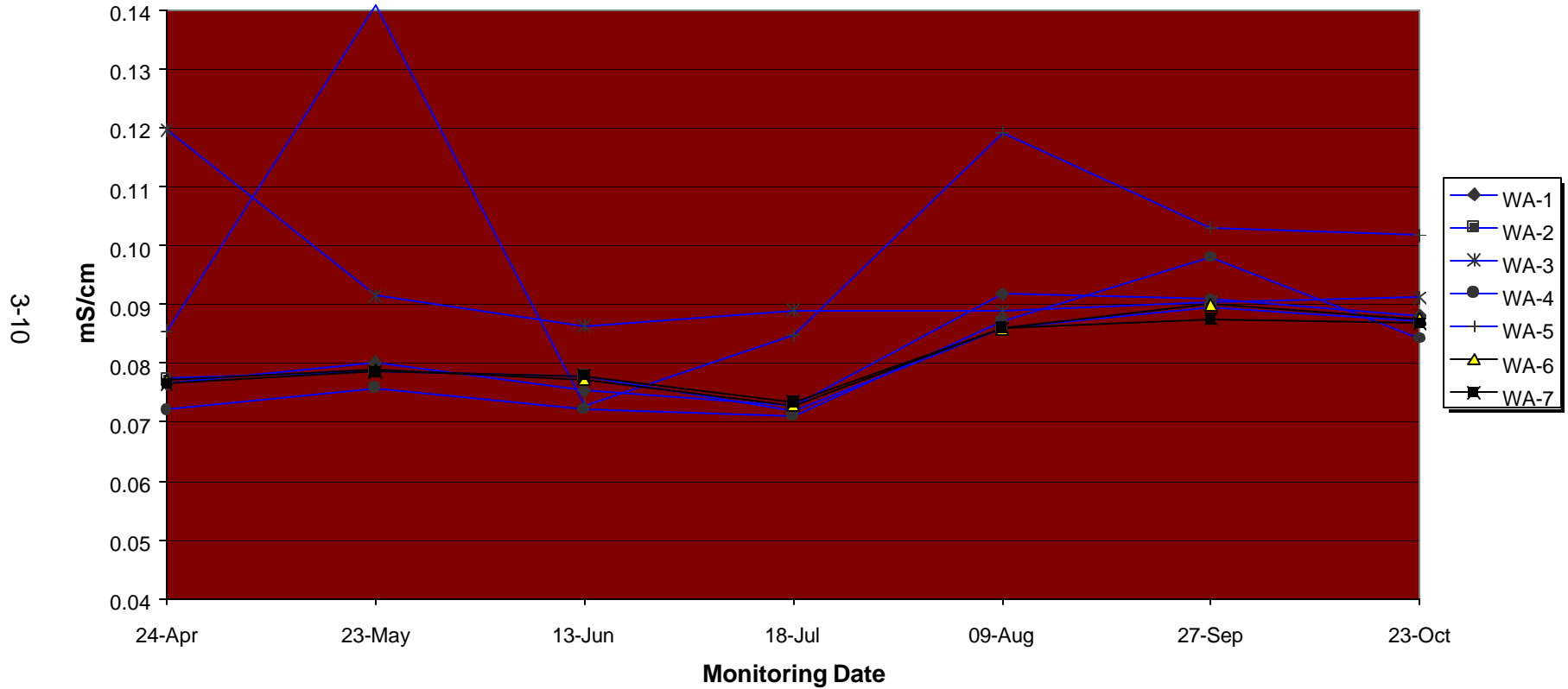


Figure 3-7. Conductivity measured in surface waters of F.E. Walter Reservoir during 2001. See Appendix A for a summary of the plotted values.

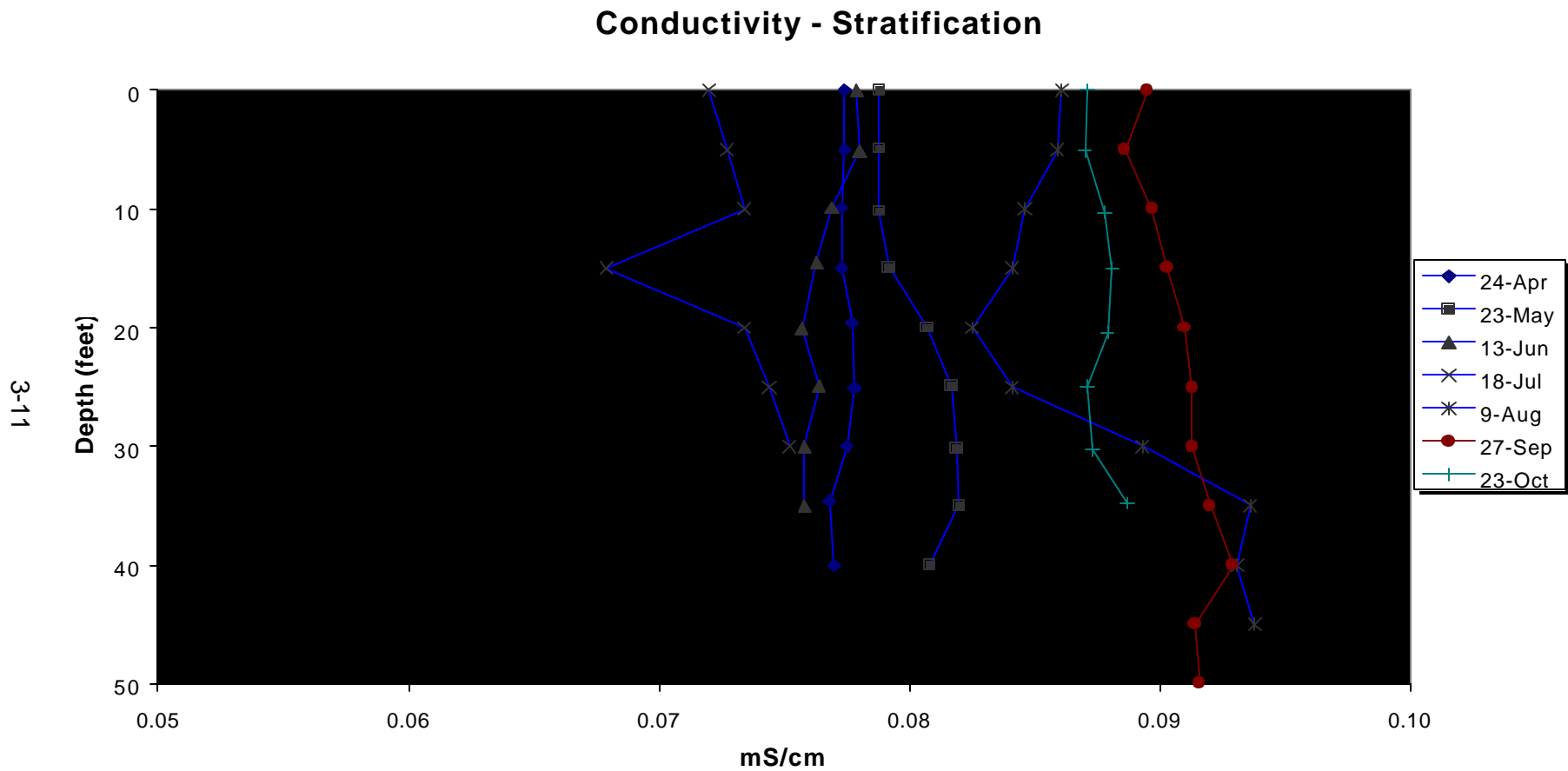


Figure 3-8. Stratification of conductivity measured in the water column of F. E. Walter Reservoir at station WA-2 during 2001. See Appendix A for a summary of the plotted values.

Table 3-2. Summary of surface, middle, and bottom water quality monitoring data for F.E. Walter Reservoir in 2001													
STATION	DATE	NH3	NO2	NO3	PO4	TKN	TP	TDS	TSS	BOD5	ALK	CHL_A	
WA-1S	24-Apr	< 0.10	< 0.005	0.10	< 0.05	0.20	< 0.05	50.0	7.0	< 3.0	4.0	2.0	
	23-May	< 0.10	< 0.005	0.30	0.06	0.40	< 0.05	30.0	< 1.0	< 3.0	6.0	1.9	
	13-Jun	0.20	< 0.005	< 0.10	0.07	3.10	< 0.05	88.0	13.0	< 1.0	4.0	1.2	
	18-Jul	< 0.10	< 0.005	0.20	< 0.05	0.20	< 0.05	78.0	13.0	< 2.0	8.0	2.4	
	09-Aug	0.14	< 0.100	0.10	0.06	0.30	< 0.05	62.0	12.0	< 2.0	10.0	1.1	
	27-Sep	0.90	< 0.100	< 0.10	< 0.05	< 0.20	< 0.05	68.0	2.0	< 2.0	6.0	7.1	
	23-Oct	0.30	< 0.500	< 0.50	0.08	< 1.00	< 0.05	82.0	< 1.0	< 2.0	12.0	2.9	
	Mean		0.26	0.103	0.20	0.06	0.77	0.05	65.4	7.0	2.1	7.1	2.7
	Maximum		0.90	0.500	0.50	0.08	3.10	0.05	88.0	13.0	3.0	12.0	7.1
	Minimum		0.10	0.005	0.10	0.05	0.20	0.05	30.0	1.0	1.0	4.0	1.1
Std. Dev		0.29	0.181	0.15	0.01	1.07	0.00	20.2	5.7	0.7	3.0	2.1	
No. of D		4	0	4	4	5	0	7	5	0	7	7	
WA-2S	24-Apr	< 0.10	< 0.005	< 0.10	0.07	0.10	< 0.05	32.0	2.0	< 3.0	4.0	1.6	
	23-May	< 0.10	< 0.005	0.30	0.05	0.30	< 0.05	24.0	6.0	< 3.0	6.0	6.1	
	13-Jun	0.10	< 0.005	< 0.10	0.38	3.90	< 0.05	76.0	7.0	< 1.0	6.0	4.0	
	18-Jul	< 0.10	< 0.005	0.20	< 0.05	0.20	< 0.05	66.0	3.0	< 2.0	4.0	2.8	
	09-Aug	< 0.10	< 0.100	0.10	0.05	0.10	< 0.05	26.0	10.0	< 2.0	10.0	1.7	
	27-Sep	0.10	< 0.100	0.10	0.05	< 0.20	< 0.05	70.0	2.0	< 2.0	6.0	5.9	
	23-Oct	0.30	< 0.500	< 0.50	0.07	< 1.00	< 0.05	52.0	< 1.0	< 2.0	12.0	4.0	
	Mean		0.13	0.103	0.20	0.10	0.83	0.05	49.4	4.4	2.1	6.9	3.7
	Maximum		0.30	0.500	0.50	0.38	3.90	0.05	76.0	10.0	3.0	12.0	6.1
	Minimum		0.10	0.005	0.10	0.05	0.10	0.05	24.0	1.0	1.0	4.0	1.6
Std. Dev		0.08	0.181	0.15	0.12	1.39	0.00	22.0	3.3	0.7	3.0	1.8	
No. of D		3	0	4	6	5	0	7	6	0	7	7	
WA-2M	24-Apr	< 0.10	< 0.005	0.10	< 0.05	0.20	< 0.05	38.0	2.0	< 3.0	3.0	2.1	
	23-May	< 0.10	< 0.005	0.40	0.05	0.40	< 0.05	10.0	10.0	< 3.0	8.0	1.4	
	13-Jun	0.10	< 0.005	< 0.10	0.07	2.00	< 0.05	66.0	6.0	< 1.0	12.0	2.6	
	18-Jul	< 0.10	< 0.005	0.20	< 0.05	0.30	< 0.05	76.0	7.0	< 2.0	5.0	7.2	
	09-Aug	< 0.10	< 0.100	0.10	0.05	0.15	< 0.05	26.0	6.0	< 2.0	11.0	3.2	
	27-Sep	< 0.10	< 0.100	< 0.10	0.07	< 0.20	< 0.05	64.0	3.0	< 2.0	6.0	7.4	
	23-Oct	0.30	< 0.500	< 0.50	0.06	2.90	< 0.05	164.0	< 1.0	< 2.0	10.0	3.8	
	Mean		0.13	0.103	0.21	0.06	0.88	0.05	63.4	5.0	2.1	7.9	3.9
	Maximum		0.30	0.500	0.50	0.07	2.90	0.05	164.0	10.0	3.0	12.0	7.4
	Minimum		0.10	0.005	0.10	0.05	0.15	0.05	10.0	1.0	1.0	3.0	1.4
Std. Dev		0.08	0.181	0.17	0.01	1.11	0.00	50.3	3.2	0.7	3.3	2.4	
No. of D		2	0	4	5	6	0	7	6	0	7	7	

Table 3-2. (Continued)													
STATION	DATE	NH3	NO2	NO3	PO4	TKN	TP	TDS	TSS	BOD5	ALK	CHL_A	
WA-2B	24-Apr	< 0.10	< 0.005	< 0.10	< 0.05	0.10	< 0.05	26.0	14.0	< 3.0	3.0	0.8	
	23-May	< 0.10	< 0.005	0.40	< 0.05	0.30	< 0.05	18.0	8.0	< 3.0	8.0	1.0	
	13-Jun	< 0.10	< 0.005	< 0.10	< 0.05	1.40	< 0.05	74.0	12.0	< 1.0	5.0	1.1	
	18-Jul	< 0.10	< 0.005	0.10	0.07	0.20	< 0.05	52.0	6.0	< 2.0	6.0	0.7	
	09-Aug	0.29	< 0.100	0.10	0.05	0.31	< 0.05	28.0	1.0	< 2.0	10.0	1.0	
	27-Sep	< 0.10	< 0.100	< 0.10	0.05	< 0.20	< 0.05	70.0	< 1.0	< 2.0	8.0	7.1	
	23-Oct	0.20	< 0.500	< 0.50	0.06	< 1.00	< 0.05	146.0	5.0	< 2.0	10.0	1.8	
	Mean		0.14	0.103	0.20	0.05	0.50	0.05	59.1	6.7	2.1	7.1	1.9
	Maximum		0.29	0.500	0.50	0.07	1.40	0.05	146.0	14.0	3.0	10.0	7.1
	Minimum		0.10	0.005	0.10	0.05	0.10	0.05	18.0	1.0	1.0	3.0	0.7
Std. Dev		0.08	0.181	0.17	0.01	0.50	0.00	44.1	5.0	0.7	2.6	2.3	
No. of D		2	0	3	4	5	0	7	6	0	7	7	
WA-3S	24-Apr	< 0.10	< 0.005	0.10	< 0.05	0.20	< 0.05	44.0	8.0	< 3.0	3.0	2.6	
	23-May	< 0.10	< 0.005	0.40	0.06	0.50	< 0.05	46.0	10.0	< 3.0	8.0	1.6	
	13-Jun	< 0.10	< 0.005	< 0.10	0.05	1.80	< 0.05	98.0	8.0	< 1.0	7.0	1.8	
	18-Jul	< 0.10	< 0.005	0.20	0.06	0.50	< 0.05	58.0	18.0	< 2.0	9.0	1.5	
	09-Aug	0.12	< 0.100	0.10	< 0.05	0.21	< 0.05	40.0	8.0	< 2.0	10.0	1.2	
	27-Sep	< 0.10	< 0.100	< 0.10	< 0.05	< 0.20	< 0.05	64.0	3.0	< 2.0	8.0	15.3	
	23-Oct	0.20	< 0.500	< 0.50	0.07	< 1.00	< 0.05	48.0	< 1.0	< 2.0	12.0	5.0	
	Mean		0.12	0.103	0.21	0.06	0.63	0.05	56.9	8.0	2.1	8.1	4.1
	Maximum		0.20	0.500	0.50	0.07	1.80	0.05	98.0	18.0	3.0	12.0	15.3
	Minimum		0.10	0.005	0.10	0.05	0.20	0.05	40.0	1.0	1.0	3.0	1.2
Std. Dev		0.04	0.181	0.17	0.01	0.59	0.00	20.0	5.4	0.7	2.8	5.1	
No. of D		2	0	4	4	5	0	7	6	0	7	7	
WA-4S	24-Apr	< 0.10	< 0.005	0.10	< 0.05	0.30	< 0.05	28.0	10.0	< 3.0	5.0	2.0	
	23-May	< 0.10	< 0.005	0.40	0.05	0.30	< 0.05	28.0	3.0	< 3.0	6.0	1.1	
	13-Jun	< 0.10	< 0.005	< 0.10	0.06	3.90	< 0.05	84.0	13.0	< 1.0	7.0	1.0	
	18-Jul	0.20	< 0.005	0.10	< 0.05	0.40	< 0.05	58.0	8.0	< 2.0	7.0	0.9	
	09-Aug	0.11	< 0.100	0.10	< 0.05	0.18	< 0.05	34.0	1.0	< 2.0	18.0	1.4	
	27-Sep	< 0.10	< 0.100	< 0.10	0.06	0.20	< 0.05	54.0	2.0	< 2.0	10.0	1.5	
	23-Oct	0.10	< 0.500	< 0.50	0.07	< 1.00	< 0.05	72.0	< 1.0	< 2.0	14.0	0.8	
	Mean		0.12	0.103	0.20	0.06	0.90	0.05	51.1	5.4	2.1	9.6	1.3
	Maximum		0.20	0.500	0.50	0.07	3.90	0.05	84.0	13.0	3.0	18.0	2.0
	Minimum		0.10	0.005	0.10	0.05	0.18	0.05	28.0	1.0	1.0	5.0	0.8
Std. Dev		0.04	0.181	0.17	0.01	1.35	0.00	22.1	4.9	0.7	4.8	0.4	
No. of D		3	0	4	4	6	0	7	6	0	7	7	

Table 3-2. (Continued)												
STATION	DATE	NH3	NO2	NO3	PO4	TKN	TP	TDS	TSS	BOD5	ALK	CHL_A
WA-5S	24-Apr	< 0.10	< 0.005	< 0.10	< 0.05	0.20	< 0.05	42.0	3.0	< 3.0	< 1.0	2.0
	23-May	< 0.10	< 0.005	1.10	0.05	0.50	< 0.05	50.0	6.0	< 3.0	4.0	0.7
	13-Jun	< 0.10	< 0.005	< 0.10	< 0.05	2.30	< 0.05	76.0	13.0	< 1.0	2.0	0.8
	18-Jul	0.20	< 0.005	0.10	< 0.05	0.50	< 0.05	56.0	6.0	< 2.0	< 1.0	1.0
	09-Aug	0.12	< 0.100	< 0.10	< 0.05	0.18	< 0.05	34.0	4.0	< 2.0	5.0	1.8
	27-Sep	< 0.10	< 0.100	< 0.10	0.06	0.30	< 0.05	72.0	38.0	< 2.0	4.0	2.0
	23-Oct	< 0.10	< 0.500	< 0.50	0.06	< 1.00	< 0.05	38.0	< 1.0	< 2.0	6.0	0.3
	Mean		0.12	0.103	0.30	0.05	0.71	0.05	52.6	10.1	2.1	3.3
Maximum		0.20	0.500	1.10	0.06	2.30	0.05	76.0	38.0	3.0	6.0	2.0
Minimum		0.10	0.005	0.10	0.05	0.18	0.05	34.0	1.0	1.0	1.0	0.3
Std. Dev		0.04	0.181	0.38	0.00	0.75	0.00	16.4	12.9	0.7	2.0	0.7
No. of D		2	0	2	3	6	0	7	6	0	5	7
WA-6S	24-Apr	< 0.10	< 0.005	< 0.10	< 0.05	0.10	< 0.05	20.0	1.0	< 3.0	3.0	0.9
	23-May	< 0.10	< 0.005	0.40	0.06	0.70	< 0.05	18.0	2.0	< 3.0	6.0	6.4
	13-Jun	< 0.10	< 0.005	< 0.10	0.07	1.90	< 0.05	96.0	3.0	< 1.0	5.0	3.2
	18-Jul	0.20	< 0.005	0.10	< 0.05	0.40	< 0.05	42.0	1.0	< 2.0	6.0	3.7
	09-Aug	0.10	< 0.100	0.10	0.05	0.23	< 0.05	30.0	8.0	< 2.0	10.0	1.2
	27-Sep	< 0.10	< 0.100	< 0.10	0.06	0.20	< 0.05	62.0	1.0	< 2.0	8.0	7.5
	23-Oct	0.20	< 0.500	< 0.50	0.11	< 1.00	< 0.05	56.0	< 1.0	< 2.0	10.0	5.1
	Mean		0.13	0.103	0.20	0.06	0.65	0.05	46.3	2.4	2.1	6.9
Maximum		0.20	0.500	0.50	0.11	1.90	0.05	96.0	8.0	3.0	10.0	7.5
Minimum		0.10	0.005	0.10	0.05	0.10	0.05	18.0	1.0	1.0	3.0	0.9
Std. Dev		0.05	0.181	0.17	0.02	0.64	0.00	27.7	2.6	0.7	2.6	2.5
No. of D		3	0	3	5	6	0	7	6	0	7	7
WA-6M	24-Apr	< 0.10	< 0.005	< 0.10	< 0.05	0.10	< 0.05	22.0	8.0	< 3.0	2.0	0.9
	23-May	< 0.10	< 0.005	0.40	< 0.05	< 0.10	< 0.05	34.0	1.0	< 3.0	6.0	2.3
	13-Jun	< 0.10	< 0.005	< 0.10	< 0.05	2.00	< 0.05	68.0	9.0	< 1.0	4.0	2.6
	18-Jul	0.10	< 0.005	0.50	< 0.05	0.60	< 0.05	48.0	9.0	< 2.0	6.0	11.8
	09-Aug	< 0.10	< 0.100	0.10	0.05	0.11	< 0.05	28.0	< 1.0	< 2.0	8.0	3.8
	27-Sep	< 0.10	< 0.100	< 0.10	0.06	< 0.20	< 0.05	66.0	2.0	< 2.0	8.0	3.7
	23-Oct	0.10	< 0.500	< 0.50	< 0.05	< 1.00	< 0.05	76.0	< 1.0	< 2.0	10.0	6.6
	Mean		0.10	0.103	0.26	0.05	0.59	0.05	48.9	4.4	2.1	6.3
Maximum		0.10	0.500	0.50	0.06	2.00	0.05	76.0	9.0	3.0	10.0	11.8
Minimum		0.10	0.005	0.10	0.05	0.10	0.05	22.0	1.0	1.0	2.0	0.9
Std. Dev		0.00	0.181	0.20	0.00	0.71	0.00	21.5	4.0	0.7	2.7	3.7
No. of D		2	0	3	2	4	0	7	5	0	7	7

Table 3-2. (Continued)													
STATION	DATE	NH3	NO2	NO3	PO4	TKN	TP	TDS	TSS	BOD5	ALK	CHL_A	
WA-6B	24-Apr	< 0.10	< 0.005	0.10	< 0.05	0.20	< 0.05	18.0	3.0	< 3.0	2.0	1.4	
	23-May	< 0.10	< 0.005	0.40	< 0.05	< 0.10	< 0.05	30.0	5.0	< 3.0	8.0	1.1	
	13-Jun	0.20	< 0.005	< 0.10	< 0.05	1.50	< 0.05	56.0	11.0	< 1.0	5.0	1.1	
	18-Jul	< 0.10	< 0.005	0.30	< 0.05	0.40	< 0.05	48.0	1.0	< 2.0	6.4	6.8	
	09-Aug	< 0.10	< 0.100	0.10	0.05	0.14	< 0.05	20.0	1.0	< 2.0	8.0	6.8	
	27-Sep	< 0.10	< 0.100	< 0.10	0.06	< 0.20	< 0.05	62.0	< 1.0	< 2.0	6.0	4.2	
	23-Oct	0.10	< 0.500	< 0.50	< 0.05	< 1.00	< 0.05	60.0	1.0	< 2.0	10.0	4.8	
	Mean		0.11	0.103	0.23	0.05	0.51	0.05	42.0	3.3	2.1	6.5	3.7
	Maximum		0.20	0.500	0.50	0.06	1.50	0.05	62.0	11.0	3.0	10.0	6.8
	Minimum		0.10	0.005	0.10	0.05	0.10	0.05	18.0	1.0	1.0	2.0	1.1
Std. Dev		0.04	0.181	0.17	0.00	0.54	0.00	19.0	3.7	0.7	2.6	2.5	
No. of D		2	0	4	2	4	0	7	6	0	7	7	
WA-7S	24-Apr	< 0.10	< 0.005	< 0.10	< 0.05	0.20	< 0.05	< 10.0	1.0	< 3.0	5.0	2.0	
	23-May	< 0.10	< 0.005	0.40	0.06	< 0.10	< 0.05	< 10.0	8.0	< 3.0	8.0	7.0	
	13-Jun	< 0.10	< 0.005	< 0.10	0.07	1.20	< 0.05	100.0	9.0	< 1.0	5.0	5.6	
	18-Jul	0.10	< 0.005	0.30	< 0.05	1.00	< 0.05	42.0	2.0	< 2.0	6.0	3.0	
	09-Aug	< 0.10	< 0.100	0.10	0.06	< 0.10	< 0.05	18.0	< 1.0	< 2.0	10.0	2.5	
	27-Sep	< 0.10	< 0.100	< 0.10	0.07	< 0.20	< 0.05	72.0	14.0	< 2.0	6.0	6.8	
	23-Oct	0.20	< 0.500	< 0.50	< 0.05	< 1.00	< 0.05	54.0	5.0	< 2.0	14.0	6.8	
	Mean		0.11	0.103	0.23	0.06	0.54	0.05	43.7	5.7	2.1	7.7	4.8
	Maximum		0.20	0.500	0.50	0.07	1.20	0.05	100.0	14.0	3.0	14.0	7.0
	Minimum		0.10	0.005	0.10	0.05	0.10	0.05	10.0	1.0	1.0	5.0	2.0
Std. Dev		0.04	0.181	0.17	0.01	0.50	0.00	34.2	4.9	0.7	3.3	2.2	
No. of D		2	0	3	4	3	0	5	6	0	7	7	
WA-7M	24-Apr	< 0.10	< 0.005	< 0.10	< 0.05	0.10	< 0.05	20.0	9.0	< 3.0	2.0	2.3	
	23-May	< 0.10	< 0.005	0.30	0.07	0.10	< 0.05	20.0	8.0	< 3.0	8.0	3.5	
	13-Jun	< 0.10	< 0.005	< 0.10	< 0.05	2.10	< 0.05	68.0	11.0	< 1.0	6.0	1.4	
	18-Jul	0.10	< 0.005	0.40	< 0.05	1.00	< 0.05	50.0	3.0	< 2.0	5.0	1.3	
	09-Aug	< 0.10	< 0.100	0.10	0.05	0.12	< 0.05	42.0	9.0	< 2.0	12.0	1.4	
	27-Sep	< 0.10	< 0.100	< 0.10	0.05	< 0.20	< 0.05	52.0	1.0	< 2.0	8.0	5.6	
	23-Oct	< 0.10	< 0.500	< 0.50	0.06	< 1.00	< 0.05	56.0	1.0	< 2.0	12.0	4.7	
	Mean		0.10	0.103	0.23	0.05	0.66	0.05	44.0	6.0	2.1	7.6	2.9
	Maximum		0.10	0.500	0.50	0.07	2.10	0.05	68.0	11.0	3.0	12.0	5.6
	Minimum		0.10	0.005	0.10	0.05	0.10	0.05	20.0	1.0	1.0	2.0	1.3
Std. Dev		0.00	0.181	0.17	0.01	0.76	0.00	18.1	4.2	0.7	3.6	1.8	
No. of D		1	0	3	4	5	0	7	7	0	7	7	

Table 3-2. (Continued)

STATION	DATE	NH3	NO2	NO3	PO4	TKN	TP	TDS	TSS	BOD5	ALK	CHL_A
WA-7B	24-Apr	< 0.10	< 0.005	< 0.10	0.06	0.40	< 0.05	24.0	2.0	< 3.0	2.0	1.9
	23-May	< 0.10	< 0.005	0.30	0.06	0.20	< 0.05	12.0	< 1.0	< 3.0	6.0	2.9
	13-Jun	< 0.10	< 0.005	< 0.10	< 0.05	0.80	< 0.05	80.0	4.0	< 1.0	8.0	1.5
	18-Jul	< 0.10	< 0.005	0.30	< 0.05	0.60	< 0.05	60.0	3.0	< 2.0	7.0	27.4
	09-Aug	0.16	< 0.100	0.10	0.05	0.29	< 0.05	12.0	6.0	< 2.0	12.0	2.2
	27-Sep	< 0.10	< 0.100	< 0.10	0.05	< 0.20	< 0.05	66.0	16.0	< 2.0	8.0	9.7
	23-Oct	< 0.10	< 0.500	< 0.50	< 0.05	< 1.00	< 0.05	62.0	1.0	< 2.0	14.0	1.6
Mean		0.11	0.103	0.21	0.05	0.50	0.05	45.1	4.7	2.1	8.1	6.7
Maximum		0.16	0.500	0.50	0.06	1.00	0.05	80.0	16.0	3.0	14.0	27.4
Minimum		0.10	0.005	0.10	0.05	0.20	0.05	12.0	1.0	1.0	2.0	1.5
Std. Dev		0.02	0.181	0.16	0.00	0.31	0.00	28.3	5.3	0.7	3.9	9.6
No. of D		1	0	3	4	5	0	7	6	0	7	7

3.2.1 Ammonia

Ammonia in the water column of F.E. Walter Reservoir was consistently low throughout the monitoring period (Fig. 3-9). Concentrations at most stations and depths were less than the method detection limit (0.1 mg/L). Detectable amounts of ammonia were measured in most months but with one exception did not exceed 0.3 mg/L. In September the highest concentration was measured at downstream station WA-1. The concentration at WA-1 was 0.9-mg/L.

F.E. Walter Reservoir was in compliance with the PADEP water quality standard for ammonia during 2001. The water quality standard of ammonia is dependent on temperature and pH (Table 3-3). Throughout the monitoring period, all measures of ammonia were less than their respective criteria values.

A seasonal trend analysis of ammonia was conducted for individual stations of F.E. Walter Reservoir, combining 2001 and historical data. The Mann-Kendall statistic was applied to station data collected over the past 23 years or more, separately for spring (April to June) and summer (July to September) seasons. Stations included in the analysis represented locations downstream (WA-1), within the main reservoir (WA-2), and upstream sources on Tobyhanna Creek (WA-3), Lehigh River (WA-4), and Bear Creek (WA-5).

Ammonia

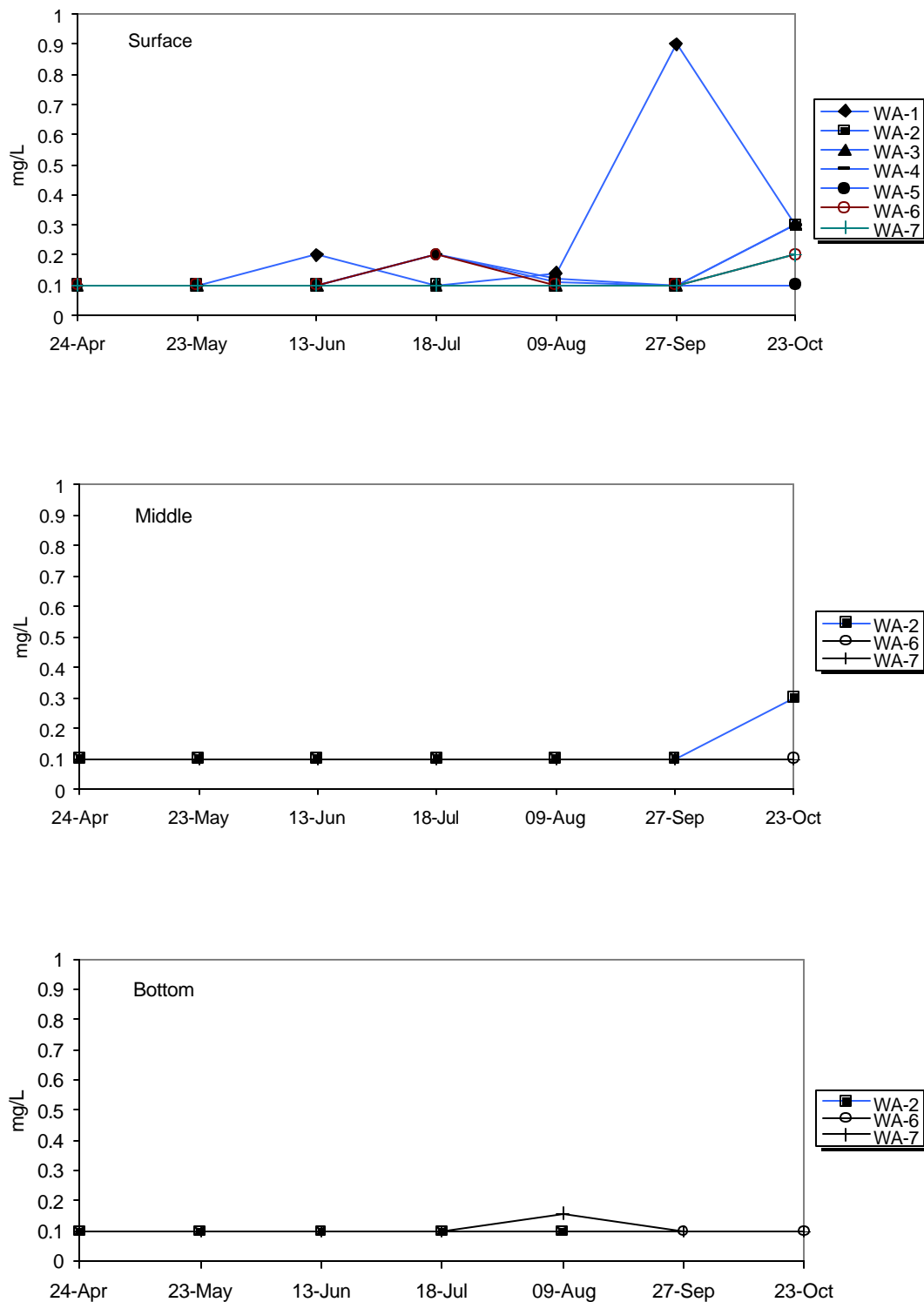


Figure 3-9. Ammonia measured in surface, middle, and bottom water of F. E. Walter Reservoir during 2001. The PADEP water quality standard for ammonia is dependent on temperature and pH.

pH	0 ?C	5 ?C	10 ?C	15 ?C	20 ?C	25 ?C	30 ?C
6.50	25.5	25.5	25.5	17.4	12.0	8.4	5.9
6.75	23.6	23.6	23.6	16.0	11.1	7.7	5.5
7.00	20.6	20.6	20.6	14.0	9.7	6.8	4.8
7.25	16.7	16.7	16.7	11.4	7.8	5.5	3.9
7.50	12.4	12.4	12.4	8.5	5.9	4.1	2.9
7.75	8.5	8.5	8.5	5.8	4.0	2.8	2.0
8.00	5.5	5.5	5.5	5.8	4.0	2.8	2.0
8.25	3.4	3.4	3.4	2.3	1.6	1.2	0.9
8.50	2.0	2.0	2.0	1.4	1.0	0.7	0.6
8.75	1.2	1.2	1.2	0.9	0.6	0.5	0.4
9.00	0.8	0.8	0.8	0.5	0.4	0.3	0.3

Ammonia concentrations appear to have decreased throughout the reservoir drainage area during both seasons. All but one of the stations, WA-5, had significant trends and reflected yearly decreases ranging from 0.002 to 0.007 mg/L (Table 3-4). In general, summer rates of decrease appeared to be slightly higher than for spring. The widespread trends appear to be driven by higher concentrations detected in the late 1970s; subsequently, most concentrations have been consistently lower at about 0.01 mg/L.

Station	# of Years spring/summer	Spring		Summer	
		P Level	Rate (mg/)	P Level	Rate (mg/L)
Surface Water					
WA-1	26	<0.01	-0.002	<0.001	-0.007
WA-2	27	<0.01	-0.003	<0.01	-0.004
WA-3	26	<0.01	-0.002	<0.01	-0.003
WA-4	27	<0.01	-0.002	<0.001	-0.002
WA-5	23	NS	-0.001	NS	-0.0005

3.2.2 Nitrite and Nitrate

Concentrations of nitrite in the water column of F.E. Walter Reservoir were consistently low during 2001. Concentrations of nitrite measured at all stations and all depths were less than method detection limits (0.5 mg/L) throughout the monitoring period (Fig. 3-10).

Nitrite

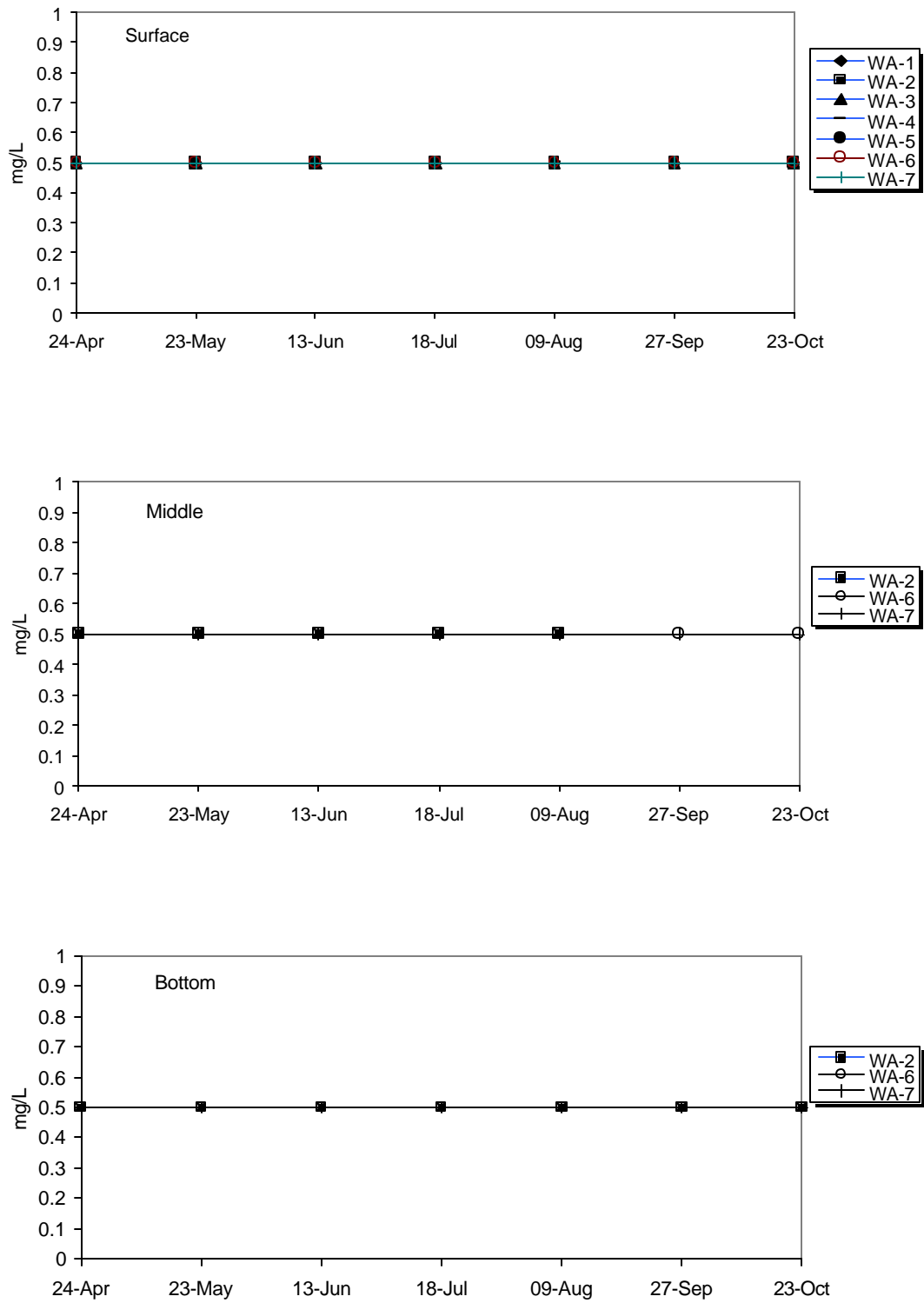


Figure 3-10. Nitrite measured in surface, middle, and bottom water of F. E. Walter Reservoir during 2001

Nitrate was distributed uniformly in the water column of F.E. Walter Reservoir during 2001 (Fig. 3-13). At most stations and depths, concentrations ranged from less than the method detection limit (0.1-mg/L) to 1.2-mg/L. Overall, concentrations averaged 0.2-mg/L throughout the monitoring period. Concentrations of nitrate upstream of the reservoir on Bear Creek (WA-5) were usually highest and over the monitoring period, averaging 0.3-mg/L and ranging from 0.1 to 1.1-mg/L. Nitrate measured downstream of the reservoir (BZ-1) was consistently low over the monitoring period at 0.2-mg/L.

In 2001, F.E. Walter Reservoir was in compliance with the PADEP water quality standard for nitrogen. The water quality standard for nitrogen is a summed concentration of nitrite and nitrate of less than 10-mg/L. Throughout the monitoring period, the summed concentrations for each station were less than 1.5-mg/L.

3.2.3 Total Inorganic Nitrogen

Concentrations of total inorganic nitrogen measured in 2001 and historical data collected from over the past 27 years were analyzed for seasonal trends (Figs. 3-12 and 3-13). The trend analysis was conducted for spring (April through June) and summer (July through October) periods, separately for stations representative of the reservoir and downstream. Concentrations of nitrogen have decreased in the reservoir and downstream during the summer (Fig. 3-13). Both regression lines were significant ($R^2=0.19$ and 0.17 , respectively; $P<0.05$), and corresponded to an average 10-year decrease of approximately 0.02 mg/L. The trend analyses conducted for reservoir and downstream stations in the spring season were not significant (Fig. 3-12).

A seasonal trend analysis of total nitrogen was conducted for individual stations of F.E. Walter Reservoir, combining 2001 and historical data. The Mann-Kendall statistic was applied to station data collected over the past 22 years or more, separately for spring (April to June) and summer (July to September) seasons. Stations included in the analysis represented locations downstream (WA-1), within the main reservoir (WA-2), and upstream sources on Tobyhanna Creek (WA-3), Lehigh River (WA-4), and Bear Creek (WA-5).

Nitrogen concentrations appear to have decreased at several stations in the spring and summer seasons. Significant reductions were observed at stations WA-1 and WA-2 in the spring season (Table 3-5). Nitrogen reductions ranged from 0.007 to 0.009 mg/L during the spring season. Significant reductions were also observed at stations WA-1 and WA-4 during the summer season (Table 3-5). Nitrogen reductions ranged from 0.007 to 0.009 mg/L during the summer season.

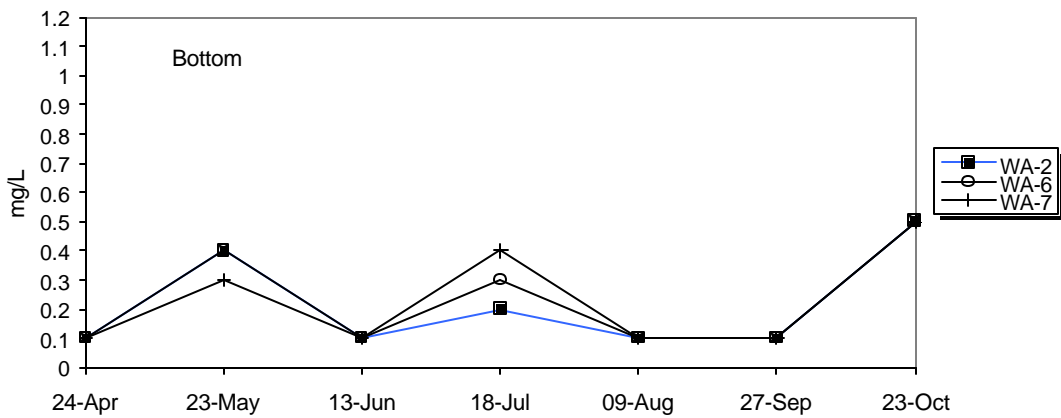
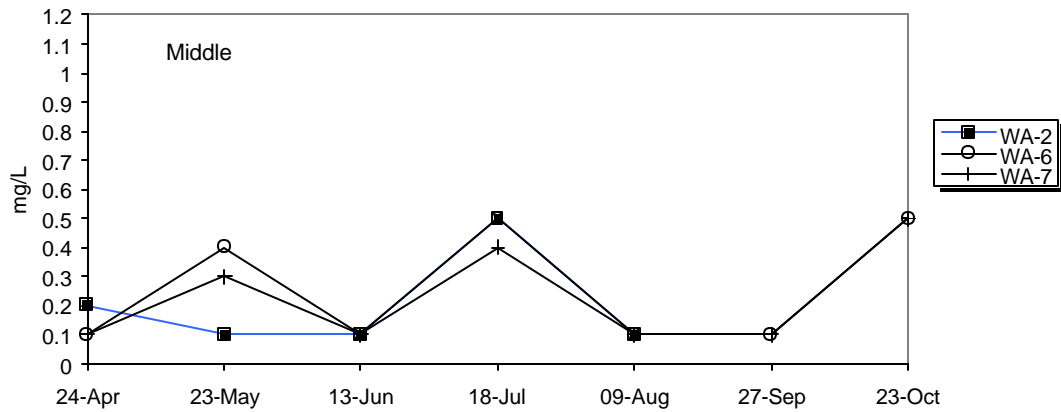
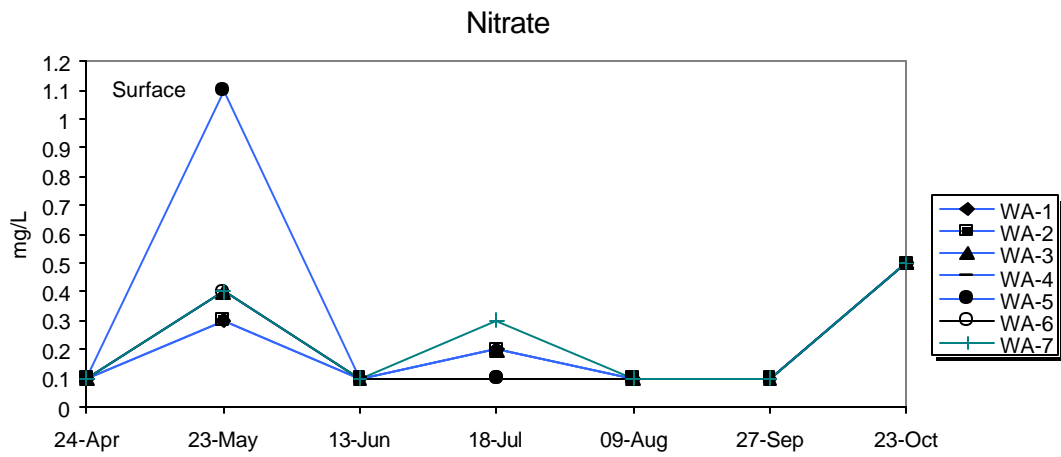


Figure 3-11. Nitrate measured in surface, middle, and bottom water of F.E. Walter Reservoir during 2001

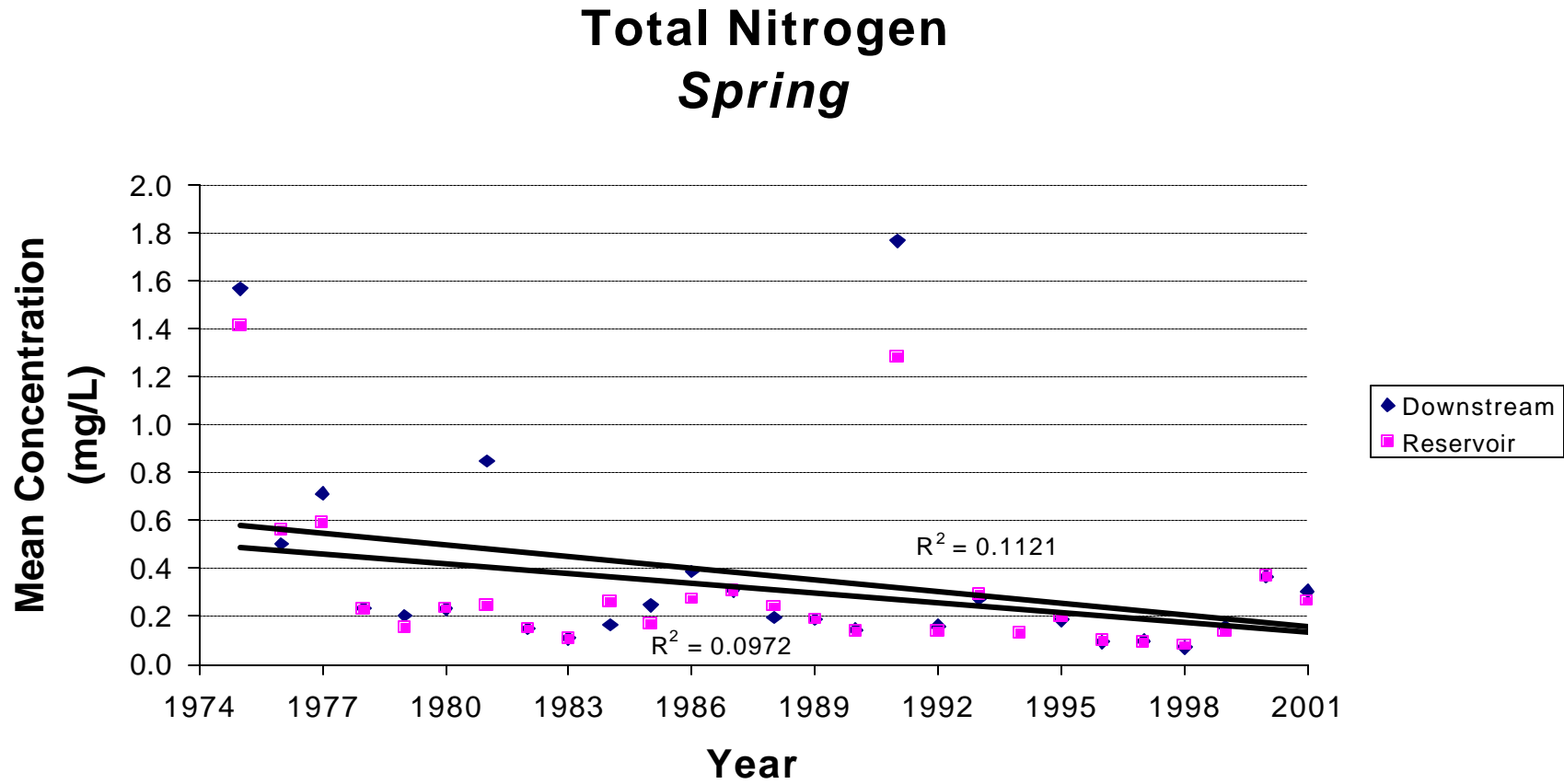


Figure 3-12. Seasonal trend analysis for total nitrogen (ammonia+nitrite+nitrate) measured during spring months (April, May, and June) at F. E. Walter Reservoir

Total Nitrogen Summer

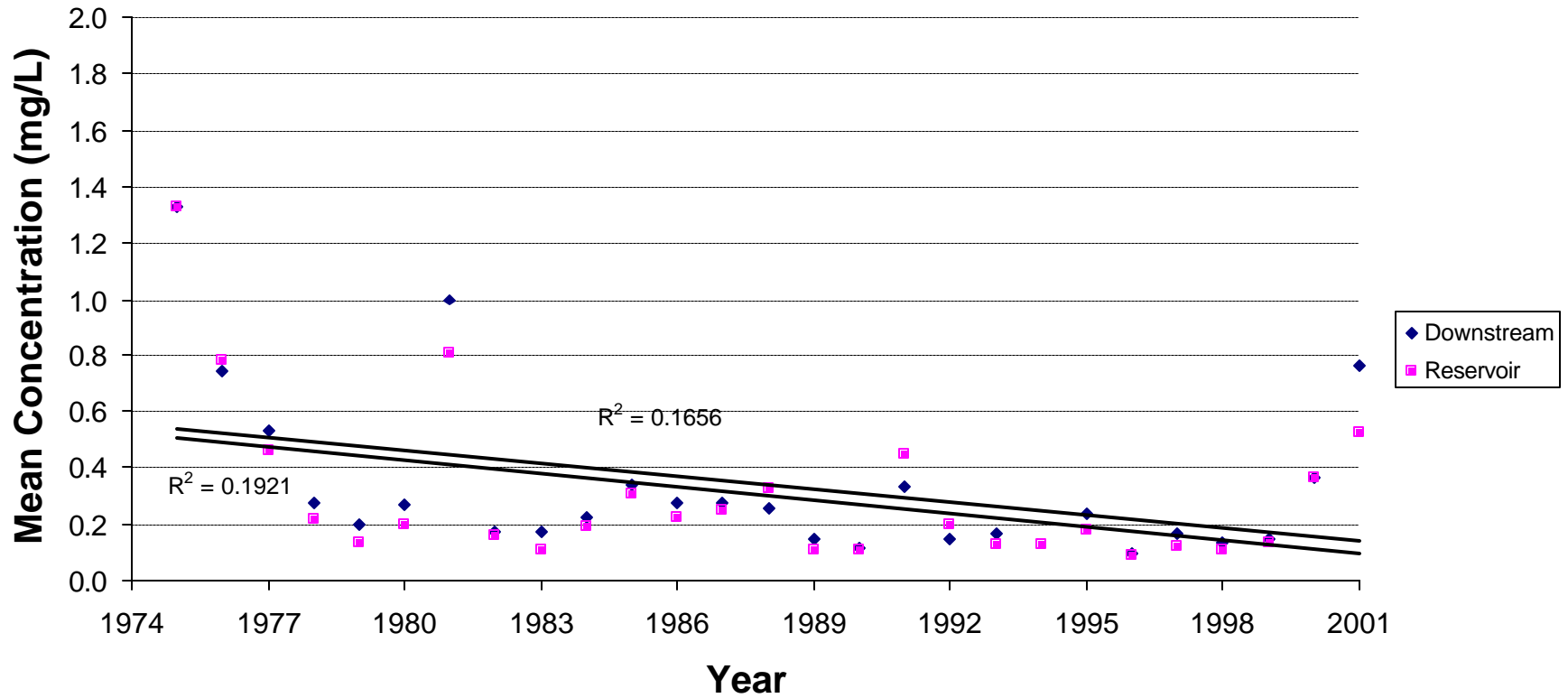


Figure 3-13. Seasonal trend analysis for total nitrogen (ammonia+nitrite+nitrate) measured during summer months (July, August, and September) at F.E. Walter Reservoir

Table 3-5. Seasonal trends of total nitrogen concentration at individual stations of F.E. Walter Reservoir calculated with the Mann-Kendall Statistic. Shaded values are significant (at least $P < 0.05$).					
Station	# of Years spring/summer	Spring		Summer	
		P Level	Rate (mg/L)	P Level	Rate (mg/L)
Surface Water					
WA-1	25/26	<0.05	-0.009	<0.05	-0.009
WA-2	26/27	<0.05	-0.007	NS	-0.005
WA-3	25/26	NS	-0.006	NS	-0.007
WA-4	26/27	NS	-0.007	<0.05	-0.007
WA-5	22/23	NS	-0.003	NS	-0.0008

3.2.4 Total Kjeldahl Nitrogen

Total Kjeldahl nitrogen (TKN) is a measure of organic nitrogen that includes ammonia. TKN in the water column of F.E. Walter Reservoir was generally low during 2001 (Fig. 3-14). Concentrations measured at most stations and depths were near or less than the method detection limit of 0.2 mg/L throughout the monitoring period. The highest concentrations were measured in June and ranged to 1.95-mg/L in surface water at station WA-2 and 1.45-mg/L in middle water at station WA-2.

3.2.5 Dissolved Phosphate

Dissolved phosphate was not a significant nutrient parameter at F.E. Walter Reservoir in 2001 (Fig. 3-15) Concentrations of dissolved phosphate were generally at or below the detection limit of 0.05-mg/L. One isolated instance of high values was recorded, in June at WA-2 in the surface water. This concentration was 0.38 and 11-mg/L. In freshwater environments, dissolved phosphate is usually a limiting nutrient and is readily taken up by freshwater plants and algae.

3.2.6 Total Phosphorus

Total phosphorus was not present at measurable concentrations in the water column of F.E. Walter Reservoir during 2001 (Fig. 3-16). All concentrations were less than the method detection limit of 0.05-mg/L. EPA guidance for nutrient criteria in lakes and reservoirs suggests a minimum concentration for total phosphorus of 0.01-mg/L (EPA 2000), a concentration 5-times less than our ability to detect. Lakes and reservoirs exceeding this concentration are more likely to experience algal bloom problems during the growing season.

Total Kjeldahl Nitrogen

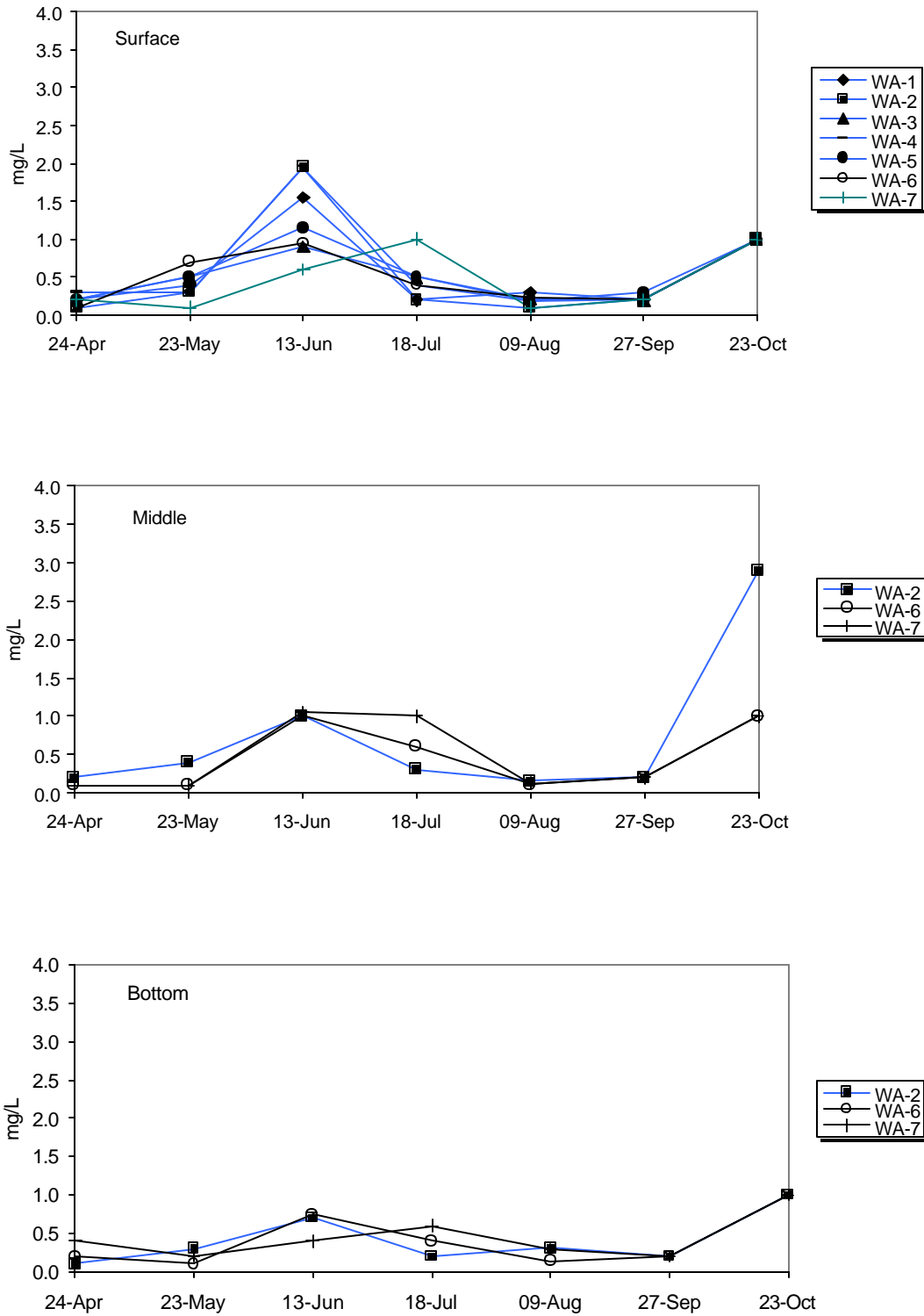


Figure 3-14. Total Kjeldahl nitrogen measured in surface, middle, and bottom water of F.E. Walter Reservoir during 2001

Dissolved Phosphate

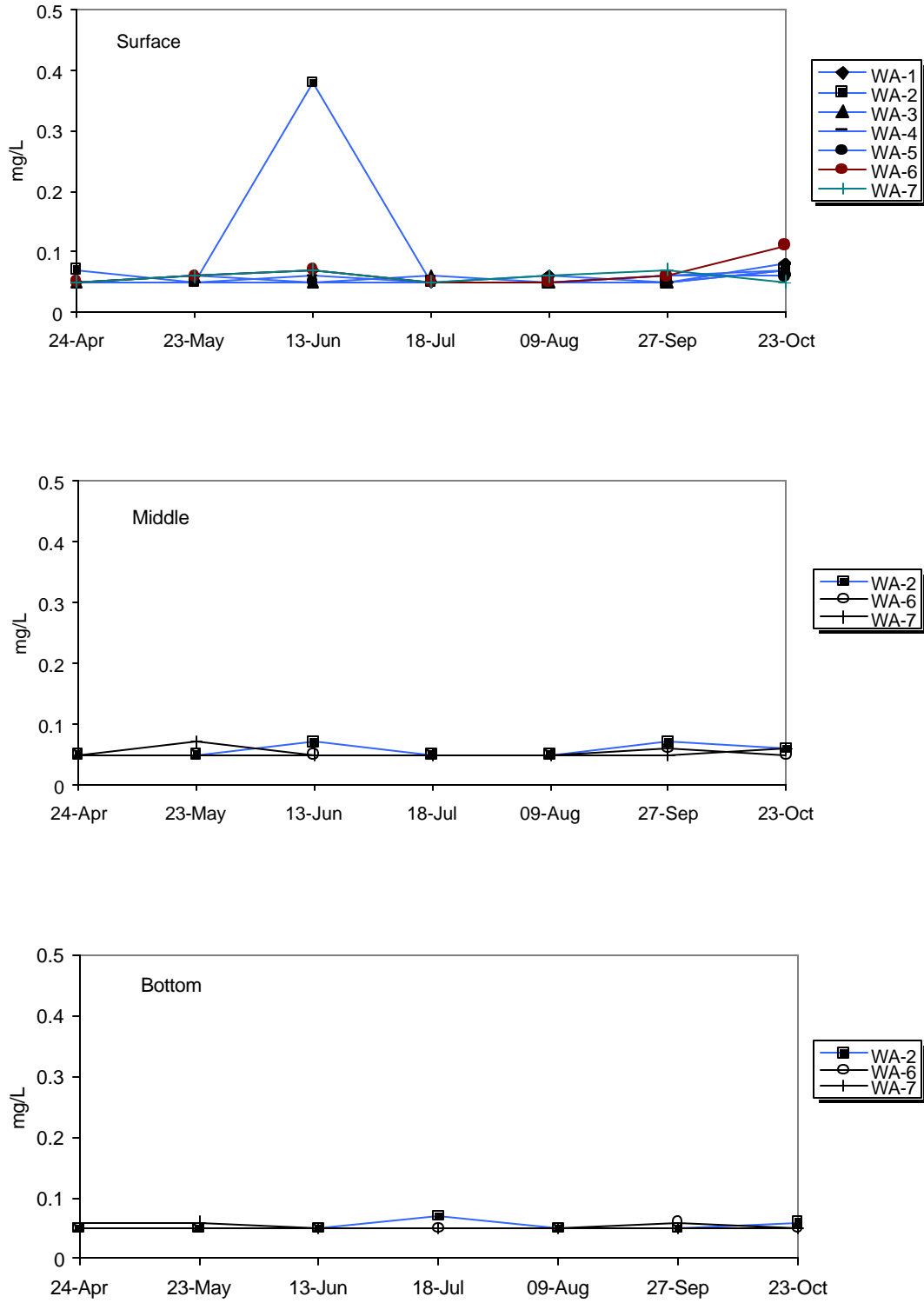


Figure 3-15. Dissolved phosphate measured in surface, middle, and bottom water of F.E. Walter Reservoir during 2001

Total Phosphorus

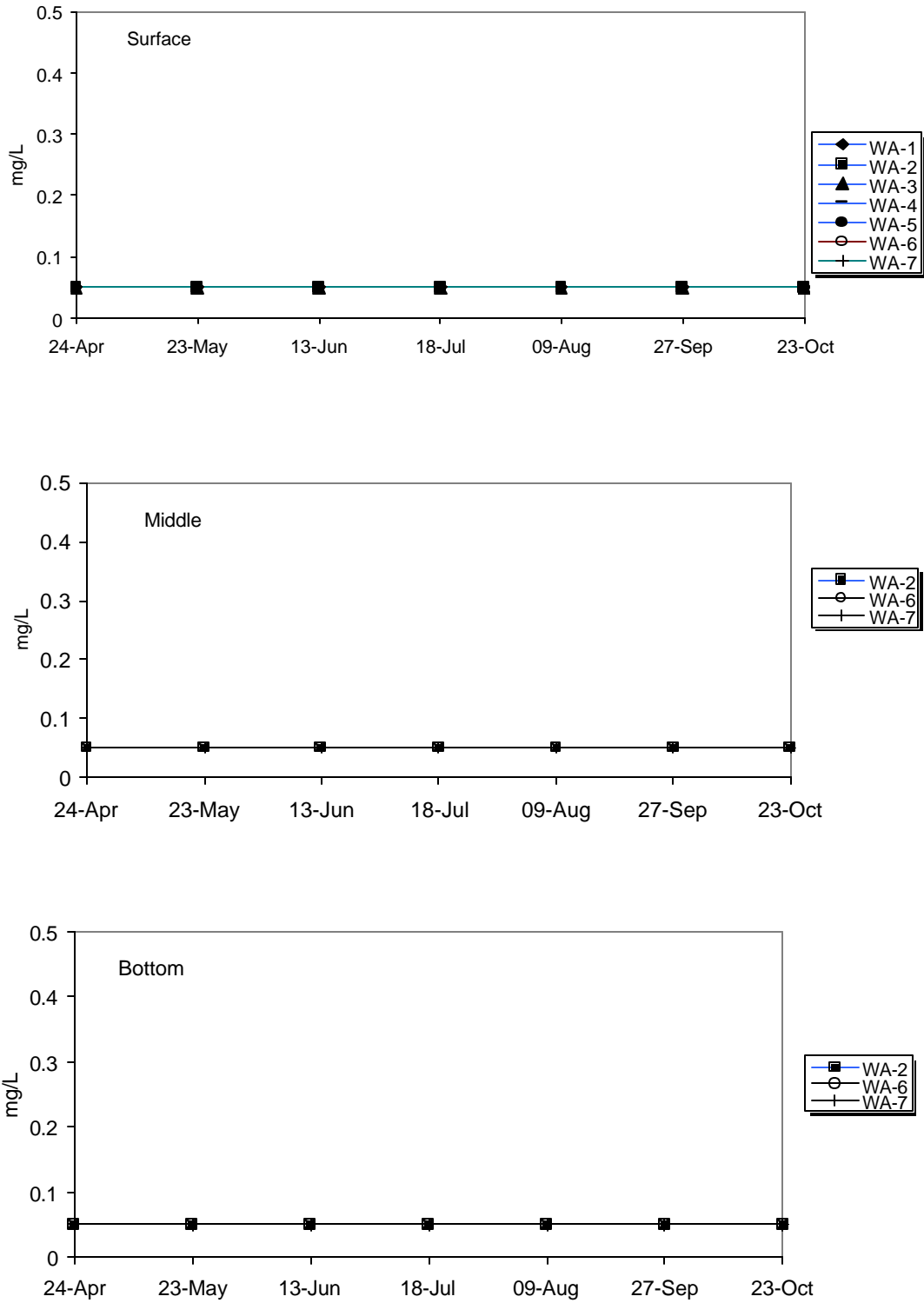


Figure 3-16. Total phosphorus measured in surface, middle, and bottom water of F.E. Walter Reservoir during 2001

Concentrations of total phosphorus measured in 2001 and historical data collected over the past 22 years were analyzed for seasonal trends using regression. The trend analysis was conducted for spring and summer periods, separately for stations representative of the reservoir and downstream. No trends were determined for either of the reservoir or downstream locations (Figs. 3-17 and 3-18). None of the regressions were significant ($P > 0.05$).

A seasonal trend analysis of total phosphorus was also conducted for individual stations of F.E. Walter Reservoir, combining 2001 and historical data. The Mann-Kendall statistic was applied to station data collected over the past 20 years or more, separately for spring (April to June) and summer (July to September) seasons. Stations included in the analysis were representative of locations downstream (WA-1), within the main reservoir (WA-2), and upstream sources on Tobyhanna Creek (WA-3), Lehigh River (WA-4), and Bear Creek (WA-5). Based on this analysis, no significant trends were apparent for individual stations (Table 3-6).

Table 3-6. Seasonal trends of total phosphorus concentration at individual stations of F.E. Walter Reservoir calculated with the Mann-Kendall Statistic.					
Station	# of Years	Spring		Summer	
		P Level	Rate (mg/L)	P Level	Rate (mg/L)
Surface Water					
WA-1	21	NS	-0.95	NS	0.16
WA-2	22	NS	-0.27	NS	-0.17
WA-3	21	NS	-0.57	NS	0.23
WA-4	22	NS	-0.21	NS	-0.26
WA-5	22	NS	0.10	NS	0.0

3.2.7 Total Dissolved Solids

Total dissolved solids (TDS) in the water column of F.E. Walter Reservoir throughout, followed a similar pattern during 2001. Concentrations at all stations and depths averaged 51-mg/L over the monitoring period while ranging from 10 to 100-mg/L (Fig. 3-19). Higher concentrations were measured at station WA-2 in the middle and bottom waters in October. In that month, the concentration of TDS in the middle water was 164-mg/L while that in the bottom water was 146-mg/L.

F.E. Walter Reservoir was in compliance with the PADEP water quality standard for total dissolved solids during 2001. The water quality standard is a maximum concentration of 500-mg/L. Throughout the monitoring period, concentrations measured at all stations were always three times less than the standard.

Total Phosphorus *Spring*

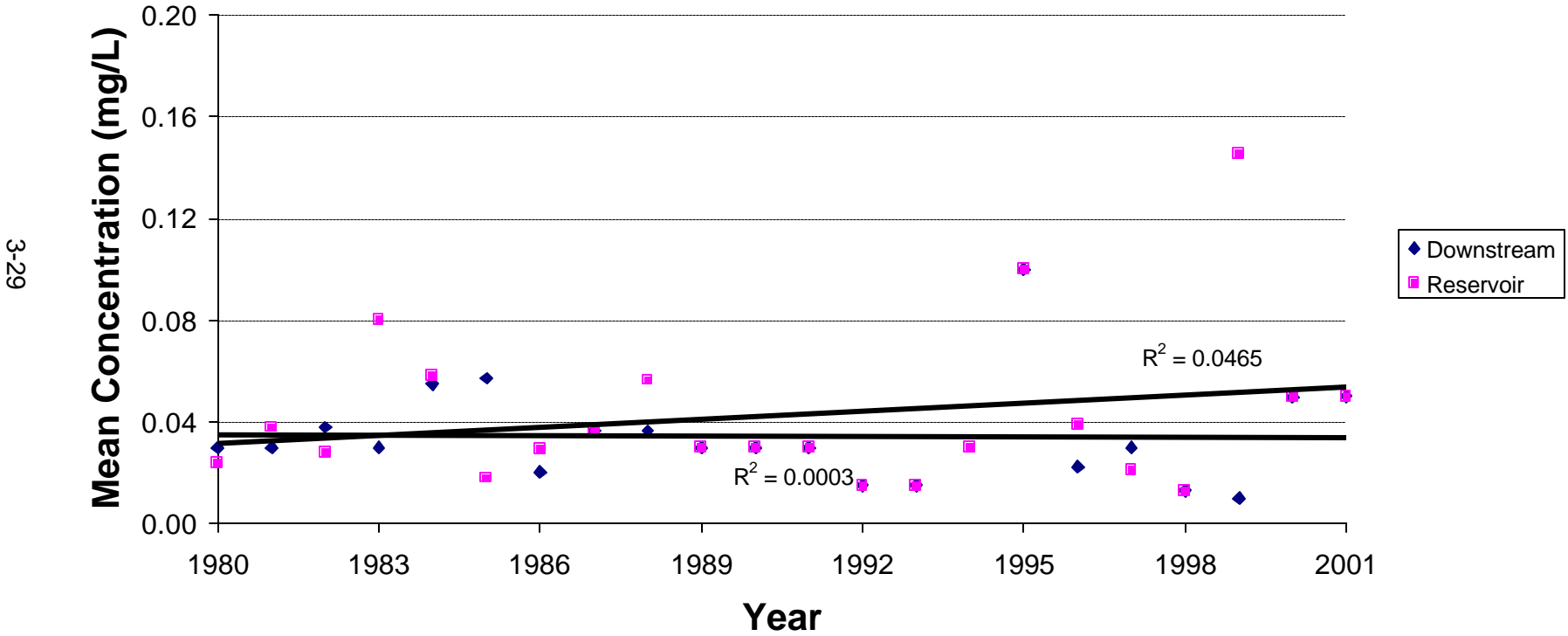


Figure 3-17. Seasonal trend analysis for total phosphorus measured during spring months (April, May, and June) at F.E. Walter Reservoir

Total Phosphorus *Summer*

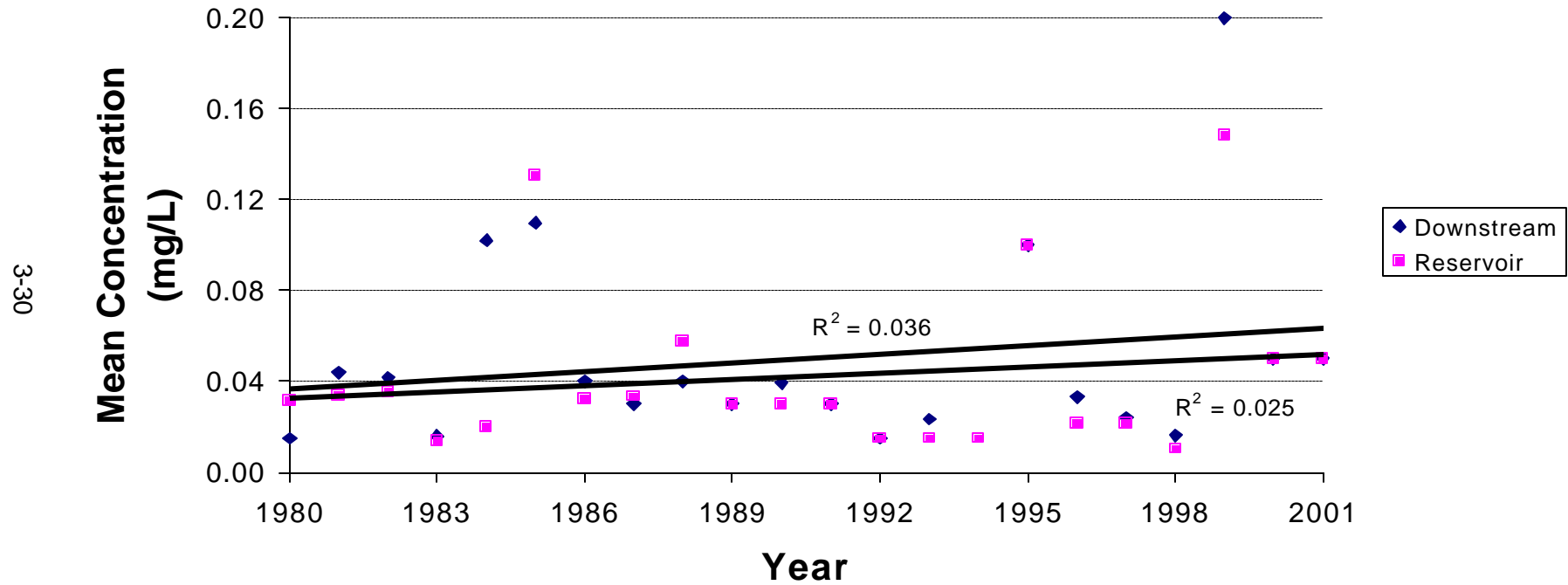


Figure 3-18. Seasonal trend analysis for total phosphorus measured during summer months (July, August, and September) at F.E. Walter Reservoir

Concentrations of total dissolved solids measured in 2001 and historical data collected over the past 26 years were analyzed for seasonal trends. The trend analysis was conducted for spring and summer periods, separately for stations representative of the reservoir and downstream. TDS concentrations at F.E. Walter Reservoir have not changed consistently over the time series (Fig. 3-21 and 3-22). No significant trends were identified by the regression analyses ($P > 0.05$) for either season at reservoir and downstream stations.

TDS concentrations measured in 2001 were higher than in prior years of monitoring. Seasonal averages calculated for this year's data plotted above the regression for both reservoir and downstream locations.

A seasonal trend analysis of TDS was also conducted for individual stations of F.E. Walter Reservoir combining 2001 and historical data. The Mann-Kendall statistic was applied to station data collected over the past 23 years or more, separately for spring (April to June) and summer (July to September) seasons. Stations included in the analysis represented: downstream (WA-1), main reservoir (WA-2), and upstream sources on Tobyhanna Creek (WA-3), Lehigh River (WA-4), and Bear Creek (WA-5). Based on this analysis, no significant trends were apparent for individual stations (Table 3-7).

Table 3-7. Seasonal trends of total dissolved solids concentration at individual stations of F.E. Walter Reservoir calculated with the Mann-Kendall Statistic.					
Station	# of Years spring/summer	Spring		Summer	
		P Level	Rate (mg/L)	P Level	Rate (mg/L)
Surface Water					
WA-1	26	NS	-0.25	NS	-0.22
WA-2	27	NS	-0.44	NS	-0.29
WA-3	26	NS	0.46	NS	0.01
WA-4	27	NS	0.19	NS	0.11
WA-5	23	NS	-0.37	NS	0.67

3.2.8 Total Suspended Solids

Total suspended solids (TSS) in the water column of F.E. Walter Reservoir were consistently low in 2001. For the most part, concentrations measured throughout the reservoir ranged less than 10 mg/L (Fig. 3-24). Overall concentrations at stations and all depths averaged 5.6-mg/L and ranged from 1 to 38-mg/L (Fig. 3-23).

Total Dissolved Solids

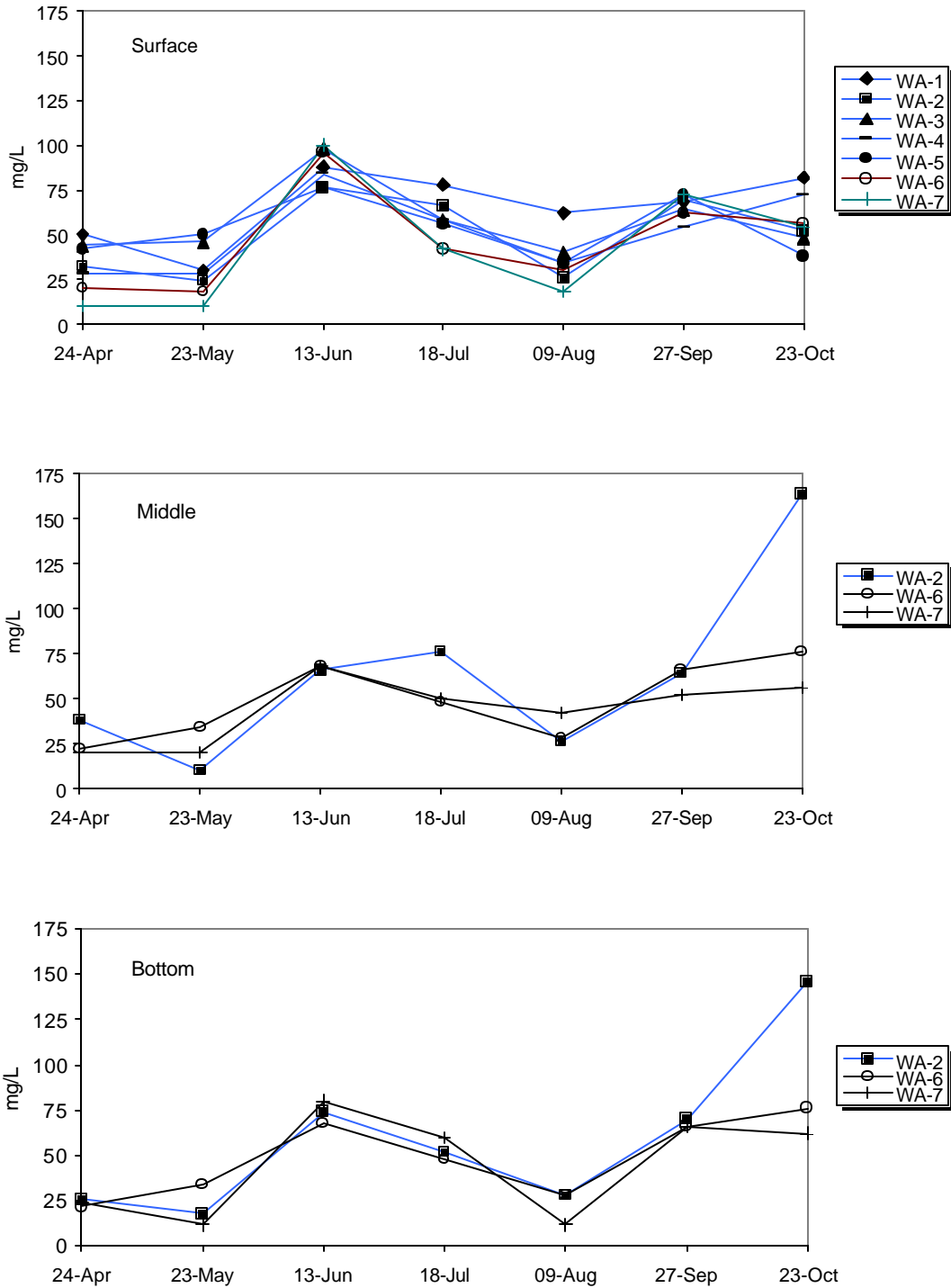


Figure 3-19. Total dissolved solids measured in surface, middle, and bottom water of F.E. Walter Reservoir during 2001. The PADEP water quality standard for TDS is a maximum concentration of 500 mg/L.

Total Dissolved Solids *Spring*

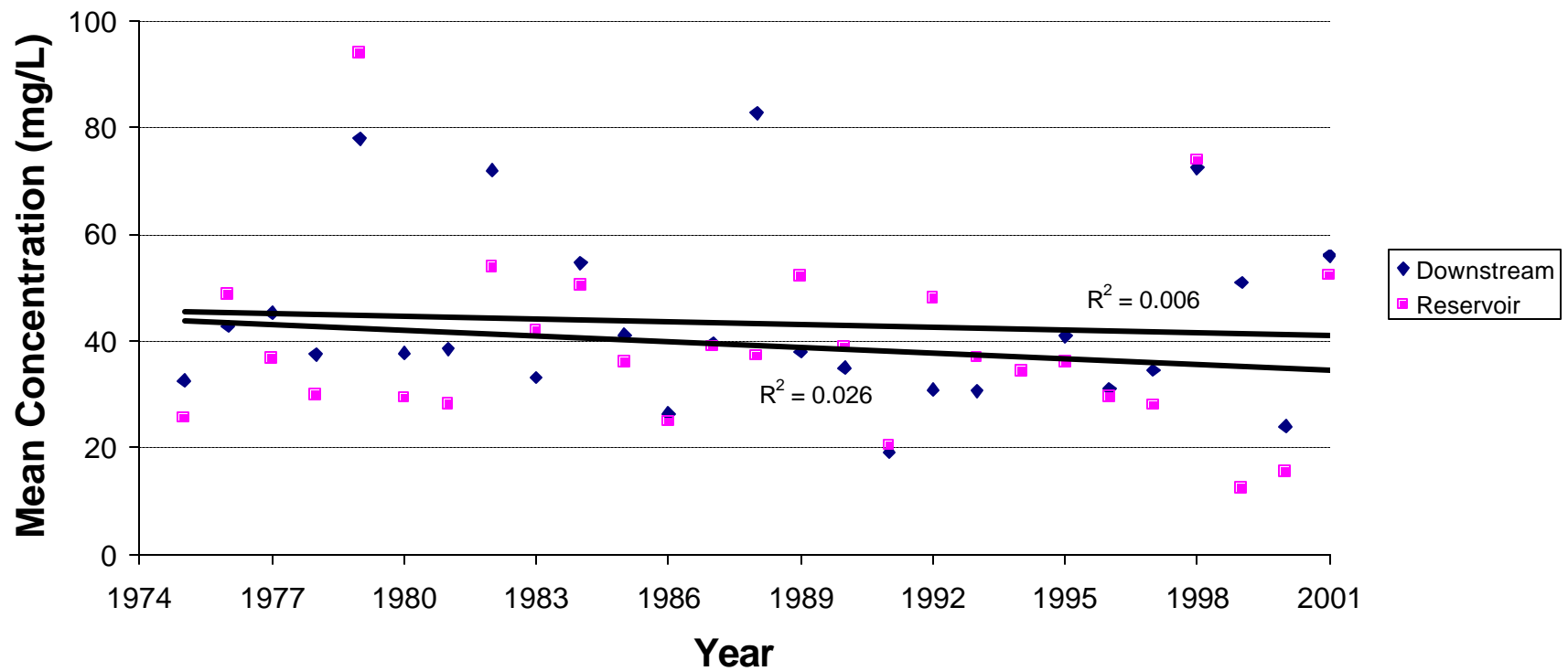


Figure 3-20. Seasonal trend analysis for total dissolved solids measured during spring months (April, May, and June) at F.E. Walter Reservoir

Total Dissolved Solids *Summer*

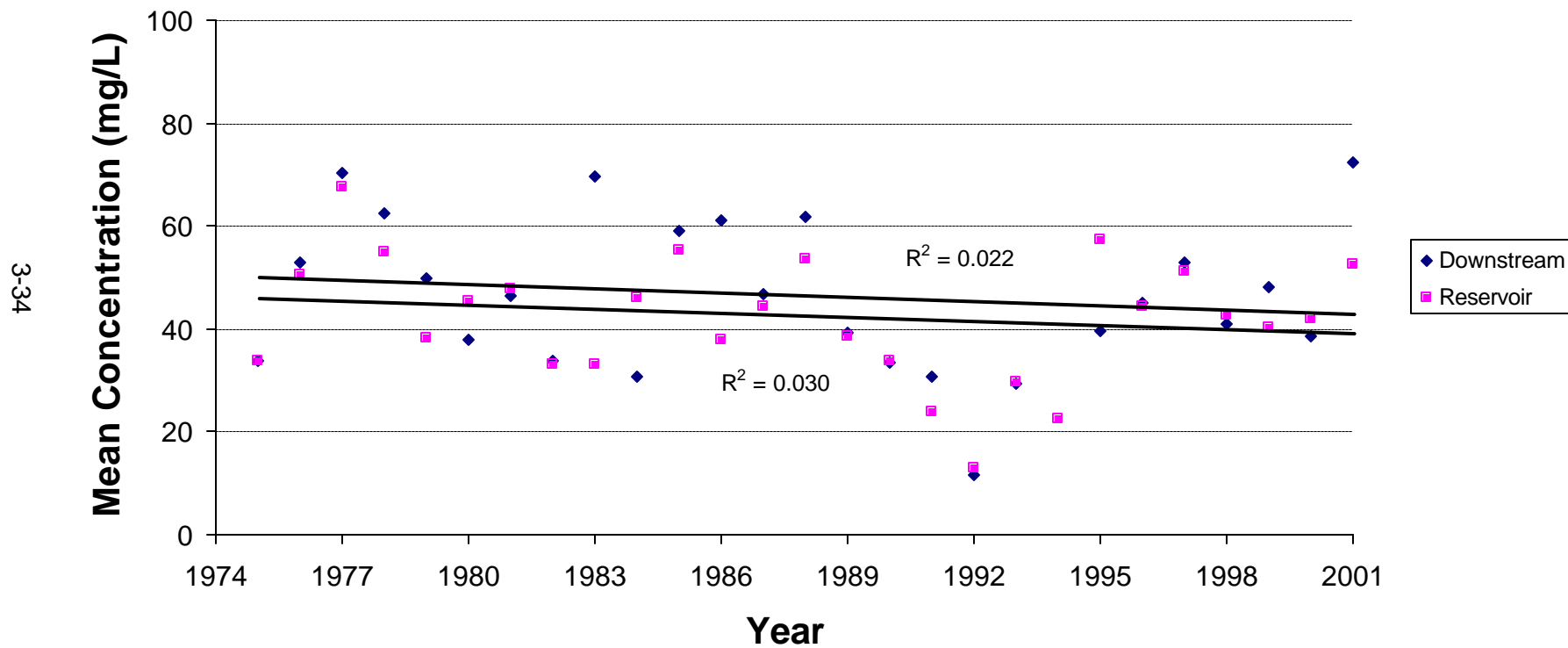


Figure 3-21. Seasonal trend analysis for total dissolved solids measured during summer months (July, August, and September) at F.E. Walter Reservoir

3.2.9 Biochemical Oxygen Demand

Biochemical oxygen demand (BOD) in the water column of F.E. Walter Reservoir was consistently low during 2001. Concentrations measured at all stations and depths were always less than method detection limits (between 1 and 3-mg/L) throughout the monitoring period (Fig. 3-22).

Concentrations of BOD measured in 2001 and historical data collected from over the past 22 years were analyzed for seasonal trends. The trend analysis was conducted for spring and summer periods, separately, for stations representative of the reservoir and downstream. No seasonal trends were determined for either of the reservoir and downstream locations (Fig. 3-23 and 3-24). None of the regressions were significant ($P > 0.05$). The analyses; however, has probably been confounded by low concentrations measured in recent years. Since 1995, the seasonal averages at both locations have been near or less than the method detection limits which ranged from 2 to 4-mg/L.

A seasonal trend analysis of BOD was also conducted for individual stations of F.E. Walter Reservoir combining 2001 and historical data. The Mann-Kendall statistic was applied to station data collected over the past 20 years or more, separately, for spring (April to June) and summer (July to September) seasons. Stations included in the analysis were representative of locations downstream (WA-1), within the reservoir (WA-2), and upstream sources on Tobyhanna Creek (WA-3), Lehigh River (WA-4), and Bear Creek (WA-5). Based on this analysis, no significant trends were identified for individual stations (Table 3-8).

Table 3-8. Seasonal trends of BOD concentration at individual stations of F.E. Walter Reservoir calculated with the Mann-Kendall Statistic.					
Station	# of Years spring/summer	Spring		Summer	
		P Level	Rate (mg/L)	P Level	Rate (mg/L)
Surface Water					
WA-1	20	NS	-0.025	NS	-0.008
WA-2	21	NS	-0.046	NS	-0.017
WA-3	20	NS	-0.012	NS	0.000
WA-4	21	NS	-0.018	NS	0.000
WA-5	21	NS	0.000	NS	0.000

Total Suspended Solids

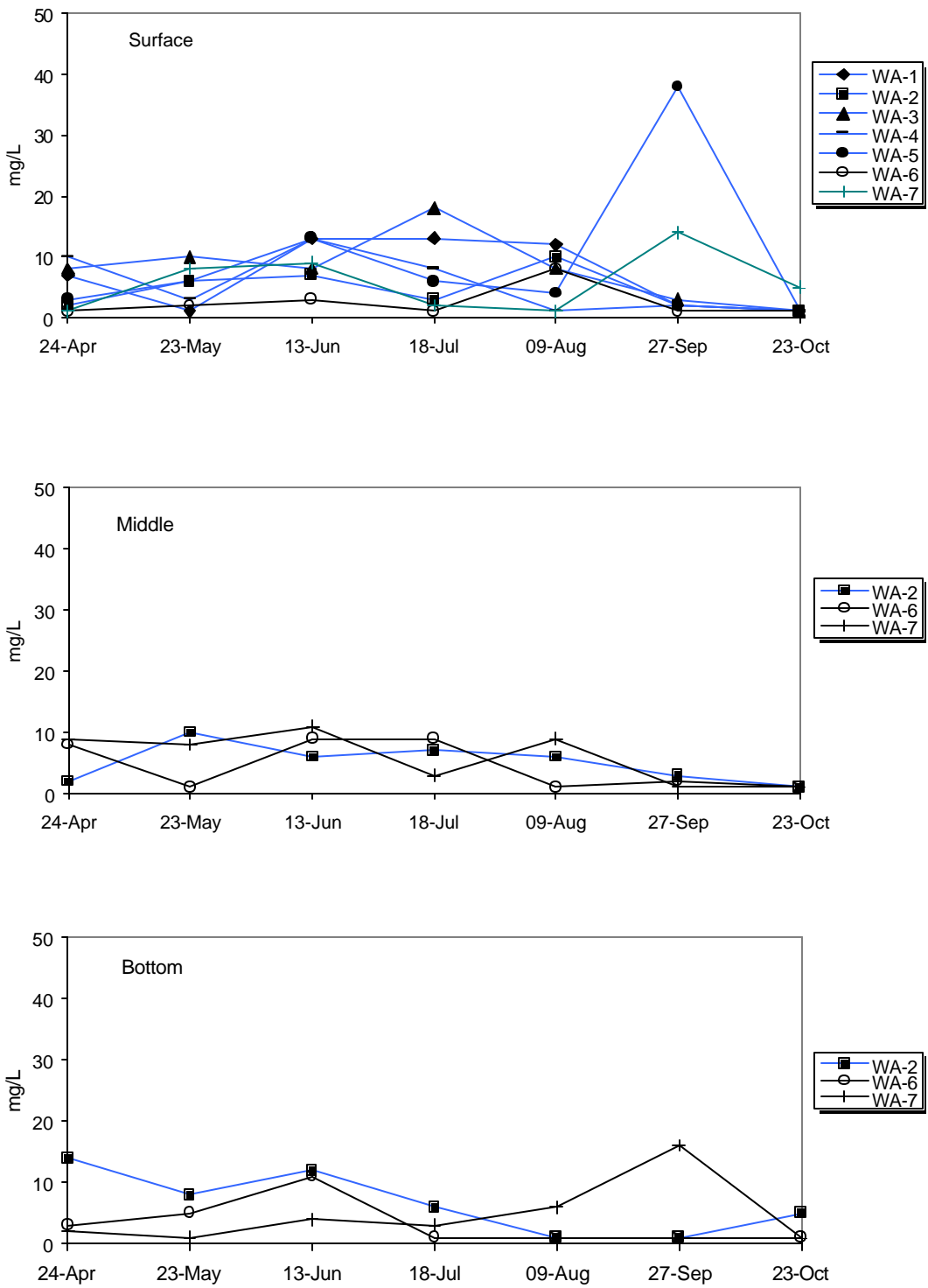


Figure 3-22. Total suspended solids measured in surface, middle, and bottom water of F.E. Walter Reservoir during 2001

Biochemical Oxygen Demand

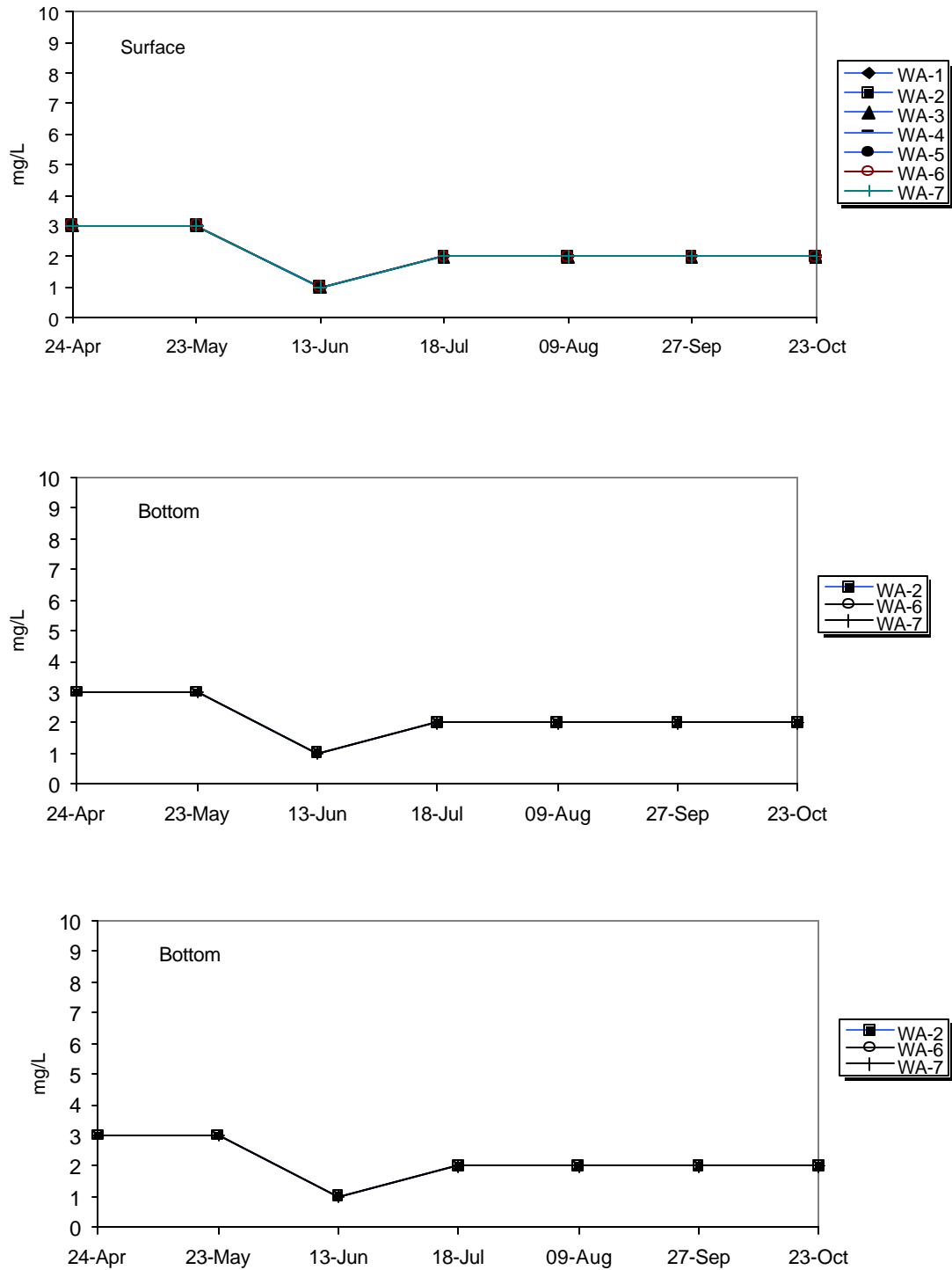
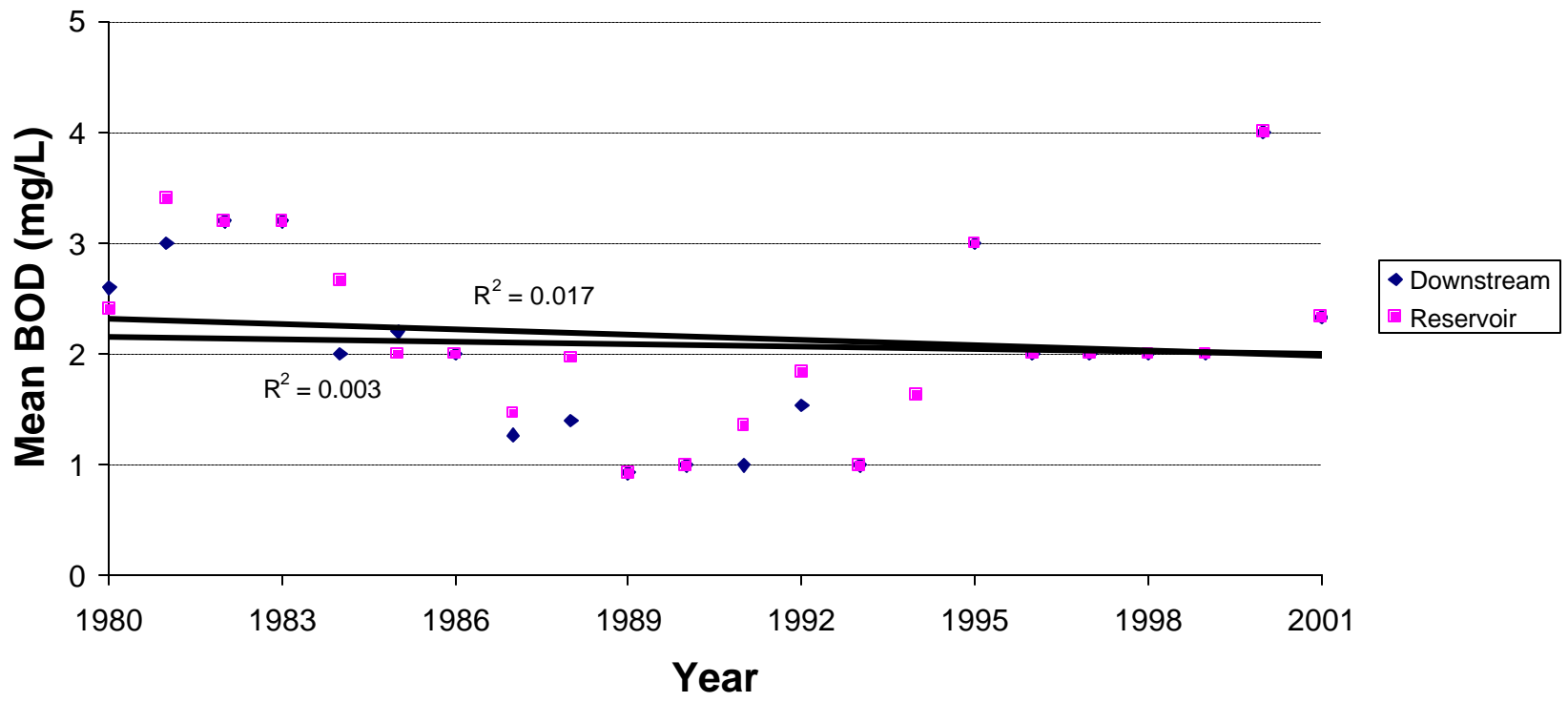


Figure 3-23. Biochemical oxygen demand (5-day) measured in surface, middle, and bottom water of F.E. Walter Reservoir during 2001

5-day Biochemical Oxygen Demand *Spring*



3-38

Figure 3-24. Seasonal trend analysis for biochemical oxygen demand (5-day) measured during spring months (April, May, and June) at F.E. Walter Reservoir

5-day Biochemical Oxygen Demand *Summer*

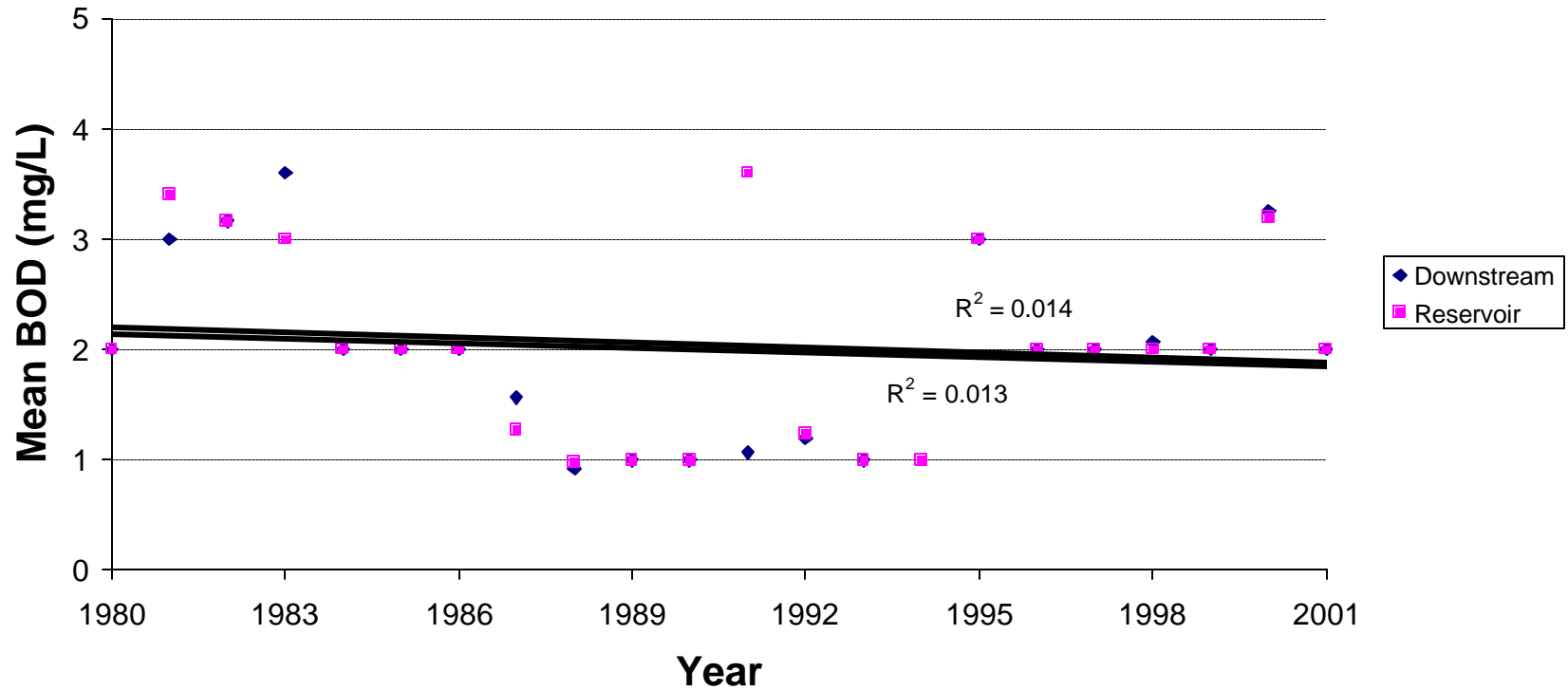


Figure 3-25. Seasonal trend analysis for biochemical oxygen demand (5-day) measured during summer months (July, August, and September) at F.E. Walter Reservoir

3.2.10 Alkalinity

Alkalinity in the waters of F.E. Walter Reservoir was very low during 2001. Concentrations measured at all stations and depths averaged 7.2-mg/L and ranged less than 18 mg/L throughout the monitoring period (Fig. 3-26). Alkalinity is a measure of the acid-neutralizing capacity of water. The PADEP standard is a minimum concentration of 20 mg/L CaCO₃ except where natural conditions are less. The natural alkalinity of water is largely dependent on the underlying geology and soils within the surrounding watershed. The low alkalinity measured at F.E. Walter Reservoir probably results from the regional geology which is primarily sandstone and shale (Van Diver 1990).

3.2.11 Total Inorganic and Organic Carbon

Total inorganic carbon in the water column of Beltzville Reservoir was not present in measurable concentrations during 2001 at most stations (Fig. 3-27). With the exception of WA-1 in June, all concentrations measured were less than the method detection limits of 1 and 5-mg/L. The concentration at WA-1 in June was 3-mg/L.

Total organic carbon in the waters of F.E. Walter Reservoir was very low during 2001. Concentrations measured at all stations and depths averaged 4.6-mg/L and ranged from less than the method detection limits of 1 and 5-mg/L to 8-mg/L throughout the monitoring period (Fig. 3-28).

3.2.12 Chlorophyll *a*

For the most part, chlorophyll *a* was low in the water column of F.E. Walter Reservoir during 2001 (Fig. 3-29). Concentrations at all stations and depths averaged 3.5 mg/m³ and generally ranged up to 10-mg/m³ throughout the monitoring period. A higher concentration; however, was measured in the lower water column of the reservoir at station WA-7. The concentration at WA-7 during July was 27.4 mg/m³.

3.3 TROPHIC STATE DETERMINATION

Carlson's (1977) trophic state index (TSI) is a method of expressing the extent of eutrophication of a lake, quantitatively. The trophic state analysis calculates separate indices for eutrophication based on measures of total phosphorus, chlorophyll *a*, and secchi disk depth. Index values for each parameter range on the same scale from 0 (least enriched) to 100 (most enriched). The resulting indices can also be compared to qualitative threshold values that correspond to levels of eutrophication: mesotrophic (TSI < 40), mesoeutrophic (TSI's from 50 to 60), and eutrophic (TSI > 60).

Alkalinity

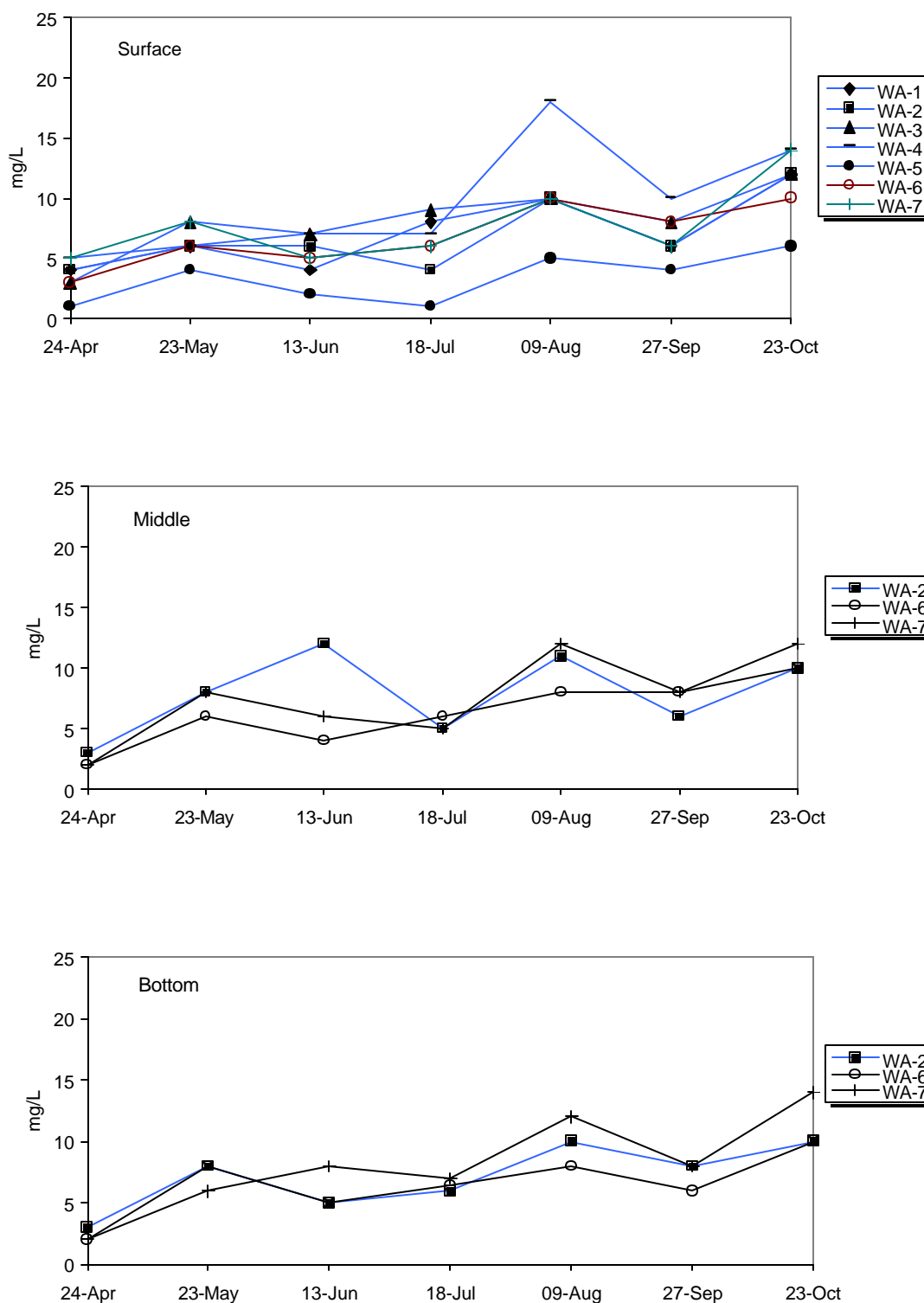


Figure 3-26. Alkalinity measured in surface, middle, and bottom water of F.E. Walter Reservoir during 2001. The PADEP water quality standard for alkalinity is a minimum concentration of 20 mg/L.

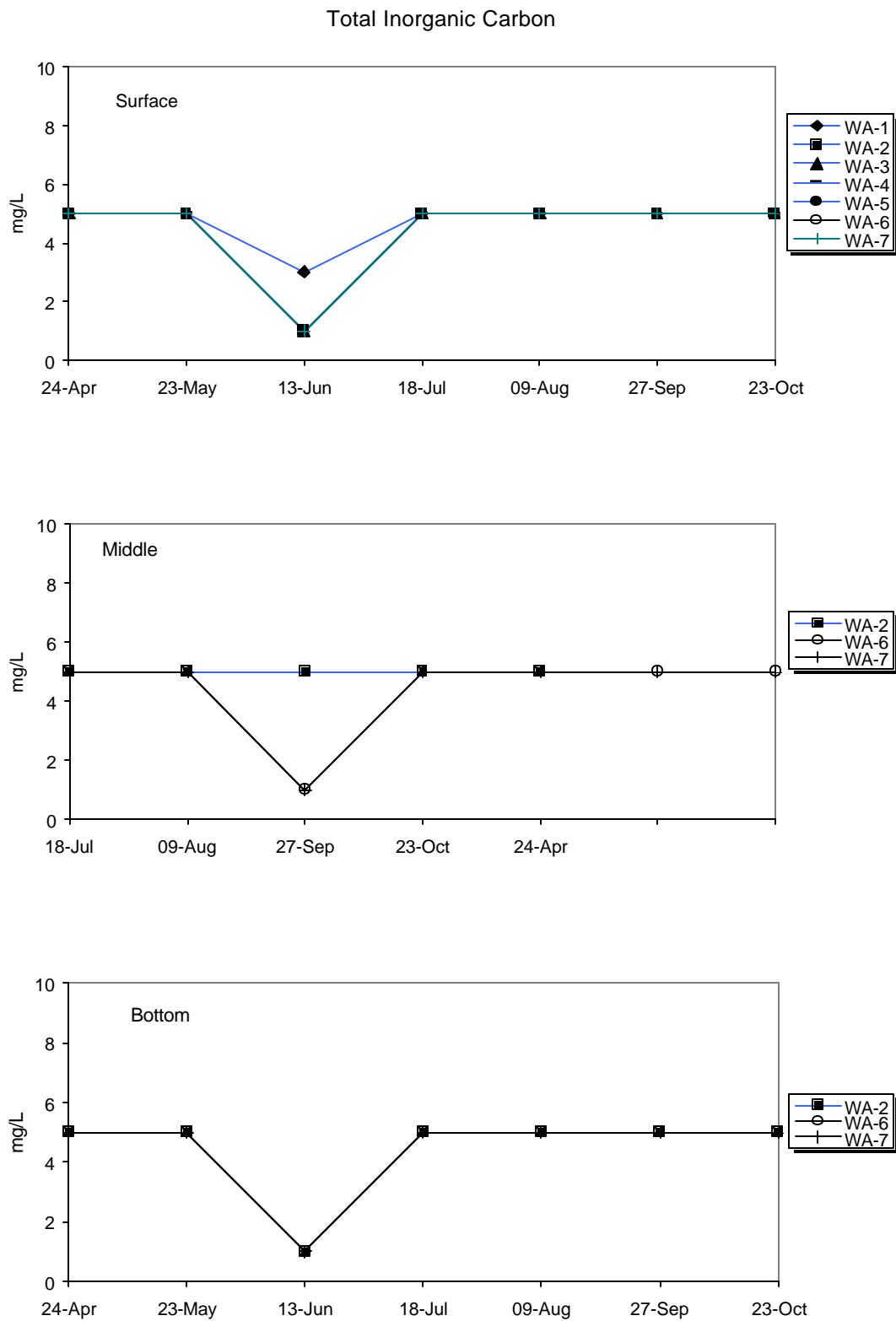


Figure 3-27. Total inorganic carbon measured in surface, middle, and bottom water of F.E. Walter Reservoir during 2001.

Total Organic Carbon

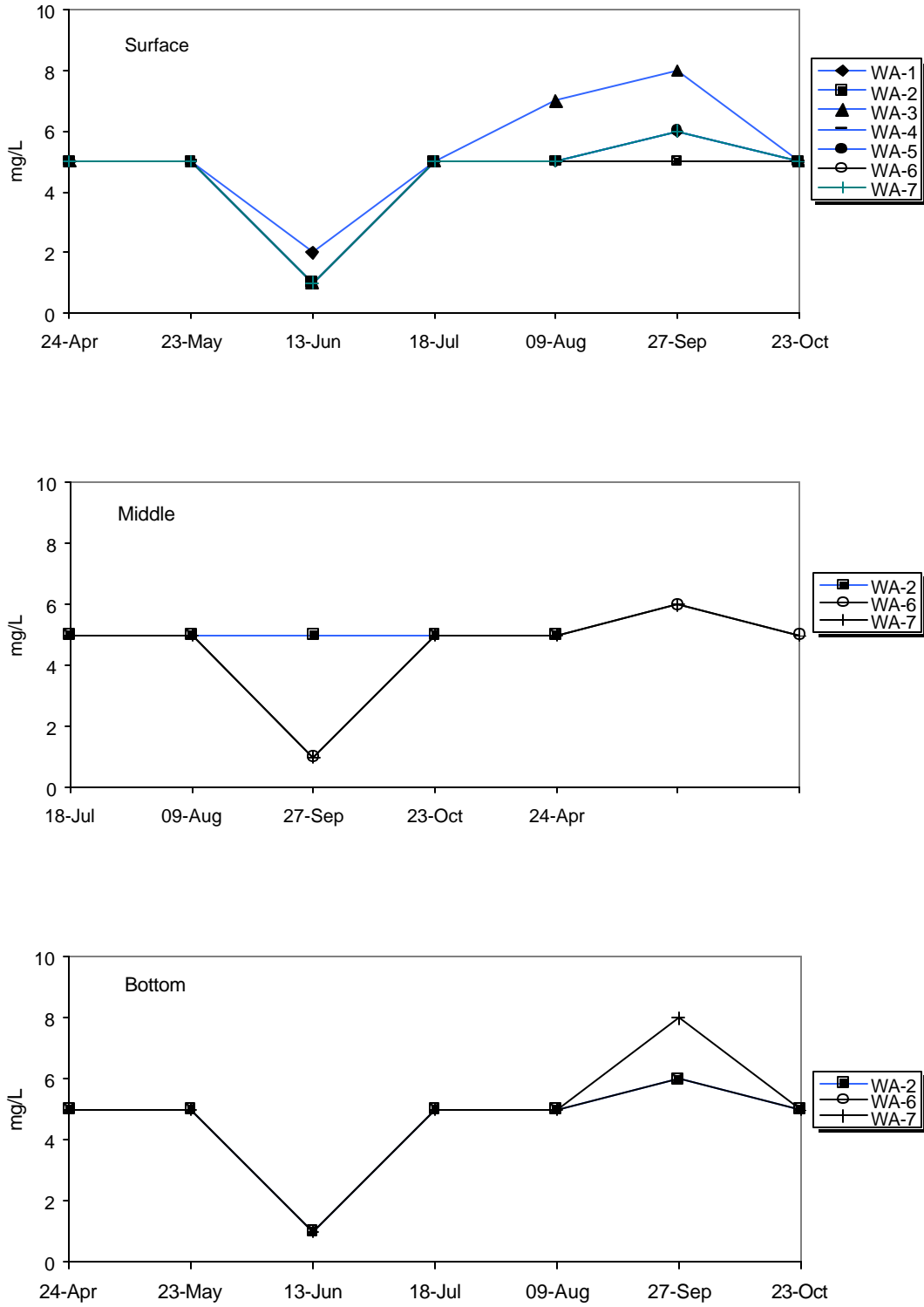


Figure 3-28. Total organic carbon measured in surface, middle, and bottom water of F.E. Walter Reservoir during 2001

Chlorophyll a

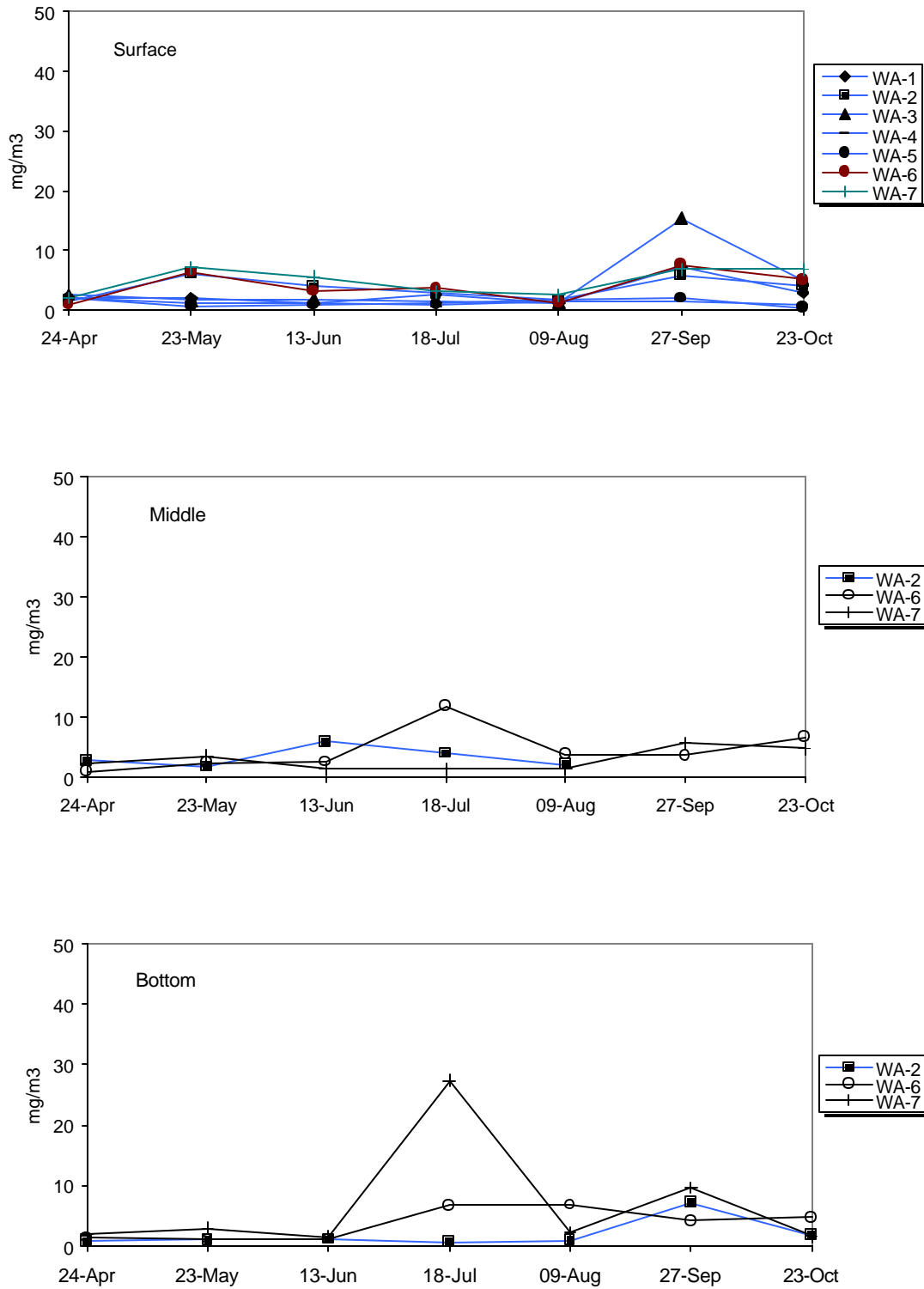


Figure 3-29. Chlorophyll a measured in surface, middle, and bottom water of F.E. Walter Reservoir during 2001

TSIs calculated for measures of secchi disk depth classified F.E. Walter Reservoir as mesotrophic with values ranging from 40 to 47 in April through August. In September and October the trophic state is classified as mesoeutrophic with values of 51 and 55 (Fig. 3-30).

The TSI classification based on measures of total phosphorus was not feasible because of the high method detection limit for the parameter (Fig. 3-30). All concentrations measured at F.E. Walter Reservoir were less than the method detection limit of 0.05-mg/L. However, at this concentration, the TSI result of 60 is already bordering on eutrophic.

TSIs calculated for measures of chlorophyll *a* classified F.E. Walter Reservoir as mesotrophic during 2001 (Fig. 3-30). Most of the values throughout the monitoring period range from 40 to 50 except for two monthly averages in April and August, which range below 40 in the oligotrophic level.

Carlson (1977) warned against averaging TSI values estimated for different parameters, and instead suggested giving priority to chlorophyll *a* during the summer and to phosphorus in the spring, fall, and winter. With this in mind, and the general agreement in pattern between TSI values for secchi disk depth and chlorophyll *a*, it is our estimation that the reservoir was mesotrophic during 2001.

The EPA (1983) also provides criteria for classifying the trophic conditions of lakes of the North Temperate Zone based on concentrations of total phosphorus, chlorophyll *a*, and secchi disk depth (Table 3-9). As related above, total phosphorus was not measured with enough precision to permit a substantive interpretation of trophic condition. Of the remaining two parameters, the classifications of chlorophyll *a* and secchi disk depth classified the reservoir as mesotrophic. Following the logic of Carlson, and giving weight to chlorophyll *a*, the trophic state for F. E. Walter Reservoir during 2001 would be mesotrophic.

Table 3-9. EPA trophic classification criteria and average monthly measures for F.E. Walter Reservoir in 2001										
Water Quality Variable	Oligo-trophic	Meso-trophic	Eutrophic	Apr	May	Jun	Jul	Aug	Sep	Oct
Total phos. (µg/l)	<10	10-20	>20	50	50	50	50	50	50	50
Chlorophyll (mg/m ³)	<4	4-10	>10	1.56	6.13	3.97	2.80	1.74	5.87	3.99
Secchi depth (m)	>3.7	2-4	<2	2.95	2.40	2.53	2.74	3.96	1.35	1.85
NM = not measured										

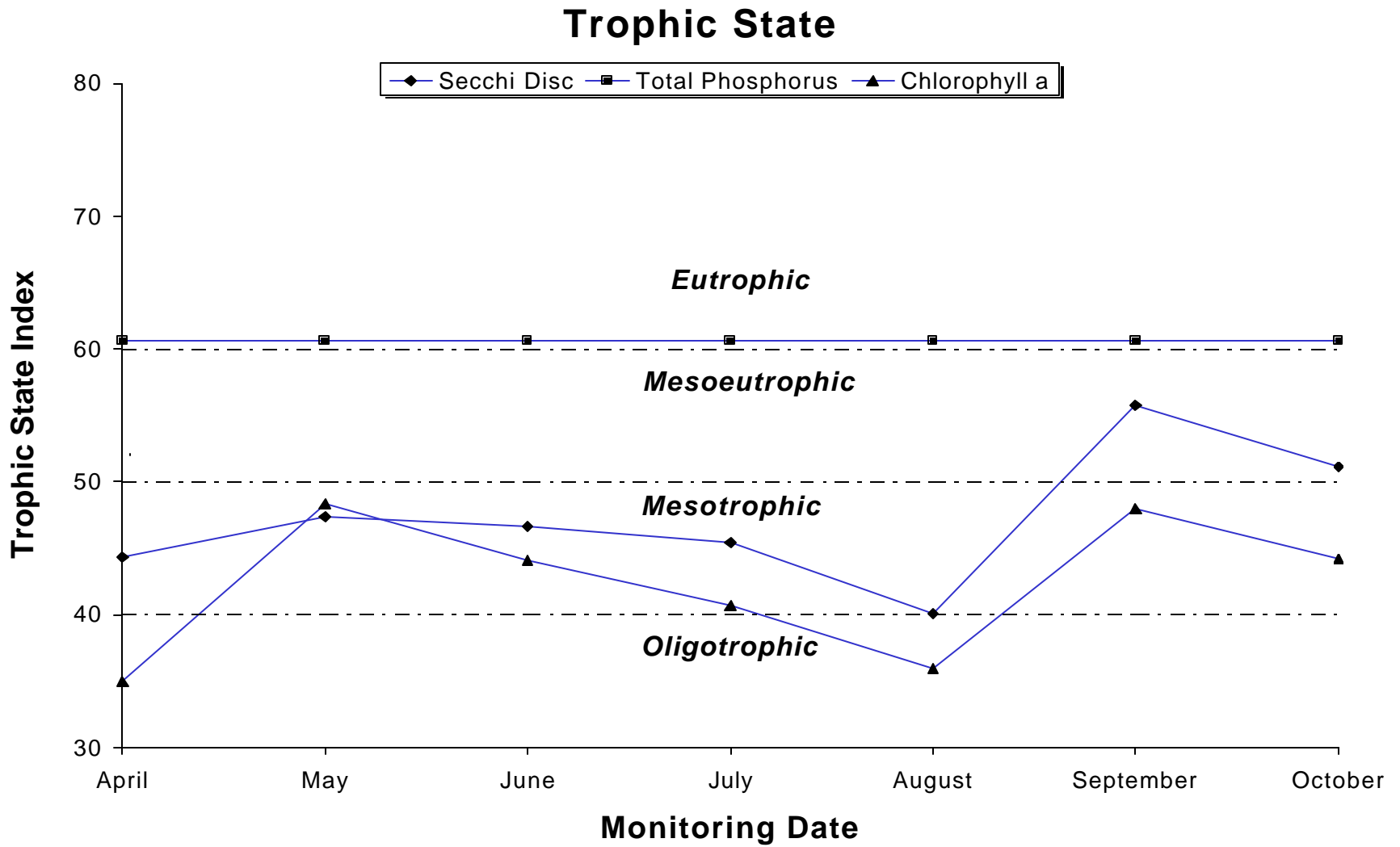


Figure 3-30. Trophic state indices calculated from secchi disk depth and concentrations of chlorophyll a and total phosphorus measured in surface water of F.E. Walter Reservoir during 2001

3.4 RESERVOIR BACTERIA MONITORING

Two forms of coliform bacteria contamination were monitored at F.E. Walter Reservoir during 2001 including total and fecal coliform (Table 3-10). Total coliform includes *Escherichia coli* (*E. coli*) and related bacteria that are associated with fecal discharges. Fecal coliform bacteria are a subgroup of the total coliform and are normally associated with waste derived from human and other warm-blooded animals.

Total coliform contamination was variable at F.E. Walter Reservoir during 2001. Most counts among all stations ranged from 10 to 1500-clns/100-ml throughout the monitoring period (Table 3-10; Fig. 3-31). Coliform bacteria contamination counts were the highest in September and October at each station. Total coliforms were not detected at WA-1 and WA-6 in the June 2001 samples.

Fecal coliform contamination at F.E. Walter Reservoir during 2001 ranged from 10 to 800-clns/100-ml throughout the monitoring period (Table 3-10; Fig. 3-32). As was the case for total coliform, the highest fecal coliform levels were observed in September and October.

Bacteria contamination was high in September at F.E. Walter Reservoir with respect to PADEP water quality standards. The water quality standard for bacteria contamination is a geometric mean among fecal coliform samples less than 200 colonies/100-ml. However, application of this standard is conservative because swimming and other human/water contact recreation is prohibited in the reservoir. The geometric mean calculated in September among seven samples was 357.2-clns/100mls (Table 3-11; Fig. 3-33). The other months were below PADEP water quality standard.

Flow data from USGS gauging stations within the F. E. Walter Reservoir watershed (Stoddartsville and Blakeslee) were analyzed to qualitatively correlate precipitation events with coliform bacteria data (Fig 2-2 through 2-5). Precipitation may have contributed to elevated coliform levels in the reservoir. On 24 September, a storm event that exceeded two inches immediately preceded monthly monitoring.

Fecal coliform counts for 2001 and historical data from the past 21 years were analyzed for seasonal trends. The trend analysis was conducted for spring and summer seasons separately for stations representative of the reservoir and downstream (Figs. 3-34 and 3-35). From the analysis, fecal coliform contamination appears to have increased downstream of the reservoir during the summer season. The increasing trend was significant ($R^2=0.51$; $P<0.001$), and appeared to be driven by high average counts (about 200 colonies/100-ml) from 1996 to present (Fig. 3-35). Significant trends were not determined for the reservoir in either season, or downstream of the reservoir for the spring (Fig. 3-36).

Table 3-10. Bacteria counts (colonies/100 ml) at F.E. Walter Reservoir during 2001.			
Station	Date	Total Coliform (TC)	Fecal Coliform (FC)
WA-1S	24-Apr	130	10
	23-May	240	10
	13-Jun	< 10	< 10
	18-Jul	20	10
	9-Aug	30	20
	27-Sep	580	360
	23-Oct	320	100
WA-2S	24-Apr	310	< 10
	23-May	50	10
	13-Jun	300	20
	18-Jul	20	20
	9-Aug	70	10
	27-Sep	1200	40
	23-Oct	400	50
WA-3S	24-Apr	250	10
	23-May	100	50
	13-Jun	700	50
	18-Jul	180	100
	9-Aug	40	20
	27-Sep	1000	400
	23-Oct	520	240
WA-4S	24-Apr	230	10
	23-May	200	150
	13-Jun	1200	80
	18-Jul	130	120
	9-Aug	70	60
	27-Sep	1500	800
	23-Oct	780	280
WA-5S	24-Apr	440	< 10
	23-May	150	140
	13-Jun	800	20
	18-Jul	280	160
	9-Aug	260	80
	27-Sep	1200	500
	23-Oct	900	350
WA-6S	24-Apr	140	< 10
	23-May	50	10
	13-Jun	< 10	< 10
	18-Jul	10	10
	9-Aug	20	20
	27-Sep	1240	460
	23-Oct	900	260

Station	Date	Total Coliform (TC)	Fecal Coliform (FC)
WA-7S	24-Apr	120	< 10
	23-May	50	10
	13-Jun	200	10
	18-Jul	80	30
	9-Aug	30	10
	27-Sep	750	700
	23-Oct	490	80

Date	Geometric Mean	Arithmetic mean	Maximum Count
24-Apr	10.0	10.0	10.0
23-May	27.0	54.3	150.0
13-Jun	20.6	28.6	80.0
18-Jul	38.0	64.3	160.0
9-Aug	23.4	31.4	80.0
27-Sep	357.2	465.7	800.0
23-Oct	157.9	194.3	350.0

Seasonal trend analyses of total and fecal coliform bacteria were conducted for individual stations of F. E. Walter Reservoir, combining 2001 and historical data (Tables 3-12 and 3-13). The Mann-Kendall statistic was applied to station data collected over the past 19 years or more, separately for spring (April to June) and summer (July to September) seasons. Stations included in the analysis were representative of downstream (WA-1), within the main reservoir (WA-2), and upstream sources on Tobyhanna Creek (WA-3), Lehigh River (WA-4), and Bear Creek (WA-5).

Fecal coliform bacteria appeared to have increased during the summer season at two locations within the F. E. Walter Reservoir drainage area. Significant trends were determined for stations downstream (WA-1), upstream on the Lehigh River (WA-4), and Bear Creek (WA-5). The yearly rates of increase ranged from 2 to 4 colonies/100-ml (Table 3-12). Significant trends of total coliform contaminants were not indicated at any of the stations in either season.

Total Coliform

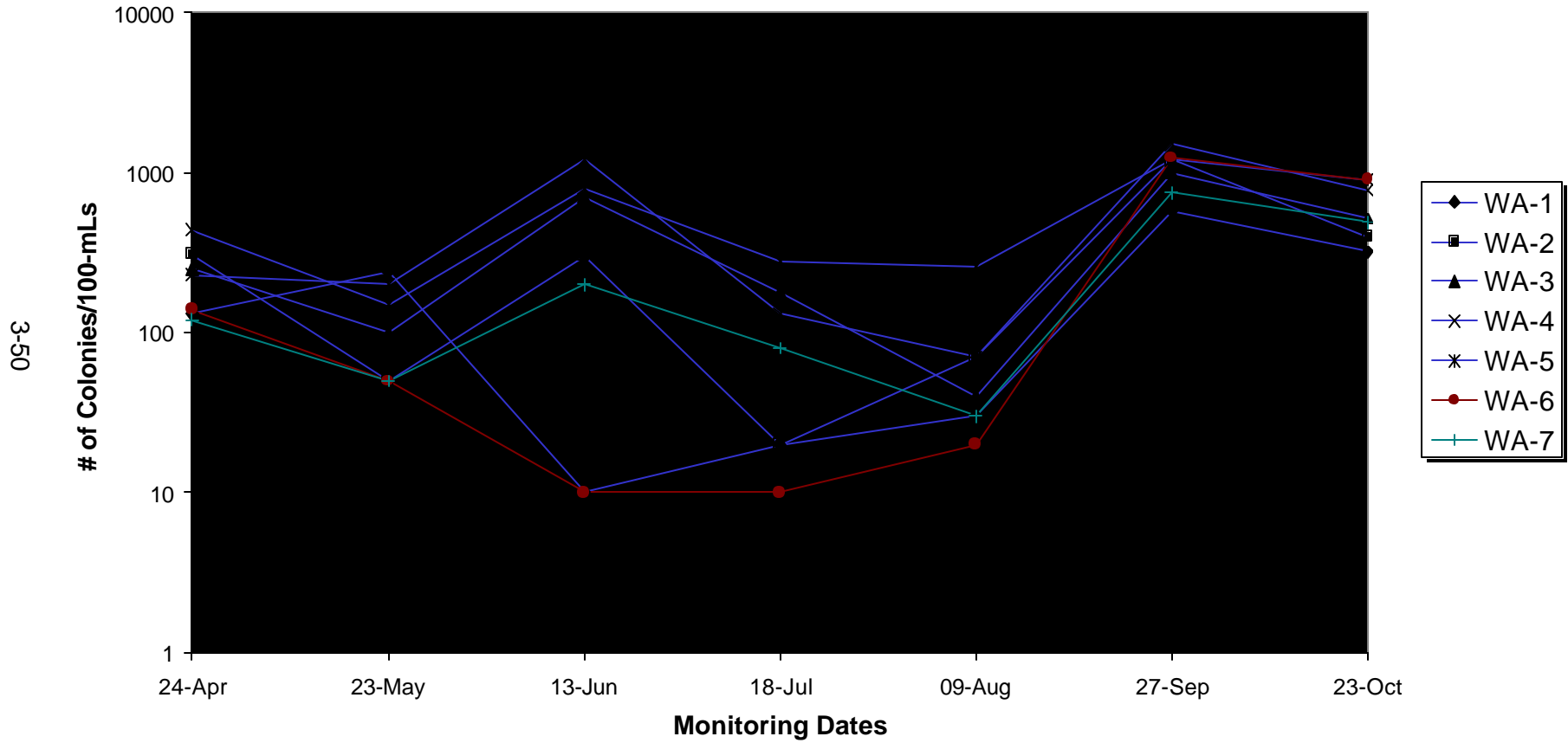


Figure 3-31. Counts of total coliform bacteria in surface waters of F.E. Walter Reservoir during 2001

Fecal Coliform

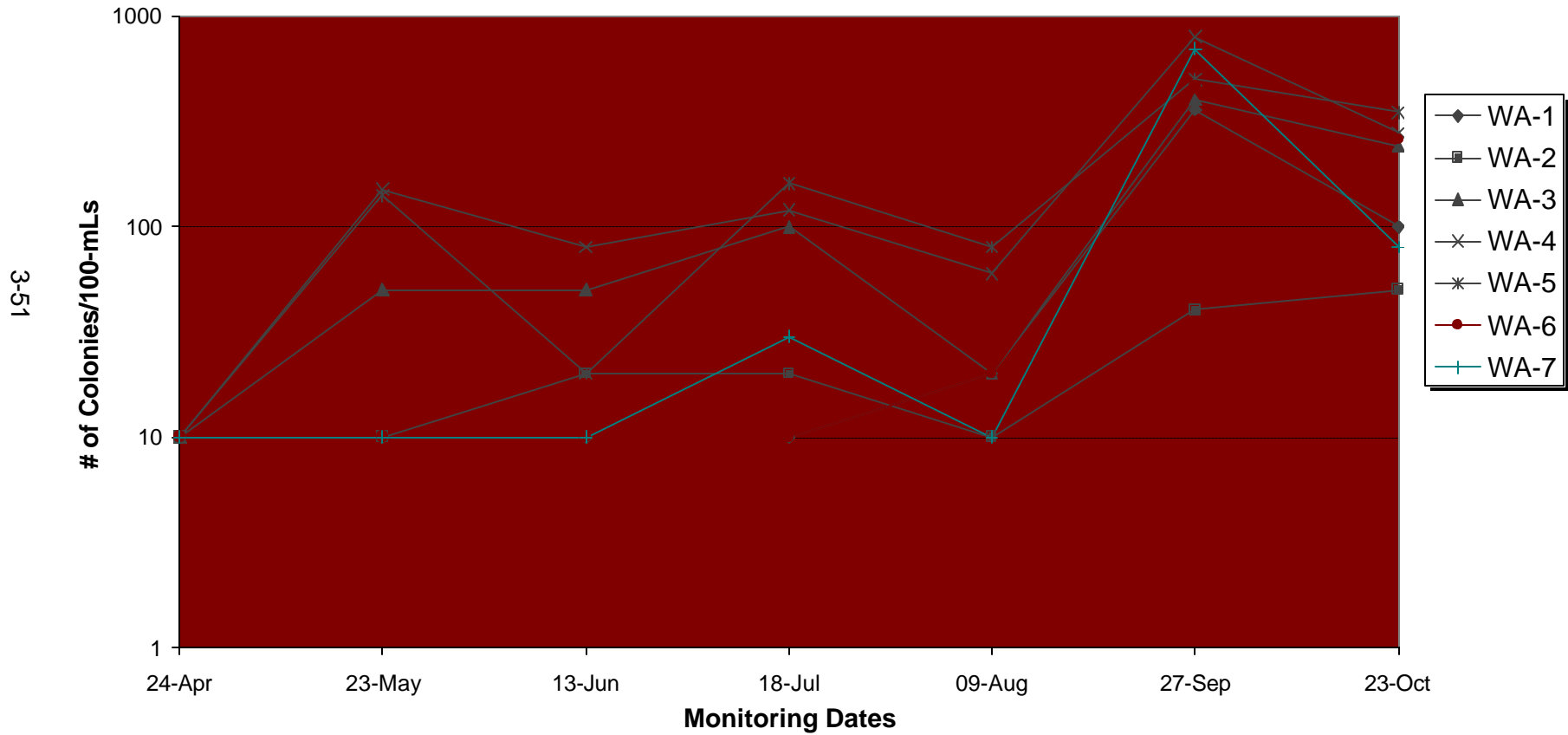


Figure 3-32. Counts of fecal coliform bacteria in surface waters of F.E. Walter Reservoir during 2001

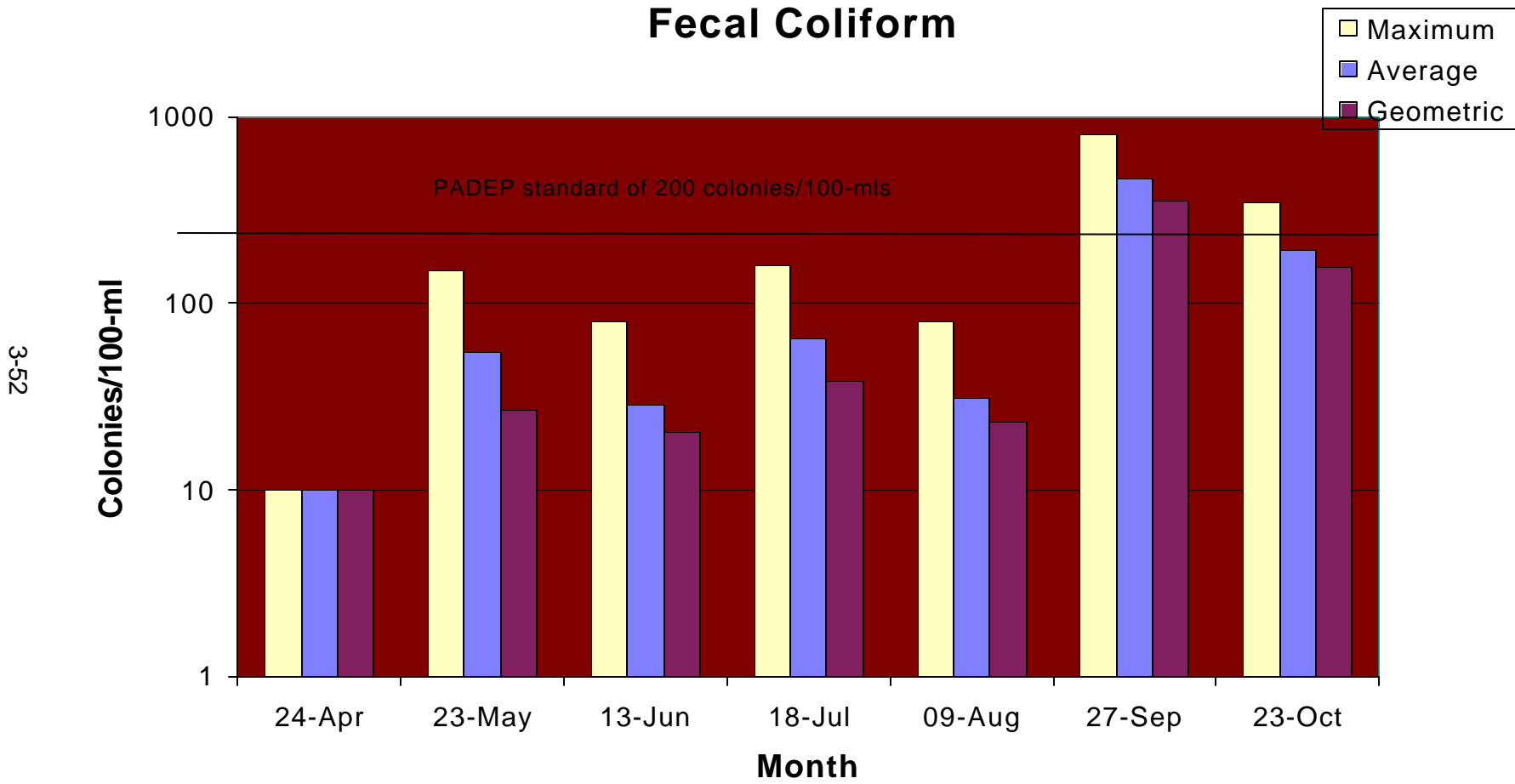


Figure 3-33. Maximum average, and geometric mean of fecal coliform counts (colonies/100-ml) for all stations monitored at F.E. Walter Reservoir in 2001

Fecal Coliform *Spring*

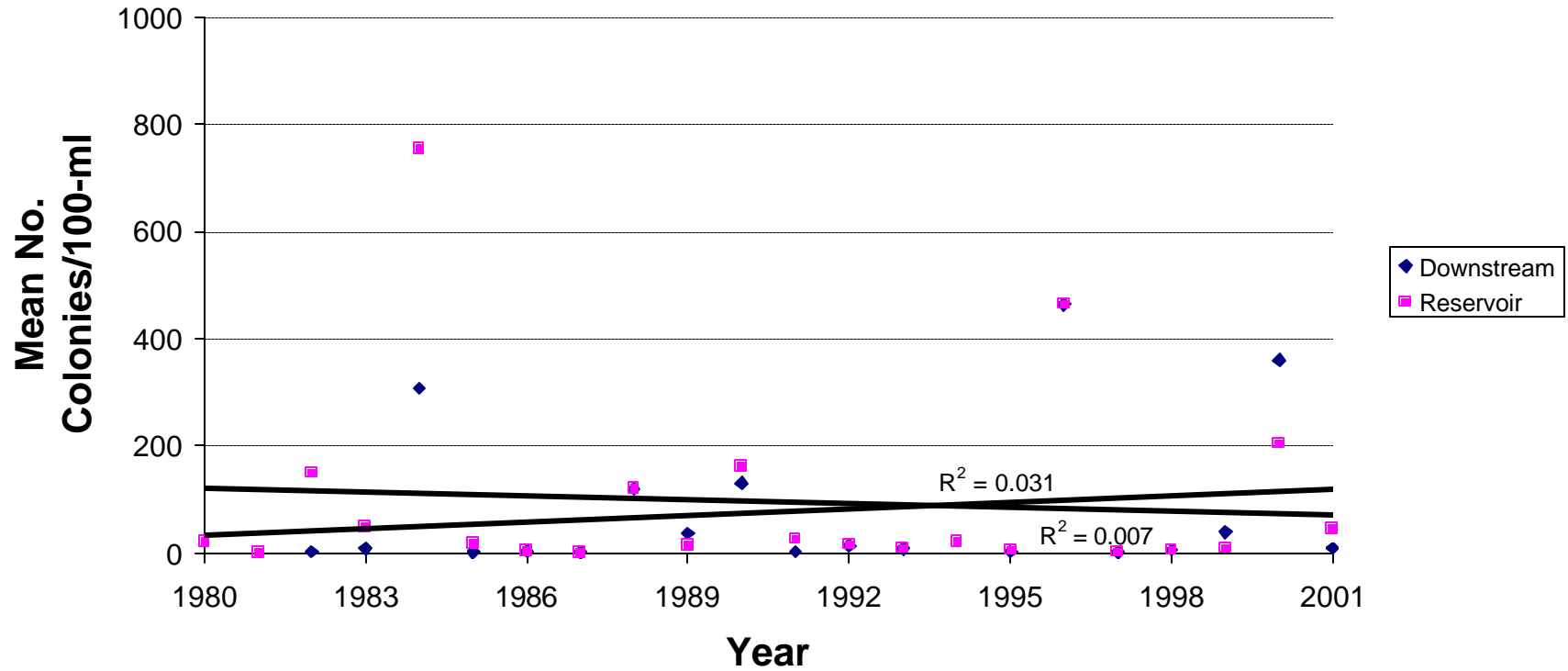


Figure 3-34. Seasonal trend analysis for counts of fecal coliform bacteria during spring months (April, May, and June) at F.E. Walter Reservoir

Fecal Coliform *Summer*

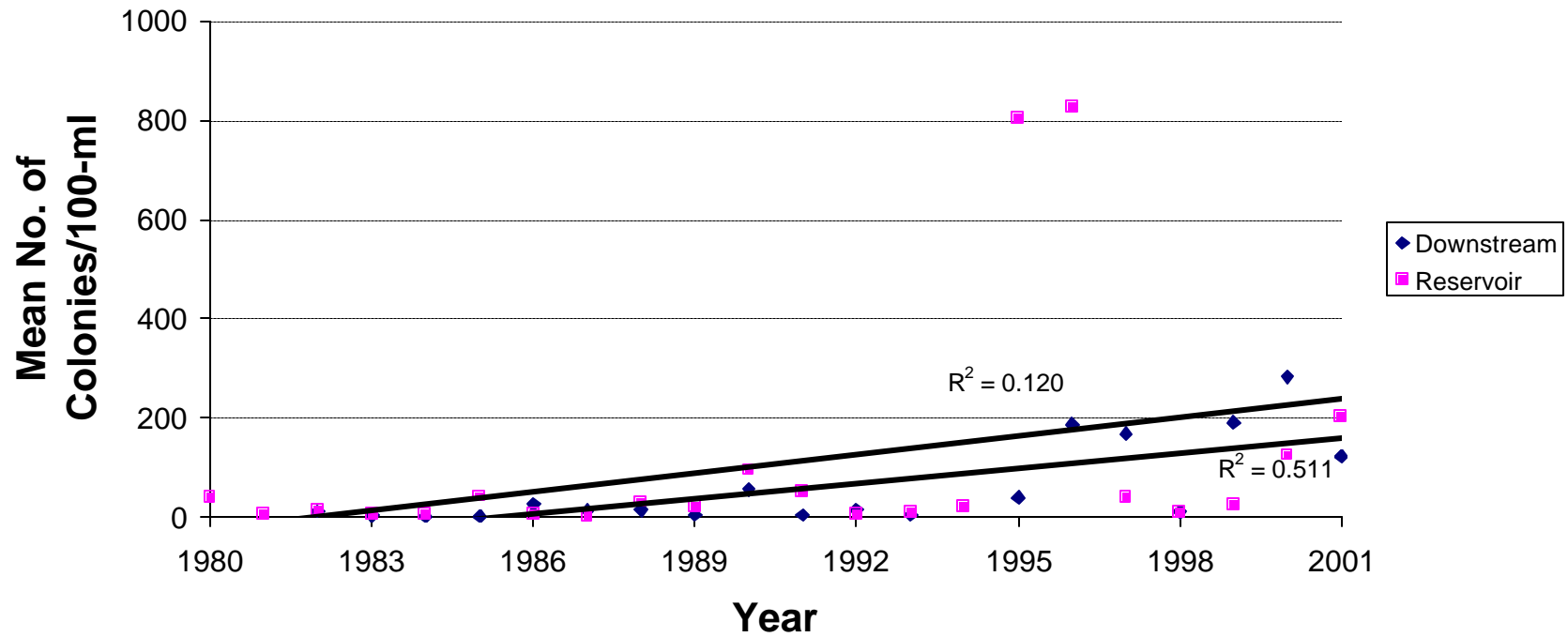


Figure 3-35. Seasonal trend analysis for counts of fecal coliform bacteria during summer months (July, August, and September) at F.E. Walter Reservoir

Table 3-12. Seasonal trends of fecal coliforms/100-ml at individual stations of F.E. Walter Reservoir calculated with the Mann-Kendall Statistic. Shaded values are significant at P=0.05.					
Station	# of Years spring/summer	Spring		Summer	
		P Level	Rate (mg/L)	P Level	Rate
Surface Water					
WA-1	19	NS	0.300	<0.01	2.444
WA-2	22	NS	-0.944	NS	0.625
WA-3	22	NS	0.514	NS	3.00
WA-4	22	NS	2.611	<0.01	4.404
WA-5	22	NS	0.022	<0.05	2.163

Table 3-13. Seasonal trends of total coliforms/100-ml at individual stations of F.E. Walter Reservoir calculated with the Mann-Kendall Statistic.					
Station	# of Years spring/summer	Spring		Summer	
		P Level	Rate (mg/L)	P Level	Rate
Surface Water					
WA-1	19	NS	-15.714	NS	6.00
WA-2	22	NS	-10.167	NS	0.278
WA-3	22/21	NS	-10.00	NS	11.448
WA-4	22	NS	10.188	NS	13.959
WA-5	22	NS	-2.205	NS	16.347

3.5 SEDIMENT PRIORITY POLLUTANT MONITORING

A sediment sample was collected at station WA-2 and analyzed for priority pollutant contaminants, Group 2 – semivolatile organic compounds and metals. Resulting concentrations were compared to New Jersey Soil Cleanup Criteria (NJDEP 1999; Table 3-14). The NJDEP criteria are human health based with categories addressing residential and non-residential settings, and impacts to groundwater. For our comparison, we reported the most conservative of the three criteria.

Of the 21 metals analyzed in F. E. Walter Reservoir sediments, only beryllium concentrations exceeded screening levels (Table 3-14). Beryllium exceeded the screening level by only 0.2 mg/kg.

A total of 17 semivolatile organics (SVOC) were analyzed in F. E. Walter Reservoir sediments (Table 3-16). None of the compounds were detected in the sediment sample from station WA-2 (Table 3-16).

Table 3-14. Metals and semivolatiles (Group II) concentrations measured in sediments of F.E. Walter Reservoir in 2001. Shaded values indicate exceedances.	

Parameter	Units	Method Detection Limit	WA-2	USACE Screening Level	References
CONVENTIONALS					
Percent Solids	%	0.1	25.2		
METALS					
Aluminum	mg/kg	80.2	10,983.80		
Antimony	mg/kg	1.6	ND	14	NJDEP 1999
Arsenic	mg/kg	4	ND	20	
Barium	mg/kg	0.4	144.3	700	NJDEP 1999
Beryllium	mg/kg	0.4	2.2	2	NJDEP 1999
Cadmium	mg/kg	0.4	4.9	39	NJDEP 1999
Calcium	mg/kg	1.6	2076.3		
Chromium	mg/kg	0.4	17.9	33	MacDonald 1992
Cobalt	mg/kg	1.6	16.6		
Copper	mg/kg	0.4	17.8	600	NJDEP 1999
Iron	mg/kg	20	21,885.50		
Lead	mg/kg	1.6	65.6	400	NJDEP 1999
Magnesium	mg/kg	1.6	1,555.20		
Manganese	mg/kg	0.4	735.9		
Mercury	mg/kg	0.07	0.07	0.1	MacDonald 1992
Nickel	mg/kg	0.4	32.1	250	NJDEP 1999
Potassium	mg/kg	1.6	738.3		
Selenium	mg/kg	4	ND	63	NJDEP 1999
Sodium	mg/kg	1.6	115.4		
Vanadium	mg/kg	1.6	23.5	370	NJDEP 1999
Zinc	mg/kg	0.4	424.9	1,500	NJDEP 1999

Table 3-14. (Continued)

Parameter	Units	Method Detection Limit	WA-2	USACE Screening Level	References
SVOC (mg/kg)					
2,4,5-Trichlorophenol	mg/kg	0.397	ND	5,600	NJDEP 1999
2,4,6-Trichlorophenol	mg/kg	0.397	ND	62	NJDEP 1999
2,4-Dichlorophenol	mg/kg	0.397	ND	170	NJDEP 1999
2,4-Dimethylphenol	mg/kg	0.397	ND	10	NJDEP 1999
2,4-Dinitrophenol	mg/kg	0.397	ND	110	NJDEP 1999
2-Chlorophenol	mg/kg	0.397	ND	280	NJDEP 1999
2-Methylphenol	mg/kg	0.397	ND	2,800	NJDEP 1999
2-Nitrophenol	mg/kg	0.397	ND		
3-Methylphenol	mg/kg	0.397	ND		
4,6-Dinitro-2-methylphenol	mg/kg	0.397	ND		
4-Chloro-3-methylphenol	mg/kg	0.397	ND	10,000	NJDEP 1999
4-Methylphenol	mg/kg	0.397	ND	2,800	NJDEP 1999
4-Nitrophenol	mg/kg	0.397	ND		
Benzoic acid	mg/kg	0.397	ND		
Benzyl alcohol	mg/kg	0.397	ND	10,000	NJDEP 1999
Pentachlorophenol	mg/kg	0.397	ND	6	NJDEP 1999
Phenol	mg/kg	0.397	ND	10,000	NJDEP 1999

3.6 DRINKING WATER

Drinking water from the utility sink located in the maintenance building of F. E. Walter Reservoir was monitored for compliance with PADEP water quality standards for primary and secondary contaminants, and inorganic nitrogen (nitrate and nitrite) and coliform bacteria contaminants during 2001. Drinking water samples were analyzed in duplicate, comprising initial and confirmation samples. For matters of reporting, only if the result of the initial sample was not in compliance with water quality standards, the result of the confirmation sample was also reported.

3.6.1 Primary and Secondary Contaminants

F. E. Walter Reservoir drinking water was in compliance with PADEP water quality standards for all the primary and secondary contaminants with the exception of pH and manganese (Table 3-15). The initial and secondary samples for pH measurements were less than the standard range (6.5 to 8.5). The initial was 5.31 and the secondary was 5.4. The initial and secondary samples for manganese measured 0.053 mg/L. The PADEP regulatory level is 0.05 mg/L, therefore the concentration of manganese exceeded the regulatory level by a small amount of 0.003 mg/L. As part of drinking water compliance monitoring, Safe Drinking Water Act (SDWA)

forms 4 for the reporting of results of primary and secondary drinking water contaminants were submitted to appropriate state environmental agencies.

Table 3-15. Concentrations of primary and secondary contaminants in drinking water at F.E. Walter Reservoir in 2001. Shaded values indicate results that exceeded Pennsylvania State drinking water standards; in these instances the result of a second sample is also reported.

Parameter	Sampling Date	PADEP Regulatory Level	Detection Limits	EPA Method
	14 June			
Aluminum	0.05	0.2	0.02	200.7
Antimony	ND	0.006	0.05	200.7
Arsenic	ND	0.05	0.05	200.7
Barium	0.010	2.0	0.005	200.7
Cadmium	ND	0.005	0.005	200.7
Chromium	ND	0.1	0.005	200.7
Copper	0.229	1.3	0.005	200.7
Iron	0.025	0.3	0.005	200.7
Lead	0.001	0.015	0.001	200.8
Magnesium	0.73	NL	0.02	200.7
Manganese	0.053	0.05	0.005	200.7
Mercury	ND	0.002	0.0002	245.1
Nickel	ND	0.1	0.005	200.7
Selenium	ND	0.05	0.05	200.7
Silver	ND	0.1	0.005	200.7
Sodium	0.30	NL	0.02	200.7
Thallium	ND	0.002	0.05	200.7
Zinc	0.015	5.0	0.005	200.7
Chloride	1	250	1	325.3
Cyanide	ND	0.2	0.007	SM 4500CN-C&E
Fluoride	ND	2.0	0.1	SM 4500F-C
Foaming Agents	ND	0.5	0.05	SM 5540C
PH	5.4	6.5-8.5	+/-0.01	150.1
Sulfate	7	250.0	5	375.4
Total Dissolved Solids	ND	500.0	10	SM 2540C

All results, criteria and detection limits are expressed in mg/L except pH which is expressed in positive/negative
 ND – Not Detected
 NL – Not Listed

3.6.2 Inorganic Nitrogen and Coliform Bacteria

F. E. Walter Reservoir drinking water was in compliance with PADEP criteria for inorganic nitrogen contaminants, nitrate and nitrite, and coliform bacteria contaminants (Table 3-16). None of these contaminants were found in the drinking waters samples at F.E. Walter

Reservoir. Following laboratory testing, drinking water monitoring results were recorded on Safe Drinking Water Act (SDWA-S and SDWA-4) forms and submitted to the appropriate state environmental agencies.

Table 3-16. Concentrations of nitrate and nitrite, and results of coliform bacteria monitoring of drinking water sampled from the public water fountain located in the overlook building at F.E. Walter Reservoir during 2001						
Parameter	Sampling Dates			PADEP Regulatory Level	Detection Limits	Method
	14 June		9 August			
Nitrate as N (mg/L)	ND		ND	10.0	0.5	SM4500
Nitrite as N (mg/L)	ND		ND	1.0	0.5	SM4500
E. coli (CFU)	Absence	Absence	Absence	Presence	1	SM 9223
Total Coliform (CFU)	Absence	Absence	Absence	Presence	1	SM 9223

3.6.3 Historical Drinking Water Quality

Drinking water quality has been monitored at Blue Marsh Reservoir over the past 19 years. Versar (1996) compiled the results from all of the previous years into a single database to facilitate water quality comparisons. Historical data from drinking water quality parameters were compared to their respective PADEP standards. Of 26 parameters summarized, 4 had incidences of noncompliance with drinking water standards from 1983 to present (Table 3-17). Cadmium, Copper, pH and corrosivity were most often not in compliance with PADEP criteria. During 2001 monitoring period, manganese and pH were out of compliance.

Table 3-17. Drinking water parameters exceeding PADEP criteria at F.E. Walter Reservoir from 1983 to 2001			
Parameter	Monitoring Date	Result	Criteria
Cadmium (mg/L)	15 June 1987	0.006	0.005
	26 July 1988	0.008	0.005
	4 April 1991	0.007	0.005
	27 July 1994	0.040	0.005
Copper (mg/L)	10 June 1998	2.83	1.3
	20 June 2000	2.03	1.3
Corrosivity	10 June 1998	-1.80	Non-negative
	22 June 1999	NEG	Non-negative
	20 June 2000	-5.3	Non-negative
pH	10 June 1998	5.9	6.5-8.5
	22 June 1999	5.6	6.5-8.5
	20 June 2000	5.5	6.5-8.5
	14 June 2001	5.4	6.5-8.5
Manganese	14 June 2001	0.053	0.05

4.0 SUMMARY

The USACE implements a yearly monitoring program at F. E. Walter Reservoir to evaluate potential public health concerns. In general, the monitoring programs emphasize measuring water quality and sediment contamination. Monitoring results are compared to state and federal criteria to evaluate the condition of F. E. Walter Reservoir. The 2001 monitoring program of F. E. Walter Reservoir comprised three major elements:

- monthly water quality monitoring of nutrient and organic contamination, bacteria levels, and physical/chemical conditions at fixed stations from April through October;
- sediment priority pollutant monitoring for semi volatile organic compounds and metals at one fixed station; and
- drinking water monitoring conducted at the water fountain in the operations building.

4.1 WATER QUALITY MONITORING

Water quality monitoring at F. E. Walter Reservoir generally indicated the presence of acceptable conditions during 2001. In general surface and downstream water quality were in compliance with the PADEP water quality standard, a minimum concentration of 5-mg/L. However, dissolved oxygen (DO) in the lower water column of the deeper portions of the reservoir was below standards at two stations in August. Measures of pH were within the water quality standard range from 6 to 9. F. E. Walter Reservoir contained acceptable levels of nutrients during 2001. Ammonia, nitrate + nitrite, TDS, and alkalinity were in compliance with state water quality standards throughout the reservoir watershed.

4.2 MONITORING PROGRAM TRENDS

Trends computed for individual stations using the Mann-Kendall test indicated significant water quality changes at several locations in the F. E. Walter Reservoir drainage. Ammonia was decreasing in the reservoir watershed in both spring and summer seasons. Station WA-1, -2, and -3 all had decreasing trends for total nitrogen. Trends for fecal coliform were increasing during the summer at upstream stations, WA-4 and WA-5, as well as downstream of the reservoir at station WA-1. Trends for total phosphorus, TDS, BOD, and total coliform were not significant.

4.3 TROPHIC STATE CLASSIFICATION

The trophic condition of F.E. Walter Reservoir was characterized as mesotrophic in 2001. The trophic status was defined independently by Carlson's trophic state indices and EPA

criteria. Both classifications were based on concentrations of chlorophyll *a* and secchi disk depths.

4.4 COLIFORM BACTERIA MONITORING

Coliform bacteria contamination at F. E. Walter Reservoir was generally acceptable during 2001. However, the geometric means during September monitoring was higher than the PADEP water quality standards of 200 colonies/100-ml. Both regression and Mann-Kendall analyses indicated an increasing trend for fecal coliform downstream of the reservoir during summer. The Mann-Kendall also determined an increasing trend upstream on the Lehigh River (WA-4) for fecal coliform during the summer.

4.5 SEDIMENT PRIORITY POLLUTANT MONITORING

F.E. Walter Reservoir was in compliance with NJDEP soil guidelines in 2001. Concentrations of most metals and semivolatile organic compounds were less than screening guidelines. Only beryllium exceeded the NJDEP soil guidelines.

4.6 DRINKING WATER MONITORING

F. E. Walter Reservoir drinking water was in compliance with PADEP drinking water standards for primary and secondary and bacteria with the exception of pH and manganese. Manganese concentration of 0.053 mg/L exceeded the PADEP drinking water standards by 0.003 mg/L. Measures of pH were less than the standard range of 6.5 to 8.5.

5.0 RECOMMENDATIONS

The USACE intends to continue monitoring of the F.E. Walter Reservoir in future years to evaluate trends and to identify potential environmental problems related to human development within the watershed. The USACE is continually seeking to improve the quality and cost-effectiveness of the information gathered as part of this effort. Below, we present three recommendations for improving the monitoring program:

Recommendation 1: Add a monitoring component to assess relative loadings of nutrients, toxic chemicals and sediment from each of the major watersheds draining into the F.E. Walter Reservoir.

The F.E. Walter Reservoir contains several feeder streams, which drain different watersheds. Each of these watersheds has different land use characteristics (e.g., residential, agricultural, forested ecosystems) each of which may contribute a different suite of chemical loadings to the reservoir. Management of water quality problems in the reservoir will require an understanding of the relative loadings of nutrients, toxics, and sediment from each watershed, and in which watersheds these loadings are changing most rapidly. Developing this information could be accomplished by deploying automatic samplers into the major feeder streams to obtain composite samples over randomly selected 24-hour periods, stratified by season, and by conducting special sampling during storm events.

Recommendation 2: Adjust nutrient concentration to account for yearly differences in flow.

The trends presented in this report have not taken into account the effects of flow volume on parameter concentrations. Further analyses using concentrations weighted for stream flow (from USGS gauging stations) would provide a better estimate of trends within the system. These data could be used to calculate total nutrient loadings (kg/day) and could form the basis for creating a nutrient budget for the system. The observed trends should be correlated to management practices in the watershed (e.g., sewage treatment plant construction or upgrades, changes in agricultural activities) to help explain water quality improvements or degradations observed during the monitoring period.

Recommendation 3: Conduct a watershed modeling effort.

A survey of all nutrient and pollutant sources (point source and non-point source) within the F.E. Walter Reservoir watershed could be conducted and presented in a GIS format. Using predicted loadings from the various pollutant sources identified within the watershed, a simple nutrient/DO prediction model could be constructed and verified with the long-term data set. This model could be used to predict the degree of improvement in reservoir water quality that could be obtained through various nutrient control measures such as sewage treatment upgrades and reduced fertilizer application to farmlands.

6.0 REFERENCES

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APPENDIX A
STRATIFICATION MONITORING

Table A-1. Summary of stratification monitoring at F.E. Walters Reservoir in 2001							
Station	Date	Depth (F)	Temp ?C	pH	DO(mg/L)	DO (%)	Cond (mS/Cm)
WA1	24-Apr	0	13.74	7.50	*	*	0.08
	23-May	0	14.65	7.72	9.49	93.42	0.08
	13-Jun	0	18.11	8.22	8.72	92.33	0.08
	18-Jul	0	20.61	6.35	17.29	192.50	0.07
	09-Aug	0	23.72	6.63	8.03	94.92	0.09
	27-Sep	0	15.23	7.04	9.13	91.01	0.09
	23-Oct	0	10.90	7.36	9.14	82.80	0.09
WA2	24-Apr	40	9.56	7.19	*	*	0.08
		35	11.40	7.16	*	*	0.08
		30	13.03	7.17	*	*	0.08
		25	13.27	7.15	*	*	0.08
		20	13.57	7.13	*	*	0.08
		15	14.32	7.14	*	*	0.08
		10	14.87	7.14	*	*	0.08
		5	15.11	7.14	*	*	0.08
	0	15.35	7.11	*	*	0.08	
	23-May	40	14.00	8.20	8.80	85.41	0.08
		35	14.09	7.98	8.70	84.60	0.08
		30	14.19	7.92	8.64	84.20	0.08
		25	14.32	7.88	8.70	85.03	0.08
		20	14.58	7.84	8.59	84.43	0.08
		15	15.92	7.74	8.45	85.48	0.08
		10	16.24	7.72	8.80	89.62	0.08
		5	16.32	7.71	8.77	89.47	0.08
	0	16.33	7.70	8.86	90.41	0.08	
	13-Jun	35	17.16	7.71	7.24	75.17	0.08
		30	17.36	7.62	7.41	77.26	0.08
		25	17.92	7.54	7.37	77.73	0.08
		20	18.21	7.51	7.47	79.26	0.08
		15	19.08	7.41	7.44	80.35	0.08
		10	19.82	7.32	7.97	87.36	0.08
		5	23.43	7.31	8.15	95.81	0.08
		0	23.97	7.32	8.03	95.37	0.08
	18-Jul	30	20.15	6.24	6.70	73.92	0.08
		25	20.66	6.27	6.90	76.90	0.07
		20	21.00	6.33	6.75	75.73	0.07
		15	21.54	6.39	7.39	83.79	0.07
		10	22.01	6.50	7.58	86.73	0.07
		5	23.94	6.65	7.53	89.38	0.07
0		24.44	6.75	9.98	119.57	0.07	

Table A-1. (Continued)							
Station	Date	Depth (F)	Temp ?C	pH	DO(mg/L)	DO (%)	Cond (mS/Cm)
WA2 (Con't)	09-Aug	45	22.87	6.30	3.93	45.72	0.09
		40	22.96	6.21	4.89	56.98	0.09
		35	23.14	6.18	5.03	58.81	0.09
		30	23.56	6.26	5.81	68.47	0.09
		25	24.11	6.44	6.71	79.90	0.08
		20	24.53	6.58	7.35	88.21	0.08
		15	25.24	6.65	7.19	87.43	0.08
		10	25.86	6.73	7.54	92.73	0.08
		5	27.63	6.78	7.06	89.64	0.09
		0	28.11	6.81	7.19	92.07	0.09
	27-Sep	50	14.13	6.85	7.72	75.14	0.09
		45	14.24	6.86	7.59	74.05	0.09
		40	14.41	6.81	7.44	72.86	0.09
		35	14.72	6.78	7.30	71.97	0.09
		30	14.85	6.83	7.06	69.80	0.09
		25	14.88	6.84	7.13	70.54	0.09
		20	15.27	6.84	7.40	73.83	0.09
		15	15.68	6.87	7.37	74.18	0.09
		10	16.18	6.91	7.34	74.66	0.09
		5	16.94	6.93	7.28	75.24	0.09
	23-Oct	0	16.98	6.96	7.82	80.89	0.09
		35	10.36	7.08	8.12	72.60	0.09
		30	10.67	7.01	8.09	72.80	0.09
		25	11.19	6.98	8.00	72.90	0.09
		20	11.30	6.96	8.04	73.50	0.09
		15	11.47	6.96	7.92	72.60	0.09
		10	11.51	6.94	8.06	73.90	0.09
		5	11.63	6.94	8.15	75.00	0.09
WA3	0	11.86	6.96	8.42	77.9	0.09	
	24-Apr	0	13.47	7.56	*	*	0.12
	23-May	0	14.17	8.06	9.95	96.9	0.09
	13-Jun	0	19.17	7.18	9.51	102.9	0.09
	18-Jul	0	19.02	6.78	14.61	157.6	0.09
	09-Aug	0	21.90	7.15	8.32	95.0	0.09
	27-Sep	0	15.09	7.05	9.42	93.6	0.09
	23-Oct	0	12.53	7.26	10.07	94.6	0.09
WA4	24-Apr	0	16.11	7.55	*	*	0.07
	23-May	0	13.52	8.25	10.23	98.2	0.08
	13-Jun	0	19.56	8.20	9.48	103.4	0.07
	18-Jul	0	19.82	7.07	8.79	96.3	0.07
	09-Aug	0	22.80	7.21	8.41	97.7	0.09
	27-Sep	0	11.60	6.92	8.50	78.2	0.10
	23-Oct	0	12.91	7.24	11.04	104.6	0.08

Table A-1. (Continued)							
Station	Date	Depth (F)	Temp ?C	pH	DO(mg/L)	DO (%)	Cond (mS/Cm)
WA5	24-Apr	0	15.00	6.83	*	*	0.09
	23-May	0	13.00	8.24	9.78	92.9	0.14
	13-Jun	0	18.29	8.22	8.34	88.6	0.07
	18-Jul	0	19.29	6.29	7.08	76.8	0.08
	09-Aug	0	23.93	6.49	5.74	68.1	0.12
	27-Sep	0	11.06	6.20	8.57	77.9	0.10
	23-Oct	0	12.50	7.32	8.25	77.5	0.10
WA6	24-Apr	20	14.11	6.61	*	*	0.08
		15	14.78	6.59	*	*	0.08
		10	15.43	6.60	*	*	0.08
		5	15.91	6.61	*	*	0.08
		0	16.82	6.65	*	*	0.08
	23-May	25	14.47	8.39	8.75	85.8	0.08
		20	14.72	7.87	8.76	86.4	0.08
		15	15.27	7.83	8.81	87.9	0.08
		10	15.59	7.78	8.84	88.8	0.08
		5	16.40	7.72	8.81	90.0	0.08
		0	16.45	7.70	9.45	96.7	0.08
	13-Jun	25	18.08	7.70	7.70	81.5	0.07
		20	18.43	7.64	7.73	82.4	0.07
		15	19.21	7.57	7.83	84.8	0.07
		10	20.17	7.51	8.05	88.9	0.07
		5	21.36	7.40	8.27	93.4	0.08
		0	22.96	7.40	8.27	96.4	0.08
	18-Jul	20	21.31	6.47	8.49	95.8	0.07
		15	21.51	6.55	8.39	95.1	0.07
		10	22.06	6.64	7.95	91.0	0.07
		5	23.49	6.74	8.06	94.9	0.07
		0	24.02	6.79	7.76	92.2	0.07
	09-Aug	20	24.34	6.59	6.32	75.6	0.09
		15	25.29	6.67	6.64	80.8	0.09
		10	26.21	6.56	6.67	82.6	0.09
		5	27.61	6.76	6.57	83.4	0.09
		0	28.21	6.85	6.78	87.0	0.09
	27-Sep	25	15.37	6.75	7.74	77.4	0.09
		20	15.77	6.79	7.49	75.5	0.09
		15	16.21	6.83	7.20	73.3	0.09
10		16.64	6.86	7.25	74.5	0.09	
5		17.12	6.94	7.48	77.6	0.09	
0		17.10	6.98	8.07	83.7	0.09	

Table A-1. (Continued)							
Station	Date	Depth (F)	Temp ?C	pH	DO(mg/L)	DO (%)	Cond (mS/Cm)
WA6 (Con't)	23-Oct	20	12.02	7.28	8.36	77.6	0.09
		15	12.11	7.26	8.49	79.0	0.09
		10	12.09	7.12	8.48	78.9	0.09
		5	12.10	7.18	8.56	79.7	0.09
		0	12.11	7.18	8.79	81.8	0.09
WA7	24-Apr	20	15.14	6.75	*	*	0.08
		15	15.58	6.76	*	*	0.08
		10	15.70	6.76	*	*	0.08
		5	15.80	6.76	*	*	0.08
		0	15.79	6.78	*	*	0.08
	23-May	20	14.50	8.34	9.11	89.4	0.08
		15	15.12	7.95	8.85	88.0	0.08
		10	15.88	7.89	8.70	87.9	0.08
		5	16.39	7.83	8.70	88.9	0.08
		0	16.41	7.83	8.90	91.0	0.08
	13-Jun	25	17.55	7.71	6.74	70.5	0.08
		20	18.40	7.64	6.96	74.1	0.08
		15	19.00	7.57	7.26	78.3	0.08
		10	19.77	7.52	7.20	78.8	0.08
		5	21.78	7.46	7.92	90.2	0.08
		0	23.19	7.43	7.73	90.5	0.08
	18-Jul	22	20.26	6.80	8.89	98.3	0.08
		20	20.75	6.61	7.55	84.3	0.07
		15	21.31	6.56	7.69	86.8	0.07
		10	21.82	6.70	7.95	90.6	0.07
		5	22.68	6.91	8.37	97.0	0.07
		0	23.95	6.89	8.10	96.2	0.07
	09-Aug	25	23.63	6.28	3.40	40.1	0.09
		20	24.20	6.41	5.84	69.7	0.09
		15	25.41	6.59	6.51	79.4	0.09
		10	26.90	6.72	7.15	89.6	0.09
5		27.78	6.91	7.24	92.2	0.09	
0		28.33	6.94	7.26	93.3	0.09	
27-Sep	25	13.45	6.97	8.13	78.0	0.09	
	20	14.10	6.99	7.75	75.4	0.09	
	15	16.14	7.00	7.49	76.1	0.09	
	10	16.86	6.98	7.45	76.9	0.09	
	5	16.93	6.99	7.41	76.6	0.09	
	0	16.93	7.02	7.93	81.9	0.09	

Table A-1. (Continued)								
Station	Date	Depth (F)	Temp ?C	pH	DO(mg/L)	DO (%)	Cond (mS/Cm)	
WA7 (Con't)	23-Oct	21	10.63		7.15	8.25	74.2	0.09
		15	11.63		7.12	8.35	76.8	0.09
		10	11.90		7.14	8.30	76.9	0.09
		5	11.94		7.12	8.42	78.0	0.09
		0	12.20		7.16	8.69	81.0	0.09
* Dissolved Oxygen was not sampled in April due to a probe malfunction								

APPENDIX B

**WATER COLUMN CHEMISTRY MONITORING
LABORATORY ANALYSIS CERTIFICATES**

APPENDIX C**SEDIMENT PRIORITY POLLUTANT AND
ARSENIC MONITORING
LABORATORY ANALYSIS CERTIFICATES**

APPENDIX D

**DRINKING WATER MONITORING
LABORATORY ANALYSIS CERTIFICATES**

APPENDIX E
SCOPE OF WORK

Date	Time	Wind Speed mph	Wind Dir Degree	RH %	AirTemp C	Solar Rad W/m^2
24-May	9:30	3.10	138.5	78.53	15.71	331.1
24-May	10:00	2.02	104.8	71.60	17.24	863.9
24-May	10:30	2.12	89.5	69.68	17.56	907.3
24-May	11:00	0.00	0.0	56.15	20.67	281.8
24-May	11:30	1.23	20.3	65.22	19.15	888.7
24-May	12:00	2.25	105.5	57.37	20.28	1107.8
24-May	12:30	3.52	181.8	52.35	21.53	1105.0
24-May	13:00	2.78	132.6	51.62	20.96	758.4
24-May	13:30	4.50	178.9	44.75	22.00	1140.5
24-May	14:00	3.54	135.7	41.18	22.42	1046.5
24-May	14:30	4.97	121.7	39.91	21.81	285.9
24-May	15:00	4.92	184.4	33.10	23.61	1015.1
24-May	15:30	6.32	106.9	38.27	22.77	843.4
24-May	16:00	4.68	44.8	36.00	23.07	771.2
24-May	16:30	1.28	88.7	35.69	23.32	583.3
24-May	17:00	3.56	115.5	36.91	22.73	221.9
24-May	17:30	4.84	72.3	46.28	22.64	146.1
24-May	18:00	4.63	63.5	49.53	22.29	176.2
24-May	18:30	5.26	72.2	48.62	22.32	205.7
24-May	19:00	4.10	42.8	53.32	21.56	79.6
24-May	19:30	5.23	35.9	54.37	21.15	48.1
24-May	20:00	3.90	44.3	58.76	20.59	26.0
24-May	20:30	4.82	49.9	59.11	19.86	1.3
24-May	21:00	4.70	40.4	62.85	19.21	-0.1
24-May	21:30	6.09	48.4	69.41	18.71	-0.1
24-May	22:00	7.15	42.4	77.53	17.69	-0.1
24-May	22:30	9.60	39.8	81.65	17.37	-0.1
24-May	23:00	7.94	54.6	81.41	17.18	-0.1
24-May	23:30	7.17	49.2	82.04	17.04	-0.2
25-May	0:00	6.14	54.7	80.68	16.64	-0.1
25-May	0:30	6.70	52.8	81.95	16.23	-0.2
25-May	1:00	6.06	39.5	82.57	16.08	-0.1
25-May	1:30	3.49	67.8	83.24	15.81	-0.2
25-May	2:00	4.75	46.9	80.74	15.78	-0.2
25-May	2:30	6.30	32.6	82.67	15.59	-0.1
25-May	3:00	6.96	48.1	83.51	15.46	-0.1
25-May	3:30	7.66	39.4	83.71	15.42	-0.1
25-May	4:00	7.13	34.9	84.50	15.03	-0.1
25-May	4:30	7.24	60.0	83.61	14.58	-0.1
25-May	5:00	5.58	54.0	87.14	14.40	-0.2
25-May	5:30	7.08	51.3	87.71	14.10	0.7
25-May	6:00	7.55	40.1	86.15	14.00	14.6
25-May	6:30	11.33	40.2	86.77	14.14	25.9
25-May	7:00	7.04	41.1	87.78	13.96	25.5
25-May	7:30	8.41	38.3	90.26	13.84	56.6
25-May	8:00	9.54	26.8	95.08	13.57	78.4
25-May	8:30	10.17	37.9	92.41	13.67	115.2
25-May	9:00	10.21	44.1	93.41	13.53	86.7

25-May 9:30	9.08	43.3	91.73	13.59	128.6
25-May 10:00	7.81	29.1	92.41	13.76	147.4
25-May 10:30	11.13	39.3	90.61	13.82	279.5
25-May 11:00	10.08	45.4	89.56	14.16	310.1
25-May 11:30	8.59	48.2	86.73	14.61	471.4
25-May 12:00	10.46	27.2	84.49	15.03	502.1
25-May 12:30	10.62	36.7	87.61	14.48	323.6
25-May 13:00	12.37	29.4	85.83	14.81	366.2
25-May 13:30	10.70	35.5	86.26	14.96	145.2
25-May 14:00	9.00	32.9	85.09	15.30	221.9
25-May 14:30	10.46	37.7	85.24	15.09	160.9
25-May 15:00	10.14	31.5	86.22	14.94	139.1
25-May 15:30	10.05	36.1	87.73	14.88	129.8
25-May 16:00	10.84	38.9	87.43	15.12	158.1
25-May 16:30	7.71	48.5	87.16	15.13	72.5
25-May 17:00	9.83	49.9	86.60	15.11	78.0
25-May 17:30	8.04	46.2	89.05	14.93	66.4
25-May 18:00	4.97	57.8	89.60	14.77	33.1
25-May 18:30	3.23	58.3	91.96	14.34	19.2
25-May 19:00	5.24	46.2	94.40	14.15	17.3
25-May 19:30	6.26	44.0	96.68	13.79	13.5
25-May 20:00	4.60	51.0	98.58	13.58	3.1
25-May 20:30	6.71	43.3	98.74	13.49	0.2
25-May 21:00	10.33	36.4	98.59	13.51	-0.2
25-May 21:30	7.90	39.7	98.74	13.43	-0.1
25-May 22:00	8.28	27.9	100.40	13.39	-0.2
25-May 22:30	8.52	33.2	101.02	13.47	-0.2
25-May 23:00	4.44	40.5	99.08	13.74	-0.1
25-May 23:30	7.09	33.4	100.54	13.67	-0.1
26-May 0:00	5.37	42.8	98.45	13.76	-0.2
26-May 0:30	4.15	69.0	98.70	13.64	-0.2
26-May 1:00	3.46	53.0	100.59	13.46	-0.1
26-May 1:30	6.20	89.1	102.39	13.00	-0.1
26-May 2:00	4.94	44.5	105.49	12.90	-0.2
26-May 2:30	5.03	39.6	106.61	12.95	-0.2
26-May 3:00	5.52	28.6	106.76	12.96	-0.2
26-May 3:30	3.44	23.1	107.14	13.10	-0.1
26-May 4:00	6.70	27.2	106.59	13.17	-0.2
26-May 4:30	6.26	38.4	106.07	13.05	-0.2
26-May 5:00	7.74	39.8	106.30	13.12	-0.1
26-May 5:30	5.26	48.4	106.28	13.14	0.2
26-May 6:00	5.76	38.7	106.53	13.18	2.3
26-May 6:30	3.70	98.9	104.17	13.17	2.3
26-May 7:00	5.62	359.9	106.19	13.10	5.4
26-May 7:30	5.36	29.6	107.07	13.09	3.2
26-May 8:00	4.14	48.9	106.67	13.11	10.5
26-May 8:30	7.19	49.7	105.38	13.05	44.8
26-May 9:00	5.64	20.3	105.67	13.08	115.7
26-May 9:30	9.99	34.4	103.78	13.32	162.7
26-May 10:00	6.25	25.6	104.33	13.56	78.2

26-May 10:30	2.30	42.5	104.24	13.78	41.0
26-May 11:00	4.06	71.8	102.47	14.02	90.7
26-May 11:30	0.00	0.0	103.65	13.96	50.2
26-May 12:00	2.13	98.4	102.62	14.23	176.5
26-May 12:30	4.24	4.7	103.46	14.34	131.9
26-May 13:00	4.59	40.3	101.88	14.60	182.8
26-May 13:30	7.66	36.6	101.60	14.87	110.5
26-May 14:00	8.47	73.7	93.18	15.18	172.3
26-May 14:30	2.72	32.8	99.81	15.00	136.8
26-May 15:00	4.72	39.3	95.50	15.49	241.1
26-May 15:30	8.82	34.1	94.07	15.44	94.2
26-May 16:00	4.31	65.7	93.63	15.52	199.5
26-May 16:30	4.81	99.7	95.39	15.54	94.3
26-May 17:00	6.44	49.0	91.22	15.42	72.2
26-May 17:30	1.89	145.9	98.18	15.04	56.3
26-May 18:00	4.02	44.4	96.85	14.94	36.2
26-May 18:30	7.00	40.3	100.70	14.80	21.3
26-May 19:00	3.21	88.2	93.98	15.00	15.4
26-May 19:30	2.63	39.5	101.50	14.33	16.2
26-May 20:00	7.24	45.6	95.11	14.80	4.9
26-May 20:30	5.63	43.6	96.30	14.80	0.5
26-May 21:00	0.78	71.1	99.47	14.40	-0.2
26-May 21:30	6.95	39.5	95.00	14.80	-0.2
26-May 22:00	6.66	349.3	102.84	14.18	-0.2
26-May 22:30	4.71	38.2	102.50	14.18	-0.1
26-May 23:00	5.83	50.1	100.47	14.19	-0.1
26-May 23:30	4.17	35.5	104.06	13.98	-0.1
27-May 0:00	4.31	346.9	105.16	13.86	-0.1
27-May 0:30	5.41	356.5	104.13	13.92	-0.1
27-May 1:00	4.11	45.0	106.93	13.86	-0.2
27-May 1:30	3.47	74.7	107.33	13.68	-0.1
27-May 2:00	4.22	29.2	107.85	13.78	-0.2
27-May 2:30	3.08	40.4	107.70	13.61	-0.2
27-May 3:00	4.20	20.6	107.68	13.69	-0.1
27-May 3:30	7.07	15.3	107.12	13.48	-0.2
27-May 4:00	3.12	56.0	106.87	13.60	-0.1
27-May 4:30	4.01	58.6	106.86	13.52	-0.1
27-May 5:00	0.44	18.0	107.00	13.42	-0.1
27-May 5:30	4.45	22.9	106.86	13.40	0.1
27-May 6:00	5.84	24.8	106.07	13.39	1.1
27-May 6:30	4.54	19.5	107.75	13.35	14.7
27-May 7:00	4.34	28.5	106.95	13.41	90.4
27-May 7:30	4.74	46.0	103.65	13.76	143.3
27-May 8:00	4.80	17.6	98.80	14.56	430.3
27-May 8:30	3.24	72.2	96.89	14.72	391.5
27-May 9:00	2.93	24.5	96.40	14.88	305.1
27-May 9:30	2.85	13.8	93.43	15.39	370.4
27-May 10:00	4.11	23.5	88.88	15.88	335.6
27-May 10:30	3.01	40.9	86.91	16.44	397.7
27-May 11:00	3.84	37.9	84.86	16.82	330.1

27-May 11:30	0.47	51.8	84.38	16.84	187.7
27-May 12:00	2.70	59.7	83.63	16.99	144.8
27-May 12:30	4.56	106.3	79.99	16.98	510.4
27-May 13:00	4.02	54.8	83.92	16.94	143.1
27-May 13:30	4.20	55.6	85.52	16.84	157.1
27-May 14:00	6.13	76.5	85.20	17.04	167.6
27-May 14:30	4.72	26.0	83.21	17.42	277.5
27-May 15:00	4.00	63.5	83.35	17.47	221.4
27-May 15:30	3.37	52.1	82.96	17.58	29.3
27-May 16:00	4.68	32.0	81.63	18.45	686.8
27-May 16:30	6.58	59.8	76.00	18.70	334.4
27-May 17:00	6.09	39.6	78.20	18.75	133.9
27-May 17:30	5.65	60.9	83.22	18.26	7.4
27-May 18:00	6.61	218.1	103.11	16.02	23.7
27-May 18:30	3.54	218.3	102.32	15.39	153.3
27-May 19:00	1.10	135.8	102.40	15.85	195.6
27-May 19:30	0.00	0.0	97.81	16.12	102.5
27-May 20:00	0.00	0.0	98.76	15.75	40.7
27-May 20:30	0.00	0.0	103.94	14.68	3.9
27-May 21:00	2.59	28.3	106.68	14.47	-0.1
27-May 21:30	3.85	331.7	108.18	14.04	-0.1
27-May 22:00	3.04	24.4	108.49	13.83	-0.1
27-May 22:30	3.62	334.3	108.61	13.68	-0.1
27-May 23:00	1.77	49.6	108.70	13.26	-0.1
27-May 23:30	3.43	23.7	108.79	12.97	-0.1
28-May 0:00	7.21	18.3	108.78	12.54	-0.2
28-May 0:30	4.36	33.6	108.82	12.57	-0.1
28-May 1:00	5.37	22.8	108.82	12.70	-0.1
28-May 1:30	4.01	331.8	108.69	12.47	-0.1
28-May 2:00	3.53	41.7	108.47	12.98	-0.1
28-May 2:30	5.75	19.6	107.42	13.11	-0.2
28-May 3:00	4.46	357.2	106.23	12.98	-0.1
28-May 3:30	4.17	53.3	105.62	13.35	-0.1
28-May 4:00	4.41	295.8	106.02	13.81	-0.1
28-May 4:30	1.44	192.4	108.33	13.23	-0.1
28-May 5:00	3.25	97.8	108.43	13.42	-0.1
28-May 5:30	0.78	120.5	108.22	13.64	0.5
28-May 6:00	0.78	224.8	108.22	13.25	10.1
28-May 6:30	2.84	128.7	108.24	13.53	39.7
28-May 7:00	2.18	180.9	108.04	13.59	82.8
28-May 7:30	2.37	218.8	108.17	13.77	103.2
28-May 8:00	7.55	200.1	106.65	13.63	116.1
28-May 8:30	4.19	187.5	102.52	14.16	172.4
28-May 9:00	6.45	163.8	88.76	15.56	765.8
28-May 9:30	5.40	176.5	79.70	16.17	696.4
28-May 10:00	7.53	171.5	76.41	16.46	295.3
28-May 10:30	8.48	202.7	66.74	17.22	385.6
28-May 11:00	2.48	201.6	62.99	17.84	1139.3
28-May 11:30	11.08	205.5	62.54	17.25	275.6
28-May 12:00	4.33	223.9	58.80	18.47	1037.0

28-May 12:30	4.37	177.2	56.61	17.91	219.3
28-May 13:00	14.83	210.9	48.58	18.40	939.4
28-May 13:30	13.49	235.3	47.30	18.96	389.0
28-May 14:00	6.60	249.7	46.94	19.39	656.2
28-May 14:30	6.97	237.0	48.22	20.16	403.9
28-May 15:00	10.79	216.3	49.23	19.07	275.5
28-May 15:30	9.60	210.8	50.29	18.96	230.7
28-May 16:00	9.62	221.0	47.55	19.97	932.5
28-May 16:30	6.12	201.0	47.27	19.28	521.4
28-May 17:00	7.27	195.0	46.36	19.78	636.9
28-May 17:30	7.43	244.5	47.88	19.28	453.4
28-May 18:00	8.41	238.6	50.84	18.80	224.6
28-May 18:30	7.94	220.1	52.71	18.50	99.5
28-May 19:00	5.98	216.0	54.89	18.51	212.9
28-May 19:30	7.41	241.9	53.59	18.14	111.3
28-May 20:00	5.49	220.7	58.08	17.05	17.2
28-May 20:30	4.53	214.1	60.69	16.34	2.8
28-May 21:00	2.59	209.6	65.22	15.67	-0.1
28-May 21:30	0.00	0.0	69.79	14.91	-0.1
28-May 22:00	3.09	184.4	79.88	13.42	-0.1
28-May 22:30	3.89	187.5	74.64	13.99	-0.2
28-May 23:00	0.00	0.0	85.41	13.34	-0.1
28-May 23:30	2.11	318.1	91.57	12.27	-0.1
29-May 0:00	0.74	338.8	93.96	11.73	-0.2
29-May 0:30	0.12	178.3	91.42	11.52	-0.1
29-May 1:00	0.07	244.9	92.20	11.03	-0.1
29-May 1:30	0.00	0.0	94.66	10.94	-0.2
29-May 2:00	0.00	0.0	100.17	10.06	-0.2
29-May 2:30	1.24	273.3	101.13	9.95	-0.2
29-May 3:00	2.41	255.2	102.16	9.43	-0.2
29-May 3:30	2.50	244.8	104.26	8.49	-0.2
29-May 4:00	0.00	0.0	103.68	9.27	-0.2
29-May 4:30	1.72	204.6	106.21	8.00	-0.2
29-May 5:00	0.00	0.0	106.28	8.95	-0.2
29-May 5:30	0.62	175.3	101.63	9.34	2.3
29-May 6:00	0.00	0.0	103.64	9.48	25.9
29-May 6:30	2.31	331.3	95.58	10.48	105.4
29-May 7:00	0.00	0.0	92.59	11.49	194.1
29-May 7:30	3.13	209.7	95.37	11.03	282.5
29-May 8:00	2.23	221.3	87.19	13.07	369.9
29-May 8:30	1.88	162.6	80.51	15.28	481.2
29-May 9:00	4.45	160.3	73.10	16.47	578.9
29-May 9:30	4.11	194.4	68.81	17.70	680.8
29-May 10:00	4.48	195.1	67.17	18.25	755.6
29-May 10:30	5.30	192.0	59.84	19.71	914.1
29-May 11:00	4.55	273.9	52.33	20.62	455.0
29-May 11:30	5.75	237.4	50.84	20.24	381.2
29-May 12:00	3.94	224.6	51.06	20.36	381.3
29-May 12:30	6.35	236.2	57.93	19.32	257.3
29-May 13:00	2.06	128.2	52.21	20.78	509.8

29-May 13:30	8.63	259.8	52.65	20.44	467.5
29-May 14:00	6.23	214.3	48.81	20.52	592.4
29-May 14:30	2.72	248.5	49.43	20.47	406.6
29-May 15:00	4.33	155.3	49.91	20.90	1172.9
29-May 15:30	7.89	181.4	51.03	21.12	923.9
29-May 16:00	4.13	236.5	46.76	22.31	1016.2
29-May 16:30	13.21	261.8	50.41	18.79	75.9
29-May 17:00	1.92	113.4	79.93	15.25	119.7
29-May 17:30	4.04	197.9	64.97	17.91	573.0
29-May 18:00	4.99	165.9	59.63	19.16	510.7
29-May 18:30	9.09	238.0	63.98	18.57	74.7
29-May 19:00	3.05	243.5	58.94	18.53	61.3
29-May 19:30	3.56	295.0	56.59	19.21	121.8
29-May 20:00	1.86	281.1	61.74	17.97	7.2
29-May 20:30	3.42	281.9	70.08	16.80	0.4
29-May 21:00	0.00	0.0	93.59	14.96	0.0
29-May 21:30	1.82	154.5	105.25	13.67	-0.1
29-May 22:00	1.09	169.1	102.84	13.83	-0.1
29-May 22:30	0.00	0.0	103.08	13.58	-0.2
29-May 23:00	4.79	336.6	82.95	14.51	-0.1
29-May 23:30	6.51	345.5	76.93	14.53	-0.2
30-May 0:00	6.46	8.8	76.62	13.64	-0.2
30-May 0:30	5.11	325.2	72.59	12.97	-0.1
30-May 1:00	4.24	30.7	69.83	12.92	-0.1
30-May 1:30	5.19	4.6	70.46	12.59	-0.1
30-May 2:00	1.83	323.7	71.72	12.17	-0.1
30-May 2:30	2.76	198.4	83.10	11.18	-0.1
30-May 3:00	2.05	260.9	84.40	10.90	-0.1
30-May 3:30	5.52	23.5	66.05	11.47	-0.1
30-May 4:00	1.24	250.6	90.63	9.11	-0.1
30-May 4:30	3.29	282.8	90.06	8.15	-0.2
30-May 5:00	1.90	255.9	91.83	7.61	-0.1
30-May 5:30	2.12	208.4	90.37	7.44	2.3
30-May 6:00	2.76	265.4	91.90	7.25	31.4
30-May 6:30	0.00	0.0	89.81	7.82	51.0
30-May 7:00	1.40	154.7	94.21	8.04	45.5
30-May 7:30	6.07	152.3	86.93	8.98	277.1
30-May 8:00	7.05	245.6	70.31	11.45	408.4
30-May 8:30	2.94	265.9	61.33	11.95	416.9
30-May 9:00	7.18	256.1	55.69	11.66	646.0
30-May 9:30	3.94	267.1	51.68	12.78	473.6
30-May 10:00	7.39	254.8	45.63	13.46	846.5
30-May 10:30	12.05	262.6	45.97	13.58	967.8
30-May 11:00	10.46	290.1	42.85	14.42	1019.9
30-May 11:30	6.31	258.2	36.52	15.41	1149.2
30-May 12:00	14.31	253.8	36.08	14.83	541.0
30-May 12:30	10.79	269.2	34.08	15.07	1364.0
30-May 13:00	10.25	259.4	29.48	15.96	1184.3
30-May 13:30	16.08	221.8	30.28	15.92	1207.2
30-May 14:00	8.12	270.8	27.92	16.15	1197.5

30-May 14:30	9.93	264.8	27.09	16.95	1159.5
30-May 15:00	13.66	243.7	26.57	16.65	506.4
30-May 15:30	7.56	235.8	26.30	17.54	1106.5
30-May 16:00	13.80	244.9	25.82	17.99	944.1
30-May 16:30	13.10	253.5	25.62	17.82	852.4
30-May 17:00	13.98	231.8	24.72	18.84	805.5
30-May 17:30	9.08	242.1	22.80	18.22	606.8
30-May 18:00	6.96	264.9	21.73	18.34	458.0
30-May 18:30	12.21	277.1	21.51	17.82	213.3
30-May 19:00	9.65	269.2	22.29	17.44	236.5
30-May 19:30	7.59	273.2	24.42	16.95	140.4
30-May 20:00	11.69	284.7	27.19	16.06	45.3
30-May 20:30	10.05	272.3	30.05	14.84	4.2
30-May 21:00	5.18	265.5	31.50	14.08	-0.1
30-May 21:30	3.41	303.0	33.19	13.32	-0.1
30-May 22:00	2.54	265.1	34.68	12.81	-0.1
30-May 22:30	4.80	254.7	34.46	12.56	-0.1
30-May 23:00	5.46	248.4	36.74	11.87	-0.1
30-May 23:30	3.63	193.1	39.22	11.54	-0.1
31-May 0:00	1.90	242.7	41.15	11.35	-0.1
31-May 0:30	4.00	189.6	42.98	10.81	-0.2
31-May 1:00	3.79	225.6	44.72	10.63	-0.1
31-May 1:30	2.21	273.1	46.96	10.18	-0.1
31-May 2:00	2.29	258.9	56.36	8.65	-0.1
31-May 2:30	2.10	228.9	62.06	7.48	-0.2
31-May 3:00	3.71	220.8	65.03	6.94	-0.2
31-May 3:30	0.00	0.0	70.65	6.20	-0.2
31-May 4:00	0.42	302.6	70.05	6.19	-0.2
31-May 4:30	0.00	0.0	76.69	5.06	-0.2
31-May 5:00	1.93	176.7	85.79	4.24	-0.2
31-May 5:30	1.49	304.1	84.16	4.24	5.3
31-May 6:00	0.00	0.0	81.27	4.65	24.3
31-May 6:30	0.83	301.3	90.01	4.13	58.8
31-May 7:00	1.94	177.1	73.68	5.84	112.2
31-May 7:30	3.66	178.3	73.78	6.66	185.7
31-May 8:00	3.61	162.2	68.74	8.21	274.6
31-May 8:30	6.53	229.0	60.23	9.65	394.0
31-May 9:00	11.26	275.2	51.53	10.74	542.0
31-May 9:30	10.82	286.9	46.81	11.58	672.9
31-May 10:00	5.96	292.7	44.92	12.11	785.5
31-May 10:30	10.89	273.2	42.46	12.84	844.7
31-May 11:00	10.84	281.5	37.84	13.35	929.1
31-May 11:30	6.10	308.0	38.22	14.14	987.0
31-May 12:00	6.79	250.6	36.48	14.99	1021.3
31-May 12:30	2.67	260.7	32.82	16.31	1063.5
31-May 13:00	7.16	233.8	33.79	16.20	1073.5
31-May 13:30	5.68	279.6	29.53	17.64	1078.3
31-May 14:00	1.85	247.2	28.70	17.60	1056.8
31-May 14:30	7.20	314.8	28.31	18.37	1026.0
31-May 15:00	12.39	236.5	30.67	19.03	976.6

31-May 15:30	10.25	270.5	24.33	19.92	913.2
31-May 16:00	12.11	285.1	24.70	19.78	827.7
31-May 16:30	6.24	227.5	27.32	20.42	764.8
31-May 17:00	11.77	242.6	27.41	20.59	626.0
31-May 17:30	8.37	306.4	26.16	20.80	572.9
31-May 18:00	10.80	320.1	26.38	19.73	448.7
31-May 18:30	8.66	317.5	27.11	19.87	264.6
31-May 19:00	8.54	311.4	27.53	19.45	214.2
31-May 19:30	5.13	318.6	31.83	18.64	74.0
31-May 20:00	4.56	327.8	34.68	17.45	34.2
31-May 20:30	1.57	332.4	57.37	15.84	2.3
31-May 21:00	1.43	111.8	54.87	13.99	-0.1
31-May 21:30	2.93	45.2	57.46	13.33	-0.1
31-May 22:00	0.00	0.0	62.30	12.45	-0.1
31-May 22:30	1.59	342.8	64.19	11.64	-0.1
31-May 23:00	0.00	0.0	65.88	11.45	-0.1
31-May 23:30	2.25	204.4	71.49	9.36	-0.1
1-Jun 0:00	2.75	348.6	78.95	9.61	-0.1
1-Jun 0:30	1.88	144.7	75.68	9.57	-0.1
1-Jun 1:00	1.61	62.8	72.30	9.30	-0.1
1-Jun 1:30	1.61	195.0	72.84	8.70	-0.1
1-Jun 2:00	0.00	0.0	78.49	7.92	-0.1
1-Jun 2:30	0.86	331.7	85.42	7.17	-0.2
1-Jun 3:00	1.39	25.3	85.10	6.75	-0.2
1-Jun 3:30	3.09	26.7	91.53	7.31	-0.2
1-Jun 4:00	1.32	347.1	89.11	6.53	-0.2
1-Jun 4:30	1.75	280.9	83.67	6.28	-0.2
1-Jun 5:00	0.86	284.7	91.05	4.59	-0.1
1-Jun 5:30	3.24	330.4	95.67	5.05	1.3
1-Jun 6:00	3.51	356.4	91.56	5.32	15.8
1-Jun 6:30	3.33	34.8	92.28	5.58	107.8
1-Jun 7:00	4.60	38.9	86.23	6.59	215.1
1-Jun 7:30	6.52	38.2	74.33	7.50	213.8
1-Jun 8:00	5.79	41.4	76.69	8.23	314.9
1-Jun 8:30	5.92	30.5	65.16	9.51	421.6
1-Jun 9:00	6.50	40.1	57.81	11.14	489.1
1-Jun 9:30	5.60	31.9	54.92	12.66	665.5
1-Jun 10:00	3.70	53.4	49.09	14.20	619.4
1-Jun 10:30	5.77	25.1	40.77	15.86	488.1
1-Jun 11:00	6.88	72.8	38.75	16.19	446.2
1-Jun 11:30	4.72	58.0	43.01	16.33	368.1
1-Jun 12:00	3.88	72.1	43.44	16.80	336.2
1-Jun 12:30	2.37	112.1	44.42	17.18	250.5
1-Jun 13:00	4.00	100.7	47.50	17.06	159.0
1-Jun 13:30	3.30	97.7	59.35	15.78	147.9
1-Jun 14:00	3.17	146.9	76.79	14.28	73.5
1-Jun 14:30	1.94	50.8	80.01	13.29	56.3
1-Jun 15:00	1.72	46.0	83.84	13.11	57.4
1-Jun 15:30	2.62	44.9	85.02	12.98	105.2
1-Jun 16:00	3.52	41.9	83.36	13.04	77.2

1-Jun 16:30	5.13	46.1	84.15	13.16	72.8
1-Jun 17:00	5.27	48.2	85.36	13.22	48.7
1-Jun 17:30	4.00	39.1	88.93	12.78	18.5
1-Jun 18:00	5.08	55.5	94.64	12.62	23.7
1-Jun 18:30	6.62	40.2	99.10	12.40	7.8
1-Jun 19:00	5.95	26.2	101.51	12.42	3.7
1-Jun 19:30	8.57	46.3	99.56	12.65	1.1
1-Jun 20:00	2.25	98.4	105.37	11.67	1.1
1-Jun 20:30	5.78	41.4	103.31	10.64	0.0
1-Jun 21:00	4.61	47.8	106.56	10.59	-0.1
1-Jun 21:30	6.12	47.2	106.54	10.62	-0.2
1-Jun 22:00	9.58	32.0	106.61	10.74	-0.2
1-Jun 22:30	6.37	30.8	107.48	10.39	-0.1
1-Jun 23:00	7.32	15.2	107.59	10.58	-0.1
1-Jun 23:30	7.00	28.3	108.04	10.75	-0.1
2-Jun 0:00	11.74	27.6	107.98	10.86	-0.1
2-Jun 0:30	5.35	45.7	108.03	10.80	-0.1
2-Jun 1:00	7.15	31.9	108.12	11.25	-0.1
2-Jun 1:30	4.14	37.2	108.42	11.12	-0.1
2-Jun 2:00	6.39	41.3	108.11	11.40	-0.1
2-Jun 2:30	3.25	45.2	108.49	11.38	-0.1
2-Jun 3:00	6.23	39.4	108.33	11.56	-0.1
2-Jun 3:30	5.92	17.8	108.41	11.65	-0.1
2-Jun 4:00	3.72	8.4	108.56	11.96	-0.1
2-Jun 4:30	4.57	15.9	108.60	11.88	-0.2
2-Jun 5:00	2.52	40.2	108.64	12.08	-0.2
2-Jun 5:30	1.32	316.9	108.64	11.99	0.2
2-Jun 6:00	2.92	180.6	108.76	11.81	7.2
2-Jun 6:30	1.13	188.4	108.82	11.82	23.2
2-Jun 7:00	1.73	217.7	108.87	11.82	18.5
2-Jun 7:30	1.92	265.1	108.91	12.05	76.8
2-Jun 8:00	0.00	0.0	108.88	12.34	61.1
2-Jun 8:30	2.85	237.6	108.79	12.40	87.1
2-Jun 9:00	2.73	152.6	108.43	12.96	212.1
2-Jun 9:30	2.67	234.8	107.79	13.75	231.7
2-Jun 10:00	0.17	70.1	106.30	14.88	352.4
2-Jun 10:30	0.91	87.4	101.44	15.97	808.4
2-Jun 11:00	4.34	39.3	97.21	17.03	353.6
2-Jun 11:30	1.76	53.8	88.78	18.19	929.0
2-Jun 12:00	4.27	193.1	79.99	19.38	502.9
2-Jun 12:30	2.65	252.2	75.24	19.82	626.3
2-Jun 13:00	8.01	244.1	61.30	20.48	813.5
2-Jun 13:30	3.95	245.4	63.27	20.01	258.7
2-Jun 14:00	2.33	340.6	57.81	20.73	568.3
2-Jun 14:30	2.49	128.2	58.12	21.23	482.7
2-Jun 15:00	1.87	201.0	57.22	21.64	1008.9
2-Jun 15:30	0.00	0.0	56.28	22.16	658.0
2-Jun 16:00	2.26	141.8	59.79	21.57	289.1
2-Jun 16:30	0.94	65.1	58.08	22.33	807.0
2-Jun 17:00	3.00	245.7	63.07	21.23	284.1

2-Jun 17:30	0.00	0.0	58.64	22.06	514.2
2-Jun 18:00	4.77	210.0	62.78	21.60	169.1
2-Jun 18:30	3.03	160.6	61.68	21.85	386.9
2-Jun 19:00	3.62	178.6	64.37	20.68	44.5
2-Jun 19:30	2.14	135.2	71.84	19.51	25.5
2-Jun 20:00	1.78	145.6	73.82	19.08	9.5
2-Jun 20:30	2.79	167.7	83.38	18.04	1.2
2-Jun 21:00	1.35	50.8	86.22	17.60	0.0
2-Jun 21:30	0.00	0.0	89.60	17.20	-0.2
2-Jun 22:00	2.29	345.6	94.37	16.55	-0.1
2-Jun 22:30	2.61	64.4	94.01	16.03	-0.1
2-Jun 23:00	2.07	358.0	98.96	15.21	-0.1
2-Jun 23:30	3.07	360.0	100.43	15.04	-0.1
3-Jun 0:00	0.15	54.0	101.57	14.85	-0.1
3-Jun 0:30	3.12	356.6	98.62	14.65	-0.1
3-Jun 1:00	3.19	5.1	102.18	14.58	-0.1
3-Jun 1:30	3.74	20.1	101.65	14.38	-0.1
3-Jun 2:00	3.27	49.4	101.37	14.40	-0.1
3-Jun 2:30	1.86	106.5	97.56	14.86	-0.1
3-Jun 3:00	3.37	256.8	98.98	15.05	-0.1
3-Jun 3:30	6.19	41.2	99.63	14.89	-0.1
3-Jun 4:00	2.11	22.8	97.00	14.73	-0.1
3-Jun 4:30	3.15	8.7	97.13	14.68	-0.1
3-Jun 5:00	6.34	39.5	104.43	14.29	-0.1
3-Jun 5:30	7.73	158.5	106.88	13.96	0.0
3-Jun 6:00	1.66	205.4	108.27	13.66	0.4
3-Jun 6:30	0.00	0.0	108.48	13.55	31.6
3-Jun 7:00	2.80	222.8	108.42	13.60	98.3
3-Jun 7:30	6.53	181.2	108.15	13.94	87.0
3-Jun 8:00	1.49	203.8	108.13	14.35	246.4
3-Jun 8:30	5.62	225.7	106.86	15.00	196.2
3-Jun 9:00	6.33	234.7	96.56	15.15	266.1
3-Jun 9:30	8.79	226.1	92.04	15.90	286.0
3-Jun 10:00	8.32	236.7	83.58	16.44	451.6
3-Jun 10:30	2.09	170.5	74.86	18.19	982.9
3-Jun 11:00	9.46	230.0	63.97	17.83	406.7
3-Jun 11:30	9.43	251.5	54.00	18.85	303.7
3-Jun 12:00	6.49	222.4	55.77	19.31	1247.1
3-Jun 12:30	8.80	238.3	59.94	18.09	478.0
3-Jun 13:00	12.10	218.3	52.62	18.49	530.3
3-Jun 13:30	6.29	205.5	62.07	18.19	64.3
3-Jun 14:00	7.09	237.4	61.07	17.39	30.2
3-Jun 14:30	9.20	212.0	60.08	16.91	93.2
3-Jun 15:00	9.19	193.6	63.83	16.41	207.8
3-Jun 15:30	6.12	191.2	69.42	16.22	123.8
3-Jun 16:00	5.91	205.5	71.88	16.06	138.0
3-Jun 16:30	3.84	143.8	64.10	17.76	332.0
3-Jun 17:00	10.10	235.5	51.48	18.77	686.9
3-Jun 17:30	6.17	227.2	50.23	17.94	188.0
3-Jun 18:00	12.30	231.0	54.67	17.48	104.4

3-Jun 18:30	7.57	226.5	54.96	17.66	168.8
3-Jun 19:00	10.25	240.7	54.22	16.75	105.7
3-Jun 19:30	13.12	241.4	54.88	16.67	38.2
3-Jun 20:00	4.80	249.3	59.22	15.98	30.7
3-Jun 20:30	10.66	220.8	61.17	15.42	2.4
3-Jun 21:00	4.69	197.4	64.39	15.15	-0.1
3-Jun 21:30	8.14	200.4	67.08	14.87	-0.2
3-Jun 22:00	0.00	0.0	70.83	14.27	-0.1
3-Jun 22:30	2.63	191.4	81.81	12.51	-0.1
3-Jun 23:00	4.26	170.3	80.65	12.67	-0.1
3-Jun 23:30	2.19	189.9	85.26	11.96	-0.1
4-Jun 0:00	2.71	134.2	83.19	12.39	-0.1
4-Jun 0:30	2.79	167.5	86.53	11.91	-0.1
4-Jun 1:00	4.99	195.0	83.84	12.19	-0.1
4-Jun 1:30	6.48	219.8	82.87	12.42	-0.1
4-Jun 2:00	3.61	190.3	83.53	12.26	-0.1
4-Jun 2:30	3.47	184.7	87.96	11.60	-0.1
4-Jun 3:00	3.69	187.6	86.65	11.68	-0.1
4-Jun 3:30	2.33	188.9	88.89	11.38	-0.1
4-Jun 4:00	1.90	183.3	87.09	11.48	-0.1
4-Jun 4:30	3.82	185.0	86.49	11.34	-0.1
4-Jun 5:00	1.89	212.6	88.78	11.05	-0.1
4-Jun 5:30	3.37	221.9	85.56	11.66	2.5
4-Jun 6:00	2.66	262.6	81.71	12.28	24.4
4-Jun 6:30	3.44	169.1	79.80	12.66	97.7
4-Jun 7:00	3.61	151.3	75.56	13.44	177.8
4-Jun 7:30	2.15	234.6	72.34	14.24	278.5
4-Jun 8:00	3.57	148.3	72.05	14.81	163.3
4-Jun 8:30	8.99	272.3	68.46	15.32	636.5
4-Jun 9:00	2.49	169.7	68.57	15.58	433.1
4-Jun 9:30	9.64	226.7	64.42	16.13	323.9
4-Jun 10:00	6.34	255.2	60.49	17.16	351.4
4-Jun 10:30	4.17	267.8	56.80	17.85	387.2
4-Jun 11:00	7.65	276.9	51.38	18.85	1155.5
4-Jun 11:30	3.97	236.2	51.58	19.23	388.6
4-Jun 12:00	9.00	278.4	49.36	19.55	961.1
4-Jun 12:30	7.31	264.3	47.65	19.41	740.3
4-Jun 13:00	4.53	215.4	46.76	20.54	1352.3
4-Jun 13:30	10.21	220.2	50.91	19.91	399.4
4-Jun 14:00	7.65	224.7	48.01	20.16	515.3
4-Jun 14:30	10.83	213.5	49.79	20.29	563.0
4-Jun 15:00	6.84	208.7	47.94	20.35	221.8
4-Jun 15:30	4.92	258.9	44.31	22.25	523.7
4-Jun 16:00	7.14	227.9	42.01	22.06	479.8
4-Jun 16:30	6.69	216.0	47.27	21.32	238.5
4-Jun 17:00	6.78	232.8	45.03	21.66	690.1
4-Jun 17:30	5.90	251.1	46.06	21.03	150.3
4-Jun 18:00	7.58	262.9	45.51	21.10	430.7
4-Jun 18:30	5.20	306.6	46.21	21.31	321.3
4-Jun 19:00	5.58	261.0	47.51	21.08	236.0

4-Jun 19:30	2.10	249.0	51.43	20.07	65.3
4-Jun 20:00	0.00	0.0	64.86	19.31	21.6
4-Jun 20:30	2.30	214.4	66.99	17.77	2.6
4-Jun 21:00	0.00	0.0	68.70	17.32	0.0
4-Jun 21:30	0.65	38.4	72.93	17.10	-0.2
4-Jun 22:00	1.01	16.4	76.60	16.48	-0.2
4-Jun 22:30	1.53	240.1	81.49	15.69	-0.1
4-Jun 23:00	0.68	211.3	80.86	15.23	-0.1
4-Jun 23:30	0.07	19.6	87.12	14.83	-0.1
5-Jun 0:00	3.99	46.6	87.16	14.37	-0.1
5-Jun 0:30	0.00	0.0	93.19	13.68	-0.2
5-Jun 1:00	1.24	227.2	95.23	12.82	-0.2
5-Jun 1:30	0.00	0.0	92.95	12.72	-0.2
5-Jun 2:00	1.65	332.0	101.30	11.99	-0.1
5-Jun 2:30	1.55	55.3	102.07	12.36	-0.2
5-Jun 3:00	1.72	3.8	103.01	11.89	-0.1
5-Jun 3:30	1.03	0.2	97.41	12.16	-0.2
5-Jun 4:00	1.55	28.4	102.26	12.04	-0.1
5-Jun 4:30	1.56	79.6	101.99	11.63	-0.1
5-Jun 5:00	0.42	46.3	94.61	12.05	-0.1
5-Jun 5:30	2.60	56.2	86.16	12.12	3.4
5-Jun 6:00	2.93	290.7	77.54	12.91	28.2
5-Jun 6:30	2.28	5.8	75.84	13.32	92.3
5-Jun 7:00	2.07	255.9	85.64	12.06	172.8
5-Jun 7:30	0.00	0.0	76.64	13.79	269.2
5-Jun 8:00	2.48	170.1	78.87	14.04	362.9
5-Jun 8:30	3.01	103.7	69.03	15.13	470.6
5-Jun 9:00	10.38	304.6	62.12	16.80	573.8
5-Jun 9:30	7.05	305.1	62.87	17.08	673.8
5-Jun 10:00	1.98	297.3	57.96	18.17	766.5
5-Jun 10:30	7.79	344.4	58.24	18.18	834.5
5-Jun 11:00	7.99	315.6	54.94	18.95	916.2
5-Jun 11:30	6.57	300.1	52.31	19.84	968.1
5-Jun 12:00	4.32	245.2	47.96	20.87	1026.7
5-Jun 12:30	7.57	237.5	44.71	21.67	858.0
5-Jun 13:00	5.22	285.0	40.52	22.48	1062.0
5-Jun 13:30	10.15	211.8	40.68	22.95	1051.4
5-Jun 14:00	10.43	242.9	38.41	23.11	1032.9
5-Jun 14:30	10.62	234.6	35.71	23.62	1010.3
5-Jun 15:00	3.95	232.6	36.89	23.66	996.4
5-Jun 15:30	8.50	222.4	36.75	24.28	742.6
5-Jun 16:00	4.82	281.8	37.33	23.96	501.7
5-Jun 16:30	7.64	251.0	39.13	24.07	561.1
5-Jun 17:00	4.53	294.0	38.55	24.19	544.2
5-Jun 17:30	5.37	226.7	40.66	23.94	412.9
5-Jun 18:00	7.64	246.9	41.13	23.28	185.4
5-Jun 18:30	1.42	198.0	41.33	23.53	211.1
5-Jun 19:00	5.86	235.5	44.05	22.42	61.9
5-Jun 19:30	1.39	199.9	44.59	22.47	44.0
5-Jun 20:00	0.00	0.0	50.96	21.84	29.5

5-Jun 20:30	1.74	317.5	55.86	20.65	1.7
5-Jun 21:00	1.86	12.1	60.73	20.18	-0.1
5-Jun 21:30	1.08	33.3	60.57	19.90	-0.1
5-Jun 22:00	0.00	0.0	65.94	18.69	-0.1
5-Jun 22:30	0.00	0.0	66.22	18.62	-0.1
5-Jun 23:00	0.75	82.2	68.70	18.33	0.0
5-Jun 23:30	2.47	337.2	78.02	18.00	-0.1
6-Jun 0:00	0.21	42.7	75.59	17.56	-0.1
6-Jun 0:30	2.71	342.3	77.61	16.57	-0.1
6-Jun 1:00	2.04	76.3	81.98	16.15	-0.1
6-Jun 1:30	0.00	0.0	75.95	16.81	-0.1
6-Jun 2:00	1.97	169.3	82.69	15.48	-0.1
6-Jun 2:30	1.84	175.6	78.16	15.95	-0.1
6-Jun 3:00	0.07	138.8	80.05	16.04	-0.1
6-Jun 3:30	2.25	241.7	83.34	15.50	-0.1
6-Jun 4:00	2.28	116.0	84.66	15.51	-0.1
6-Jun 4:30	0.00	0.0	88.08	15.13	-0.1
6-Jun 5:00	2.12	24.3	68.61	16.80	-0.1
6-Jun 5:30	2.44	298.1	72.63	16.57	1.5
6-Jun 6:00	2.99	263.3	81.70	16.08	18.5
6-Jun 6:30	4.22	167.2	91.92	14.74	30.3
6-Jun 7:00	1.44	194.7	91.03	15.15	59.6
6-Jun 7:30	2.37	143.1	83.12	15.87	104.3
6-Jun 8:00	2.17	317.9	72.25	17.02	96.2
6-Jun 8:30	4.35	336.9	71.16	17.42	235.7
6-Jun 9:00	3.62	356.1	68.84	17.79	313.6
6-Jun 9:30	6.57	309.1	64.28	18.71	444.3
6-Jun 10:00	5.29	277.4	60.62	19.33	412.8
6-Jun 10:30	10.49	318.7	59.11	18.94	343.6
6-Jun 11:00	8.05	313.4	59.35	19.38	333.5
6-Jun 11:30	7.08	288.2	60.09	18.89	317.7
6-Jun 12:00	4.56	247.6	61.27	19.44	335.5
6-Jun 12:30	3.36	271.5	58.19	19.97	538.7
6-Jun 13:00	5.84	331.0	54.35	20.37	843.1
6-Jun 13:30	7.46	250.0	51.17	21.39	594.5
6-Jun 14:00	8.07	311.1	47.33	22.22	643.9
6-Jun 14:30	6.38	238.0	51.62	21.82	784.8
6-Jun 15:00	8.43	282.3	45.22	22.75	638.2
6-Jun 15:30	6.53	276.6	47.57	22.53	445.2
6-Jun 16:00	6.96	309.1	47.46	22.58	523.0
6-Jun 16:30	4.33	284.4	48.68	22.23	444.8
6-Jun 17:00	9.84	291.0	47.50	22.22	303.2
6-Jun 17:30	7.46	322.2	48.84	22.04	302.2
6-Jun 18:00	6.90	299.6	49.26	21.99	221.9
6-Jun 18:30	2.55	315.7	50.07	21.98	156.1
6-Jun 19:00	3.64	306.8	49.86	21.59	105.9
6-Jun 19:30	2.36	264.9	50.84	21.01	73.7
6-Jun 20:00	0.00	0.0	67.92	20.34	27.3
6-Jun 20:30	0.00	0.0	66.59	18.92	2.9
6-Jun 21:00	2.78	351.0	77.92	18.24	-0.1

6-Jun 21:30	2.42	34.8	71.64	17.83	-0.1
6-Jun 22:00	1.95	353.5	74.66	17.67	-0.2
6-Jun 22:30	1.19	326.3	77.17	17.38	-0.1
6-Jun 23:00	2.28	173.4	81.42	16.28	-0.1
6-Jun 23:30	1.24	264.0	78.71	16.14	-0.1
7-Jun 0:00	0.42	93.6	80.67	16.15	-0.1
7-Jun 0:30	0.64	219.8	81.28	15.89	-0.1
7-Jun 1:00	2.79	36.5	73.09	16.19	-0.1
7-Jun 1:30	0.00	0.0	82.75	16.08	-0.1
7-Jun 2:00	0.55	318.6	68.78	15.96	-0.1
7-Jun 2:30	5.08	347.8	62.56	15.92	-0.1
7-Jun 3:00	0.56	359.2	69.19	15.37	-0.1
7-Jun 3:30	4.66	345.7	77.21	14.95	-0.1
7-Jun 4:00	2.96	27.3	65.66	15.08	-0.1
7-Jun 4:30	5.00	28.9	64.79	15.22	-0.1
7-Jun 5:00	2.74	355.9	58.45	15.27	-0.1
7-Jun 5:30	4.26	324.4	63.37	14.49	4.2
7-Jun 6:00	6.42	4.8	74.74	14.10	21.8
7-Jun 6:30	4.81	31.3	78.77	13.32	65.4
7-Jun 7:00	3.01	25.3	79.74	13.43	93.7
7-Jun 7:30	3.94	29.9	75.68	13.57	149.8
7-Jun 8:00	2.29	39.8	70.30	14.79	392.7
7-Jun 8:30	1.73	10.6	56.40	16.96	481.9
7-Jun 9:00	0.13	43.1	55.17	17.79	583.6
7-Jun 9:30	2.28	40.7	50.98	18.85	681.8
7-Jun 10:00	4.50	39.7	54.44	19.18	770.9
7-Jun 10:30	5.31	55.0	48.34	19.56	843.5
7-Jun 11:00	5.47	49.4	45.41	20.56	936.3
7-Jun 11:30	4.00	360.0	44.17	20.85	832.8
7-Jun 12:00	2.05	99.0	39.68	21.85	1059.6
7-Jun 12:30	2.00	104.8	39.04	22.02	1012.4
7-Jun 13:00	2.67	60.8	36.89	22.66	880.0
7-Jun 13:30	2.56	77.6	37.03	22.66	733.8
7-Jun 14:00	5.63	297.9	37.70	23.23	904.8
7-Jun 14:30	3.45	246.2	35.56	24.25	1023.8
7-Jun 15:00	3.84	318.1	35.02	24.41	1205.3
7-Jun 15:30	7.37	320.8	35.06	24.43	631.4
7-Jun 16:00	4.23	338.0	33.56	24.40	924.2
7-Jun 16:30	10.10	298.4	34.71	24.55	227.6
7-Jun 17:00	5.26	296.5	33.87	24.73	707.0
7-Jun 17:30	2.39	233.0	32.96	25.20	576.4
7-Jun 18:00	4.80	304.3	34.39	24.51	489.9
7-Jun 18:30	6.89	310.6	31.35	25.02	354.0
7-Jun 19:00	4.77	250.6	33.29	24.31	249.9
7-Jun 19:30	3.30	281.2	36.15	23.52	34.0
7-Jun 20:00	4.97	295.4	38.20	22.58	54.0
7-Jun 20:30	5.09	281.8	46.84	19.91	6.3
7-Jun 21:00	2.65	268.2	51.45	18.75	0.0
7-Jun 21:30	1.27	272.5	54.47	18.32	-0.1
7-Jun 22:00	0.00	0.0	62.43	17.80	-0.1

7-Jun 22:30	2.26	43.3	58.44	18.41	-0.1
7-Jun 23:00	3.06	58.7	59.01	17.81	-0.1
7-Jun 23:30	2.23	102.5	53.26	17.34	-0.1
8-Jun 0:00	2.22	187.4	65.00	15.43	-0.1
8-Jun 0:30	1.14	64.7	65.62	16.01	-0.1
8-Jun 1:00	0.36	139.2	69.45	14.61	-0.1
8-Jun 1:30	1.32	237.7	71.38	14.14	-0.1
8-Jun 2:00	0.43	137.1	75.72	13.42	-0.1
8-Jun 2:30	1.94	205.7	75.65	13.31	-0.1
8-Jun 3:00	4.31	208.4	85.19	11.44	-0.1
8-Jun 3:30	2.12	214.3	83.18	11.60	-0.1
8-Jun 4:00	2.18	229.9	83.44	11.29	-0.1
8-Jun 4:30	2.65	212.9	87.38	10.68	-0.1
8-Jun 5:00	2.03	215.4	87.62	10.30	-0.1
8-Jun 5:30	1.44	222.4	85.48	10.21	3.2
8-Jun 6:00	0.07	133.3	84.42	10.40	16.0
8-Jun 6:30	1.86	235.8	83.55	10.50	34.5
8-Jun 7:00	0.57	235.3	83.85	11.02	126.0
8-Jun 7:30	4.09	187.6	81.95	11.95	307.8
8-Jun 8:00	0.00	0.0	69.16	14.87	368.6
8-Jun 8:30	0.53	190.6	60.64	16.36	473.3
8-Jun 9:00	3.36	157.9	56.34	17.73	576.7
8-Jun 9:30	1.13	235.8	46.05	20.38	674.7
8-Jun 10:00	5.66	299.6	38.65	20.87	770.9
8-Jun 10:30	7.01	278.8	36.17	21.91	844.2
8-Jun 11:00	7.96	287.2	31.11	22.82	916.4
8-Jun 11:30	15.42	321.7	30.26	22.74	983.0
8-Jun 12:00	10.03	324.6	26.64	22.61	1013.1
8-Jun 12:30	15.28	320.8	28.14	22.96	1038.8
8-Jun 13:00	7.95	252.4	28.77	23.40	1078.5
8-Jun 13:30	12.71	299.6	22.25	24.54	1080.1
8-Jun 14:00	11.36	305.4	24.09	23.97	1048.0
8-Jun 14:30	9.59	306.5	23.77	24.51	1020.3
8-Jun 15:00	10.21	305.9	24.61	24.43	989.0
8-Jun 15:30	6.90	258.9	24.42	25.05	1024.4
8-Jun 16:00	14.44	315.8	22.25	25.15	873.8
8-Jun 16:30	12.71	309.8	24.42	24.92	808.8
8-Jun 17:00	7.88	316.9	24.41	25.62	693.5
8-Jun 17:30	14.49	304.7	23.39	25.09	573.2
8-Jun 18:00	8.45	299.2	24.60	24.90	486.7
8-Jun 18:30	9.74	299.7	24.52	25.39	386.8
8-Jun 19:00	3.84	318.6	25.58	24.89	282.6
8-Jun 19:30	4.96	329.7	28.13	24.01	146.7
8-Jun 20:00	3.78	323.8	29.20	23.39	60.5
8-Jun 20:30	2.80	265.0	41.96	20.33	6.8
8-Jun 21:00	0.15	355.1	57.47	18.30	0.0
8-Jun 21:30	2.65	2.4	61.20	17.44	-0.1
8-Jun 22:00	4.20	57.3	53.08	17.00	-0.1
8-Jun 22:30	1.46	26.2	57.96	16.45	-0.1
8-Jun 23:00	2.57	206.4	58.65	14.83	-0.1

8-Jun 23:30	1.78	112.6	58.22	15.40	-0.2
9-Jun 0:00	2.14	247.9	65.76	13.70	-0.1
9-Jun 0:30	1.40	208.8	64.26	13.36	-0.1
9-Jun 1:00	4.52	268.6	65.85	13.07	-0.1
9-Jun 1:30	0.00	0.0	66.78	12.86	-0.1
9-Jun 2:00	3.29	205.9	75.37	11.31	-0.2
9-Jun 2:30	2.04	219.2	76.73	10.97	-0.1
9-Jun 3:00	2.37	235.6	76.95	10.96	-0.1
9-Jun 3:30	0.00	0.0	79.29	10.86	-0.1
9-Jun 4:00	4.09	217.4	83.33	9.45	-0.1
9-Jun 4:30	3.62	218.3	87.70	8.83	-0.1
9-Jun 5:00	2.41	177.9	81.38	9.24	-0.1
9-Jun 5:30	0.75	160.3	80.31	9.56	4.1
9-Jun 6:00	2.39	204.9	93.43	7.54	14.8
9-Jun 6:30	0.00	0.0	86.87	8.54	89.2
9-Jun 7:00	2.76	215.4	89.30	8.62	180.6
9-Jun 7:30	0.96	213.5	80.10	11.01	277.9
9-Jun 8:00	0.71	202.4	70.78	13.25	388.5
9-Jun 8:30	0.31	220.3	64.25	15.34	488.0
9-Jun 9:00	4.07	195.0	53.65	17.51	585.6
9-Jun 9:30	1.21	109.7	49.62	19.02	695.7
9-Jun 10:00	2.26	119.2	48.94	20.30	775.6
9-Jun 10:30	1.18	75.6	44.47	21.53	870.3
9-Jun 11:00	3.57	296.1	36.93	23.22	944.9
9-Jun 11:30	3.35	206.4	32.28	24.10	989.1
9-Jun 12:00	5.22	295.6	27.91	23.84	930.8
9-Jun 12:30	11.14	301.5	30.51	23.47	1025.3
9-Jun 13:00	10.17	300.8	24.41	24.14	1089.7
9-Jun 13:30	1.55	338.1	25.61	24.52	1107.9
9-Jun 14:00	5.84	246.3	27.60	25.50	1141.3
9-Jun 14:30	7.40	303.7	29.44	25.15	1144.1
9-Jun 15:00	3.44	349.6	30.24	24.71	179.4
9-Jun 15:30	4.43	288.2	29.11	26.10	247.1
9-Jun 16:00	10.02	295.3	26.45	25.27	899.5
9-Jun 16:30	10.91	271.1	24.18	25.82	791.8
9-Jun 17:00	9.69	307.8	23.93	25.98	677.4
9-Jun 17:30	11.08	319.3	23.99	25.57	574.8
9-Jun 18:00	2.43	248.4	25.86	26.12	475.6
9-Jun 18:30	5.38	273.6	28.23	25.30	354.6
9-Jun 19:00	2.02	277.5	29.01	25.22	250.0
9-Jun 19:30	0.99	279.7	33.99	24.03	149.0
9-Jun 20:00	1.59	332.1	54.36	22.79	62.5
9-Jun 20:30	0.00	0.0	59.62	20.56	7.0
9-Jun 21:00	0.00	0.0	61.01	19.13	0.0
9-Jun 21:30	0.70	59.3	67.59	17.97	-0.1
9-Jun 22:00	2.05	348.2	71.53	16.93	-0.1
9-Jun 22:30	0.00	0.0	70.48	15.76	-0.1
9-Jun 23:00	0.13	35.3	71.82	15.60	-0.1
9-Jun 23:30	0.00	0.0	73.18	14.78	-0.2
10-Jun 0:00	0.00	0.0	70.50	14.34	-0.1

10-Jun 0:30	0.12	161.0	73.31	13.67	-0.1
10-Jun 1:00	1.27	331.2	83.18	13.12	-0.2
10-Jun 1:30	2.16	201.6	79.14	12.42	-0.2
10-Jun 2:00	1.98	210.5	84.09	11.62	-0.1
10-Jun 2:30	1.81	238.2	85.24	11.30	-0.1
10-Jun 3:00	2.22	221.2	88.08	10.75	-0.1
10-Jun 3:30	2.46	238.0	92.87	10.19	-0.1
10-Jun 4:00	1.73	221.5	90.32	10.24	-0.1
10-Jun 4:30	2.19	243.1	91.14	10.13	-0.1
10-Jun 5:00	1.84	240.0	92.28	9.63	-0.1
10-Jun 5:30	2.32	254.0	90.39	9.48	3.2
10-Jun 6:00	1.80	235.3	93.49	9.29	22.2
10-Jun 6:30	1.62	261.4	88.28	9.95	89.7
10-Jun 7:00	0.78	207.1	88.81	10.20	173.4
10-Jun 7:30	0.00	0.0	78.70	12.19	267.7
10-Jun 8:00	2.14	141.2	74.60	13.28	367.9
10-Jun 8:30	1.90	136.2	67.88	15.45	479.4
10-Jun 9:00	1.82	135.2	61.97	17.49	580.9
10-Jun 9:30	4.17	177.3	53.46	19.07	675.9
10-Jun 10:00	1.78	76.2	48.28	21.23	768.2
10-Jun 10:30	3.19	237.2	44.47	22.94	802.6
10-Jun 11:00	8.89	251.3	38.63	23.33	277.5
10-Jun 11:30	9.97	264.6	35.92	22.51	871.5
10-Jun 12:00	7.78	217.4	37.19	23.03	605.6
10-Jun 12:30	2.45	328.4	35.67	23.35	453.9
10-Jun 13:00	9.45	215.2	37.43	23.74	1196.7
10-Jun 13:30	10.50	222.6	34.97	23.41	1185.3
10-Jun 14:00	5.67	226.1	37.33	24.37	228.0
10-Jun 14:30	5.59	202.1	39.33	24.26	1055.7
10-Jun 15:00	7.38	226.5	35.94	25.16	678.3
10-Jun 15:30	2.42	220.2	38.86	24.92	118.3
10-Jun 16:00	7.74	216.4	36.04	25.23	830.6
10-Jun 16:30	10.64	224.7	34.21	26.03	793.1
10-Jun 17:00	3.50	223.7	34.10	26.32	447.1
10-Jun 17:30	8.24	260.1	33.40	25.86	563.1
10-Jun 18:00	6.08	271.5	33.65	25.91	457.4
10-Jun 18:30	3.81	258.2	33.45	26.06	357.3
10-Jun 19:00	5.48	231.6	36.56	25.32	271.2
10-Jun 19:30	2.14	277.9	40.21	24.99	120.0
10-Jun 20:00	1.74	3.0	53.99	23.81	26.4
10-Jun 20:30	1.04	95.6	55.06	21.70	4.2
10-Jun 21:00	0.00	0.0	71.26	20.16	0.0
10-Jun 21:30	2.87	49.7	75.44	19.13	-0.1
10-Jun 22:00	1.93	341.9	75.60	17.97	-0.1
10-Jun 22:30	0.22	20.9	76.89	17.28	-0.1
10-Jun 23:00	2.36	354.9	80.13	17.23	-0.1
10-Jun 23:30	0.00	0.0	80.93	16.44	-0.1
11-Jun 0:00	2.87	1.2	84.95	16.23	-0.1
11-Jun 0:30	2.20	223.9	85.02	15.38	-0.1
11-Jun 1:00	3.08	35.1	86.97	16.03	-0.1

11-Jun 1:30	2.06	42.5	89.10	15.78	-0.1
11-Jun 2:00	2.76	26.7	88.76	15.58	-0.1
11-Jun 2:30	2.13	328.2	90.08	15.34	-0.1
11-Jun 3:00	0.94	247.0	87.39	14.61	-0.1
11-Jun 3:30	2.01	239.8	90.21	14.16	-0.2
11-Jun 4:00	1.54	219.6	91.52	13.96	-0.2
11-Jun 4:30	0.00	0.0	88.75	14.63	-0.2
11-Jun 5:00	0.00	0.0	91.51	14.19	-0.1
11-Jun 5:30	2.22	223.4	89.90	14.47	0.1
11-Jun 6:00	0.00	0.0	87.68	14.85	3.3
11-Jun 6:30	2.49	329.2	92.41	15.18	23.9
11-Jun 7:00	2.28	182.0	93.80	14.67	56.0
11-Jun 7:30	0.00	0.0	87.90	15.45	109.1
11-Jun 8:00	1.20	150.9	85.62	16.17	195.8
11-Jun 8:30	2.55	264.3	81.77	17.31	201.1
11-Jun 9:00	0.00	0.0	79.15	18.28	283.5
11-Jun 9:30	1.05	306.2	73.44	19.63	213.9
11-Jun 10:00	0.00	0.0	71.03	20.17	328.9
11-Jun 10:30	0.67	237.2	65.27	21.60	349.5
11-Jun 11:00	0.00	0.0	64.03	22.28	690.1
11-Jun 11:30	0.00	0.0	56.58	24.63	902.5
11-Jun 12:00	6.19	230.2	53.62	24.41	930.4
11-Jun 12:30	11.25	210.3	52.93	24.58	421.3
11-Jun 13:00	9.46	196.3	51.00	25.09	563.3
11-Jun 13:30	3.52	229.9	51.48	25.31	471.8
11-Jun 14:00	5.36	168.3	43.79	27.18	993.2
11-Jun 14:30	13.24	205.0	41.30	27.25	795.4
11-Jun 15:00	10.48	188.6	37.78	27.78	1000.6
11-Jun 15:30	5.50	189.6	41.08	27.23	382.9
11-Jun 16:00	3.83	167.4	41.89	26.99	138.6
11-Jun 16:30	2.96	179.1	46.42	26.49	175.8
11-Jun 17:00	4.84	184.2	48.49	26.64	202.7
11-Jun 17:30	7.18	181.0	44.27	26.91	228.8
11-Jun 18:00	3.98	179.4	45.75	26.54	112.9
11-Jun 18:30	3.32	154.9	42.85	27.20	317.7
11-Jun 19:00	7.56	205.2	45.69	26.67	180.2
11-Jun 19:30	3.33	205.7	49.08	25.84	48.1
11-Jun 20:00	4.22	234.8	53.54	24.95	38.6
11-Jun 20:30	2.07	240.0	57.43	24.17	4.6
11-Jun 21:00	1.92	177.5	65.72	22.56	0.0
11-Jun 21:30	0.23	122.9	66.44	22.34	-0.1
11-Jun 22:00	2.41	336.0	69.84	21.91	-0.1
11-Jun 22:30	1.28	261.9	106.88	18.42	-0.1
11-Jun 23:00	3.20	30.3	106.11	18.52	-0.1
11-Jun 23:30	1.25	95.6	107.43	18.25	-0.1
12-Jun 0:00	0.00	0.0	107.81	17.83	-0.1
12-Jun 0:30	3.99	175.6	108.25	17.09	-0.1
12-Jun 1:00	2.11	206.9	108.45	16.80	-0.1
12-Jun 1:30	2.79	250.3	108.56	16.35	-0.2
12-Jun 2:00	2.20	190.9	108.71	15.79	-0.1

12-Jun 2:30	1.32	334.4	108.86	16.09	-0.1
12-Jun 3:00	1.60	19.7	108.89	16.45	-0.1
12-Jun 3:30	1.37	205.5	108.88	15.63	-0.2
12-Jun 4:00	1.63	190.0	108.94	15.21	-0.1
12-Jun 4:30	0.00	0.0	108.99	14.94	-0.1
12-Jun 5:00	0.59	244.3	108.99	14.65	-0.1
12-Jun 5:30	1.54	63.3	109.12	15.04	2.7
12-Jun 6:00	3.29	39.2	109.09	15.33	26.9
12-Jun 6:30	0.00	0.0	109.03	15.19	62.0
12-Jun 7:00	3.44	195.4	108.87	14.47	118.2
12-Jun 7:30	2.10	220.8	108.89	14.91	174.8
12-Jun 8:00	0.50	116.1	108.46	15.71	234.3
12-Jun 8:30	0.00	0.0	108.21	16.76	361.6
12-Jun 9:00	0.00	0.0	105.33	18.44	576.6
12-Jun 9:30	2.75	168.9	98.38	18.80	685.1
12-Jun 10:00	3.00	99.9	91.36	19.69	842.5
12-Jun 10:30	1.65	43.9	86.81	20.97	780.5
12-Jun 11:00	0.00	0.0	85.53	21.88	559.3
12-Jun 11:30	1.11	320.3	74.67	23.27	936.1
12-Jun 12:00	1.45	47.4	68.51	23.18	266.4
12-Jun 12:30	0.00	0.0	64.53	24.45	1024.5
12-Jun 13:00	0.07	106.3	56.07	25.37	1052.5
12-Jun 13:30	3.92	165.5	51.29	26.65	1047.3
12-Jun 14:00	1.13	358.4	52.10	27.11	1046.4
12-Jun 14:30	3.34	127.0	50.53	28.08	1000.4
12-Jun 15:00	5.39	171.7	49.32	28.55	990.8
12-Jun 15:30	5.09	224.6	48.50	29.12	790.7
12-Jun 16:00	7.93	164.1	49.60	28.94	570.7
12-Jun 16:30	6.10	221.6	50.21	28.95	218.7
12-Jun 17:00	4.36	169.9	49.93	29.25	637.8
12-Jun 17:30	6.24	158.8	48.21	29.40	470.4
12-Jun 18:00	5.55	201.5	50.60	28.84	154.0
12-Jun 18:30	3.61	158.6	56.12	28.06	75.5
12-Jun 19:00	1.95	152.2	58.09	27.38	40.6
12-Jun 19:30	0.00	0.0	70.67	25.89	9.3
12-Jun 20:00	2.35	343.0	82.02	23.85	3.6
12-Jun 20:30	3.02	87.1	84.39	22.99	9.1
12-Jun 21:00	0.00	0.0	91.41	22.80	0.0
12-Jun 21:30	0.00	0.0	94.85	22.07	-0.1
12-Jun 22:00	4.90	300.3	94.11	22.28	0.0
12-Jun 22:30	3.31	211.8	104.63	21.23	0.0
12-Jun 23:00	6.28	233.6	106.57	20.34	-0.1
12-Jun 23:30	2.05	108.8	107.71	20.08	-0.1
13-Jun 0:00	2.98	148.6	108.00	20.18	-0.1
13-Jun 0:30	1.65	177.9	107.89	20.06	-0.1
13-Jun 1:00	1.53	166.1	108.04	19.99	-0.1
13-Jun 1:30	0.63	185.4	108.25	19.83	-0.1
13-Jun 2:00	1.07	185.4	108.36	19.58	-0.1
13-Jun 2:30	2.42	223.8	108.43	19.56	-0.1
13-Jun 3:00	4.32	221.5	108.51	19.26	-0.1

13-Jun 3:30	2.10	194.4	108.57	19.03	-0.1
13-Jun 4:00	2.18	129.0	108.27	18.97	-0.1
13-Jun 4:30	1.75	197.6	107.55	18.98	-0.1
13-Jun 5:00	0.14	267.1	108.03	18.79	-0.1
13-Jun 5:30	2.53	211.9	107.93	18.44	2.7
13-Jun 6:00	2.46	229.0	108.05	18.46	26.2
13-Jun 6:30	0.00	0.0	106.39	18.96	36.8
13-Jun 7:00	5.51	20.2	100.05	20.15	163.8
13-Jun 7:30	2.57	344.4	96.11	20.85	268.8
13-Jun 8:00	0.00	0.0	88.90	22.30	346.3
13-Jun 8:30	0.36	126.7	91.32	22.14	428.5
13-Jun 9:00	2.57	116.3	83.67	22.52	523.8
13-Jun 9:30	3.92	218.0	82.59	23.34	617.5
13-Jun 10:00	2.40	188.1	79.42	24.31	709.7
13-Jun 10:30	0.00	0.0	66.27	26.42	788.3
13-Jun 11:00	0.49	53.0	64.75	26.95	903.3
13-Jun 11:30	1.98	15.5	61.51	27.82	502.6
13-Jun 12:00	4.29	187.5	69.42	26.86	993.6
13-Jun 12:30	0.00	0.0	65.11	27.43	1073.5
13-Jun 13:00	0.00	0.0	58.23	29.00	1049.5
13-Jun 13:30	4.30	5.9	56.25	29.17	1030.6
13-Jun 14:00	3.57	13.1	52.56	29.44	286.9
13-Jun 14:30	4.08	46.2	53.99	29.20	695.9
13-Jun 15:00	1.91	20.7	50.60	30.28	956.8
13-Jun 15:30	3.33	34.7	50.85	30.24	842.9
13-Jun 16:00	4.85	24.6	49.09	30.19	784.2
13-Jun 16:30	6.49	31.0	51.80	30.60	695.4
13-Jun 17:00	3.52	351.8	46.77	31.09	591.8
13-Jun 17:30	3.06	5.7	46.27	30.79	503.3
13-Jun 18:00	2.88	26.6	47.99	30.62	450.4
13-Jun 18:30	3.74	42.1	49.11	30.29	301.3
13-Jun 19:00	4.40	35.5	52.43	29.34	204.3
13-Jun 19:30	2.92	45.0	55.84	29.25	121.0
13-Jun 20:00	2.47	56.5	61.82	28.18	45.1
13-Jun 20:30	3.88	55.2	68.61	26.90	6.6
13-Jun 21:00	2.24	32.2	84.08	24.97	0.2
13-Jun 21:30	2.53	71.4	87.04	24.36	-0.1
13-Jun 22:00	2.88	51.0	88.47	23.70	-0.1
13-Jun 22:30	3.97	48.3	89.89	23.29	-0.1
13-Jun 23:00	2.13	53.0	92.97	22.79	-0.1
13-Jun 23:30	2.74	28.9	96.48	22.30	-0.1
14-Jun 0:00	3.02	30.2	97.12	21.96	-0.1
14-Jun 0:30	1.63	7.3	99.22	21.73	-0.1
14-Jun 1:00	3.55	17.7	100.20	21.32	-0.1
14-Jun 1:30	3.11	38.1	100.85	20.90	-0.1
14-Jun 2:00	4.06	44.0	102.11	20.55	-0.1
14-Jun 2:30	2.88	39.4	102.86	20.34	-0.1
14-Jun 3:00	2.94	25.3	103.49	20.18	-0.1
14-Jun 3:30	2.33	12.7	105.25	19.91	-0.1
14-Jun 4:00	1.62	32.9	103.46	20.05	-0.1

14-Jun	4:30	2.52	8.8	102.55	20.13	-0.1
14-Jun	5:00	2.06	34.5	103.71	20.05	0.0
14-Jun	5:30	1.40	36.4	103.50	20.09	1.5
14-Jun	6:00	3.54	29.4	103.21	20.26	14.6
14-Jun	6:30	2.94	30.5	102.05	20.42	32.1
14-Jun	7:00	3.22	30.3	101.45	20.81	42.3
14-Jun	7:30	3.35	16.7	98.18	21.28	53.6
14-Jun	8:00	3.90	54.9	94.34	21.40	85.8
14-Jun	8:30	4.89	43.2	93.63	21.65	91.7
14-Jun	9:00	3.83	34.3	91.53	21.98	161.7
14-Jun	9:30	4.10	23.2	87.01	22.54	278.7
14-Jun	10:00	3.94	1.8	81.60	23.67	745.7
14-Jun	10:30	3.08	18.5	75.77	25.01	817.2
14-Jun	11:00	2.14	354.4	71.16	25.91	823.3
14-Jun	11:30	2.01	353.9	61.75	28.11	988.8
14-Jun	12:00	0.42	359.5	62.38	28.14	352.8
14-Jun	12:30	2.45	325.8	62.31	28.37	1076.5
14-Jun	13:00	3.46	154.3	63.55	28.18	1009.0
14-Jun	13:30	7.90	99.6	63.21	28.03	964.3
14-Jun	14:00	0.00	0.0	56.36	29.56	1058.1
14-Jun	14:30	6.21	137.6	60.40	28.57	816.2
14-Jun	15:00	4.10	78.3	57.42	29.08	959.5
14-Jun	15:30	5.15	84.7	56.87	28.95	845.3
14-Jun	16:00	6.39	117.7	59.52	28.61	710.6
14-Jun	16:30	1.30	335.9	53.93	30.32	680.5
14-Jun	17:00	4.98	97.4	58.03	29.06	601.9
14-Jun	17:30	6.55	85.7	56.59	29.01	498.7
14-Jun	18:00	6.35	98.5	55.63	28.78	403.5
14-Jun	18:30	0.00	0.0	58.69	28.87	301.4
14-Jun	19:00	2.22	51.8	69.33	27.53	96.5
14-Jun	19:30	3.12	33.2	69.56	27.28	72.4
14-Jun	20:00	3.68	354.7	72.21	26.74	32.3
14-Jun	20:30	3.13	31.1	76.59	26.09	6.9
14-Jun	21:00	5.86	68.8	77.73	25.69	0.1
14-Jun	21:30	2.65	17.9	80.84	25.34	-0.1
14-Jun	22:00	3.66	17.4	85.65	24.58	-0.1
14-Jun	22:30	3.17	37.5	92.30	23.79	-0.1
14-Jun	23:00	3.20	354.0	87.82	24.02	-0.1
14-Jun	23:30	3.99	27.0	87.20	23.86	-0.1
15-Jun	0:00	1.98	33.8	88.48	23.55	-0.1
15-Jun	0:30	4.10	35.4	91.87	23.18	-0.1
15-Jun	1:00	3.12	75.6	91.63	22.63	-0.1
15-Jun	1:30	0.63	76.0	96.06	22.00	-0.1
15-Jun	2:00	1.09	81.3	97.89	21.58	-0.1
15-Jun	2:30	0.00	0.0	100.05	21.52	-0.1
15-Jun	3:00	1.76	105.8	102.77	21.07	-0.1
15-Jun	3:30	1.63	58.6	103.82	21.08	-0.1
15-Jun	4:00	1.90	346.9	103.30	20.80	-0.1
15-Jun	4:30	3.59	342.7	103.31	20.74	-0.2
15-Jun	5:00	3.01	47.8	103.29	20.60	-0.1

15-Jun 5:30	3.66	37.8	104.05	20.39	3.2
15-Jun 6:00	3.15	29.2	104.21	20.15	20.3
15-Jun 6:30	3.29	29.8	104.12	20.08	60.5
15-Jun 7:00	6.13	356.1	101.34	20.35	96.8
15-Jun 7:30	5.14	40.5	97.98	21.32	156.4
15-Jun 8:00	4.62	14.7	94.67	21.71	179.5
15-Jun 8:30	5.63	25.4	91.01	22.14	251.5
15-Jun 9:00	7.24	33.6	91.05	22.17	216.0
15-Jun 9:30	6.22	40.8	87.81	22.69	219.9
15-Jun 10:00	6.65	41.0	86.64	23.06	216.6
15-Jun 10:30	3.87	35.2	78.38	24.31	529.4
15-Jun 11:00	4.47	79.6	77.37	24.42	643.8
15-Jun 11:30	3.62	81.9	79.12	24.01	421.3
15-Jun 12:00	3.56	50.1	75.54	24.75	422.9
15-Jun 12:30	4.54	99.6	72.32	25.30	408.5
15-Jun 13:00	3.10	214.3	67.78	26.20	1156.1
15-Jun 13:30	7.06	64.2	63.95	26.76	1080.3
15-Jun 14:00	2.98	56.9	65.19	26.61	342.1
15-Jun 14:30	2.42	59.8	62.76	27.23	421.4
15-Jun 15:00	4.63	82.4	66.67	26.81	342.0
15-Jun 15:30	3.30	129.7	64.74	27.46	903.5
15-Jun 16:00	3.06	137.6	60.21	28.29	822.7
15-Jun 16:30	5.80	53.3	60.99	28.29	821.6
15-Jun 17:00	3.33	92.1	64.25	27.38	248.6
15-Jun 17:30	6.64	72.6	67.08	27.18	79.7
15-Jun 18:00	2.12	95.2	68.36	26.83	77.2
15-Jun 18:30	2.18	80.1	90.34	23.75	50.4
15-Jun 19:00	4.59	46.9	87.76	23.73	80.7
15-Jun 19:30	4.85	10.1	88.75	23.57	38.2
15-Jun 20:00	2.79	21.0	90.32	23.07	28.0
15-Jun 20:30	4.11	40.9	91.83	22.79	7.2
15-Jun 21:00	2.15	20.2	97.42	22.39	0.0
15-Jun 21:30	2.19	44.5	99.10	22.33	-0.1
15-Jun 22:00	2.63	40.9	101.54	22.03	-0.1
15-Jun 22:30	3.18	13.8	101.28	21.94	-0.1
15-Jun 23:00	2.22	49.3	101.85	22.01	-0.1
15-Jun 23:30	3.27	60.3	101.31	22.07	-0.2
16-Jun 0:00	4.13	42.1	102.06	22.16	-0.1
16-Jun 0:30	2.82	36.9	99.47	22.39	-0.1
16-Jun 1:00	3.71	55.8	100.83	22.35	-0.1
16-Jun 1:30	1.91	358.0	97.11	22.50	-0.1
16-Jun 2:00	3.86	51.5	94.84	22.60	-0.1
16-Jun 2:30	3.88	29.7	94.38	22.56	-0.1
16-Jun 3:00	3.16	46.4	95.09	22.50	-0.1
16-Jun 3:30	4.69	13.4	100.01	22.06	-0.1
16-Jun 4:00	5.39	50.2	100.58	21.93	-0.1
16-Jun 4:30	5.76	22.9	97.66	21.82	-0.1
16-Jun 5:00	5.88	39.0	97.24	21.83	-0.1
16-Jun 5:30	2.98	45.2	98.60	21.81	1.4
16-Jun 6:00	4.20	352.8	99.25	21.76	14.1

16-Jun 6:30	5.00	15.3	98.26	21.75	25.8
16-Jun 7:00	7.87	24.2	99.26	21.62	35.8
16-Jun 7:30	5.89	9.1	98.39	21.70	83.5
16-Jun 8:00	3.70	34.0	96.01	22.18	188.0
16-Jun 8:30	3.97	51.1	95.19	22.39	127.1
16-Jun 9:00	4.44	21.3	92.57	22.82	69.7
16-Jun 9:30	3.35	52.5	93.48	22.86	78.1
16-Jun 10:00	4.98	38.7	90.56	23.11	149.2
16-Jun 10:30	5.86	53.4	94.83	23.07	250.1
16-Jun 11:00	5.69	47.7	90.32	23.48	230.7
16-Jun 11:30	5.50	24.9	86.21	24.11	353.6
16-Jun 12:00	5.99	40.1	83.49	24.77	614.7
16-Jun 12:30	8.40	25.4	79.95	25.51	331.1
16-Jun 13:00	5.22	50.0	76.33	26.51	516.0
16-Jun 13:30	5.53	41.0	75.01	26.55	418.7
16-Jun 14:00	5.30	30.9	75.84	26.24	156.5
16-Jun 14:30	6.42	70.4	76.10	25.29	66.1
16-Jun 15:00	1.60	94.4	93.73	23.28	21.6
16-Jun 15:30	3.54	79.7	99.02	22.89	83.8
16-Jun 16:00	3.13	52.4	99.18	22.66	66.0
16-Jun 16:30	4.48	40.3	101.22	22.52	62.6
16-Jun 17:00	6.48	16.3	99.77	22.68	194.8
16-Jun 17:30	5.89	24.6	99.56	22.78	91.9
16-Jun 18:00	3.15	34.1	99.86	22.76	22.3
16-Jun 18:30	3.02	50.6	103.03	22.79	29.3
16-Jun 19:00	2.78	338.2	105.03	22.44	8.8
16-Jun 19:30	1.36	251.0	106.27	22.17	4.1
16-Jun 20:00	0.14	190.0	105.91	22.19	7.9
16-Jun 20:30	3.05	315.5	105.84	22.39	0.5
16-Jun 21:00	1.44	64.8	105.94	22.33	-0.1
16-Jun 21:30	3.51	14.2	102.50	22.33	-0.1
16-Jun 22:00	8.56	144.0	105.92	20.83	-0.1
16-Jun 22:30	8.79	128.8	107.36	20.36	-0.2
16-Jun 23:00	4.35	38.9	106.82	20.39	-0.1
16-Jun 23:30	1.87	9.4	106.95	19.75	-0.2
17-Jun 0:00	6.59	18.5	107.52	19.41	-0.1
17-Jun 0:30	5.78	28.2	108.34	19.64	-0.1
17-Jun 1:00	6.80	17.3	108.42	19.62	-0.1
17-Jun 1:30	6.09	342.8	108.46	19.61	-0.1
17-Jun 2:00	0.29	153.3	108.74	19.32	-0.1
17-Jun 2:30	3.66	276.9	108.64	19.01	-0.1
17-Jun 3:00	7.05	332.7	106.74	18.49	-0.1
17-Jun 3:30	7.65	333.9	103.85	18.32	-0.1
17-Jun 4:00	7.55	333.9	103.25	18.00	-0.1
17-Jun 4:30	11.24	341.1	96.57	18.29	-0.1
17-Jun 5:00	6.83	19.1	95.48	18.09	-0.1
17-Jun 5:30	7.86	334.2	92.50	18.15	0.5
17-Jun 6:00	6.20	318.2	84.19	18.10	11.0
17-Jun 6:30	9.53	313.7	82.98	18.32	27.2
17-Jun 7:00	5.16	333.5	85.46	18.42	31.2

17-Jun 7:30	4.72	11.1	85.30	19.05	51.6
17-Jun 8:00	3.95	318.8	83.10	19.24	103.0
17-Jun 8:30	2.24	12.6	79.61	19.92	184.7
17-Jun 9:00	2.49	48.9	78.48	20.25	231.4
17-Jun 9:30	3.96	325.1	75.22	20.66	271.7
17-Jun 10:00	11.01	313.6	71.07	20.73	289.6
17-Jun 10:30	4.94	313.4	69.58	21.14	316.0
17-Jun 11:00	12.63	312.5	70.34	21.07	226.6
17-Jun 11:30	11.92	310.9	66.90	21.44	562.2
17-Jun 12:00	8.75	338.6	62.61	22.08	1150.7
17-Jun 12:30	4.33	26.4	57.28	23.81	1113.1
17-Jun 13:00	14.07	300.7	42.74	25.80	1117.2
17-Jun 13:30	7.56	308.3	43.27	26.13	1071.8
17-Jun 14:00	17.57	318.9	42.25	25.82	1026.8
17-Jun 14:30	12.77	323.0	43.06	26.67	1012.9
17-Jun 15:00	7.13	307.4	41.05	27.95	964.2
17-Jun 15:30	14.04	303.7	39.69	27.81	894.9
17-Jun 16:00	10.12	298.4	39.70	28.40	826.0
17-Jun 16:30	10.96	294.8	39.54	28.97	741.1
17-Jun 17:00	10.80	295.2	40.44	28.69	634.7
17-Jun 17:30	4.46	248.5	45.04	28.14	116.9
17-Jun 18:00	3.60	320.7	48.78	27.46	142.6
17-Jun 18:30	2.13	264.3	47.95	28.21	131.4
17-Jun 19:00	7.70	318.8	50.14	26.95	142.0
17-Jun 19:30	8.61	307.1	48.74	26.97	144.2
17-Jun 20:00	9.44	316.7	51.55	26.22	64.2
17-Jun 20:30	3.22	281.5	55.19	24.95	7.9
17-Jun 21:00	5.63	306.0	60.70	23.57	0.2
17-Jun 21:30	8.26	294.3	59.29	23.61	-0.2
17-Jun 22:00	2.01	235.7	65.46	22.41	-0.1
17-Jun 22:30	2.35	158.3	65.66	22.09	-0.2
17-Jun 23:00	2.24	119.4	67.29	22.22	-0.1
17-Jun 23:30	4.07	150.0	67.19	21.87	-0.1
18-Jun 0:00	2.49	250.3	74.56	20.51	-0.1
18-Jun 0:30	0.00	0.0	74.73	19.98	-0.1
18-Jun 1:00	2.46	219.4	77.93	19.47	-0.1
18-Jun 1:30	3.08	264.2	81.89	18.87	-0.1
18-Jun 2:00	1.63	236.9	80.07	19.01	-0.1
18-Jun 2:30	4.00	236.7	87.79	17.85	-0.1
18-Jun 3:00	2.41	244.2	88.04	17.53	-0.1
18-Jun 3:30	1.67	141.8	87.18	17.52	-0.1
18-Jun 4:00	4.06	100.4	80.38	18.43	-0.1
18-Jun 4:30	2.25	187.3	79.20	17.94	-0.2
18-Jun 5:00	2.09	210.5	79.72	17.61	-0.1
18-Jun 5:30	1.36	204.7	72.36	18.11	3.9
18-Jun 6:00	2.18	7.2	73.11	18.98	24.1
18-Jun 6:30	4.46	346.4	62.60	19.39	96.5
18-Jun 7:00	4.04	321.5	57.51	19.37	182.7
18-Jun 7:30	0.00	0.0	51.88	20.46	275.4
18-Jun 8:00	2.83	268.4	50.83	20.65	374.2

18-Jun 8:30	0.00	0.0	48.48	22.10	476.6
18-Jun 9:00	2.18	117.8	49.51	21.91	575.1
18-Jun 9:30	3.35	358.3	44.78	22.68	666.1
18-Jun 10:00	3.35	73.8	45.36	22.86	756.2
18-Jun 10:30	4.95	20.2	42.40	23.53	825.8
18-Jun 11:00	7.98	337.6	42.74	24.21	896.6
18-Jun 11:30	2.35	56.5	43.70	24.73	943.3
18-Jun 12:00	9.45	316.6	40.57	25.29	988.3
18-Jun 12:30	7.41	301.4	40.77	26.12	1013.7
18-Jun 13:00	9.07	306.6	37.42	26.49	1026.3
18-Jun 13:30	10.14	296.2	37.04	26.33	1034.8
18-Jun 14:00	5.98	314.5	35.97	26.96	1023.2
18-Jun 14:30	3.34	246.5	36.79	27.37	990.8
18-Jun 15:00	4.94	310.7	35.81	27.60	955.8
18-Jun 15:30	1.59	280.4	35.63	28.72	896.6
18-Jun 16:00	0.00	0.0	33.42	29.12	814.8
18-Jun 16:30	8.65	274.1	31.94	28.98	738.2
18-Jun 17:00	5.67	327.7	36.38	27.75	654.8
18-Jun 17:30	2.27	248.9	34.04	29.07	553.2
18-Jun 18:00	2.65	232.8	36.31	28.61	448.5
18-Jun 18:30	3.27	317.3	33.92	29.87	344.9
18-Jun 19:00	2.27	211.1	43.06	28.39	239.2
18-Jun 19:30	2.45	165.7	47.56	27.25	143.3
18-Jun 20:00	4.48	224.3	53.30	25.70	57.7
18-Jun 20:30	0.42	151.5	61.10	24.70	7.6
18-Jun 21:00	1.95	349.7	72.47	23.44	0.0
18-Jun 21:30	2.05	264.3	75.41	22.10	-0.1
18-Jun 22:00	1.89	32.3	82.90	21.51	-0.1
18-Jun 22:30	4.98	290.6	81.84	20.82	-0.1
18-Jun 23:00	2.16	255.1	86.05	19.36	-0.1
18-Jun 23:30	2.64	332.8	92.88	19.39	-0.1
19-Jun 0:00	2.13	208.2	92.92	18.29	-0.1
19-Jun 0:30	0.00	0.0	93.25	18.58	-0.1
19-Jun 1:00	1.07	241.5	94.32	18.01	-0.1
19-Jun 1:30	0.76	314.0	96.15	17.79	-0.1
19-Jun 2:00	1.56	210.1	98.64	17.38	-0.1
19-Jun 2:30	1.27	184.8	100.68	16.79	-0.2
19-Jun 3:00	2.23	185.3	100.61	16.67	-0.1
19-Jun 3:30	3.49	246.4	102.14	15.73	-0.1
19-Jun 4:00	1.76	213.9	104.64	16.02	-0.1
19-Jun 4:30	0.08	202.6	103.22	16.06	-0.1
19-Jun 5:00	3.01	207.6	102.82	15.23	-0.1
19-Jun 5:30	2.35	230.2	102.22	15.53	3.3
19-Jun 6:00	2.21	285.7	102.68	15.76	18.4
19-Jun 6:30	2.53	221.3	106.94	15.08	38.7
19-Jun 7:00	2.45	244.9	107.96	14.98	87.6
19-Jun 7:30	1.88	185.3	106.28	15.93	250.4
19-Jun 8:00	1.15	140.8	93.29	17.90	345.0
19-Jun 8:30	1.19	217.5	81.99	20.25	445.4
19-Jun 9:00	1.94	202.2	75.86	22.00	545.4

19-Jun 9:30	3.12	246.7	66.58	23.52	638.5
19-Jun 10:00	3.78	243.9	64.88	24.57	728.3
19-Jun 10:30	7.60	213.0	55.82	25.95	807.5
19-Jun 11:00	4.19	154.0	48.81	27.21	874.6
19-Jun 11:30	3.46	138.0	47.32	27.87	930.3
19-Jun 12:00	8.12	196.2	49.73	27.56	962.7
19-Jun 12:30	3.37	203.5	47.49	28.75	1001.8
19-Jun 13:00	7.37	190.9	49.04	28.56	1004.1
19-Jun 13:30	3.37	198.7	47.38	28.77	998.1
19-Jun 14:00	11.47	157.2	42.07	29.11	997.9
19-Jun 14:30	8.13	197.2	42.18	29.53	979.3
19-Jun 15:00	6.90	202.0	40.59	30.15	946.0
19-Jun 15:30	6.83	139.7	39.00	30.31	880.2
19-Jun 16:00	10.63	209.3	41.23	30.20	808.9
19-Jun 16:30	7.87	178.0	40.08	30.57	720.0
19-Jun 17:00	4.06	148.9	38.39	30.47	635.8
19-Jun 17:30	6.98	196.2	39.50	30.34	539.4
19-Jun 18:00	9.13	182.7	39.80	30.46	439.0
19-Jun 18:30	4.47	187.1	41.99	29.89	337.3
19-Jun 19:00	7.00	205.6	41.71	29.67	237.7
19-Jun 19:30	4.17	203.1	43.40	29.29	141.7
19-Jun 20:00	2.69	156.5	48.47	28.16	61.3
19-Jun 20:30	6.46	176.1	54.72	27.15	8.6
19-Jun 21:00	4.08	181.7	63.32	26.26	0.2
19-Jun 21:30	1.38	205.2	67.23	25.47	-0.1
19-Jun 22:00	3.10	223.7	72.46	24.23	-0.1
19-Jun 22:30	0.82	226.8	73.59	23.82	-0.1
19-Jun 23:00	0.49	139.3	74.06	23.72	-0.1
19-Jun 23:30	0.00	0.0	82.77	22.86	-0.1
20-Jun 0:00	0.00	0.0	80.62	22.11	-0.1
20-Jun 0:30	0.00	0.0	87.30	21.64	-0.1
20-Jun 1:00	0.00	0.0	84.31	21.52	-0.1
20-Jun 1:30	2.18	208.2	95.04	19.36	-0.2
20-Jun 2:00	1.42	232.2	99.76	18.66	-0.1
20-Jun 2:30	0.36	270.7	96.14	19.30	-0.1
20-Jun 3:00	0.00	0.0	97.22	19.10	-0.1
20-Jun 3:30	0.00	0.0	99.53	18.79	-0.1
20-Jun 4:00	0.00	0.0	101.55	18.32	-0.1
20-Jun 4:30	0.00	0.0	104.06	18.18	-0.1
20-Jun 5:00	0.59	41.2	105.59	18.49	-0.1
20-Jun 5:30	1.25	219.9	107.11	17.29	2.7
20-Jun 6:00	0.00	0.0	105.92	17.29	19.8
20-Jun 6:30	1.33	311.2	102.74	18.02	71.0
20-Jun 7:00	1.74	241.4	102.24	17.86	147.9
20-Jun 7:30	1.37	210.3	97.05	18.83	227.1
20-Jun 8:00	2.21	141.5	91.52	20.08	313.3
20-Jun 8:30	2.93	189.7	84.82	21.81	409.5
20-Jun 9:00	2.75	205.6	79.92	22.93	508.8
20-Jun 9:30	4.81	150.9	74.61	24.26	603.8
20-Jun 10:00	3.17	220.5	72.50	25.03	689.1

20-Jun 10:30	2.16	208.9	67.31	26.29	765.5
20-Jun 11:00	3.58	173.9	64.92	26.74	828.3
20-Jun 11:30	6.73	222.6	61.58	27.86	878.7
20-Jun 12:00	1.76	89.0	58.87	28.59	944.9
20-Jun 12:30	0.97	306.5	52.59	29.84	966.7
20-Jun 13:00	4.46	233.5	50.72	30.43	993.8
20-Jun 13:30	3.70	189.2	48.62	30.59	1003.8
20-Jun 14:00	7.78	244.8	51.56	30.47	1001.4
20-Jun 14:30	4.15	206.4	50.45	31.09	964.0
20-Jun 15:00	5.87	122.5	47.71	31.49	913.7
20-Jun 15:30	2.89	217.1	49.72	31.17	310.5
20-Jun 16:00	6.53	205.7	48.55	31.03	697.1
20-Jun 16:30	3.84	155.9	49.81	30.37	146.8
20-Jun 17:00	10.46	285.4	61.50	23.49	10.5
20-Jun 17:30	5.92	243.2	84.24	21.48	2.3
20-Jun 18:00	2.78	218.6	104.57	19.76	5.2
20-Jun 18:30	3.35	197.9	106.17	19.28	10.6
20-Jun 19:00	2.61	47.0	106.60	19.21	18.8
20-Jun 19:30	4.98	17.1	105.06	19.79	131.7
20-Jun 20:00	2.38	237.6	106.91	19.85	29.7
20-Jun 20:30	1.96	193.2	107.17	19.33	9.7
20-Jun 21:00	2.61	129.8	107.26	19.31	0.0
20-Jun 21:30	0.00	0.0	108.04	18.87	-0.2
20-Jun 22:00	1.60	270.7	106.34	19.33	-0.1
20-Jun 22:30	0.53	147.4	107.25	19.11	-0.1
20-Jun 23:00	0.00	0.0	107.74	18.88	-0.1
20-Jun 23:30	2.55	107.0	106.72	19.36	-0.1
21-Jun 0:00	2.51	333.8	107.96	18.98	-0.1
21-Jun 0:30	3.90	24.2	106.44	19.19	-0.1
21-Jun 1:00	2.65	174.8	106.81	18.99	-0.1
21-Jun 1:30	4.53	227.1	108.12	18.65	-0.1
21-Jun 2:00	2.06	68.4	108.58	18.70	-0.1
21-Jun 2:30	2.93	34.7	106.79	19.11	-0.1
21-Jun 3:00	1.13	59.8	106.00	19.32	-0.1
21-Jun 3:30	6.45	29.3	106.22	19.07	-0.1
21-Jun 4:00	7.40	37.2	105.53	18.73	-0.1
21-Jun 4:30	5.75	35.4	106.46	18.76	-0.1
21-Jun 5:00	4.97	44.7	104.06	19.03	-0.1
21-Jun 5:30	2.68	350.1	105.19	18.70	1.5
21-Jun 6:00	5.33	7.3	105.81	18.35	9.1
21-Jun 6:30	3.50	2.6	105.94	18.31	19.3
21-Jun 7:00	5.22	9.3	104.59	18.49	47.4
21-Jun 7:30	1.16	342.3	103.25	18.76	95.9
21-Jun 8:00	5.16	48.4	98.41	19.16	98.6
21-Jun 8:30	6.03	53.8	93.85	19.63	136.0
21-Jun 9:00	10.81	36.9	87.67	19.69	286.1
21-Jun 9:30	9.72	49.0	87.05	19.81	364.6
21-Jun 10:00	8.31	29.9	87.11	20.03	371.4
21-Jun 10:30	7.72	28.8	89.12	20.22	215.1
21-Jun 11:00	6.47	33.0	91.22	20.14	114.4

21-Jun 11:30	7.16	0.6	90.32	20.13	145.9
21-Jun 12:00	6.44	52.2	89.69	20.60	354.3
21-Jun 12:30	5.99	21.1	86.16	20.93	315.5
21-Jun 13:00	5.97	38.2	84.16	21.72	489.5
21-Jun 13:30	4.78	47.6	80.78	22.36	633.6
21-Jun 14:00	6.40	20.3	78.08	23.11	715.5
21-Jun 14:30	2.39	19.5	77.40	23.32	360.0
21-Jun 15:00	6.65	43.5	74.86	23.80	563.5
21-Jun 15:30	5.67	52.6	76.83	23.55	183.2
21-Jun 16:00	7.78	39.1	77.16	23.50	281.2
21-Jun 16:30	5.80	56.6	78.15	23.53	258.8
21-Jun 17:00	7.09	56.1	80.05	23.17	126.9
21-Jun 17:30	6.90	49.7	81.81	22.97	160.7
21-Jun 18:00	10.55	44.5	80.95	22.74	155.2
21-Jun 18:30	9.45	47.0	83.55	22.36	32.3
21-Jun 19:00	6.89	37.4	85.35	22.10	9.1
21-Jun 19:30	3.27	75.5	86.44	21.85	17.6
21-Jun 20:00	4.24	43.8	87.16	21.73	32.7
21-Jun 20:30	5.98	47.3	88.27	21.47	0.7
21-Jun 21:00	9.06	49.7	87.97	21.20	0.0
21-Jun 21:30	3.88	48.8	88.23	20.79	-0.1
21-Jun 22:00	7.99	50.9	85.97	20.76	-0.1
21-Jun 22:30	4.51	49.7	88.20	20.54	-0.1
21-Jun 23:00	4.72	50.6	88.13	20.31	-0.1
21-Jun 23:30	5.15	44.8	89.57	20.12	-0.1
22-Jun 0:00	4.93	33.5	90.89	19.88	-0.1
22-Jun 0:30	4.70	52.2	91.65	19.88	-0.1
22-Jun 1:00	7.68	39.0	93.65	19.76	-0.1
22-Jun 1:30	5.94	44.2	95.19	19.74	-0.1
22-Jun 2:00	3.09	74.2	98.72	19.70	-0.1
22-Jun 2:30	2.55	37.0	99.61	19.70	-0.1
22-Jun 3:00	6.29	50.6	99.20	19.99	-0.1
22-Jun 3:30	2.41	78.7	97.10	20.26	-0.1
22-Jun 4:00	4.10	109.1	94.68	20.67	-0.1
22-Jun 4:30	2.20	8.1	95.02	20.67	-0.1
22-Jun 5:00	7.70	58.9	95.44	20.61	-0.1
22-Jun 5:30	3.91	297.0	93.10	20.82	0.4
22-Jun 6:00	5.30	104.4	90.79	20.89	11.4
22-Jun 6:30	3.85	96.4	90.39	20.73	22.2
22-Jun 7:00	3.75	144.3	89.31	20.75	38.2
22-Jun 7:30	6.01	156.9	89.85	20.65	19.5
22-Jun 8:00	2.11	122.4	92.99	20.52	59.4
22-Jun 8:30	5.49	88.8	92.00	20.71	102.5
22-Jun 9:00	2.12	67.8	89.66	21.10	166.3
22-Jun 9:30	6.05	48.3	88.38	21.26	134.3
22-Jun 10:00	6.16	62.5	86.76	21.58	198.4
22-Jun 10:30	1.01	339.4	84.89	21.94	157.2
22-Jun 11:00	4.08	115.0	81.96	22.41	213.3
22-Jun 11:30	2.95	47.4	83.52	22.80	215.0
22-Jun 12:00	3.63	90.9	83.37	22.80	134.1

22-Jun 12:30	3.69	36.7	95.50	21.56	59.1
22-Jun 13:00	2.46	107.9	99.71	20.87	18.9
22-Jun 13:30	1.64	278.3	105.73	20.43	20.4
22-Jun 14:00	6.87	83.5	101.06	19.34	10.9
22-Jun 14:30	3.35	121.0	100.48	18.54	29.7
22-Jun 15:00	2.83	263.1	95.77	18.98	64.8
22-Jun 15:30	5.11	30.4	92.02	20.24	662.8
22-Jun 16:00	2.90	38.1	85.47	20.62	189.6
22-Jun 16:30	0.00	0.0	87.48	20.66	231.6
22-Jun 17:00	0.00	0.0	86.22	20.82	197.4
22-Jun 17:30	6.39	324.3	78.69	22.02	559.8
22-Jun 18:00	3.62	58.0	85.46	21.58	112.8
22-Jun 18:30	2.55	161.2	90.54	21.05	57.1
22-Jun 19:00	0.04	40.0	97.54	20.34	31.2
22-Jun 19:30	1.75	282.3	99.28	20.30	25.2
22-Jun 20:00	2.18	103.5	103.72	20.27	25.1
22-Jun 20:30	3.80	16.4	102.73	20.37	3.8
22-Jun 21:00	3.57	22.5	104.26	20.55	0.0
22-Jun 21:30	2.41	34.2	104.19	20.70	-0.1
22-Jun 22:00	3.90	71.0	90.49	21.62	-0.1
22-Jun 22:30	2.76	52.4	92.33	21.32	-0.1
22-Jun 23:00	0.00	0.0	93.18	21.09	-0.1
22-Jun 23:30	4.30	49.1	98.11	20.56	-0.1
23-Jun 0:00	2.48	354.4	97.69	20.72	-0.1
23-Jun 0:30	1.70	92.5	97.65	20.54	-0.1
23-Jun 1:00	2.00	59.2	94.50	20.68	-0.1
23-Jun 1:30	1.02	60.4	95.27	20.58	-0.1
23-Jun 2:00	4.83	57.3	96.62	20.45	-0.1
23-Jun 2:30	4.33	44.6	100.27	20.24	-0.1
23-Jun 3:00	6.54	62.9	98.81	20.40	-0.1
23-Jun 3:30	5.42	41.1	98.98	20.49	-0.1
23-Jun 4:00	2.64	40.6	99.48	20.47	-0.1
23-Jun 4:30	5.78	49.7	99.59	20.40	-0.1
23-Jun 5:00	5.41	24.7	98.77	20.42	-0.1
23-Jun 5:30	6.09	34.8	99.62	20.28	0.4
23-Jun 6:00	3.98	54.8	99.42	20.32	7.7
23-Jun 6:30	8.69	40.4	99.78	20.28	9.9
23-Jun 7:00	4.78	26.6	100.54	20.34	16.0
23-Jun 7:30	3.47	57.8	102.23	20.44	46.7
23-Jun 8:00	1.77	81.0	103.38	20.41	9.4
23-Jun 8:30	4.60	144.4	104.66	20.47	52.1
23-Jun 9:00	4.71	167.6	103.50	20.89	62.9
23-Jun 9:30	4.56	144.7	100.04	21.34	69.1
23-Jun 10:00	4.59	177.1	98.72	21.73	201.8
23-Jun 10:30	6.45	143.6	94.36	22.34	318.3
23-Jun 11:00	8.79	166.6	88.26	22.92	409.4
23-Jun 11:30	6.26	176.4	83.22	23.58	441.1
23-Jun 12:00	4.06	140.0	82.05	23.59	157.8
23-Jun 12:30	5.99	176.1	81.43	23.79	446.1
23-Jun 13:00	6.04	189.9	76.88	24.43	704.1

23-Jun 13:30	3.10	187.1	77.30	24.28	319.4
23-Jun 14:00	3.59	165.4	71.68	25.52	336.1
23-Jun 14:30	3.50	201.7	75.49	24.45	361.0
23-Jun 15:00	10.58	210.9	73.57	24.67	373.3
23-Jun 15:30	6.56	188.7	76.18	24.35	177.9
23-Jun 16:00	5.17	215.2	100.20	21.65	15.4
23-Jun 16:30	4.71	195.1	107.57	20.37	142.2
23-Jun 17:00	2.32	203.5	107.02	20.82	246.1
23-Jun 17:30	3.21	195.8	103.58	20.74	120.9
23-Jun 18:00	2.58	144.6	104.09	19.94	38.8
23-Jun 18:30	6.65	298.3	97.85	19.10	32.7
23-Jun 19:00	6.28	255.5	97.72	18.69	26.4
23-Jun 19:30	4.95	296.5	92.79	17.94	15.8
23-Jun 20:00	2.26	192.3	94.09	17.70	37.6
23-Jun 20:30	2.69	272.3	90.98	17.25	8.8
23-Jun 21:00	0.00	0.0	91.14	17.31	0.1
23-Jun 21:30	3.97	339.9	88.67	17.37	-0.1
23-Jun 22:00	5.68	282.9	88.25	17.19	-0.1
23-Jun 22:30	3.29	312.5	85.53	16.72	-0.1
23-Jun 23:00	1.02	19.1	90.65	16.22	-0.1
23-Jun 23:30	4.20	320.7	89.36	16.23	-0.1
24-Jun 0:00	2.67	299.0	91.45	15.63	-0.1
24-Jun 0:30	1.44	214.2	98.48	15.25	-0.1
24-Jun 1:00	2.63	268.9	90.74	15.68	-0.1
24-Jun 1:30	4.15	321.0	88.60	15.73	-0.1
24-Jun 2:00	4.52	344.7	88.42	15.80	-0.1
24-Jun 2:30	3.74	315.2	88.08	15.76	-0.1
24-Jun 3:00	1.64	306.7	91.96	15.57	-0.1
24-Jun 3:30	2.36	273.5	89.65	15.69	-0.1
24-Jun 4:00	5.42	291.5	88.00	15.62	-0.1
24-Jun 4:30	4.21	338.7	88.26	15.65	-0.1
24-Jun 5:00	2.01	158.2	87.46	15.41	-0.1
24-Jun 5:30	5.03	340.3	86.01	15.47	1.3
24-Jun 6:00	6.12	329.2	85.94	15.44	11.5
24-Jun 6:30	3.36	298.5	86.48	15.47	30.2
24-Jun 7:00	3.90	14.7	85.34	15.64	77.3
24-Jun 7:30	10.85	322.3	84.96	15.61	65.2
24-Jun 8:00	8.81	321.8	84.88	15.72	108.1
24-Jun 8:30	0.00	0.0	73.26	17.73	307.0
24-Jun 9:00	5.29	19.7	68.07	18.65	573.1
24-Jun 9:30	9.54	327.5	66.08	19.04	655.7
24-Jun 10:00	13.43	314.9	63.53	19.39	773.6
24-Jun 10:30	10.14	298.2	63.57	20.17	742.4
24-Jun 11:00	8.10	313.0	61.19	20.55	824.4
24-Jun 11:30	10.74	322.5	58.76	21.21	882.3
24-Jun 12:00	10.28	288.2	60.57	21.61	620.7
24-Jun 12:30	10.36	299.0	56.47	22.47	1072.6
24-Jun 13:00	4.27	351.9	55.91	22.30	1095.6
24-Jun 13:30	8.51	314.6	54.45	22.39	792.2
24-Jun 14:00	6.96	310.7	53.93	22.89	1012.1

24-Jun 14:30	10.84	295.7	51.49	23.36	904.7
24-Jun 15:00	2.40	279.8	48.61	24.55	782.2
24-Jun 15:30	4.37	298.9	47.80	24.94	808.0
24-Jun 16:00	7.74	339.9	48.04	24.46	858.0
24-Jun 16:30	6.33	285.2	47.86	24.52	530.2
24-Jun 17:00	5.25	256.5	42.88	25.41	712.7
24-Jun 17:30	3.85	292.9	42.60	25.23	474.9
24-Jun 18:00	4.45	306.9	43.94	25.65	498.7
24-Jun 18:30	3.00	318.3	45.75	25.75	357.6
24-Jun 19:00	4.56	335.4	47.30	24.82	158.6
24-Jun 19:30	2.40	310.9	50.41	24.38	154.4
24-Jun 20:00	3.92	294.0	67.73	22.55	87.9
24-Jun 20:30	0.00	0.0	73.92	22.14	26.1
24-Jun 21:00	0.22	75.0	78.96	21.03	0.3
24-Jun 21:30	1.63	99.4	79.51	20.04	-0.1
24-Jun 22:00	1.86	109.2	80.56	19.41	-0.1
24-Jun 22:30	1.80	359.2	87.48	18.40	-0.1
24-Jun 23:00	0.00	0.0	81.60	18.45	-0.1
24-Jun 23:30	2.51	46.0	85.76	18.35	-0.1
25-Jun 0:00	1.91	246.9	87.73	17.45	-0.1
25-Jun 0:30	2.24	196.4	95.90	16.16	-0.1
25-Jun 1:00	1.73	223.6	104.10	15.16	-0.1
25-Jun 1:30	2.29	250.7	101.42	14.97	-0.1
25-Jun 2:00	0.00	0.0	105.68	14.45	-0.2
25-Jun 2:30	1.17	275.9	101.33	14.80	-0.1
25-Jun 3:00	0.97	222.1	99.01	14.70	-0.1
25-Jun 3:30	3.08	231.0	101.30	13.97	-0.1
25-Jun 4:00	2.50	213.9	107.43	13.12	-0.2
25-Jun 4:30	1.11	258.3	107.56	12.86	-0.1
25-Jun 5:00	1.97	235.8	106.79	13.43	-0.1
25-Jun 5:30	2.43	208.0	106.04	12.54	1.9
25-Jun 6:00	1.72	201.0	107.26	12.10	24.3
25-Jun 6:30	2.34	193.7	103.73	12.64	92.1
25-Jun 7:00	0.75	223.5	100.01	13.77	179.1
25-Jun 7:30	1.82	221.7	92.54	15.59	262.2
25-Jun 8:00	2.87	171.9	90.41	16.22	354.0
25-Jun 8:30	2.54	127.5	82.63	18.30	455.6
25-Jun 9:00	2.76	123.9	72.62	20.54	556.0
25-Jun 9:30	2.42	144.4	63.28	21.79	651.8
25-Jun 10:00	2.03	85.3	58.31	22.57	746.2
25-Jun 10:30	3.14	103.7	56.89	22.72	816.5
25-Jun 11:00	2.82	162.2	52.46	24.30	892.3
25-Jun 11:30	3.02	99.0	48.07	24.26	997.9
25-Jun 12:00	2.71	119.5	49.36	24.29	257.2
25-Jun 12:30	0.87	280.8	44.65	25.54	292.7
25-Jun 13:00	0.58	85.3	43.01	26.51	1268.2
25-Jun 13:30	0.00	0.0	39.08	27.20	1387.8
25-Jun 14:00	0.87	53.2	42.37	26.38	812.4
25-Jun 14:30	4.14	349.7	44.09	26.80	898.0
25-Jun 15:00	0.00	0.0	39.16	27.35	1029.0

25-Jun 15:30	1.47	155.1	38.90	27.47	932.0
25-Jun 16:00	3.80	81.5	39.46	27.25	941.3
25-Jun 16:30	1.24	29.0	41.21	27.11	217.3
25-Jun 17:00	1.33	59.0	37.68	29.02	305.7
25-Jun 17:30	3.12	251.3	37.01	29.12	588.2
25-Jun 18:00	1.47	258.8	39.05	28.67	500.5
25-Jun 18:30	3.19	250.1	39.05	28.13	366.7
25-Jun 19:00	1.91	241.0	38.06	28.58	258.5
25-Jun 19:30	1.87	260.6	42.47	27.61	103.1
25-Jun 20:00	1.36	6.2	68.68	24.99	24.4
25-Jun 20:30	1.33	25.8	76.17	23.35	7.5
25-Jun 21:00	2.97	356.5	80.97	22.08	0.3
25-Jun 21:30	1.83	355.7	81.53	21.20	-0.1
25-Jun 22:00	1.35	31.2	84.91	20.68	0.0
25-Jun 22:30	0.07	6.6	84.91	19.94	-0.1
25-Jun 23:00	0.14	62.5	91.42	19.52	-0.1
25-Jun 23:30	0.00	0.0	91.00	18.59	-0.1
26-Jun 0:00	0.24	266.7	90.42	17.71	-0.1
26-Jun 0:30	1.44	334.4	93.68	17.64	-0.1
26-Jun 1:00	1.09	231.4	91.07	17.44	-0.1
26-Jun 1:30	2.50	206.9	97.65	16.14	-0.1
26-Jun 2:00	0.00	0.0	101.89	15.78	-0.1
26-Jun 2:30	0.00	0.0	104.04	16.56	-0.1
26-Jun 3:00	1.50	306.7	103.58	16.22	-0.1
26-Jun 3:30	1.51	248.3	103.61	15.84	-0.1
26-Jun 4:00	2.77	253.8	101.89	15.48	-0.1
26-Jun 4:30	3.14	246.2	104.28	14.63	-0.1
26-Jun 5:00	1.88	228.2	106.17	14.74	0.0
26-Jun 5:30	2.72	234.4	104.22	14.73	2.9
26-Jun 6:00	1.74	209.6	106.87	14.56	15.5
26-Jun 6:30	2.42	237.4	106.35	14.54	44.8
26-Jun 7:00	1.97	225.8	103.70	14.55	89.8
26-Jun 7:30	0.60	285.4	101.34	16.17	94.3
26-Jun 8:00	0.00	0.0	88.95	18.37	325.0
26-Jun 8:30	0.00	0.0	77.43	20.53	442.1
26-Jun 9:00	2.00	73.0	81.87	20.52	539.5
26-Jun 9:30	0.00	0.0	67.56	22.76	635.6
26-Jun 10:00	0.00	0.0	62.86	23.99	729.5
26-Jun 10:30	0.69	40.1	60.30	25.19	802.8
26-Jun 11:00	0.00	0.0	52.86	26.46	883.3
26-Jun 11:30	1.82	24.4	39.51	29.40	958.3
26-Jun 12:00	2.98	67.1	46.35	27.53	1015.6
26-Jun 12:30	3.23	35.2	43.98	28.23	1062.8
26-Jun 13:00	3.62	37.4	45.29	28.20	309.1
26-Jun 13:30	0.70	64.8	42.41	29.28	542.0
26-Jun 14:00	0.00	0.0	40.96	29.49	1108.3
26-Jun 14:30	2.48	59.3	35.85	29.88	1187.9
26-Jun 15:00	2.75	46.3	38.09	29.71	1008.1
26-Jun 15:30	2.79	22.0	36.00	30.40	952.1
26-Jun 16:00	0.00	0.0	32.81	31.93	984.2

26-Jun 16:30	4.42	216.7	32.16	31.06	820.3
26-Jun 17:00	1.92	196.3	31.55	30.32	680.1
26-Jun 17:30	2.65	238.9	32.83	30.64	573.1
26-Jun 18:00	3.26	166.1	34.40	30.29	459.9
26-Jun 18:30	0.49	160.5	39.28	29.76	344.6
26-Jun 19:00	3.03	156.9	44.13	29.19	203.3
26-Jun 19:30	5.21	181.3	49.03	28.23	58.8
26-Jun 20:00	1.35	110.5	59.28	26.43	22.9
26-Jun 20:30	1.15	60.5	66.91	25.36	6.4
26-Jun 21:00	0.38	215.0	72.37	24.10	0.3
26-Jun 21:30	0.00	0.0	80.52	23.26	-0.1
26-Jun 22:00	0.00	0.0	82.64	22.58	-0.1
26-Jun 22:30	0.12	4.9	87.10	22.00	-0.1
26-Jun 23:00	1.51	18.1	89.12	21.46	-0.1
26-Jun 23:30	1.87	195.1	90.54	20.69	-0.1
27-Jun 0:00	2.63	338.1	91.02	20.46	-0.1
27-Jun 0:30	0.13	245.4	93.93	20.04	-0.1
27-Jun 1:00	2.14	198.4	94.05	19.14	-0.1
27-Jun 1:30	0.44	199.8	95.40	18.52	-0.1
27-Jun 2:00	0.57	249.6	98.73	17.51	-0.1
27-Jun 2:30	0.00	0.0	102.36	17.08	-0.2
27-Jun 3:00	0.99	252.4	99.91	17.27	-0.2
27-Jun 3:30	1.23	175.8	103.58	16.47	-0.1
27-Jun 4:00	0.73	243.7	101.84	16.36	-0.1
27-Jun 4:30	1.36	200.8	105.77	16.05	-0.1
27-Jun 5:00	1.42	258.1	104.17	15.77	-0.1
27-Jun 5:30	0.00	0.0	105.68	15.20	2.9
27-Jun 6:00	2.05	231.6	102.51	15.99	20.7
27-Jun 6:30	2.15	239.1	97.39	16.64	76.4
27-Jun 7:00	0.26	157.8	93.29	17.51	150.9
27-Jun 7:30	0.15	209.3	89.89	18.50	230.7
27-Jun 8:00	1.89	188.0	84.08	20.21	322.5
27-Jun 8:30	2.12	157.9	78.51	22.01	414.3
27-Jun 9:00	0.00	0.0	74.24	23.79	512.6
27-Jun 9:30	2.00	171.5	65.55	25.92	609.2
27-Jun 10:00	4.58	187.4	61.90	26.72	704.3
27-Jun 10:30	0.98	199.0	54.38	28.70	774.0
27-Jun 11:00	2.30	276.4	45.25	29.24	833.4
27-Jun 11:30	1.96	210.7	43.94	29.57	945.5
27-Jun 12:00	5.79	278.4	43.50	29.89	906.2
27-Jun 12:30	3.94	270.9	42.63	29.58	1062.0
27-Jun 13:00	5.60	236.2	38.90	30.87	1056.0
27-Jun 13:30	6.92	246.9	37.58	30.63	1068.6
27-Jun 14:00	6.08	241.0	37.10	31.15	1012.4
27-Jun 14:30	9.46	235.5	36.05	30.77	972.1
27-Jun 15:00	7.52	224.4	35.71	31.50	933.4
27-Jun 15:30	7.20	249.0	33.77	31.67	880.4
27-Jun 16:00	5.03	278.5	35.58	32.05	807.3
27-Jun 16:30	4.51	255.6	36.74	31.85	762.8
27-Jun 17:00	6.27	281.6	41.23	31.38	264.3

27-Jun 17:30	3.77	333.2	51.60	29.79	318.8
27-Jun 18:00	1.51	236.3	50.13	30.35	176.6
27-Jun 18:30	0.14	244.4	57.85	29.74	136.0
27-Jun 19:00	0.00	0.0	62.53	29.03	134.9
27-Jun 19:30	0.89	277.3	63.11	28.95	112.4
27-Jun 20:00	0.33	187.9	65.79	28.09	45.7
27-Jun 20:30	2.09	268.9	66.95	27.00	8.1
27-Jun 21:00	0.25	26.3	71.15	25.68	0.2
27-Jun 21:30	0.75	351.1	77.15	24.60	-0.1
27-Jun 22:00	1.80	29.2	84.55	23.96	-0.1
27-Jun 22:30	0.00	0.0	80.85	23.83	-0.1
27-Jun 23:00	3.10	221.4	87.49	22.12	-0.1
27-Jun 23:30	0.00	0.0	91.45	21.41	-0.1
28-Jun 0:00	1.66	8.7	89.68	21.69	-0.1
28-Jun 0:30	1.14	233.4	87.50	21.67	-0.1
28-Jun 1:00	0.00	0.0	91.43	20.76	-0.1
28-Jun 1:30	1.71	201.2	100.45	19.21	-0.1
28-Jun 2:00	0.00	0.0	94.00	20.54	-0.1
28-Jun 2:30	0.00	0.0	94.74	20.37	-0.1
28-Jun 3:00	1.39	102.2	97.23	20.29	-0.1
28-Jun 3:30	2.80	208.4	96.66	19.47	-0.1
28-Jun 4:00	0.46	210.9	99.01	18.84	-0.1
28-Jun 4:30	1.99	210.5	98.63	18.88	-0.1
28-Jun 5:00	1.50	245.6	98.50	18.45	-0.1
28-Jun 5:30	0.00	0.0	102.23	17.82	4.1
28-Jun 6:00	2.98	188.1	98.86	18.50	23.5
28-Jun 6:30	1.77	219.0	98.09	18.46	72.3
28-Jun 7:00	0.00	0.0	92.97	19.44	144.0
28-Jun 7:30	1.55	226.0	88.70	20.61	245.8
28-Jun 8:00	2.06	196.4	80.69	22.62	339.8
28-Jun 8:30	1.34	102.6	74.25	24.03	364.7
28-Jun 9:00	2.45	145.1	67.97	25.55	505.7
28-Jun 9:30	0.08	150.1	60.00	26.96	588.4
28-Jun 10:00	5.45	241.2	55.36	27.66	678.0
28-Jun 10:30	3.87	262.2	55.12	28.01	749.0
28-Jun 11:00	6.37	282.2	51.12	28.98	828.1
28-Jun 11:30	16.73	310.4	47.06	29.34	882.3
28-Jun 12:00	5.86	287.4	49.22	29.35	946.7
28-Jun 12:30	8.50	286.4	48.83	29.75	965.4
28-Jun 13:00	7.28	276.1	47.12	30.43	403.1
28-Jun 13:30	12.29	320.9	46.95	29.91	607.1
28-Jun 14:00	9.67	296.4	42.25	31.18	994.8
28-Jun 14:30	4.99	265.7	42.57	31.44	1039.2
28-Jun 15:00	10.50	308.9	34.50	31.58	950.0
28-Jun 15:30	7.05	297.0	28.70	32.37	902.1
28-Jun 16:00	7.48	323.8	35.72	31.07	829.1
28-Jun 16:30	16.55	321.9	34.89	30.76	735.8
28-Jun 17:00	5.62	303.9	33.97	32.00	638.1
28-Jun 17:30	8.56	279.5	36.06	31.12	476.6
28-Jun 18:00	3.71	319.7	40.48	31.08	419.3

28-Jun 18:30	6.54	307.0	41.57	31.09	326.8
28-Jun 19:00	5.60	320.1	48.28	30.02	218.8
28-Jun 19:30	2.46	324.8	52.16	29.35	128.9
28-Jun 20:00	4.25	334.2	62.47	28.04	51.6
28-Jun 20:30	0.00	0.0	74.06	26.58	5.8
28-Jun 21:00	1.29	81.9	76.36	25.39	0.2
28-Jun 21:30	0.00	0.0	80.78	24.78	-0.1
28-Jun 22:00	0.00	0.0	81.44	24.24	-0.1
28-Jun 22:30	1.69	340.1	86.42	23.50	-0.1
28-Jun 23:00	2.73	175.6	87.62	22.72	-0.1
28-Jun 23:30	2.60	303.6	89.25	21.87	-0.1
29-Jun 0:00	2.08	188.9	94.62	21.13	-0.1
29-Jun 0:30	1.38	225.0	95.53	21.04	-0.1
29-Jun 1:00	0.00	0.0	94.15	21.02	-0.1
29-Jun 1:30	0.00	0.0	93.96	20.95	-0.1
29-Jun 2:00	1.32	203.3	95.00	20.68	-0.1
29-Jun 2:30	1.91	213.7	96.64	20.31	-0.1
29-Jun 3:00	2.56	134.4	93.36	20.51	-0.1
29-Jun 3:30	0.00	0.0	97.58	20.32	-0.1
29-Jun 4:00	0.12	167.9	97.98	20.01	-0.1
29-Jun 4:30	3.22	200.5	103.42	18.82	-0.1
29-Jun 5:00	2.37	214.7	104.83	18.98	-0.1
29-Jun 5:30	2.89	260.3	103.05	18.76	1.9
29-Jun 6:00	2.59	191.0	105.51	18.31	18.8
29-Jun 6:30	2.80	194.1	104.77	17.98	62.7
29-Jun 7:00	2.47	231.7	101.44	18.62	134.0
29-Jun 7:30	1.73	218.2	95.81	19.67	200.9
29-Jun 8:00	0.63	183.5	86.98	21.36	291.1
29-Jun 8:30	0.69	188.3	81.10	22.98	389.9
29-Jun 9:00	0.00	0.0	78.36	24.06	453.7
29-Jun 9:30	1.27	31.3	68.89	27.02	536.7
29-Jun 10:00	0.00	0.0	64.94	27.11	624.0
29-Jun 10:30	2.32	102.8	63.48	26.58	694.3
29-Jun 11:00	0.00	0.0	62.69	27.79	697.5
29-Jun 11:30	2.16	71.5	57.81	29.25	735.4
29-Jun 12:00	4.23	75.8	59.77	27.68	892.0
29-Jun 12:30	3.74	111.1	59.01	28.19	348.8
29-Jun 13:00	3.16	142.9	57.78	28.45	259.1
29-Jun 13:30	2.64	257.3	57.59	28.71	267.2
29-Jun 14:00	3.22	119.7	60.43	28.56	372.2
29-Jun 14:30	4.42	52.8	75.21	27.51	308.8
29-Jun 15:00	2.73	38.8	72.44	27.19	590.7
29-Jun 15:30	2.57	50.7	79.09	26.90	275.8
29-Jun 16:00	2.27	22.8	68.37	28.52	431.4
29-Jun 16:30	4.68	237.8	70.35	26.20	305.7
29-Jun 17:00	3.81	184.6	62.29	26.93	531.9
29-Jun 17:30	1.63	309.4	60.42	28.23	409.6
29-Jun 18:00	1.49	9.8	60.83	28.63	333.7
29-Jun 18:30	0.51	25.5	61.19	28.69	176.7
29-Jun 19:00	0.00	0.0	70.61	27.36	155.9

29-Jun 19:30	1.36	196.9	70.44	27.31	111.8
29-Jun 20:00	1.05	181.1	72.35	27.08	49.7
29-Jun 20:30	0.83	94.5	80.42	25.91	11.9
29-Jun 21:00	1.93	110.9	87.83	24.93	0.3
29-Jun 21:30	1.96	320.1	92.03	24.21	0.0
29-Jun 22:00	1.75	9.7	96.03	23.86	-0.1
29-Jun 22:30	2.14	22.4	96.99	23.53	-0.1
29-Jun 23:00	2.92	352.9	98.26	23.06	-0.1
29-Jun 23:30	0.23	342.7	100.52	22.68	-0.1
30-Jun 0:00	0.00	0.0	102.10	21.84	-0.1
30-Jun 0:30	1.77	197.1	103.55	21.27	0.0
30-Jun 1:00	0.82	245.3	102.94	20.80	-0.1
30-Jun 1:30	3.11	178.7	104.31	20.35	0.0
30-Jun 2:00	0.00	0.0	105.43	20.59	-0.1
30-Jun 2:30	0.33	226.8	105.56	20.80	-0.1
30-Jun 3:00	2.39	269.8	106.21	20.67	-0.1
30-Jun 3:30	2.63	264.9	106.03	20.78	-0.1
30-Jun 4:00	2.31	172.9	107.20	20.44	-0.1
30-Jun 4:30	1.61	221.9	106.83	20.51	-0.1
30-Jun 5:00	2.34	183.5	107.58	19.59	-0.1
30-Jun 5:30	2.48	290.8	107.96	19.50	1.5
30-Jun 6:00	0.52	234.4	108.32	19.27	13.4
30-Jun 6:30	2.38	200.7	108.49	19.57	43.1
30-Jun 7:00	0.00	0.0	108.27	19.85	86.8
30-Jun 7:30	1.54	171.9	108.09	20.15	129.9
30-Jun 8:00	4.00	230.0	101.30	21.51	260.7
30-Jun 8:30	1.63	140.3	88.20	23.59	354.4
30-Jun 9:00	3.66	214.9	81.13	24.90	455.8
30-Jun 9:30	3.50	225.5	74.79	26.25	551.4
30-Jun 10:00	2.58	169.1	71.55	27.26	426.0
30-Jun 10:30	4.96	188.8	67.44	28.37	822.4
30-Jun 11:00	4.29	201.7	63.40	29.33	901.3
30-Jun 11:30	4.80	151.5	59.41	30.22	509.0
30-Jun 12:00	9.83	218.7	52.45	30.37	906.6
30-Jun 12:30	10.71	214.0	51.48	30.69	935.1
30-Jun 13:00	9.81	193.6	49.87	30.93	990.7
30-Jun 13:30	8.63	242.0	47.37	31.23	968.5
30-Jun 14:00	10.16	176.4	46.98	31.77	970.8
30-Jun 14:30	8.94	176.0	45.83	32.07	949.9
30-Jun 15:00	10.33	227.2	47.03	31.69	933.6
30-Jun 15:30	6.66	172.7	47.70	31.64	866.7
30-Jun 16:00	12.36	238.8	44.58	32.11	848.3
30-Jun 16:30	12.00	197.4	47.75	31.61	662.5
30-Jun 17:00	12.46	223.0	44.51	31.49	485.0
30-Jun 17:30	7.52	242.7	49.93	30.00	291.7
30-Jun 18:00	8.87	221.7	49.81	29.48	322.3
30-Jun 18:30	8.14	205.7	48.78	29.70	395.0
30-Jun 19:00	9.17	231.4	49.56	29.49	274.3
30-Jun 19:30	6.77	220.1	53.44	29.00	122.3
30-Jun 20:00	1.75	157.4	60.74	27.92	19.1

30-Jun 20:30	0.00	0.0	65.44	26.91	2.5
30-Jun 21:00	0.00	0.0	68.91	26.23	0.0
30-Jun 21:30	8.19	278.2	95.88	21.74	-0.1
30-Jun 22:00	1.68	169.2	97.30	20.56	-0.1
30-Jun 22:30	3.83	233.5	95.67	20.81	-0.1
30-Jun 23:00	3.22	217.9	95.26	21.05	-0.1
30-Jun 23:30	2.82	123.4	97.62	21.24	-0.1
1-Jul 0:00	0.00	0.0	101.32	20.93	-0.2
1-Jul 0:30	0.00	0.0	99.46	21.08	-0.1
1-Jul 1:00	1.35	180.9	105.06	20.44	-0.1
1-Jul 1:30	3.02	168.2	103.06	20.57	-0.1
1-Jul 2:00	2.90	214.5	106.04	19.93	-0.1
1-Jul 2:30	0.00	0.0	103.51	20.31	-0.1
1-Jul 3:00	1.97	167.3	105.66	20.01	-0.1
1-Jul 3:30	1.87	153.9	105.98	20.06	-0.1
1-Jul 4:00	1.38	181.2	104.92	19.99	-0.1
1-Jul 4:30	1.17	190.5	105.97	19.96	-0.1
1-Jul 5:00	2.75	198.3	106.15	19.78	-0.2
1-Jul 5:30	3.70	145.4	105.01	20.03	0.8
1-Jul 6:00	3.84	240.5	100.84	20.10	11.1
1-Jul 6:30	2.31	147.4	104.57	19.85	39.8
1-Jul 7:00	2.94	175.4	99.33	20.57	128.3
1-Jul 7:30	2.30	159.1	94.75	21.30	201.6
1-Jul 8:00	5.10	166.1	89.68	22.31	274.2
1-Jul 8:30	4.70	187.6	83.52	23.51	431.2
1-Jul 9:00	10.77	201.3	77.17	24.72	361.0
1-Jul 9:30	5.39	220.2	76.82	25.29	312.8
1-Jul 10:00	3.76	208.3	76.78	25.56	419.3
1-Jul 10:30	2.78	188.2	73.62	25.91	502.8
1-Jul 11:00	2.45	197.8	70.53	26.44	365.4
1-Jul 11:30	6.92	211.1	69.53	26.81	444.7
1-Jul 12:00	4.09	174.5	64.64	28.06	682.9
1-Jul 12:30	16.29	207.8	57.63	29.13	588.1
1-Jul 13:00	7.77	185.2	62.33	28.00	371.3
1-Jul 13:30	8.06	215.5	68.40	26.81	113.6
1-Jul 14:00	6.43	160.8	70.10	27.07	369.2
1-Jul 14:30	3.92	154.5	66.49	28.04	1009.1
1-Jul 15:00	6.19	214.6	66.46	27.98	386.7
1-Jul 15:30	5.74	200.9	67.85	27.42	168.7
1-Jul 16:00	29.32	322.0	62.55	24.75	16.1
1-Jul 16:30	5.18	304.7	106.21	18.69	20.1
1-Jul 17:00	4.32	199.4	105.53	18.78	7.6
1-Jul 17:30	5.44	126.1	106.71	18.92	7.9
1-Jul 18:00	2.64	197.1	106.77	19.06	47.9
1-Jul 18:30	4.13	197.4	105.79	18.99	33.6
1-Jul 19:00	5.78	199.8	105.26	19.11	39.5
1-Jul 19:30	3.89	180.6	106.67	19.22	18.0
1-Jul 20:00	4.50	182.7	105.62	19.27	15.7
1-Jul 20:30	4.57	200.3	106.09	19.27	16.9
1-Jul 21:00	6.73	218.9	106.65	19.18	0.4

1-Jul 21:30	3.55	195.7	107.06	19.12	-0.1
1-Jul 22:00	2.14	227.0	107.60	18.86	-0.1
1-Jul 22:30	13.00	308.9	79.07	18.60	-0.1
1-Jul 23:00	4.16	314.8	76.03	16.94	-0.1
1-Jul 23:30	1.22	45.3	75.51	15.84	-0.1
2-Jul 0:00	2.27	310.1	65.47	14.92	-0.1
2-Jul 0:30	2.29	273.0	66.11	14.53	-0.1
2-Jul 1:00	11.11	301.5	67.06	13.97	-0.1
2-Jul 1:30	4.61	260.2	69.96	13.22	-0.2
2-Jul 2:00	9.76	295.6	60.44	13.29	-0.2
2-Jul 2:30	6.43	271.9	58.02	13.02	-0.1
2-Jul 3:00	2.85	267.4	62.58	12.39	-0.1
2-Jul 3:30	3.26	260.2	65.40	12.00	-0.1
2-Jul 4:00	5.65	251.0	67.37	11.47	-0.1
2-Jul 4:30	5.06	264.0	69.31	11.11	-0.2
2-Jul 5:00	6.01	277.8	67.80	11.06	-0.1
2-Jul 5:30	2.67	206.1	68.68	10.67	2.7
2-Jul 6:00	5.16	261.3	64.47	10.95	13.8
2-Jul 6:30	3.85	199.8	63.84	11.50	72.8
2-Jul 7:00	4.80	232.8	61.83	12.03	214.8
2-Jul 7:30	20.14	322.2	56.21	12.62	270.3
2-Jul 8:00	8.55	252.2	55.80	12.80	361.7
2-Jul 8:30	14.60	306.7	56.22	12.84	421.8
2-Jul 9:00	14.07	334.9	55.08	13.28	580.9
2-Jul 9:30	18.77	334.9	52.88	13.42	678.6
2-Jul 10:00	20.51	283.9	49.64	13.95	757.6
2-Jul 10:30	8.35	283.1	50.86	15.04	831.7
2-Jul 11:00	12.44	305.6	47.05	15.65	906.9
2-Jul 11:30	11.79	334.4	47.18	15.74	965.8
2-Jul 12:00	15.96	319.2	42.41	16.92	1015.9
2-Jul 12:30	16.10	309.6	40.75	17.44	1000.8
2-Jul 13:00	17.22	306.2	40.19	17.88	1069.9
2-Jul 13:30	12.45	337.4	40.85	18.01	1071.9
2-Jul 14:00	10.28	306.8	37.80	18.77	1059.1
2-Jul 14:30	11.21	329.8	40.94	18.89	1029.4
2-Jul 15:00	12.79	297.5	36.56	20.06	1002.3
2-Jul 15:30	13.03	309.7	37.46	20.40	939.7
2-Jul 16:00	16.85	313.4	35.84	20.48	874.8
2-Jul 16:30	15.23	318.9	38.00	20.17	797.5
2-Jul 17:00	9.61	288.5	35.47	21.14	708.4
2-Jul 17:30	9.07	317.0	34.93	20.48	604.2
2-Jul 18:00	3.74	328.2	40.41	20.90	503.7
2-Jul 18:30	10.07	274.5	35.16	21.15	392.4
2-Jul 19:00	6.36	259.2	37.64	20.75	284.3
2-Jul 19:30	3.38	250.7	40.20	20.51	181.1
2-Jul 20:00	2.06	252.5	43.69	20.07	87.8
2-Jul 20:30	2.05	262.5	61.89	16.60	8.5
2-Jul 21:00	2.98	234.8	64.85	15.36	0.2
2-Jul 21:30	2.54	357.4	76.29	15.12	-0.1
2-Jul 22:00	3.88	6.9	74.70	14.75	-0.2

2-Jul 22:30	2.73	288.4	76.70	13.58	-0.1
2-Jul 23:00	3.22	256.1	82.52	11.75	-0.1
2-Jul 23:30	3.56	268.2	84.19	11.53	-0.1
3-Jul 0:00	0.00	0.0	93.53	11.73	-0.1
3-Jul 0:30	2.30	313.5	91.85	11.37	-0.1
3-Jul 1:00	2.35	229.1	92.78	10.27	-0.2
3-Jul 1:30	2.03	274.4	94.03	10.20	-0.2
3-Jul 2:00	3.85	28.3	95.31	10.91	-0.1
3-Jul 2:30	2.10	179.5	99.90	8.98	0.0
3-Jul 3:00	5.01	324.2	102.65	9.55	-0.1
3-Jul 3:30	2.13	11.1	101.77	9.57	-0.1
3-Jul 4:00	2.75	190.2	102.99	8.16	-0.2
3-Jul 4:30	3.25	187.5	104.17	7.14	-0.2
3-Jul 5:00	1.60	210.7	106.56	7.95	-0.1
3-Jul 5:30	0.72	267.1	107.59	7.77	1.8
3-Jul 6:00	2.63	307.3	106.93	8.09	18.7
3-Jul 6:30	0.00	0.0	107.01	7.98	33.1
3-Jul 7:00	4.01	208.5	106.39	8.38	84.1
3-Jul 7:30	2.02	200.0	105.42	9.21	146.5
3-Jul 8:00	5.29	25.5	91.79	12.50	332.1
3-Jul 8:30	4.96	31.3	78.33	14.14	442.7
3-Jul 9:00	3.42	39.5	70.55	15.50	543.8
3-Jul 9:30	2.42	52.9	68.77	16.72	636.9
3-Jul 10:00	3.44	355.7	60.32	18.53	728.2
3-Jul 10:30	3.89	155.5	50.90	19.63	804.0
3-Jul 11:00	6.57	163.6	49.76	20.75	878.8
3-Jul 11:30	3.06	173.6	50.51	21.13	922.0
3-Jul 12:00	7.14	212.9	45.30	21.15	973.3
3-Jul 12:30	7.50	167.5	44.66	22.16	1006.2
3-Jul 13:00	6.47	207.4	43.40	23.35	1066.1
3-Jul 13:30	3.70	115.8	43.53	23.56	595.1
3-Jul 14:00	11.20	149.1	45.05	23.22	1018.6
3-Jul 14:30	4.60	204.8	49.59	23.10	337.5
3-Jul 15:00	7.28	185.1	49.15	23.24	358.1
3-Jul 15:30	7.06	221.2	45.46	24.61	770.7
3-Jul 16:00	6.02	208.5	54.23	22.78	121.7
3-Jul 16:30	11.32	179.9	50.21	23.26	401.7
3-Jul 17:00	4.13	155.5	56.25	22.79	157.4
3-Jul 17:30	6.24	200.2	58.77	22.36	210.6
3-Jul 18:00	3.34	222.8	59.26	22.70	253.0
3-Jul 18:30	3.65	178.7	61.55	22.68	324.7
3-Jul 19:00	4.05	190.5	64.87	22.30	102.8
3-Jul 19:30	6.54	184.8	67.59	21.95	47.7
3-Jul 20:00	3.51	168.1	69.12	21.54	25.7
3-Jul 20:30	4.16	157.0	69.17	21.11	8.5
3-Jul 21:00	1.99	221.8	71.31	20.70	0.2
3-Jul 21:30	2.34	245.3	73.27	20.33	-0.1
3-Jul 22:00	3.65	211.0	73.38	20.15	-0.1
3-Jul 22:30	4.24	204.8	74.78	19.98	-0.1
3-Jul 23:00	1.94	184.2	77.38	19.49	-0.1

3-Jul 23:30	1.96	214.4	76.77	19.47	-0.1
4-Jul 0:00	0.82	168.6	81.86	18.77	-0.1
4-Jul 0:30	0.21	153.4	80.38	18.85	-0.1
4-Jul 1:00	0.95	216.8	90.73	18.00	-0.1
4-Jul 1:30	0.00	0.0	90.88	18.15	-0.1
4-Jul 2:00	1.48	241.3	98.42	17.58	-0.1
4-Jul 2:30	1.98	154.4	106.01	16.98	-0.1
4-Jul 3:00	1.68	221.8	107.30	16.99	-0.1
4-Jul 3:30	1.44	245.9	108.07	16.98	-0.1
4-Jul 4:00	1.99	288.7	108.33	17.16	-0.1
4-Jul 4:30	0.00	0.0	108.36	16.92	-0.1
4-Jul 5:00	0.00	0.0	107.67	16.96	-0.1
4-Jul 5:30	1.54	300.1	106.52	17.19	0.7
4-Jul 6:00	1.74	191.5	107.66	16.88	6.3
4-Jul 6:30	0.69	249.0	107.46	16.96	24.9
4-Jul 7:00	1.93	190.6	107.79	16.91	46.6
4-Jul 7:30	0.85	211.7	107.58	17.46	103.2
4-Jul 8:00	2.78	196.7	105.79	17.85	70.4
4-Jul 8:30	2.40	137.4	103.94	18.30	77.0
4-Jul 9:00	1.55	272.8	102.02	18.68	182.2
4-Jul 9:30	1.68	3.2	99.58	18.86	141.1
4-Jul 10:00	0.00	0.0	97.90	19.34	94.6
4-Jul 10:30	0.00	0.0	95.03	20.08	165.3
4-Jul 11:00	1.24	61.3	90.03	21.06	356.2
4-Jul 11:30	0.00	0.0	83.14	22.72	360.3
4-Jul 12:00	2.44	244.5	81.85	22.57	591.2
4-Jul 12:30	4.61	147.7	77.87	23.11	409.1
4-Jul 13:00	3.09	94.6	72.32	24.17	806.2
4-Jul 13:30	5.89	232.2	69.51	24.32	466.6
4-Jul 14:00	7.25	195.9	65.89	25.03	599.6
4-Jul 14:30	3.58	229.9	64.74	25.56	815.9
4-Jul 15:00	7.51	214.6	61.40	26.31	1056.0
4-Jul 15:30	6.70	186.8	61.20	26.72	969.7
4-Jul 16:00	7.26	191.6	57.17	26.61	802.7
4-Jul 16:30	4.45	189.6	61.73	26.25	308.0
4-Jul 17:00	6.18	154.3	60.12	26.82	577.3
4-Jul 17:30	2.63	174.6	59.75	27.11	483.4
4-Jul 18:00	7.37	173.5	63.32	26.31	137.8
4-Jul 18:30	3.79	193.9	67.30	25.69	70.3
4-Jul 19:00	0.28	146.0	74.43	25.15	42.5
4-Jul 19:30	18.14	304.8	70.22	23.45	2.9
4-Jul 20:00	1.89	291.6	99.56	19.86	3.8
4-Jul 20:30	0.51	141.6	107.03	19.30	0.9
4-Jul 21:00	4.76	165.6	107.61	19.36	0.0
4-Jul 21:30	4.56	174.5	106.11	18.96	-0.1
4-Jul 22:00	1.95	114.3	107.16	18.93	-0.1
4-Jul 22:30	0.35	181.8	105.71	18.93	-0.1
4-Jul 23:00	0.00	0.0	108.07	18.69	-0.1
4-Jul 23:30	4.18	236.2	107.89	18.62	-0.1
5-Jul 0:00	1.82	124.9	108.27	18.66	-0.1

5-Jul 0:30	2.32	209.9	108.36	18.52	-0.1
5-Jul 1:00	3.14	190.3	108.34	18.47	-0.1
5-Jul 1:30	2.30	179.4	108.49	18.43	-0.1
5-Jul 2:00	1.77	206.0	108.47	18.46	-0.1
5-Jul 2:30	5.04	228.2	108.35	18.14	-0.1
5-Jul 3:00	4.25	214.3	108.57	17.89	-0.1
5-Jul 3:30	0.00	0.0	108.68	17.89	-0.1
5-Jul 4:00	2.71	200.1	108.67	17.78	-0.1
5-Jul 4:30	2.63	166.3	108.71	17.52	-0.1
5-Jul 5:00	3.44	207.8	108.79	17.37	-0.1
5-Jul 5:30	3.12	199.5	108.86	17.02	1.2
5-Jul 6:00	2.38	172.9	108.89	17.08	22.9
5-Jul 6:30	3.17	188.1	108.59	17.34	71.0
5-Jul 7:00	2.07	152.8	108.20	17.35	86.1
5-Jul 7:30	4.38	163.0	103.91	18.35	230.4
5-Jul 8:00	3.27	214.8	101.09	19.03	314.3
5-Jul 8:30	2.77	204.2	96.30	20.33	290.8
5-Jul 9:00	6.66	201.6	92.71	21.41	541.5
5-Jul 9:30	1.87	230.8	87.18	22.71	734.2
5-Jul 10:00	5.43	198.2	79.36	23.25	305.5
5-Jul 10:30	6.15	200.4	78.52	22.88	253.2
5-Jul 11:00	5.56	216.9	71.45	23.96	935.8
5-Jul 11:30	6.91	184.6	73.60	24.02	286.3
5-Jul 12:00	6.66	231.2	67.29	24.48	437.7
5-Jul 12:30	8.97	189.1	59.92	25.41	1044.7
5-Jul 13:00	6.81	204.5	57.73	25.49	326.6
5-Jul 13:30	9.74	188.9	55.76	25.60	793.2
5-Jul 14:00	4.27	138.4	48.38	26.66	998.8
5-Jul 14:30	12.11	222.4	44.10	26.80	861.6
5-Jul 15:00	7.20	229.1	39.29	27.06	913.0
5-Jul 15:30	11.34	229.0	38.30	27.80	963.9
5-Jul 16:00	3.46	211.4	36.28	28.01	905.2
5-Jul 16:30	9.80	234.1	38.80	27.65	582.8
5-Jul 17:00	6.26	199.0	41.74	27.10	754.7
5-Jul 17:30	5.18	234.9	47.59	26.34	154.3
5-Jul 18:00	8.50	288.6	78.97	21.74	6.4
5-Jul 18:30	6.63	179.4	102.31	17.66	5.7
5-Jul 19:00	1.76	141.4	105.98	17.37	10.2
5-Jul 19:30	2.38	212.9	107.11	17.05	18.4
5-Jul 20:00	1.96	207.2	107.60	16.79	12.3
5-Jul 20:30	0.00	0.0	107.48	16.66	6.7
5-Jul 21:00	0.00	0.0	107.83	16.43	0.1
5-Jul 21:30	1.31	224.1	108.35	16.30	-0.2
5-Jul 22:00	1.01	142.8	108.57	16.12	-0.1
5-Jul 22:30	1.53	209.6	108.63	15.99	-0.2
5-Jul 23:00	3.94	199.2	108.34	16.21	-0.1
5-Jul 23:30	3.64	220.2	108.34	16.08	-0.1
6-Jul 0:00	3.01	184.6	108.63	16.04	-0.2
6-Jul 0:30	3.24	189.8	108.41	15.54	-0.2
6-Jul 1:00	2.87	124.5	108.01	15.73	-0.2

6-Jul 1:30	2.37	140.5	107.44	15.67	-0.2
6-Jul 2:00	2.75	281.8	97.16	15.17	-0.2
6-Jul 2:30	11.70	303.3	87.27	14.53	-0.2
6-Jul 3:00	3.52	289.8	87.34	13.68	-0.1
6-Jul 3:30	1.36	101.1	88.65	13.60	-0.1
6-Jul 4:00	4.24	296.6	84.83	12.80	-0.1
6-Jul 4:30	1.84	188.8	86.35	12.42	-0.1
6-Jul 5:00	3.25	229.3	79.57	12.66	-0.1
6-Jul 5:30	0.00	0.0	91.20	11.79	2.2
6-Jul 6:00	0.95	161.0	94.14	11.38	30.3
6-Jul 6:30	0.00	0.0	100.69	11.09	107.9
6-Jul 7:00	1.61	148.8	95.98	12.26	192.1
6-Jul 7:30	2.17	152.9	82.81	13.94	262.4
6-Jul 8:00	3.74	169.2	80.87	14.74	347.5
6-Jul 8:30	5.89	248.7	69.61	16.06	447.0
6-Jul 9:00	4.43	255.2	68.37	16.23	305.2
6-Jul 9:30	7.55	250.9	59.08	16.64	705.4
6-Jul 10:00	11.88	303.4	53.83	17.50	773.4
6-Jul 10:30	9.69	265.2	56.25	17.99	871.6
6-Jul 11:00	12.24	301.0	51.05	18.71	1008.1
6-Jul 11:30	8.26	259.9	51.55	19.20	1111.2
6-Jul 12:00	7.63	231.4	51.95	19.04	354.5
6-Jul 12:30	7.65	296.2	48.10	19.66	974.5
6-Jul 13:00	8.14	259.8	49.16	20.08	819.1
6-Jul 13:30	5.37	285.6	47.93	20.15	330.5
6-Jul 14:00	9.15	311.8	45.75	21.41	1217.6
6-Jul 14:30	10.69	316.8	46.49	20.60	482.2
6-Jul 15:00	11.40	298.7	43.84	21.05	303.1
6-Jul 15:30	5.94	288.2	45.37	21.10	230.3
6-Jul 16:00	6.55	250.9	44.97	21.13	266.2
6-Jul 16:30	9.88	290.5	44.24	21.21	241.6
6-Jul 17:00	14.28	309.0	42.91	21.76	694.2
6-Jul 17:30	7.57	312.3	43.75	21.91	118.4
6-Jul 18:00	6.22	314.3	44.50	21.54	477.8
6-Jul 18:30	5.13	302.6	43.87	22.14	372.8
6-Jul 19:00	4.59	297.5	45.05	21.66	265.3
6-Jul 19:30	5.30	317.7	46.67	21.85	163.0
6-Jul 20:00	3.47	310.3	53.69	20.75	73.4
6-Jul 20:30	2.90	346.6	71.92	18.72	7.7
6-Jul 21:00	3.86	53.4	77.89	17.59	0.0
6-Jul 21:30	3.35	81.5	79.12	17.18	-0.1
6-Jul 22:00	0.00	0.0	83.44	15.79	-0.1
6-Jul 22:30	1.73	190.4	85.45	15.18	-0.1
6-Jul 23:00	2.88	182.7	89.57	13.70	-0.1
6-Jul 23:30	0.00	0.0	90.24	13.60	-0.1
7-Jul 0:00	2.43	188.4	95.87	12.29	-0.1
7-Jul 0:30	1.06	212.8	96.83	11.99	-0.1
7-Jul 1:00	3.05	181.2	97.51	12.16	-0.2
7-Jul 1:30	2.27	232.7	102.76	11.07	-0.2
7-Jul 2:00	0.48	256.6	100.32	11.58	-0.1

7-Jul 2:30	2.75	217.5	102.11	10.90	-0.1
7-Jul 3:00	2.38	245.2	103.41	10.65	-0.1
7-Jul 3:30	2.35	246.7	103.89	10.46	-0.1
7-Jul 4:00	2.07	229.8	106.08	10.68	-0.1
7-Jul 4:30	3.28	191.2	106.59	9.73	-0.2
7-Jul 5:00	2.77	181.1	107.42	9.65	-0.1
7-Jul 5:30	2.24	192.5	108.57	9.99	0.5
7-Jul 6:00	1.52	257.3	108.98	9.75	7.0
7-Jul 6:30	0.00	0.0	109.00	9.56	38.9
7-Jul 7:00	1.07	170.2	109.02	9.69	99.9
7-Jul 7:30	1.55	248.4	108.79	10.38	145.9
7-Jul 8:00	1.59	139.7	103.47	11.83	355.5
7-Jul 8:30	2.98	223.6	91.67	13.49	429.3
7-Jul 9:00	2.10	188.5	85.91	15.27	545.9
7-Jul 9:30	1.92	138.0	72.16	18.01	653.8
7-Jul 10:00	4.63	231.8	63.56	19.84	799.6
7-Jul 10:30	1.39	144.7	58.87	21.44	816.0
7-Jul 11:00	4.13	179.1	51.25	22.13	883.9
7-Jul 11:30	7.29	201.1	45.77	23.32	928.5
7-Jul 12:00	7.96	227.7	43.56	24.18	990.0
7-Jul 12:30	5.15	141.6	42.65	24.38	1053.6
7-Jul 13:00	8.89	177.3	42.09	24.15	1064.5
7-Jul 13:30	12.31	194.4	34.19	24.91	1053.9
7-Jul 14:00	7.16	220.6	35.30	25.27	1047.6
7-Jul 14:30	8.79	185.0	37.29	24.80	1030.9
7-Jul 15:00	10.50	180.6	36.67	25.34	767.9
7-Jul 15:30	7.82	196.0	35.75	25.27	903.0
7-Jul 16:00	8.94	218.3	34.51	25.80	817.0
7-Jul 16:30	12.24	192.4	34.99	26.05	764.0
7-Jul 17:00	9.82	201.1	38.28	25.91	496.6
7-Jul 17:30	2.39	168.7	40.60	25.64	280.1
7-Jul 18:00	8.67	203.2	41.67	25.58	212.8
7-Jul 18:30	3.74	181.3	46.03	24.82	243.3
7-Jul 19:00	2.72	211.5	48.56	24.59	96.9
7-Jul 19:30	1.80	115.6	53.29	24.05	80.7
7-Jul 20:00	2.41	140.2	57.80	23.68	26.4
7-Jul 20:30	1.30	268.8	56.03	23.24	1.6
7-Jul 21:00	0.34	113.4	68.02	22.21	0.0
7-Jul 21:30	3.35	233.2	58.69	22.58	-0.1
7-Jul 22:00	0.63	261.8	68.59	21.36	-0.1
7-Jul 22:30	2.35	235.3	68.41	21.39	-0.1
7-Jul 23:00	2.68	188.3	66.49	21.58	-0.1
7-Jul 23:30	0.00	0.0	70.90	21.56	-0.1
8-Jul 0:00	2.01	186.6	71.03	21.17	-0.1
8-Jul 0:30	0.15	188.3	71.38	21.17	-0.1
8-Jul 1:00	0.00	0.0	71.97	21.13	-0.1
8-Jul 1:30	3.09	157.6	71.40	21.06	-0.1
8-Jul 2:00	2.75	199.1	72.03	20.91	-0.1
8-Jul 2:30	1.73	285.6	76.08	20.54	-0.1
8-Jul 3:00	2.40	185.9	77.06	20.33	-0.1

8-Jul 3:30	0.00	0.0	75.36	20.49	-0.1
8-Jul 4:00	0.00	0.0	76.05	20.41	-0.1
8-Jul 4:30	1.82	194.6	79.34	20.07	-0.1
8-Jul 5:00	1.24	159.6	80.06	19.99	-0.1
8-Jul 5:30	3.91	189.0	80.53	19.97	0.1
8-Jul 6:00	1.59	284.7	91.24	18.91	0.8
8-Jul 6:30	6.27	336.7	106.34	18.10	2.0
8-Jul 7:00	1.76	40.6	106.83	17.92	3.6
8-Jul 7:30	5.20	38.6	106.49	17.92	30.6
8-Jul 8:00	3.45	49.2	107.36	17.88	35.3
8-Jul 8:30	2.96	19.4	107.54	18.05	15.4
8-Jul 9:00	1.00	213.9	106.90	18.12	53.9
8-Jul 9:30	0.00	0.0	106.04	18.33	72.3
8-Jul 10:00	2.45	118.1	104.35	18.48	81.8
8-Jul 10:30	3.49	123.8	102.49	18.73	139.4
8-Jul 11:00	2.20	267.6	102.83	19.07	133.1
8-Jul 11:30	0.00	0.0	101.32	19.59	202.2
8-Jul 12:00	2.44	179.2	97.77	19.85	187.3
8-Jul 12:30	3.86	188.8	96.72	19.99	176.8
8-Jul 13:00	1.46	177.4	95.50	20.32	191.9
8-Jul 13:30	1.24	257.0	94.32	20.77	257.6
8-Jul 14:00	1.08	129.5	90.28	21.12	300.6
8-Jul 14:30	4.90	225.6	85.77	21.94	333.4
8-Jul 15:00	2.65	161.4	84.97	22.36	285.6
8-Jul 15:30	0.99	153.8	77.22	23.96	946.2
8-Jul 16:00	4.29	215.4	80.41	23.55	396.0
8-Jul 16:30	4.23	196.2	79.88	23.75	277.8
8-Jul 17:00	2.23	179.5	82.33	23.57	140.6
8-Jul 17:30	2.00	109.5	81.05	24.12	444.7
8-Jul 18:00	2.08	116.7	81.08	23.96	119.2
8-Jul 18:30	2.89	182.1	85.18	23.22	96.9
8-Jul 19:00	2.86	137.1	85.13	23.24	121.2
8-Jul 19:30	4.66	124.4	85.46	23.07	24.5
8-Jul 20:00	3.39	120.8	88.44	22.63	10.1
8-Jul 20:30	1.66	180.7	90.41	22.54	3.7
8-Jul 21:00	4.28	156.9	91.70	22.00	0.0
8-Jul 21:30	0.00	0.0	98.00	21.23	-0.1
8-Jul 22:00	0.00	0.0	100.47	21.21	-0.1
8-Jul 22:30	0.00	0.0	100.68	20.94	-0.1
8-Jul 23:00	1.57	48.3	102.27	21.05	-0.1
8-Jul 23:30	1.64	53.8	104.04	20.66	-0.1
9-Jul 0:00	3.15	151.0	100.50	20.85	-0.1
9-Jul 0:30	4.68	19.0	97.65	21.10	-0.1
9-Jul 1:00	1.49	305.7	100.57	20.61	-0.1
9-Jul 1:30	2.23	179.2	106.22	19.91	-0.1
9-Jul 2:00	2.76	282.4	106.40	19.52	-0.1
9-Jul 2:30	0.66	261.3	106.47	19.06	-0.1
9-Jul 3:00	1.24	210.5	104.97	18.38	-0.1
9-Jul 3:30	1.26	206.0	93.96	19.28	-0.1
9-Jul 4:00	1.17	225.2	107.10	17.15	-0.1

9-Jul 4:30	1.98	151.2	108.55	17.56	-0.1
9-Jul 5:00	0.00	0.0	108.68	17.70	-0.1
9-Jul 5:30	0.41	251.0	108.52	17.22	1.3
9-Jul 6:00	3.30	176.7	108.65	16.09	15.5
9-Jul 6:30	2.84	231.7	108.36	15.80	57.0
9-Jul 7:00	0.00	0.0	108.39	16.30	93.9
9-Jul 7:30	2.78	218.9	106.46	16.94	242.4
9-Jul 8:00	2.30	166.4	103.87	18.11	305.1
9-Jul 8:30	1.95	163.4	90.32	20.77	416.7
9-Jul 9:00	0.87	207.6	74.06	23.46	525.6
9-Jul 9:30	2.42	93.2	72.59	24.13	617.0
9-Jul 10:00	3.26	122.9	62.46	24.79	707.7
9-Jul 10:30	0.07	97.8	56.31	26.20	791.2
9-Jul 11:00	9.57	354.6	47.33	26.35	865.2
9-Jul 11:30	5.18	39.1	46.67	27.20	916.6
9-Jul 12:00	2.16	308.1	48.78	28.13	980.0
9-Jul 12:30	5.23	323.6	43.69	28.22	987.6
9-Jul 13:00	7.08	272.7	40.98	28.87	1024.5
9-Jul 13:30	7.81	277.0	37.86	29.70	1018.4
9-Jul 14:00	4.32	289.9	35.61	30.49	1020.0
9-Jul 14:30	7.43	304.1	35.55	30.12	987.0
9-Jul 15:00	7.97	305.5	33.98	31.06	946.9
9-Jul 15:30	1.63	231.0	36.53	30.85	886.3
9-Jul 16:00	1.45	263.7	35.24	31.41	803.5
9-Jul 16:30	7.71	265.6	38.16	30.85	740.7
9-Jul 17:00	5.76	282.6	38.71	31.41	638.3
9-Jul 17:30	4.12	228.8	42.17	30.76	606.5
9-Jul 18:00	4.24	228.3	42.47	30.23	260.4
9-Jul 18:30	4.96	228.4	44.14	30.06	328.7
9-Jul 19:00	0.11	213.9	48.54	29.53	110.2
9-Jul 19:30	1.15	238.9	50.72	29.02	173.9
9-Jul 20:00	0.00	0.0	63.86	27.64	32.0
9-Jul 20:30	0.00	0.0	68.37	25.71	6.1
9-Jul 21:00	0.00	0.0	77.41	24.62	0.0
9-Jul 21:30	0.00	0.0	79.30	23.85	-0.1
9-Jul 22:00	0.00	0.0	86.14	23.04	-0.1
9-Jul 22:30	0.20	200.3	84.03	22.09	-0.1
9-Jul 23:00	0.00	0.0	83.57	22.03	-0.1
9-Jul 23:30	0.00	0.0	85.48	21.43	-0.1
10-Jul 0:00	0.00	0.0	87.67	21.10	-0.1
10-Jul 0:30	0.00	0.0	89.82	20.59	-0.1
10-Jul 1:00	2.43	248.8	87.76	20.43	-0.1
10-Jul 1:30	1.17	196.0	93.93	19.52	-0.1
10-Jul 2:00	0.00	0.0	95.60	19.31	-0.1
10-Jul 2:30	0.07	215.4	97.44	18.77	-0.1
10-Jul 3:00	0.00	0.0	96.83	18.62	-0.2
10-Jul 3:30	0.00	0.0	95.37	18.66	-0.1
10-Jul 4:00	1.69	231.6	96.69	18.32	-0.1
10-Jul 4:30	2.43	235.9	99.57	17.26	-0.1
10-Jul 5:00	0.71	253.1	98.14	17.67	-0.1

10-Jul 5:30	2.27	227.2	101.45	16.84	1.2
10-Jul 6:00	1.99	236.4	105.03	16.26	14.8
10-Jul 6:30	0.00	0.0	101.29	16.78	67.3
10-Jul 7:00	1.29	209.6	97.70	17.25	75.7
10-Jul 7:30	0.62	238.6	89.79	19.04	227.1
10-Jul 8:00	1.55	163.5	83.40	20.72	308.4
10-Jul 8:30	1.54	168.0	81.70	21.49	405.8
10-Jul 9:00	1.50	253.2	74.02	23.38	513.5
10-Jul 9:30	5.33	185.3	70.09	24.30	641.4
10-Jul 10:00	4.12	196.8	65.28	25.72	700.8
10-Jul 10:30	1.99	154.1	59.21	27.46	787.9
10-Jul 11:00	3.74	206.5	51.32	28.47	1083.6
10-Jul 11:30	4.90	238.3	51.36	28.53	950.2
10-Jul 12:00	7.29	260.1	51.43	28.72	929.9
10-Jul 12:30	7.48	290.3	47.61	29.52	1061.7
10-Jul 13:00	5.45	247.6	45.61	28.87	416.0
10-Jul 13:30	4.22	232.5	46.42	29.39	671.8
10-Jul 14:00	4.64	226.0	53.56	28.00	264.1
10-Jul 14:30	4.39	243.4	56.89	27.24	184.0
10-Jul 15:00	2.79	243.2	59.83	27.01	217.0
10-Jul 15:30	5.19	206.1	56.45	27.77	321.4
10-Jul 16:00	8.89	193.3	55.22	27.95	829.9
10-Jul 16:30	8.38	201.1	50.68	28.34	830.1
10-Jul 17:00	5.78	179.0	51.21	27.88	373.4
10-Jul 17:30	9.43	211.3	53.51	27.92	204.5
10-Jul 18:00	6.17	307.0	86.07	21.60	8.5
10-Jul 18:30	2.07	164.3	104.76	19.36	20.3
10-Jul 19:00	2.43	240.3	104.88	19.53	143.9
10-Jul 19:30	3.92	210.5	101.32	20.37	183.4
10-Jul 20:00	3.92	187.7	103.17	20.69	48.0
10-Jul 20:30	2.18	160.2	103.65	20.04	7.0
10-Jul 21:00	0.00	0.0	107.17	19.19	0.0
10-Jul 21:30	0.00	0.0	107.74	18.66	-0.1
10-Jul 22:00	1.74	201.9	107.68	18.24	-0.1
10-Jul 22:30	2.44	143.6	108.44	17.99	-0.1
10-Jul 23:00	1.54	173.3	108.53	17.43	-0.2
10-Jul 23:30	1.70	271.0	108.70	17.16	-0.1
11-Jul 0:00	0.00	0.0	108.75	16.99	-0.2
11-Jul 0:30	0.07	235.4	108.88	16.58	-0.1
11-Jul 1:00	1.82	220.2	108.94	16.38	-0.1
11-Jul 1:30	1.44	204.9	109.02	16.46	-0.1
11-Jul 2:00	2.23	236.3	109.10	16.44	-0.1
11-Jul 2:30	0.00	0.0	109.10	16.29	-0.1
11-Jul 3:00	0.18	170.6	109.15	16.27	-0.1
11-Jul 3:30	0.00	0.0	109.17	16.32	-0.1
11-Jul 4:00	2.15	133.4	109.24	16.40	-0.1
11-Jul 4:30	1.82	168.2	109.28	16.30	-0.1
11-Jul 5:00	1.42	243.1	109.33	16.41	-0.1
11-Jul 5:30	4.32	292.1	109.32	16.17	0.0
11-Jul 6:00	7.46	17.3	98.97	15.87	0.5

11-Jul 6:30	5.88	50.4	105.53	16.03	4.6
11-Jul 7:00	3.80	344.9	106.36	16.11	4.0
11-Jul 7:30	2.56	17.4	106.57	16.42	54.7
11-Jul 8:00	2.50	182.6	107.18	16.71	88.1
11-Jul 8:30	3.86	235.6	104.00	17.58	202.9
11-Jul 9:00	4.48	206.9	98.14	18.41	376.5
11-Jul 9:30	3.96	206.9	91.65	19.58	667.7
11-Jul 10:00	0.00	0.0	90.66	20.59	732.9
11-Jul 10:30	1.26	35.7	77.07	22.83	432.1
11-Jul 11:00	4.43	273.4	74.04	21.87	189.6
11-Jul 11:30	3.89	229.0	72.13	21.22	249.1
11-Jul 12:00	6.34	279.8	67.92	22.05	280.2
11-Jul 12:30	6.13	296.8	62.10	23.46	274.4
11-Jul 13:00	2.30	249.9	56.47	24.13	1274.5
11-Jul 13:30	12.73	290.4	54.83	23.93	1055.3
11-Jul 14:00	5.72	287.2	49.28	24.77	1141.9
11-Jul 14:30	8.83	306.8	43.46	24.91	268.4
11-Jul 15:00	13.37	310.5	43.36	25.03	539.0
11-Jul 15:30	8.62	249.7	45.17	24.77	928.5
11-Jul 16:00	6.46	263.9	42.08	25.07	247.8
11-Jul 16:30	4.40	277.5	41.83	25.96	760.4
11-Jul 17:00	7.09	261.7	47.73	23.84	225.9
11-Jul 17:30	9.35	265.9	44.21	24.83	579.4
11-Jul 18:00	3.94	260.6	45.30	24.84	468.0
11-Jul 18:30	6.74	242.7	45.36	24.26	368.8
11-Jul 19:00	2.40	278.7	49.69	23.56	140.5
11-Jul 19:30	3.61	245.9	50.06	23.60	52.8
11-Jul 20:00	1.26	263.3	53.43	22.01	23.9
11-Jul 20:30	1.79	299.9	62.77	21.18	5.0
11-Jul 21:00	1.86	258.2	60.30	20.79	0.2
11-Jul 21:30	3.74	310.8	58.10	20.17	-0.1
11-Jul 22:00	1.63	340.7	79.30	18.45	-0.1
11-Jul 22:30	2.88	307.3	69.56	18.04	-0.1
11-Jul 23:00	0.00	0.0	71.00	17.68	-0.1
11-Jul 23:30	2.17	222.1	74.45	16.85	-0.1
12-Jul 0:00	2.68	176.3	73.82	16.67	-0.1
12-Jul 0:30	1.80	249.2	77.21	15.85	-0.1
12-Jul 1:00	2.15	151.3	75.35	16.27	-0.1
12-Jul 1:30	0.66	176.0	87.28	14.61	-0.1
12-Jul 2:00	4.77	259.2	90.54	14.17	-0.2
12-Jul 2:30	1.76	144.0	96.97	13.31	-0.1
12-Jul 3:00	2.02	286.5	99.26	12.88	-0.1
12-Jul 3:30	1.53	191.5	89.78	14.01	-0.1
12-Jul 4:00	3.21	144.0	82.31	15.12	-0.1
12-Jul 4:30	0.94	177.1	85.82	14.29	-0.1
12-Jul 5:00	1.24	158.6	85.22	14.24	-0.1
12-Jul 5:30	1.60	172.4	84.16	14.40	1.3
12-Jul 6:00	2.22	141.3	85.40	14.01	11.5
12-Jul 6:30	1.27	144.6	80.28	15.11	52.3
12-Jul 7:00	1.74	177.7	85.17	14.69	144.4

12-Jul 7:30	1.60	237.8	77.37	16.48	232.0
12-Jul 8:00	3.66	164.0	73.92	17.16	328.0
12-Jul 8:30	1.20	163.4	70.53	18.64	432.9
12-Jul 9:00	3.68	274.3	65.62	18.95	318.0
12-Jul 9:30	12.84	231.0	60.43	19.70	631.8
12-Jul 10:00	2.18	310.0	60.54	19.93	725.7
12-Jul 10:30	4.86	230.1	57.06	21.12	865.8
12-Jul 11:00	9.65	222.4	52.10	21.51	984.2
12-Jul 11:30	6.04	260.0	54.84	21.19	1212.2
12-Jul 12:00	4.48	237.4	52.34	22.13	991.8
12-Jul 12:30	10.05	212.8	48.78	22.12	228.9
12-Jul 13:00	9.48	209.6	47.64	22.45	317.8
12-Jul 13:30	8.94	306.0	47.77	22.59	1238.7
12-Jul 14:00	9.78	288.1	48.45	22.62	457.7
12-Jul 14:30	5.62	248.5	48.07	22.78	1271.5
12-Jul 15:00	7.05	237.3	46.80	23.49	597.4
12-Jul 15:30	7.90	240.6	45.79	23.64	934.8
12-Jul 16:00	10.59	227.9	43.53	23.81	867.8
12-Jul 16:30	7.50	229.0	43.39	24.08	814.2
12-Jul 17:00	2.89	224.4	45.50	24.15	370.4
12-Jul 17:30	6.43	252.3	41.97	24.11	596.4
12-Jul 18:00	8.84	241.5	41.44	24.31	491.0
12-Jul 18:30	2.09	242.4	45.26	23.45	157.4
12-Jul 19:00	2.56	249.3	46.78	23.30	275.3
12-Jul 19:30	0.00	0.0	51.92	22.30	58.2
12-Jul 20:00	3.55	313.9	58.47	21.28	21.9
12-Jul 20:30	5.27	314.1	60.45	20.61	6.5
12-Jul 21:00	1.22	0.5	73.33	19.74	0.2
12-Jul 21:30	1.23	1.3	76.32	18.65	-0.1
12-Jul 22:00	1.33	99.0	72.00	18.20	-0.1
12-Jul 22:30	3.90	331.7	78.47	17.56	-0.1
12-Jul 23:00	7.37	333.3	68.56	17.47	-0.1
12-Jul 23:30	3.05	85.9	76.18	16.83	-0.1
13-Jul 0:00	1.58	278.9	79.86	15.30	-0.1
13-Jul 0:30	3.24	59.6	78.29	15.61	-0.1
13-Jul 1:00	2.92	316.5	79.17	15.11	-0.1
13-Jul 1:30	3.41	189.4	94.29	12.98	-0.2
13-Jul 2:00	1.72	218.7	99.00	12.01	-0.1
13-Jul 2:30	0.40	247.8	100.12	12.15	-0.2
13-Jul 3:00	2.51	267.5	95.57	12.57	-0.2
13-Jul 3:30	2.81	222.8	101.51	11.45	-0.2
13-Jul 4:00	1.99	218.1	103.28	11.10	-0.2
13-Jul 4:30	2.88	244.2	102.78	10.93	-0.2
13-Jul 5:00	2.00	235.4	104.42	11.07	-0.1
13-Jul 5:30	0.40	247.6	104.64	10.36	1.0
13-Jul 6:00	1.78	261.3	105.29	10.06	11.7
13-Jul 6:30	2.51	233.4	100.43	10.99	57.8
13-Jul 7:00	0.61	174.2	95.55	11.78	150.5
13-Jul 7:30	2.61	195.0	90.36	13.26	224.3
13-Jul 8:00	2.95	170.6	84.56	14.80	310.7

13-Jul 8:30	3.15	182.8	73.20	16.78	409.6
13-Jul 9:00	3.53	131.2	70.13	17.91	507.3
13-Jul 9:30	2.61	148.9	67.36	19.10	610.8
13-Jul 10:00	2.38	178.9	61.72	20.43	707.1
13-Jul 10:30	4.24	306.4	53.24	21.19	790.6
13-Jul 11:00	10.81	304.9	48.37	21.55	964.4
13-Jul 11:30	2.06	284.3	51.00	21.17	1078.7
13-Jul 12:00	1.72	243.6	46.54	22.30	763.6
13-Jul 12:30	5.03	269.8	50.23	21.97	417.8
13-Jul 13:00	2.31	314.7	52.03	21.88	681.9
13-Jul 13:30	10.31	293.4	53.35	21.09	315.0
13-Jul 14:00	2.99	316.5	60.46	20.76	240.7
13-Jul 14:30	3.23	283.3	60.76	20.72	182.8
13-Jul 15:00	3.09	271.5	61.14	20.61	290.5
13-Jul 15:30	4.29	223.3	58.07	20.74	187.0
13-Jul 16:00	4.42	208.4	58.54	21.34	387.8
13-Jul 16:30	3.26	204.8	53.35	21.86	321.4
13-Jul 17:00	4.09	272.7	50.45	22.82	676.4
13-Jul 17:30	7.28	248.7	50.23	22.96	602.3
13-Jul 18:00	9.09	311.7	48.17	22.70	565.8
13-Jul 18:30	3.54	293.2	49.08	23.55	353.8
13-Jul 19:00	2.62	300.2	51.59	22.91	247.2
13-Jul 19:30	3.86	287.3	52.53	22.64	151.8
13-Jul 20:00	2.09	242.4	58.29	21.53	66.1
13-Jul 20:30	2.26	328.5	76.00	20.13	6.2
13-Jul 21:00	1.28	43.9	78.92	18.47	0.0
13-Jul 21:30	0.00	0.0	75.62	18.16	-0.1
13-Jul 22:00	1.25	202.9	81.26	17.15	-0.2
13-Jul 22:30	1.97	253.9	85.44	15.89	-0.1
13-Jul 23:00	1.07	241.3	87.33	15.44	-0.1
13-Jul 23:30	2.35	204.2	91.60	14.69	-0.1
14-Jul 0:00	2.26	217.6	95.19	14.32	-0.1
14-Jul 0:30	0.00	0.0	100.12	13.54	-0.1
14-Jul 1:00	2.08	229.7	99.43	13.05	-0.1
14-Jul 1:30	1.95	234.4	98.10	13.42	-0.1
14-Jul 2:00	1.94	206.5	92.26	14.05	-0.1
14-Jul 2:30	1.20	193.0	102.60	12.22	-0.1
14-Jul 3:00	1.26	197.2	97.98	13.13	-0.1
14-Jul 3:30	2.84	245.7	92.64	13.74	-0.1
14-Jul 4:00	3.14	200.2	90.65	14.04	-0.1
14-Jul 4:30	5.50	157.8	88.06	14.26	-0.1
14-Jul 5:00	3.88	137.9	91.44	14.00	-0.1
14-Jul 5:30	2.75	144.0	89.12	14.16	0.8
14-Jul 6:00	0.00	0.0	83.56	15.02	16.1
14-Jul 6:30	2.90	167.2	79.01	15.42	37.7
14-Jul 7:00	3.06	187.1	78.10	15.93	37.8
14-Jul 7:30	3.44	239.7	74.89	16.75	216.2
14-Jul 8:00	4.78	135.6	73.06	17.83	304.7
14-Jul 8:30	3.71	189.6	69.29	18.57	411.5
14-Jul 9:00	0.86	246.4	63.91	19.74	519.5

14-Jul 9:30	7.10	300.1	64.62	19.63	642.2
14-Jul 10:00	6.84	304.5	61.00	20.27	750.2
14-Jul 10:30	10.60	300.6	58.37	20.93	447.6
14-Jul 11:00	7.87	221.2	56.93	21.93	1013.9
14-Jul 11:30	6.73	263.5	55.37	21.70	1095.7
14-Jul 12:00	3.57	280.6	53.78	22.86	1007.4
14-Jul 12:30	4.75	256.8	57.58	21.88	101.0
14-Jul 13:00	3.53	274.0	58.49	21.99	277.1
14-Jul 13:30	2.65	212.7	60.55	21.88	322.8
14-Jul 14:00	2.19	299.8	55.48	23.05	339.5
14-Jul 14:30	6.40	233.5	51.96	23.19	997.2
14-Jul 15:00	4.58	290.4	51.29	23.50	463.5
14-Jul 15:30	10.36	297.9	50.57	23.31	250.4
14-Jul 16:00	12.84	329.0	49.00	23.59	248.0
14-Jul 16:30	12.90	319.9	46.45	24.11	938.2
14-Jul 17:00	13.55	312.8	46.37	24.04	664.3
14-Jul 17:30	8.30	330.0	51.99	23.66	683.3
14-Jul 18:00	7.98	317.9	50.78	23.27	494.2
14-Jul 18:30	13.72	314.5	49.35	23.43	311.5
14-Jul 19:00	8.20	304.8	49.57	23.25	253.1
14-Jul 19:30	6.14	311.6	49.91	23.09	157.3
14-Jul 20:00	4.37	297.6	54.79	22.05	65.5
14-Jul 20:30	2.71	349.8	58.30	21.02	5.8
14-Jul 21:00	2.79	295.2	62.45	19.92	0.0
14-Jul 21:30	3.28	281.9	76.95	17.36	-0.1
14-Jul 22:00	0.00	0.0	79.34	17.60	-0.1
14-Jul 22:30	2.08	329.5	88.04	17.31	-0.1
14-Jul 23:00	0.00	0.0	84.92	16.42	-0.2
14-Jul 23:30	3.67	328.9	90.62	16.56	-0.1
15-Jul 0:00	1.15	204.7	87.84	14.82	-0.1
15-Jul 0:30	2.37	200.8	90.30	14.34	-0.1
15-Jul 1:00	0.00	0.0	94.87	13.79	-0.2
15-Jul 1:30	3.41	192.6	95.99	13.63	-0.2
15-Jul 2:00	1.38	150.7	97.49	13.47	-0.2
15-Jul 2:30	1.03	264.7	98.65	13.06	-0.1
15-Jul 3:00	0.80	132.8	100.19	12.76	-0.1
15-Jul 3:30	1.76	232.1	97.37	12.98	-0.2
15-Jul 4:00	2.96	246.1	92.41	13.69	-0.1
15-Jul 4:30	1.52	29.3	94.91	13.98	-0.2
15-Jul 5:00	0.00	0.0	90.21	14.24	-0.1
15-Jul 5:30	4.27	161.6	84.71	14.66	1.1
15-Jul 6:00	2.32	264.4	87.43	14.49	12.5
15-Jul 6:30	0.00	0.0	77.81	16.83	45.4
15-Jul 7:00	1.71	246.0	89.69	14.70	134.5
15-Jul 7:30	3.36	168.2	79.85	16.70	218.2
15-Jul 8:00	3.44	157.4	73.11	18.43	315.5
15-Jul 8:30	0.08	253.1	68.88	19.66	415.9
15-Jul 9:00	4.73	310.8	64.45	20.72	516.9
15-Jul 9:30	4.88	294.5	60.98	21.50	612.0
15-Jul 10:00	5.02	309.0	57.82	21.71	708.2

15-Jul 10:30	4.95	293.6	50.74	23.07	783.8
15-Jul 11:00	3.43	9.0	49.65	23.58	870.9
15-Jul 11:30	12.07	286.7	45.70	24.46	1019.0
15-Jul 12:00	8.88	302.0	44.04	24.69	189.7
15-Jul 12:30	7.84	292.8	39.62	25.44	1192.4
15-Jul 13:00	8.13	274.4	38.97	25.07	239.4
15-Jul 13:30	5.43	2.2	39.72	25.46	1147.6
15-Jul 14:00	10.03	281.4	37.66	26.88	1126.1
15-Jul 14:30	0.78	22.7	39.85	26.48	303.4
15-Jul 15:00	2.72	293.8	46.37	25.57	136.9
15-Jul 15:30	8.63	301.9	56.07	23.94	156.2
15-Jul 16:00	3.51	221.4	60.83	22.41	296.6
15-Jul 16:30	6.11	162.2	58.28	22.55	364.8
15-Jul 17:00	4.38	189.6	58.29	22.90	483.2
15-Jul 17:30	2.65	131.4	57.74	23.99	524.7
15-Jul 18:00	3.02	234.5	53.76	25.00	106.5
15-Jul 18:30	0.42	175.2	58.48	24.29	143.8
15-Jul 19:00	4.64	186.0	61.90	24.68	265.6
15-Jul 19:30	1.61	175.7	64.10	24.38	153.8
15-Jul 20:00	0.00	0.0	71.60	23.09	28.0
15-Jul 20:30	3.20	5.7	81.26	21.67	2.9
15-Jul 21:00	1.98	41.0	76.19	21.10	0.0
15-Jul 21:30	1.37	23.0	77.75	20.27	-0.1
15-Jul 22:00	0.00	0.0	82.83	19.59	-0.1
15-Jul 22:30	3.13	330.5	87.27	18.89	-0.1
15-Jul 23:00	2.19	41.8	92.60	18.38	-0.1
15-Jul 23:30	1.73	335.0	91.35	17.58	-0.1
16-Jul 0:00	2.60	56.2	95.44	17.72	-0.1
16-Jul 0:30	1.70	270.2	94.06	16.31	-0.1
16-Jul 1:00	2.30	209.6	100.54	15.62	-0.1
16-Jul 1:30	2.98	266.6	96.76	15.40	-0.1
16-Jul 2:00	0.55	344.7	101.97	15.39	-0.1
16-Jul 2:30	0.18	72.1	101.29	15.90	-0.1
16-Jul 3:00	2.75	216.7	103.35	14.84	-0.1
16-Jul 3:30	2.92	215.9	104.96	13.72	-0.1
16-Jul 4:00	2.13	222.2	105.22	14.03	-0.1
16-Jul 4:30	0.99	238.0	107.40	13.90	-0.1
16-Jul 5:00	1.98	178.6	107.29	13.17	-0.2
16-Jul 5:30	0.00	0.0	107.34	13.06	0.8
16-Jul 6:00	2.07	233.2	107.00	13.54	12.0
16-Jul 6:30	2.84	209.1	104.87	13.27	56.6
16-Jul 7:00	2.15	252.9	99.95	14.24	141.9
16-Jul 7:30	1.41	227.6	94.50	15.55	225.3
16-Jul 8:00	0.00	0.0	86.65	17.21	309.2
16-Jul 8:30	1.68	138.0	84.56	18.05	410.4
16-Jul 9:00	0.99	159.6	77.18	19.79	516.5
16-Jul 9:30	0.00	0.0	69.07	22.48	606.3
16-Jul 10:00	1.31	58.6	63.15	24.07	701.9
16-Jul 10:30	1.55	60.8	62.51	24.62	784.7
16-Jul 11:00	5.00	152.4	41.39	26.00	851.0

16-Jul 11:30	2.99	127.7	45.34	25.99	920.7
16-Jul 12:00	4.31	279.8	45.70	26.85	1035.0
16-Jul 12:30	5.47	215.1	48.70	26.90	374.9
16-Jul 13:00	1.53	151.3	48.47	26.77	961.1
16-Jul 13:30	2.46	257.5	45.57	27.02	188.2
16-Jul 14:00	6.02	238.1	41.14	28.60	1044.9
16-Jul 14:30	8.56	222.8	37.61	29.11	1138.6
16-Jul 15:00	8.19	192.1	42.49	27.77	505.7
16-Jul 15:30	7.70	202.8	40.37	28.23	906.0
16-Jul 16:00	4.28	208.1	45.33	26.60	339.3
16-Jul 16:30	7.83	229.8	46.55	26.71	591.5
16-Jul 17:00	3.68	209.9	47.46	27.47	364.0
16-Jul 17:30	4.16	217.6	52.94	26.15	259.4
16-Jul 18:00	2.32	233.6	48.81	27.23	395.8
16-Jul 18:30	4.70	234.9	47.27	27.65	359.1
16-Jul 19:00	7.00	212.0	48.50	26.53	56.4
16-Jul 19:30	2.73	286.3	54.55	25.78	60.4
16-Jul 20:00	0.00	0.0	58.61	25.03	31.3
16-Jul 20:30	0.00	0.0	64.48	24.22	3.4
16-Jul 21:00	1.95	283.9	65.39	23.25	-0.1
16-Jul 21:30	0.00	0.0	65.01	22.99	-0.1
16-Jul 22:00	1.74	183.8	71.53	22.13	-0.1
16-Jul 22:30	1.88	156.1	78.65	21.10	-0.1
16-Jul 23:00	0.77	247.5	79.13	21.10	-0.1
16-Jul 23:30	0.94	212.9	82.71	20.66	-0.1
17-Jul 0:00	1.08	183.8	87.34	20.49	-0.1
17-Jul 0:30	1.18	273.8	87.69	20.33	-0.1
17-Jul 1:00	0.00	0.0	86.76	20.34	-0.2
17-Jul 1:30	0.59	194.0	93.24	19.56	-0.1
17-Jul 2:00	0.39	189.7	95.18	19.25	-0.1
17-Jul 2:30	3.29	235.0	91.63	19.42	-0.1
17-Jul 3:00	2.95	180.5	94.08	19.44	-0.1
17-Jul 3:30	1.54	280.9	94.36	19.26	-0.1
17-Jul 4:00	3.18	158.5	99.94	18.78	-0.1
17-Jul 4:30	2.30	107.3	97.26	19.32	-0.1
17-Jul 5:00	2.55	235.2	105.41	18.37	-0.2
17-Jul 5:30	2.39	172.3	107.16	18.40	0.1
17-Jul 6:00	0.49	253.1	106.87	18.36	8.3
17-Jul 6:30	0.33	208.6	105.91	18.27	22.0
17-Jul 7:00	2.60	239.3	105.83	18.53	70.8
17-Jul 7:30	0.78	92.3	96.43	19.56	68.2
17-Jul 8:00	0.00	0.0	97.41	19.86	78.6
17-Jul 8:30	3.50	238.7	94.99	20.37	194.7
17-Jul 9:00	3.32	209.6	88.85	21.23	368.7
17-Jul 9:30	1.02	182.9	87.07	21.79	439.7
17-Jul 10:00	3.31	164.9	81.34	22.77	556.8
17-Jul 10:30	2.04	119.1	71.89	25.06	634.1
17-Jul 11:00	1.08	183.0	67.60	25.87	858.9
17-Jul 11:30	5.66	301.3	59.61	27.49	308.8
17-Jul 12:00	7.35	277.5	59.07	26.06	281.8

17-Jul 12:30	3.03	211.2	54.87	27.20	547.6
17-Jul 13:00	2.72	116.3	56.29	27.71	501.2
17-Jul 13:30	4.25	325.2	54.22	28.38	876.9
17-Jul 14:00	2.17	237.3	51.75	29.19	1010.7
17-Jul 14:30	4.13	237.9	49.59	29.47	922.5
17-Jul 15:00	6.73	217.5	46.76	30.63	1008.1
17-Jul 15:30	3.36	282.9	50.19	29.28	460.9
17-Jul 16:00	4.48	265.8	47.19	29.96	296.4
17-Jul 16:30	5.50	331.0	58.06	28.30	708.1
17-Jul 17:00	3.72	14.3	55.27	28.26	157.9
17-Jul 17:30	2.32	60.8	54.13	28.65	470.8
17-Jul 18:00	2.21	45.8	50.73	29.53	188.5
17-Jul 18:30	2.95	219.0	54.54	28.60	122.1
17-Jul 19:00	2.54	223.2	53.42	28.01	56.4
17-Jul 19:30	1.85	306.4	60.40	27.29	42.5
17-Jul 20:00	8.57	329.5	60.48	24.60	16.7
17-Jul 20:30	6.56	346.4	64.58	22.77	0.9
17-Jul 21:00	6.89	41.6	63.72	22.37	-0.1
17-Jul 21:30	2.03	31.4	65.52	22.19	-0.1
17-Jul 22:00	7.31	49.2	69.95	21.86	-0.1
17-Jul 22:30	1.14	56.6	72.61	21.59	-0.1
17-Jul 23:00	4.88	154.6	97.48	18.92	-0.1
17-Jul 23:30	2.24	334.6	100.96	18.52	-0.1
18-Jul 0:00	5.06	17.8	99.73	18.42	-0.1
18-Jul 0:30	8.32	17.8	101.06	18.70	-0.1
18-Jul 1:00	0.00	0.0	102.55	18.60	-0.1
18-Jul 1:30	0.00	0.0	106.36	18.20	-0.1
18-Jul 2:00	1.61	344.3	105.87	18.02	-0.1
18-Jul 2:30	2.21	101.9	103.45	18.53	-0.1
18-Jul 3:00	1.12	221.5	106.61	17.70	-0.1
18-Jul 3:30	3.14	292.7	104.52	18.14	-0.1
18-Jul 4:00	0.12	205.2	106.64	17.63	-0.1
18-Jul 4:30	3.48	173.2	105.44	17.82	-0.1
18-Jul 5:00	1.72	242.0	104.23	17.89	-0.1
18-Jul 5:30	2.41	129.2	105.40	17.98	0.0
18-Jul 6:00	3.67	10.1	102.93	18.57	3.4
18-Jul 6:30	4.51	8.6	100.97	18.62	22.7
18-Jul 7:00	4.83	4.2	100.24	18.79	97.2
18-Jul 7:30	6.65	38.0	99.04	19.19	148.3
18-Jul 8:00	7.93	37.9	97.74	19.52	177.6
18-Jul 8:30	6.79	25.2	96.04	20.04	162.9
18-Jul 9:00	6.56	4.4	94.64	20.51	191.5
18-Jul 9:30	5.04	7.4	95.86	20.49	191.5
18-Jul 10:00	6.09	15.1	90.02	21.34	176.2
18-Jul 10:30	7.10	21.1	89.95	21.39	144.9
18-Jul 11:00	5.58	27.1	84.85	22.19	393.4
18-Jul 11:30	5.93	38.1	83.47	22.33	399.3
18-Jul 12:00	4.18	53.3	78.34	22.83	328.5
18-Jul 12:30	8.36	26.3	71.00	23.97	910.0
18-Jul 13:00	6.34	12.4	72.50	24.32	676.2

18-Jul 13:30	6.73	17.4	69.48	24.93	934.7
18-Jul 14:00	5.96	1.2	63.98	25.53	935.7
18-Jul 14:30	5.55	34.4	65.12	25.31	266.6
18-Jul 15:00	8.09	46.1	66.05	25.54	376.3
18-Jul 15:30	1.59	41.4	62.42	26.08	308.3
18-Jul 16:00	6.15	42.6	64.84	25.77	226.0
18-Jul 16:30	3.71	103.5	56.54	27.71	738.2
18-Jul 17:00	5.56	79.3	64.04	25.64	138.4
18-Jul 17:30	6.18	106.0	64.20	25.23	128.9
18-Jul 18:00	6.22	40.8	66.27	25.43	125.6
18-Jul 18:30	4.17	79.4	70.16	25.06	82.7
18-Jul 19:00	2.48	45.7	72.65	24.27	69.8
18-Jul 19:30	4.47	27.8	73.62	24.00	21.5
18-Jul 20:00	4.77	27.9	75.49	23.52	15.0
18-Jul 20:30	4.34	45.5	80.11	22.99	1.8
18-Jul 21:00	2.92	38.8	85.09	22.38	-0.1
18-Jul 21:30	2.96	78.4	84.39	22.04	-0.1
18-Jul 22:00	4.36	27.1	90.59	21.56	-0.1
18-Jul 22:30	2.76	39.8	92.09	21.23	-0.1
18-Jul 23:00	3.16	24.2	91.24	20.99	-0.1
18-Jul 23:30	4.18	40.2	95.78	20.45	-0.1
19-Jul 0:00	3.04	48.6	95.66	20.11	-0.1
19-Jul 0:30	1.12	33.1	95.28	19.92	-0.1
19-Jul 1:00	2.68	343.0	96.96	19.27	-0.1
19-Jul 1:30	2.39	20.4	100.28	18.78	-0.1
19-Jul 2:00	2.16	325.0	102.73	18.35	-0.1
19-Jul 2:30	1.07	242.0	102.09	18.02	-0.1
19-Jul 3:00	1.46	334.1	104.32	17.85	-0.1
19-Jul 3:30	3.10	9.8	103.66	18.47	-0.1
19-Jul 4:00	5.42	17.1	103.84	18.13	-0.2
19-Jul 4:30	3.05	13.3	106.05	17.99	-0.2
19-Jul 5:00	4.35	43.5	100.79	18.41	-0.1
19-Jul 5:30	8.36	51.6	94.79	18.39	0.1
19-Jul 6:00	3.42	41.1	98.54	18.34	5.0
19-Jul 6:30	8.72	33.3	96.01	18.27	34.4
19-Jul 7:00	6.19	8.9	95.42	17.90	65.0
19-Jul 7:30	8.99	35.4	90.99	18.21	202.7
19-Jul 8:00	9.61	42.3	86.72	18.69	369.7
19-Jul 8:30	10.29	33.0	85.69	18.83	395.5
19-Jul 9:00	8.23	64.2	86.00	18.81	305.8
19-Jul 9:30	10.20	41.7	83.21	18.99	411.5
19-Jul 10:00	9.03	29.9	79.49	19.45	677.0
19-Jul 10:30	8.45	13.1	75.80	20.28	369.4
19-Jul 11:00	5.58	27.4	71.09	21.22	858.6
19-Jul 11:30	7.77	40.0	65.19	22.26	911.7
19-Jul 12:00	6.14	51.6	63.33	22.90	951.7
19-Jul 12:30	9.42	19.3	61.85	23.41	1051.4
19-Jul 13:00	6.37	35.8	60.71	23.88	798.3
19-Jul 13:30	4.63	41.9	59.19	24.62	1091.0
19-Jul 14:00	6.69	40.5	57.28	24.63	1041.8

19-Jul 14:30	2.63	61.2	55.42	25.00	1027.0
19-Jul 15:00	8.26	30.3	52.34	25.47	1063.8
19-Jul 15:30	4.63	31.2	48.71	25.62	928.7
19-Jul 16:00	8.98	27.7	50.62	25.85	856.4
19-Jul 16:30	4.47	52.6	49.53	25.63	180.0
19-Jul 17:00	6.35	80.3	50.61	26.62	714.8
19-Jul 17:30	0.00	0.0	53.99	25.36	379.2
19-Jul 18:00	4.76	59.9	53.96	25.31	488.2
19-Jul 18:30	5.39	75.6	57.32	24.84	103.4
19-Jul 19:00	7.39	38.4	57.69	24.44	96.3
19-Jul 19:30	2.83	61.1	62.82	23.81	41.0
19-Jul 20:00	3.54	97.0	64.92	22.84	19.6
19-Jul 20:30	2.37	89.7	70.83	21.84	2.0
19-Jul 21:00	3.44	54.3	78.40	21.51	-0.1
19-Jul 21:30	0.88	215.8	78.35	20.99	-0.1
19-Jul 22:00	1.15	204.2	76.04	20.63	-0.1
19-Jul 22:30	2.58	57.1	83.06	20.31	-0.1
19-Jul 23:00	0.00	0.0	83.21	19.88	-0.1
19-Jul 23:30	3.12	30.4	86.42	19.41	-0.1
20-Jul 0:00	0.00	0.0	90.29	18.78	-0.2
20-Jul 0:30	3.85	29.8	90.99	18.52	-0.2
20-Jul 1:00	2.71	39.4	95.88	17.99	-0.1
20-Jul 1:30	5.09	324.1	98.42	17.23	-0.1
20-Jul 2:00	3.88	43.6	100.07	17.29	-0.1
20-Jul 2:30	3.80	34.2	100.11	16.95	-0.1
20-Jul 3:00	3.38	353.7	100.31	16.45	-0.1
20-Jul 3:30	0.96	16.8	101.30	15.29	-0.1
20-Jul 4:00	2.98	278.0	100.56	14.95	-0.1
20-Jul 4:30	0.00	0.0	103.37	14.69	-0.1
20-Jul 5:00	2.31	200.8	105.47	13.77	-0.1
20-Jul 5:30	0.82	246.5	105.52	13.94	0.3
20-Jul 6:00	1.85	317.1	105.95	14.69	8.6
20-Jul 6:30	2.65	23.8	106.29	14.92	28.9
20-Jul 7:00	0.94	5.6	103.17	15.36	36.9
20-Jul 7:30	1.82	238.3	101.82	15.00	104.4
20-Jul 8:00	0.00	0.0	96.23	16.22	157.4
20-Jul 8:30	0.93	11.8	96.56	17.05	214.8
20-Jul 9:00	3.28	23.8	89.64	18.36	486.1
20-Jul 9:30	2.74	32.7	85.78	19.46	603.2
20-Jul 10:00	3.54	8.3	76.90	20.76	719.9
20-Jul 10:30	3.94	44.3	54.23	21.74	783.7
20-Jul 11:00	5.16	52.5	52.35	22.33	868.6
20-Jul 11:30	7.38	41.9	48.83	22.87	925.2
20-Jul 12:00	6.12	28.8	43.44	23.17	979.9
20-Jul 12:30	4.54	38.9	43.83	24.09	1013.8
20-Jul 13:00	5.50	26.9	42.33	24.31	1037.7
20-Jul 13:30	6.48	34.9	36.40	24.49	1044.5
20-Jul 14:00	7.25	29.8	40.40	24.73	1034.7
20-Jul 14:30	5.67	35.6	41.61	25.18	1005.2
20-Jul 15:00	7.46	36.9	37.86	25.47	963.9

20-Jul 15:30	9.93	47.1	34.53	25.77	909.5
20-Jul 16:00	5.77	37.7	38.69	26.35	831.8
20-Jul 16:30	1.92	283.2	37.14	26.29	750.9
20-Jul 17:00	2.36	33.5	36.39	26.66	656.0
20-Jul 17:30	9.30	56.3	35.71	26.23	560.8
20-Jul 18:00	2.74	99.2	35.77	26.62	452.6
20-Jul 18:30	4.66	138.7	36.44	25.99	345.6
20-Jul 19:00	2.10	135.2	37.47	25.99	240.7
20-Jul 19:30	0.24	181.0	38.87	25.13	142.5
20-Jul 20:00	2.65	154.9	40.71	24.56	52.4
20-Jul 20:30	1.44	241.2	50.74	22.59	4.2
20-Jul 21:00	0.26	67.5	67.13	20.67	0.0
20-Jul 21:30	2.85	20.4	72.69	20.06	-0.1
20-Jul 22:00	2.77	330.0	76.63	18.77	-0.1
20-Jul 22:30	2.00	322.3	82.65	18.13	-0.1
20-Jul 23:00	2.93	336.0	81.69	17.23	-0.1
20-Jul 23:30	0.00	0.0	83.04	16.10	-0.1
21-Jul 0:00	1.98	191.1	84.62	14.83	-0.1
21-Jul 0:30	2.03	239.5	87.26	14.00	-0.1
21-Jul 1:00	2.55	250.5	85.92	14.33	-0.1
21-Jul 1:30	1.88	237.3	89.93	13.92	-0.1
21-Jul 2:00	2.26	227.6	95.86	12.64	-0.1
21-Jul 2:30	2.27	244.5	94.51	13.03	-0.1
21-Jul 3:00	2.79	211.4	92.69	12.89	-0.1
21-Jul 3:30	1.76	234.2	95.04	12.75	-0.1
21-Jul 4:00	2.24	238.9	99.50	11.81	-0.1
21-Jul 4:30	0.68	192.6	102.63	11.01	-0.2
21-Jul 5:00	2.02	252.1	100.26	11.70	-0.2
21-Jul 5:30	2.09	220.6	98.42	12.00	0.3
21-Jul 6:00	2.56	225.5	99.60	11.69	9.2
21-Jul 6:30	2.79	233.3	99.04	11.81	40.5
21-Jul 7:00	2.14	196.9	95.87	12.35	133.7
21-Jul 7:30	0.63	155.9	87.86	13.84	202.6
21-Jul 8:00	1.57	179.1	83.04	15.13	265.7
21-Jul 8:30	0.00	0.0	74.69	18.00	377.9
21-Jul 9:00	1.54	151.2	68.83	19.91	510.4
21-Jul 9:30	2.86	109.0	62.52	21.63	604.7
21-Jul 10:00	4.05	128.3	60.14	22.40	701.5
21-Jul 10:30	3.70	137.0	53.63	23.89	782.5
21-Jul 11:00	5.07	153.3	46.02	25.57	862.9
21-Jul 11:30	0.74	249.8	38.96	26.09	920.5
21-Jul 12:00	4.14	169.0	37.08	26.33	975.7
21-Jul 12:30	0.00	0.0	36.46	26.77	1015.2
21-Jul 13:00	4.49	135.8	35.60	26.85	1067.7
21-Jul 13:30	4.41	133.4	32.10	27.49	1038.7
21-Jul 14:00	0.00	0.0	31.81	28.44	1009.9
21-Jul 14:30	2.97	268.3	31.96	27.92	916.3
21-Jul 15:00	8.25	209.6	32.10	28.01	951.8
21-Jul 15:30	3.03	241.6	31.44	29.15	928.9
21-Jul 16:00	3.66	222.7	31.53	28.78	848.7

21-Jul 16:30	1.74	96.0	33.65	28.25	758.5
21-Jul 17:00	5.80	241.2	30.91	29.02	675.4
21-Jul 17:30	3.12	231.7	28.75	28.91	217.5
21-Jul 18:00	2.22	120.2	29.42	29.27	523.7
21-Jul 18:30	3.61	201.4	31.67	28.21	224.9
21-Jul 19:00	2.72	142.9	37.69	26.76	105.3
21-Jul 19:30	3.04	135.8	40.97	26.28	98.4
21-Jul 20:00	0.00	0.0	49.65	24.95	59.2
21-Jul 20:30	2.06	32.0	64.29	23.28	2.5
21-Jul 21:00	2.66	352.5	70.22	21.51	-0.1
21-Jul 21:30	3.38	339.5	72.98	20.60	-0.1
21-Jul 22:00	3.79	205.2	75.23	19.04	-0.1
21-Jul 22:30	2.06	337.0	71.61	19.20	-0.1
21-Jul 23:00	2.77	7.5	79.64	18.82	0.0
21-Jul 23:30	2.52	38.8	85.95	18.24	0.0
22-Jul 0:00	1.42	163.4	87.46	16.58	-0.1
22-Jul 0:30	3.21	199.0	89.07	16.34	-0.1
22-Jul 1:00	0.38	248.4	86.96	15.94	-0.1
22-Jul 1:30	2.04	285.1	84.72	15.68	-0.1
22-Jul 2:00	0.00	0.0	89.86	15.55	-0.1
22-Jul 2:30	2.48	257.8	91.71	14.72	-0.1
22-Jul 3:00	1.52	307.0	92.97	14.84	-0.1
22-Jul 3:30	1.15	353.6	102.44	15.21	-0.1
22-Jul 4:00	1.70	281.4	103.80	14.12	-0.1
22-Jul 4:30	0.88	246.5	101.64	13.99	-0.2
22-Jul 5:00	0.41	220.6	102.74	13.92	-0.1
22-Jul 5:30	4.20	193.1	101.68	12.80	0.2
22-Jul 6:00	2.66	209.9	104.69	12.39	7.7
22-Jul 6:30	2.17	203.5	100.45	13.00	24.3
22-Jul 7:00	2.69	241.6	97.27	13.09	127.4
22-Jul 7:30	2.18	242.4	95.06	14.42	200.1
22-Jul 8:00	0.20	199.6	86.00	16.42	291.0
22-Jul 8:30	0.00	0.0	69.37	20.32	391.2
22-Jul 9:00	0.00	0.0	63.00	21.75	497.3
22-Jul 9:30	0.12	88.6	60.85	22.25	598.2
22-Jul 10:00	3.80	169.8	55.35	23.34	693.6
22-Jul 10:30	5.37	234.0	54.17	24.16	779.5
22-Jul 11:00	6.75	209.2	50.11	25.19	860.1
22-Jul 11:30	7.35	152.1	43.01	26.13	945.7
22-Jul 12:00	3.78	148.9	38.28	26.08	1001.1
22-Jul 12:30	5.56	224.9	31.63	27.39	707.2
22-Jul 13:00	6.03	220.4	31.58	27.06	1078.3
22-Jul 13:30	8.15	211.8	33.38	27.62	637.2
22-Jul 14:00	3.31	153.1	31.31	28.02	1030.8
22-Jul 14:30	5.17	129.8	33.46	28.57	996.0
22-Jul 15:00	7.91	244.8	33.88	27.95	581.9
22-Jul 15:30	4.85	228.3	31.09	29.01	926.6
22-Jul 16:00	1.85	129.6	29.41	29.52	880.9
22-Jul 16:30	6.86	200.4	31.64	28.66	525.7
22-Jul 17:00	4.17	215.6	28.87	29.24	416.1

22-Jul 17:30	4.10	185.5	31.95	28.09	193.7
22-Jul 18:00	4.20	121.4	37.40	27.60	139.5
22-Jul 18:30	3.61	158.2	37.54	27.51	404.9
22-Jul 19:00	4.08	177.8	38.49	27.60	141.1
22-Jul 19:30	5.70	177.7	39.42	27.23	130.4
22-Jul 20:00	1.94	189.6	43.40	25.98	38.1
22-Jul 20:30	0.00	0.0	50.53	24.49	3.2
22-Jul 21:00	0.00	0.0	64.59	23.23	-0.1
22-Jul 21:30	0.00	0.0	65.30	21.95	-0.1
22-Jul 22:00	2.69	351.4	76.28	20.91	-0.1
22-Jul 22:30	2.31	345.7	76.54	20.31	-0.1
22-Jul 23:00	1.44	270.8	78.39	19.11	-0.2
22-Jul 23:30	2.65	227.7	80.80	18.05	-0.1
23-Jul 0:00	3.80	285.3	79.50	17.58	-0.1
23-Jul 0:30	0.00	0.0	79.51	17.76	-0.1
23-Jul 1:00	0.00	0.0	82.41	17.50	-0.1
23-Jul 1:30	1.88	297.5	91.56	17.17	-0.1
23-Jul 2:00	2.04	40.4	94.50	17.48	-0.1
23-Jul 2:30	2.67	218.4	93.95	15.94	-0.1
23-Jul 3:00	0.40	236.2	92.89	15.83	-0.1
23-Jul 3:30	0.07	229.0	93.39	16.16	-0.1
23-Jul 4:00	0.00	0.0	95.09	15.78	-0.1
23-Jul 4:30	2.00	287.5	98.80	15.51	-0.2
23-Jul 5:00	1.90	229.0	97.43	15.49	-0.2
23-Jul 5:30	3.02	215.0	99.30	14.25	0.1
23-Jul 6:00	3.11	242.2	98.73	14.35	8.2
23-Jul 6:30	1.89	212.4	98.42	14.58	34.9
23-Jul 7:00	1.96	233.6	95.33	15.01	90.0
23-Jul 7:30	1.03	153.5	89.91	16.12	158.4
23-Jul 8:00	1.86	173.0	81.91	17.67	244.0
23-Jul 8:30	1.60	165.6	77.16	19.38	331.4
23-Jul 9:00	2.08	154.8	73.68	21.16	432.3
23-Jul 9:30	3.80	186.4	72.52	22.58	531.0
23-Jul 10:00	2.14	239.2	69.00	24.09	625.2
23-Jul 10:30	0.00	0.0	65.87	25.22	710.7
23-Jul 11:00	5.50	162.3	64.10	26.22	785.1
23-Jul 11:30	1.79	161.6	59.04	27.46	844.0
23-Jul 12:00	4.68	180.7	54.85	27.70	895.4
23-Jul 12:30	4.02	114.2	52.44	28.96	929.7
23-Jul 13:00	3.19	208.1	51.88	29.56	953.9
23-Jul 13:30	3.38	224.6	47.32	30.55	957.8
23-Jul 14:00	1.78	120.5	47.07	30.14	956.3
23-Jul 14:30	10.83	205.1	45.49	30.12	928.5
23-Jul 15:00	5.04	190.8	42.82	30.53	889.3
23-Jul 15:30	6.25	137.6	43.24	31.16	868.2
23-Jul 16:00	7.04	215.2	44.33	30.70	781.5
23-Jul 16:30	8.77	230.5	41.76	31.43	687.4
23-Jul 17:00	9.82	201.8	43.04	31.05	566.9
23-Jul 17:30	3.14	201.2	42.09	31.98	480.2
23-Jul 18:00	4.64	211.1	45.34	30.94	363.3

23-Jul 18:30	5.83	200.4	47.03	30.71	260.5
23-Jul 19:00	2.28	151.9	50.05	30.33	172.4
23-Jul 19:30	2.34	173.5	50.52	30.02	92.2
23-Jul 20:00	4.50	191.7	53.82	28.84	26.8
23-Jul 20:30	2.10	154.1	57.23	27.96	1.6
23-Jul 21:00	2.10	229.7	59.99	27.31	0.0
23-Jul 21:30	0.00	0.0	65.68	26.15	-0.1
23-Jul 22:00	2.19	193.5	65.86	25.88	-0.1
23-Jul 22:30	1.94	220.7	69.12	24.98	-0.1
23-Jul 23:00	0.19	179.3	72.70	24.41	-0.1
23-Jul 23:30	2.01	299.4	75.30	23.74	-0.1
24-Jul 0:00	0.00	0.0	82.47	23.21	-0.1
24-Jul 0:30	1.68	219.0	78.11	22.88	-0.1
24-Jul 1:00	1.59	254.6	84.31	21.56	-0.1
24-Jul 1:30	0.66	84.1	87.62	21.17	-0.1
24-Jul 2:00	0.00	0.0	88.26	20.64	-0.1
24-Jul 2:30	3.16	310.0	85.57	21.28	-0.1
24-Jul 3:00	1.42	24.0	93.35	20.63	-0.1
24-Jul 3:30	0.00	0.0	95.39	20.48	-0.1
24-Jul 4:00	2.56	21.6	97.94	20.29	-0.1
24-Jul 4:30	2.31	37.2	98.95	20.15	-0.1
24-Jul 5:00	2.57	49.9	100.40	19.90	-0.2
24-Jul 5:30	2.00	53.4	100.67	19.85	0.3
24-Jul 6:00	2.66	16.8	101.10	19.67	6.9
24-Jul 6:30	3.41	22.7	99.99	19.70	35.6
24-Jul 7:00	1.57	51.0	95.47	20.41	82.8
24-Jul 7:30	2.44	27.7	91.97	21.26	164.0
24-Jul 8:00	1.11	26.8	87.34	22.20	233.8
24-Jul 8:30	0.00	0.0	80.48	23.76	267.2
24-Jul 9:00	0.00	0.0	81.72	24.65	449.6
24-Jul 9:30	5.40	162.5	79.67	25.29	487.0
24-Jul 10:00	4.25	148.9	76.78	26.13	656.8
24-Jul 10:30	2.90	168.7	69.93	27.44	701.4
24-Jul 11:00	7.05	206.2	67.58	28.51	818.1
24-Jul 11:30	8.26	173.1	60.98	29.20	860.5
24-Jul 12:00	7.84	166.4	58.49	30.15	930.7
24-Jul 12:30	3.14	194.0	55.96	31.07	1032.6
24-Jul 13:00	8.70	157.5	55.48	31.07	257.1
24-Jul 13:30	8.19	188.5	54.90	31.82	1052.8
24-Jul 14:00	9.80	202.9	51.73	31.81	901.8
24-Jul 14:30	12.61	217.7	47.70	32.76	965.6
24-Jul 15:00	5.02	159.8	48.35	32.28	330.6
24-Jul 15:30	11.08	224.5	45.32	33.03	909.6
24-Jul 16:00	8.85	219.7	44.07	32.98	233.5
24-Jul 16:30	10.34	179.9	44.38	32.70	712.1
24-Jul 17:00	10.10	195.9	43.17	33.19	269.3
24-Jul 17:30	7.66	181.6	44.63	33.08	406.2
24-Jul 18:00	8.07	188.4	49.36	32.70	379.0
24-Jul 18:30	9.44	191.0	53.45	32.22	289.6
24-Jul 19:00	9.16	184.0	51.51	32.04	164.8

24-Jul 19:30	7.35	181.8	53.17	31.47	89.5
24-Jul 20:00	3.46	184.7	57.49	30.34	13.7
24-Jul 20:30	2.84	166.9	60.44	29.62	1.1
24-Jul 21:00	2.32	157.8	63.21	29.00	-0.1
24-Jul 21:30	1.09	206.8	65.95	28.40	0.0
24-Jul 22:00	2.07	160.6	67.44	28.21	0.0
24-Jul 22:30	2.26	244.8	69.58	27.76	0.0
24-Jul 23:00	0.00	0.0	75.63	26.86	0.0
24-Jul 23:30	0.08	248.2	74.43	26.82	-0.1
25-Jul 0:00	0.00	0.0	78.20	26.34	-0.1
25-Jul 0:30	0.00	0.0	85.10	25.85	-0.1
25-Jul 1:00	0.00	0.0	89.87	25.18	-0.1
25-Jul 1:30	0.00	0.0	86.79	24.98	-0.1
25-Jul 2:00	1.90	117.7	91.64	24.28	-0.1
25-Jul 2:30	1.51	219.2	91.84	23.46	-0.1
25-Jul 3:00	0.62	200.8	94.58	22.95	-0.1
25-Jul 3:30	2.18	221.1	93.56	23.19	-0.1
25-Jul 4:00	0.00	0.0	91.97	23.59	-0.1
25-Jul 4:30	1.13	220.6	96.42	22.63	-0.1
25-Jul 5:00	0.00	0.0	95.12	22.95	-0.1
25-Jul 5:30	0.00	0.0	100.55	22.07	0.2
25-Jul 6:00	0.00	0.0	96.83	22.39	5.1
25-Jul 6:30	0.00	0.0	99.59	22.01	33.8
25-Jul 7:00	0.00	0.0	93.73	22.99	58.7
25-Jul 7:30	0.00	0.0	88.86	24.16	154.3
25-Jul 8:00	0.49	172.3	90.74	23.73	122.5
25-Jul 8:30	2.05	165.9	83.04	25.31	228.0
25-Jul 9:00	3.08	228.6	77.17	26.76	324.7
25-Jul 9:30	5.23	214.7	71.45	27.96	506.7
25-Jul 10:00	2.09	162.1	69.35	28.66	571.8
25-Jul 10:30	3.79	139.5	68.38	29.17	608.6
25-Jul 11:00	2.47	229.7	63.56	30.39	461.3
25-Jul 11:30	4.24	213.0	65.00	30.25	340.3
25-Jul 12:00	7.10	174.8	59.71	31.57	945.3
25-Jul 12:30	3.11	120.9	59.03	31.90	914.0
25-Jul 13:00	8.03	223.5	57.79	32.27	1048.2
25-Jul 13:30	5.51	210.2	55.02	33.05	974.1
25-Jul 14:00	3.23	224.4	54.11	32.88	564.8
25-Jul 14:30	7.00	222.8	51.69	33.60	907.2
25-Jul 15:00	4.26	140.5	56.30	32.44	345.3
25-Jul 15:30	2.74	130.2	57.11	32.42	233.7
25-Jul 16:00	7.74	181.5	55.48	32.02	118.6
25-Jul 16:30	10.09	289.6	71.05	26.59	53.2
25-Jul 17:00	4.61	208.9	87.44	23.62	22.1
25-Jul 17:30	4.60	166.3	97.11	22.81	46.8
25-Jul 18:00	1.76	225.1	99.25	22.26	27.3
25-Jul 18:30	1.54	149.2	101.06	22.46	13.6
25-Jul 19:00	4.10	229.8	103.36	22.14	24.8
25-Jul 19:30	2.59	256.2	105.25	22.08	5.4
25-Jul 20:00	0.40	100.6	105.62	22.14	1.2

25-Jul 20:30	0.00	0.0	107.26	21.96	0.0
25-Jul 21:00	2.70	349.2	106.05	22.45	-0.1
25-Jul 21:30	2.80	162.4	105.96	22.09	-0.1
25-Jul 22:00	2.56	288.3	107.21	21.90	-0.1
25-Jul 22:30	5.76	225.8	107.78	21.97	-0.1
25-Jul 23:00	4.10	169.9	107.84	21.68	0.0
25-Jul 23:30	5.12	279.6	108.31	21.71	-0.1
26-Jul 0:00	0.50	132.7	108.36	21.74	-0.1
26-Jul 0:30	3.53	79.8	107.54	22.04	-0.1
26-Jul 1:00	3.08	9.3	107.74	22.06	-0.1
26-Jul 1:30	0.00	0.0	107.97	21.80	-0.1
26-Jul 2:00	2.80	164.4	108.32	21.51	-0.1
26-Jul 2:30	0.67	225.4	108.52	21.31	-0.1
26-Jul 3:00	0.30	182.6	108.60	21.18	-0.1
26-Jul 3:30	0.58	251.2	108.70	21.04	-0.1
26-Jul 4:00	0.00	0.0	108.80	21.08	-0.1
26-Jul 4:30	1.94	147.5	108.85	21.11	-0.1
26-Jul 5:00	0.00	0.0	108.88	21.00	-0.1
26-Jul 5:30	2.80	278.6	108.92	20.69	0.0
26-Jul 6:00	1.55	249.9	108.96	20.54	1.6
26-Jul 6:30	1.82	265.5	108.99	20.54	11.2
26-Jul 7:00	2.36	255.8	109.00	21.05	15.9
26-Jul 7:30	6.29	318.4	108.93	20.56	27.7
26-Jul 8:00	4.16	290.8	105.07	19.79	57.2
26-Jul 8:30	11.31	320.8	95.79	19.52	177.3
26-Jul 9:00	5.68	327.1	90.37	20.08	147.0
26-Jul 9:30	12.06	338.6	83.94	20.51	216.1
26-Jul 10:00	6.13	347.4	80.36	21.18	605.1
26-Jul 10:30	7.25	16.9	78.29	22.05	491.0
26-Jul 11:00	8.04	29.8	75.21	22.05	316.4
26-Jul 11:30	10.59	336.8	75.42	22.03	198.0
26-Jul 12:00	7.60	348.8	75.13	21.75	167.7
26-Jul 12:30	8.28	321.0	75.99	21.78	248.6
26-Jul 13:00	6.92	359.4	76.85	21.61	312.2
26-Jul 13:30	4.67	19.3	77.93	21.57	231.8
26-Jul 14:00	6.65	1.8	75.35	21.83	401.5
26-Jul 14:30	12.10	348.1	66.00	23.12	505.3
26-Jul 15:00	10.30	320.0	63.35	23.23	397.6
26-Jul 15:30	13.33	2.1	57.63	23.39	290.9
26-Jul 16:00	5.62	39.4	59.15	23.59	384.9
26-Jul 16:30	8.24	352.1	58.22	23.81	340.4
26-Jul 17:00	7.28	340.4	59.74	23.92	229.9
26-Jul 17:30	5.81	339.8	61.06	23.52	163.5
26-Jul 18:00	6.49	32.4	56.41	24.24	586.6
26-Jul 18:30	6.14	313.3	57.69	23.76	52.0
26-Jul 19:00	4.96	310.1	57.69	23.39	85.6
26-Jul 19:30	0.00	0.0	63.29	22.96	53.2
26-Jul 20:00	4.36	327.4	56.42	23.26	43.1
26-Jul 20:30	3.73	319.0	60.85	21.74	2.8
26-Jul 21:00	4.74	337.2	64.22	20.60	0.0

26-Jul 21:30	2.85	41.0	63.74	20.22	-0.1
26-Jul 22:00	3.29	47.6	63.71	19.88	-0.1
26-Jul 22:30	5.59	18.1	62.35	19.52	-0.1
26-Jul 23:00	6.14	23.0	62.74	19.01	-0.1
26-Jul 23:30	5.37	9.0	63.56	18.30	-0.1
27-Jul 0:00	5.55	15.4	66.48	17.97	-0.1
27-Jul 0:30	4.93	19.2	63.10	17.63	-0.1
27-Jul 1:00	5.58	32.2	64.09	17.14	-0.1
27-Jul 1:30	5.53	46.6	63.17	17.06	-0.1
27-Jul 2:00	4.63	330.2	62.51	16.66	-0.1
27-Jul 2:30	5.43	359.6	63.37	16.30	-0.1
27-Jul 3:00	4.33	24.8	69.70	16.05	-0.1
27-Jul 3:30	4.06	343.6	68.83	15.10	-0.1
27-Jul 4:00	2.82	332.2	70.49	14.41	-0.2
27-Jul 4:30	5.92	330.7	73.64	14.11	-0.1
27-Jul 5:00	5.63	332.1	73.04	13.79	-0.1
27-Jul 5:30	3.38	319.0	75.11	13.98	0.1
27-Jul 6:00	3.31	310.2	76.70	13.51	8.0
27-Jul 6:30	0.00	0.0	82.32	13.82	41.7
27-Jul 7:00	1.92	195.6	85.68	12.88	129.1
27-Jul 7:30	3.44	171.0	80.24	13.55	209.7
27-Jul 8:00	1.82	196.7	73.37	15.03	212.1
27-Jul 8:30	1.78	58.2	63.20	17.65	410.3
27-Jul 9:00	6.54	18.6	59.71	17.51	513.1
27-Jul 9:30	8.84	41.2	54.30	17.83	612.7
27-Jul 10:00	7.24	53.7	50.07	18.40	709.0
27-Jul 10:30	8.38	55.8	49.54	18.81	792.1
27-Jul 11:00	5.46	39.5	47.13	19.37	861.6
27-Jul 11:30	6.35	51.1	46.39	19.84	915.0
27-Jul 12:00	6.21	21.2	43.63	20.28	970.2
27-Jul 12:30	3.00	54.1	43.46	21.09	1019.2
27-Jul 13:00	3.53	34.0	40.95	21.32	1020.4
27-Jul 13:30	2.88	27.2	38.87	22.81	1044.0
27-Jul 14:00	3.38	60.8	42.53	22.16	1040.6
27-Jul 14:30	3.98	205.0	34.69	23.27	1000.6
27-Jul 15:00	1.52	344.3	36.07	24.58	880.5
27-Jul 15:30	2.14	253.3	32.83	24.73	835.3
27-Jul 16:00	0.00	0.0	31.18	25.46	814.8
27-Jul 16:30	3.95	232.6	34.42	25.55	728.4
27-Jul 17:00	7.52	319.1	33.86	24.98	567.4
27-Jul 17:30	7.78	280.8	35.54	24.60	358.4
27-Jul 18:00	4.62	302.2	39.29	24.70	365.6
27-Jul 18:30	3.92	293.6	38.49	24.50	316.1
27-Jul 19:00	7.19	322.2	40.62	23.61	146.1
27-Jul 19:30	7.89	308.4	42.04	22.63	76.8
27-Jul 20:00	2.14	333.7	49.49	21.69	29.0
27-Jul 20:30	2.56	359.7	55.21	21.01	0.9
27-Jul 21:00	4.15	42.2	55.51	20.21	-0.1
27-Jul 21:30	2.79	6.2	63.17	19.77	-0.1
27-Jul 22:00	3.49	38.1	69.80	19.13	-0.1

27-Jul 22:30	1.88	49.0	70.05	18.59	-0.1
27-Jul 23:00	2.29	343.3	71.47	17.99	-0.1
27-Jul 23:30	1.74	87.6	81.16	17.02	-0.1
28-Jul 0:00	2.77	293.0	79.17	15.93	-0.1
28-Jul 0:30	0.38	247.8	81.04	15.48	-0.1
28-Jul 1:00	0.00	0.0	84.07	15.27	0.0
28-Jul 1:30	3.48	294.2	85.00	14.33	-0.1
28-Jul 2:00	2.77	196.3	85.17	13.82	-0.1
28-Jul 2:30	0.74	283.1	87.87	13.38	-0.1
28-Jul 3:00	0.00	0.0	96.67	13.64	-0.1
28-Jul 3:30	1.76	301.5	96.37	12.60	-0.1
28-Jul 4:00	3.73	192.9	96.59	11.66	-0.2
28-Jul 4:30	0.00	0.0	95.12	11.85	-0.1
28-Jul 5:00	4.71	18.3	96.66	13.06	-0.1
28-Jul 5:30	2.96	48.7	102.07	13.01	0.1
28-Jul 6:00	2.90	192.0	102.44	10.78	5.5
28-Jul 6:30	1.69	295.1	105.82	11.14	34.4
28-Jul 7:00	3.79	13.5	96.71	13.16	82.3
28-Jul 7:30	5.50	13.6	91.95	13.88	198.4
28-Jul 8:00	5.85	44.6	87.02	14.54	315.3
28-Jul 8:30	6.10	39.8	87.08	15.12	268.4
28-Jul 9:00	6.36	359.5	74.85	16.58	448.2
28-Jul 9:30	4.02	6.4	75.83	17.26	350.8
28-Jul 10:00	1.40	353.4	72.99	18.09	391.0
28-Jul 10:30	0.22	35.8	68.07	19.77	809.9
28-Jul 11:00	2.49	2.6	64.81	21.29	783.1
28-Jul 11:30	3.51	0.5	60.64	22.04	423.5
28-Jul 12:00	1.48	0.3	54.43	23.42	1018.2
28-Jul 12:30	1.03	238.7	52.49	22.83	930.5
28-Jul 13:00	3.39	248.6	44.01	24.45	1017.4
28-Jul 13:30	0.66	46.8	45.95	23.95	515.6
28-Jul 14:00	5.34	210.5	50.07	23.21	309.8
28-Jul 14:30	3.84	154.4	48.60	23.81	252.1
28-Jul 15:00	0.77	152.0	45.63	24.14	615.0
28-Jul 15:30	3.41	235.8	40.45	24.75	892.8
28-Jul 16:00	4.07	230.6	45.03	24.67	427.5
28-Jul 16:30	5.92	162.8	46.00	24.85	418.8
28-Jul 17:00	3.19	109.0	46.06	24.82	663.4
28-Jul 17:30	4.11	218.6	47.87	24.44	423.4
28-Jul 18:00	2.15	186.0	48.32	24.77	387.8
28-Jul 18:30	4.74	174.9	50.43	23.67	99.4
28-Jul 19:00	0.56	185.0	48.42	23.97	160.4
28-Jul 19:30	2.52	140.8	53.30	23.38	72.3
28-Jul 20:00	1.97	141.9	58.25	22.70	24.4
28-Jul 20:30	1.03	175.8	63.67	21.22	0.8
28-Jul 21:00	2.34	135.4	63.26	21.28	-0.1
28-Jul 21:30	0.00	0.0	64.97	20.54	-0.1
28-Jul 22:00	4.01	155.4	62.76	20.55	-0.1
28-Jul 22:30	2.53	194.9	67.74	19.70	-0.1
28-Jul 23:00	0.41	198.5	69.47	19.41	-0.1

28-Jul 23:30	4.19	160.4	68.16	19.40	-0.1
29-Jul 0:00	3.59	116.6	69.75	19.16	-0.1
29-Jul 0:30	0.00	0.0	75.50	18.59	-0.1
29-Jul 1:00	1.81	281.4	78.54	17.91	-0.2
29-Jul 1:30	1.87	267.9	77.69	18.14	-0.1
29-Jul 2:00	1.66	283.9	80.42	17.61	-0.1
29-Jul 2:30	2.28	103.7	83.19	17.82	-0.1
29-Jul 3:00	2.72	36.2	81.85	17.93	-0.1
29-Jul 3:30	3.30	61.1	82.71	17.66	-0.1
29-Jul 4:00	4.50	13.3	87.71	17.03	-0.1
29-Jul 4:30	3.59	27.2	90.13	17.21	-0.1
29-Jul 5:00	4.72	30.6	91.11	16.72	-0.1
29-Jul 5:30	4.84	359.0	92.82	16.40	-0.1
29-Jul 6:00	5.36	11.9	92.16	16.52	3.5
29-Jul 6:30	4.30	32.9	95.11	16.25	30.4
29-Jul 7:00	5.51	21.6	90.98	16.37	76.1
29-Jul 7:30	4.87	11.4	87.76	17.33	169.8
29-Jul 8:00	3.32	54.5	77.84	18.39	281.1
29-Jul 8:30	4.40	82.2	77.98	18.67	284.6
29-Jul 9:00	4.45	70.6	76.27	19.10	435.7
29-Jul 9:30	5.90	93.0	71.61	19.80	411.2
29-Jul 10:00	3.93	102.1	71.51	19.63	399.3
29-Jul 10:30	3.47	145.8	67.73	20.28	339.9
29-Jul 11:00	10.37	78.5	61.49	20.94	615.7
29-Jul 11:30	8.22	68.8	59.55	21.13	322.8
29-Jul 12:00	5.46	138.6	59.20	21.38	342.3
29-Jul 12:30	3.41	106.6	57.50	21.53	568.5
29-Jul 13:00	5.49	53.5	57.16	22.02	437.3
29-Jul 13:30	8.24	50.6	52.36	22.12	649.0
29-Jul 14:00	9.61	102.0	51.51	22.66	676.9
29-Jul 14:30	6.32	76.3	50.88	22.53	673.4
29-Jul 15:00	3.66	42.0	55.46	22.07	212.6
29-Jul 15:30	0.99	26.5	57.54	21.78	126.5
29-Jul 16:00	5.15	67.9	57.49	21.82	122.4
29-Jul 16:30	1.40	70.8	58.05	21.72	113.0
29-Jul 17:00	5.87	79.0	59.58	21.53	87.3
29-Jul 17:30	5.81	61.6	58.94	21.14	57.7
29-Jul 18:00	7.04	68.2	62.36	20.86	89.6
29-Jul 18:30	3.16	111.9	64.61	20.70	69.1
29-Jul 19:00	3.51	62.1	73.25	19.85	29.6
29-Jul 19:30	7.15	57.2	71.79	19.80	17.7
29-Jul 20:00	10.32	32.0	84.29	18.78	3.0
29-Jul 20:30	2.06	51.0	83.15	18.24	0.4
29-Jul 21:00	1.45	53.4	79.77	18.68	-0.1
29-Jul 21:30	8.35	38.2	73.01	19.12	-0.1
29-Jul 22:00	6.92	33.1	74.42	19.24	-0.1
29-Jul 22:30	4.70	43.9	75.10	19.29	-0.1
29-Jul 23:00	7.13	61.9	73.96	19.20	-0.1
29-Jul 23:30	7.44	43.3	76.00	19.24	-0.1
30-Jul 0:00	4.67	55.3	77.25	19.08	-0.1

30-Jul 0:30	4.15	44.1	77.61	19.01	-0.1
30-Jul 1:00	3.26	52.5	77.34	18.97	-0.1
30-Jul 1:30	4.10	58.9	80.14	18.66	-0.1
30-Jul 2:00	3.80	70.3	80.95	18.59	-0.1
30-Jul 2:30	1.90	49.7	83.24	18.51	-0.1
30-Jul 3:00	3.97	67.8	89.37	17.71	-0.1
30-Jul 3:30	6.94	25.3	89.85	17.58	-0.1
30-Jul 4:00	4.14	43.8	87.82	18.16	-0.1
30-Jul 4:30	7.20	48.8	84.76	18.57	-0.1
30-Jul 5:00	8.71	21.1	85.16	18.19	-0.1
30-Jul 5:30	10.38	35.5	87.71	17.92	-0.1
30-Jul 6:00	10.58	36.8	90.76	17.58	2.0
30-Jul 6:30	5.72	42.9	87.83	17.60	11.9
30-Jul 7:00	8.23	34.0	84.31	17.95	20.8
30-Jul 7:30	7.67	45.3	86.23	18.04	66.2
30-Jul 8:00	7.49	33.4	83.70	17.96	74.8
30-Jul 8:30	8.11	38.2	82.74	18.21	152.1
30-Jul 9:00	7.56	27.8	80.18	18.74	278.4
30-Jul 9:30	5.54	28.8	81.05	19.07	284.2
30-Jul 10:00	7.03	23.3	78.37	19.31	312.8
30-Jul 10:30	5.67	41.5	73.27	19.71	393.4
30-Jul 11:00	4.88	17.4	69.96	20.15	382.8
30-Jul 11:30	6.89	13.6	66.05	20.73	555.5
30-Jul 12:00	6.07	23.5	59.86	21.77	658.6
30-Jul 12:30	2.29	45.5	50.11	22.37	750.7
30-Jul 13:00	5.41	45.0	53.64	22.63	668.8
30-Jul 13:30	6.23	0.8	48.46	23.25	1001.5
30-Jul 14:00	8.16	20.1	47.45	23.55	1061.2
30-Jul 14:30	3.72	352.9	41.81	24.76	1126.3
30-Jul 15:00	2.15	0.2	39.32	25.53	1008.7
30-Jul 15:30	4.76	26.7	41.31	24.95	924.9
30-Jul 16:00	4.59	23.2	38.75	25.98	921.4
30-Jul 16:30	3.78	27.6	41.40	25.65	824.8
30-Jul 17:00	2.92	44.8	40.67	25.27	401.4
30-Jul 17:30	3.08	52.0	42.86	25.80	534.6
30-Jul 18:00	3.05	62.3	39.06	26.04	424.1
30-Jul 18:30	4.63	48.2	43.20	25.47	298.3
30-Jul 19:00	3.32	15.9	40.64	25.52	206.3
30-Jul 19:30	2.79	69.8	49.70	24.38	111.3
30-Jul 20:00	3.02	98.5	56.17	23.05	18.5
30-Jul 20:30	2.33	230.3	65.00	21.14	1.0
30-Jul 21:00	0.00	0.0	63.52	21.34	-0.1
30-Jul 21:30	1.91	87.4	66.13	21.21	-0.1
30-Jul 22:00	1.72	195.4	72.04	20.05	-0.1
30-Jul 22:30	0.00	0.0	80.02	18.89	-0.1
30-Jul 23:00	2.44	348.0	83.68	19.30	-0.1
30-Jul 23:30	0.19	185.4	85.59	18.50	-0.1
31-Jul 0:00	2.69	200.4	86.42	17.50	-0.1
31-Jul 0:30	1.13	320.3	83.34	18.05	-0.1
31-Jul 1:00	1.55	279.8	89.11	17.47	-0.1

31-Jul 1:30	0.86	293.4	93.79	16.98	-0.1
31-Jul 2:00	0.00	0.0	94.51	16.72	-0.1
31-Jul 2:30	2.10	231.9	97.77	15.86	-0.1
31-Jul 3:00	1.67	231.8	101.54	15.33	-0.2
31-Jul 3:30	2.57	233.5	101.31	14.94	-0.1
31-Jul 4:00	0.07	144.2	103.86	14.99	0.0
31-Jul 4:30	0.00	0.0	103.38	14.94	-0.1
31-Jul 5:00	1.59	302.2	102.87	15.10	-0.1
31-Jul 5:30	0.37	221.3	103.86	14.77	0.0
31-Jul 6:00	2.74	221.0	107.48	13.82	2.4
31-Jul 6:30	1.41	267.0	108.71	14.08	17.6
31-Jul 7:00	2.59	232.0	108.58	13.62	49.3
31-Jul 7:30	0.00	0.0	108.69	14.38	84.6
31-Jul 8:00	0.00	0.0	106.06	16.42	277.7
31-Jul 8:30	2.05	158.7	88.88	17.82	363.3
31-Jul 9:00	4.17	211.8	75.61	20.62	537.3
31-Jul 9:30	0.00	0.0	64.05	23.95	602.7
31-Jul 10:00	2.72	62.9	66.68	23.55	675.5
31-Jul 10:30	3.81	106.9	61.19	24.83	911.9
31-Jul 11:00	1.89	182.5	61.23	24.91	240.3
31-Jul 11:30	2.01	106.8	56.63	25.89	397.8
31-Jul 12:00	2.73	23.3	49.64	27.11	302.6
31-Jul 12:30	1.55	343.8	47.55	26.68	700.9
31-Jul 13:00	1.61	53.2	52.90	26.13	1086.8
31-Jul 13:30	7.00	72.4	53.19	25.89	323.1
31-Jul 14:00	6.60	69.7	57.79	25.12	170.4
31-Jul 14:30	2.16	145.1	63.58	24.72	204.1
31-Jul 15:00	0.58	295.7	60.31	25.77	829.4
31-Jul 15:30	5.85	135.4	55.95	25.51	229.4
31-Jul 16:00	5.79	56.4	57.69	25.73	212.4
31-Jul 16:30	4.49	86.7	59.19	24.55	117.8
31-Jul 17:00	0.00	0.0	58.69	24.88	203.6
31-Jul 17:30	3.60	189.6	59.40	25.45	487.6
31-Jul 18:00	7.28	226.4	64.41	24.34	261.0
31-Jul 18:30	6.26	182.1	71.58	22.70	80.3
31-Jul 19:00	2.71	197.1	74.46	22.20	58.3
31-Jul 19:30	3.37	178.5	76.61	21.84	44.6
31-Jul 20:00	2.55	195.2	77.95	21.32	11.1
31-Jul 20:30	0.00	0.0	83.73	20.32	0.8
31-Jul 21:00	0.00	0.0	88.29	19.42	-0.1
31-Jul 21:30	0.00	0.0	89.45	19.20	-0.2
31-Jul 22:00	1.70	246.9	94.53	18.27	-0.2
31-Jul 22:30	2.74	236.2	99.43	17.14	-0.2
31-Jul 23:00	3.71	288.9	93.10	17.68	-0.1
31-Jul 23:30	0.00	0.0	99.11	17.09	-0.1
1-Aug 0:00	2.28	230.1	100.92	16.59	-0.1
1-Aug 0:30	3.24	180.6	103.25	16.00	-0.1
1-Aug 1:00	2.18	215.1	105.59	15.39	-0.2
1-Aug 1:30	2.59	233.4	105.02	15.68	-0.2
1-Aug 2:00	2.54	248.2	104.36	15.16	-0.2

1-Aug 2:30	2.87	233.9	105.80	14.44	-0.2
1-Aug 3:00	2.57	209.0	107.35	14.50	-0.2
1-Aug 3:30	0.88	239.7	108.01	14.23	-0.2
1-Aug 4:00	1.89	243.0	107.79	14.52	-0.2
1-Aug 4:30	2.81	241.7	106.07	14.12	-0.1
1-Aug 5:00	1.04	215.0	108.23	14.17	-0.2
1-Aug 5:30	2.28	223.4	108.33	13.42	-0.1
1-Aug 6:00	0.93	239.5	108.49	12.95	3.7
1-Aug 6:30	1.26	161.4	108.72	13.22	24.3
1-Aug 7:00	0.44	172.2	108.72	13.79	59.6
1-Aug 7:30	0.00	0.0	108.21	14.35	126.9
1-Aug 8:00	2.01	188.4	106.95	14.74	192.7
1-Aug 8:30	2.48	240.4	96.76	16.76	345.2
1-Aug 9:00	1.86	126.6	87.71	19.00	449.4
1-Aug 9:30	5.21	223.9	79.49	21.12	548.7
1-Aug 10:00	3.36	211.3	77.93	22.22	639.7
1-Aug 10:30	2.60	139.7	72.81	24.08	729.0
1-Aug 11:00	5.42	225.7	69.33	25.19	811.8
1-Aug 11:30	1.02	112.0	61.94	26.87	871.1
1-Aug 12:00	5.00	260.8	53.63	27.77	937.9
1-Aug 12:30	4.83	226.3	53.88	28.01	1005.8
1-Aug 13:00	1.23	211.3	42.49	29.43	989.1
1-Aug 13:30	5.78	236.1	41.81	29.29	1017.3
1-Aug 14:00	4.50	192.0	38.42	29.41	1007.0
1-Aug 14:30	5.12	169.1	34.19	30.36	1006.4
1-Aug 15:00	8.06	234.3	35.74	30.39	1052.0
1-Aug 15:30	2.90	201.7	40.23	30.49	538.4
1-Aug 16:00	2.10	145.0	37.21	30.58	811.1
1-Aug 16:30	7.20	184.8	40.13	29.88	716.6
1-Aug 17:00	3.95	156.3	40.13	30.27	656.7
1-Aug 17:30	3.55	157.8	38.86	30.16	561.0
1-Aug 18:00	6.55	163.2	42.60	29.74	378.4
1-Aug 18:30	6.19	176.2	44.82	28.99	241.4
1-Aug 19:00	6.04	188.3	47.79	28.32	168.3
1-Aug 19:30	2.91	173.7	50.06	27.86	73.3
1-Aug 20:00	0.00	0.0	55.61	26.65	12.1
1-Aug 20:30	1.15	333.4	63.48	25.37	0.5
1-Aug 21:00	0.00	0.0	74.80	23.84	-0.1
1-Aug 21:30	1.29	238.7	74.76	22.55	-0.1
1-Aug 22:00	1.59	317.6	79.22	22.31	-0.1
1-Aug 22:30	0.00	0.0	77.23	21.73	-0.1
1-Aug 23:00	0.34	93.1	80.99	21.17	-0.2
1-Aug 23:30	2.24	209.8	85.92	19.94	-0.1
2-Aug 0:00	1.66	221.1	88.08	19.54	-0.1
2-Aug 0:30	1.87	213.1	89.03	19.21	-0.1
2-Aug 1:00	2.07	202.7	95.03	17.80	-0.1
2-Aug 1:30	2.14	239.0	97.99	17.59	-0.1
2-Aug 2:00	1.82	221.6	97.44	17.70	-0.1
2-Aug 2:30	0.24	211.1	98.01	17.60	-0.1
2-Aug 3:00	2.22	238.3	98.49	17.32	-0.1

2-Aug 3:30	2.46	232.3	100.96	16.74	-0.1
2-Aug 4:00	1.21	268.6	102.39	16.02	-0.1
2-Aug 4:30	0.69	236.0	103.66	16.15	-0.1
2-Aug 5:00	1.75	215.1	105.18	15.60	-0.1
2-Aug 5:30	0.75	226.2	104.59	15.54	-0.1
2-Aug 6:00	2.61	217.8	104.75	15.52	2.9
2-Aug 6:30	1.88	208.6	105.29	15.42	25.9
2-Aug 7:00	1.25	184.1	101.44	15.80	90.4
2-Aug 7:30	1.53	193.5	94.69	16.92	162.7
2-Aug 8:00	1.79	194.9	89.39	18.39	240.3
2-Aug 8:30	3.03	144.3	81.71	20.25	335.0
2-Aug 9:00	2.33	150.9	74.21	21.84	437.0
2-Aug 9:30	2.56	219.7	69.54	22.95	548.8
2-Aug 10:00	2.31	173.6	65.31	24.24	635.2
2-Aug 10:30	2.78	137.2	60.77	26.01	717.4
2-Aug 11:00	6.57	223.7	59.72	26.02	796.4
2-Aug 11:30	7.67	185.4	48.09	27.53	869.9
2-Aug 12:00	10.77	230.8	48.29	28.22	918.3
2-Aug 12:30	6.44	201.7	41.92	28.45	941.9
2-Aug 13:00	5.88	226.6	43.11	29.29	959.9
2-Aug 13:30	2.95	181.2	41.06	30.21	965.2
2-Aug 14:00	6.12	178.7	36.63	30.26	979.1
2-Aug 14:30	7.89	200.1	35.67	30.51	948.1
2-Aug 15:00	1.90	188.5	37.64	30.81	897.4
2-Aug 15:30	5.53	185.7	36.36	30.81	850.5
2-Aug 16:00	8.22	184.4	34.63	30.60	784.1
2-Aug 16:30	6.56	205.6	32.51	31.47	704.4
2-Aug 17:00	7.72	210.8	32.35	30.59	587.6
2-Aug 17:30	7.27	172.1	32.15	30.94	510.2
2-Aug 18:00	9.53	184.2	31.84	30.52	374.8
2-Aug 18:30	4.30	193.6	32.72	30.31	304.6
2-Aug 19:00	3.13	162.3	33.94	29.82	182.2
2-Aug 19:30	3.90	174.6	35.55	29.07	83.7
2-Aug 20:00	2.67	174.7	40.28	27.59	13.1
2-Aug 20:30	1.65	194.3	45.11	26.15	0.4
2-Aug 21:00	3.61	176.3	50.12	25.63	-0.1
2-Aug 21:30	1.90	228.8	55.33	24.54	-0.1
2-Aug 22:00	2.46	197.5	60.97	23.54	-0.1
2-Aug 22:30	1.78	217.8	63.21	23.14	-0.2
2-Aug 23:00	2.08	213.3	67.80	22.30	-0.1
2-Aug 23:30	2.57	202.8	74.24	20.89	-0.1
3-Aug 0:00	1.81	195.2	75.79	20.77	-0.1
3-Aug 0:30	2.27	225.6	79.27	20.23	-0.1
3-Aug 1:00	1.53	193.5	81.80	20.08	-0.1
3-Aug 1:30	2.25	193.8	86.57	19.09	-0.1
3-Aug 2:00	2.05	218.5	86.15	19.17	-0.1
3-Aug 2:30	2.92	218.4	85.11	19.43	-0.1
3-Aug 3:00	3.11	215.1	85.79	19.22	-0.2
3-Aug 3:30	2.65	222.7	86.51	18.95	-0.1
3-Aug 4:00	2.42	240.7	88.23	18.69	-0.1

3-Aug 4:30	1.58	158.5	90.60	18.20	-0.1
3-Aug 5:00	2.26	190.5	88.94	18.62	-0.1
3-Aug 5:30	1.92	230.5	85.95	18.79	-0.1
3-Aug 6:00	3.21	179.8	88.39	18.56	1.8
3-Aug 6:30	1.61	182.8	94.88	17.74	13.4
3-Aug 7:00	0.00	0.0	91.35	18.36	41.7
3-Aug 7:30	1.48	167.9	89.95	18.82	95.3
3-Aug 8:00	2.29	181.7	84.88	20.02	230.3
3-Aug 8:30	2.21	190.7	81.10	21.15	189.3
3-Aug 9:00	7.78	234.9	71.39	22.71	228.4
3-Aug 9:30	1.88	176.7	71.15	23.12	242.0
3-Aug 10:00	1.83	192.6	70.04	23.70	265.5
3-Aug 10:30	3.65	146.2	68.20	24.66	363.9
3-Aug 11:00	7.13	179.2	66.35	25.11	352.2
3-Aug 11:30	4.45	152.0	66.35	25.17	359.0
3-Aug 12:00	8.17	217.7	66.27	25.30	334.4
3-Aug 12:30	7.19	197.8	63.34	26.41	586.9
3-Aug 13:00	6.85	198.4	62.86	27.01	414.6
3-Aug 13:30	4.34	173.8	61.24	27.68	401.1
3-Aug 14:00	3.09	198.0	59.51	28.38	573.5
3-Aug 14:30	8.49	204.5	59.68	28.54	626.5
3-Aug 15:00	4.81	204.8	61.26	27.94	594.6
3-Aug 15:30	7.80	182.7	56.40	28.92	745.6
3-Aug 16:00	8.97	212.0	58.74	28.55	712.6
3-Aug 16:30	6.17	194.5	57.23	29.19	389.9
3-Aug 17:00	4.76	188.6	58.54	29.02	449.9
3-Aug 17:30	4.15	173.3	57.23	29.33	392.3
3-Aug 18:00	4.46	195.1	60.67	28.47	55.4
3-Aug 18:30	5.54	55.8	72.49	24.58	29.6
3-Aug 19:00	17.73	335.4	107.12	20.14	13.6
3-Aug 19:30	2.78	53.8	108.57	20.95	0.7
3-Aug 20:00	6.88	52.5	108.66	20.99	0.2
3-Aug 20:30	7.62	59.5	108.73	20.27	-0.1
3-Aug 21:00	3.21	51.8	108.84	19.58	-0.1
3-Aug 21:30	0.00	0.0	108.89	19.43	-0.1
3-Aug 22:00	2.75	276.9	109.05	19.72	-0.1
3-Aug 22:30	4.35	222.3	109.08	19.47	-0.1
3-Aug 23:00	8.02	198.2	109.19	19.66	-0.1
3-Aug 23:30	3.43	126.8	109.19	19.51	-0.1
4-Aug 0:00	0.00	0.0	109.24	19.51	-0.1
4-Aug 0:30	2.53	175.8	109.26	19.44	-0.1
4-Aug 1:00	1.65	205.4	109.31	19.49	-0.1
4-Aug 1:30	0.00	0.0	109.36	19.52	-0.1
4-Aug 2:00	0.00	0.0	109.38	19.69	-0.1
4-Aug 2:30	1.11	207.2	109.38	19.53	-0.1
4-Aug 3:00	2.24	234.9	109.40	19.60	0.0
4-Aug 3:30	0.00	0.0	109.40	19.57	-0.1
4-Aug 4:00	0.00	0.0	109.43	19.68	-0.1
4-Aug 4:30	1.22	89.4	109.39	19.94	-0.1
4-Aug 5:00	1.71	190.9	109.42	19.70	-0.1

4-Aug 5:30	0.00	0.0	109.46	19.44	-0.1
4-Aug 6:00	0.00	0.0	109.49	19.52	0.9
4-Aug 6:30	0.00	0.0	109.48	19.55	13.8
4-Aug 7:00	1.74	229.9	109.48	19.61	18.5
4-Aug 7:30	2.76	136.2	109.49	19.62	18.9
4-Aug 8:00	0.00	0.0	109.47	19.83	28.3
4-Aug 8:30	2.38	204.6	109.42	20.03	41.0
4-Aug 9:00	2.82	175.1	109.33	20.26	81.5
4-Aug 9:30	2.28	268.6	109.24	20.56	124.3
4-Aug 10:00	0.00	0.0	109.04	21.28	240.4
4-Aug 10:30	1.10	47.1	107.68	22.03	408.7
4-Aug 11:00	2.10	5.3	104.86	22.55	445.0
4-Aug 11:30	3.06	46.5	96.51	22.83	763.7
4-Aug 12:00	2.86	60.0	88.92	24.33	842.7
4-Aug 12:30	4.15	10.4	83.44	25.42	647.6
4-Aug 13:00	15.56	215.0	106.35	22.22	30.8
4-Aug 13:30	3.14	230.6	108.37	20.87	174.2
4-Aug 14:00	0.13	328.6	107.09	22.59	1002.6
4-Aug 14:30	0.00	0.0	104.46	24.90	972.6
4-Aug 15:00	0.00	0.0	100.44	26.32	984.8
4-Aug 15:30	2.12	169.4	88.38	25.79	120.5
4-Aug 16:00	1.87	110.3	96.67	24.65	93.3
4-Aug 16:30	0.00	0.0	95.38	24.55	388.8
4-Aug 17:00	0.00	0.0	80.68	26.02	563.8
4-Aug 17:30	2.54	30.7	72.01	27.86	520.5
4-Aug 18:00	2.43	14.2	66.86	27.69	332.4
4-Aug 18:30	8.74	13.6	74.86	25.40	169.8
4-Aug 19:00	6.91	24.0	79.54	24.93	35.4
4-Aug 19:30	3.83	45.8	86.09	23.69	22.2
4-Aug 20:00	2.26	165.5	84.66	22.97	16.0
4-Aug 20:30	4.92	96.7	85.62	22.20	0.2
4-Aug 21:00	5.24	144.7	83.35	22.63	-0.1
4-Aug 21:30	0.00	0.0	86.82	22.13	-0.1
4-Aug 22:00	0.47	218.3	91.95	21.31	-0.1
4-Aug 22:30	1.88	137.2	93.55	21.28	-0.1
4-Aug 23:00	0.49	242.0	101.41	20.47	-0.1
4-Aug 23:30	1.26	215.0	105.54	19.90	-0.1
5-Aug 0:00	0.07	177.7	106.38	19.66	-0.1
5-Aug 0:30	1.41	159.3	107.71	19.28	-0.1
5-Aug 1:00	3.11	278.5	106.55	19.38	-0.1
5-Aug 1:30	1.69	312.4	106.73	19.67	-0.1
5-Aug 2:00	0.00	0.0	107.63	19.20	-0.1
5-Aug 2:30	1.27	230.7	107.41	19.21	-0.1
5-Aug 3:00	0.00	0.0	108.70	19.50	-0.1
5-Aug 3:30	0.00	0.0	108.97	19.43	-0.1
5-Aug 4:00	2.17	231.9	108.96	18.75	-0.1
5-Aug 4:30	0.79	232.7	109.07	18.81	-0.1
5-Aug 5:00	2.02	214.8	109.17	18.57	-0.1
5-Aug 5:30	1.61	191.3	109.36	18.42	-0.1
5-Aug 6:00	0.00	0.0	109.36	18.68	1.2

5-Aug 6:30	0.10	282.7	109.40	18.42	15.8
5-Aug 7:00	0.00	0.0	109.35	18.79	51.0
5-Aug 7:30	2.12	215.3	109.32	18.99	72.8
5-Aug 8:00	0.00	0.0	109.29	19.04	84.4
5-Aug 8:30	1.62	198.9	109.20	19.02	99.6
5-Aug 9:00	1.24	269.8	108.43	19.54	193.6
5-Aug 9:30	1.96	346.4	99.39	20.88	439.8
5-Aug 10:00	2.30	330.5	90.38	22.36	689.2
5-Aug 10:30	0.00	0.0	74.55	25.73	713.9
5-Aug 11:00	1.68	18.3	76.73	25.73	759.0
5-Aug 11:30	1.61	24.6	71.20	26.79	854.7
5-Aug 12:00	0.68	354.1	64.08	27.99	903.5
5-Aug 12:30	1.92	10.2	53.88	30.27	952.5
5-Aug 13:00	3.16	352.0	54.76	29.82	977.2
5-Aug 13:30	1.48	359.5	46.83	31.46	978.2
5-Aug 14:00	0.00	0.0	42.66	31.98	984.0
5-Aug 14:30	1.77	47.4	46.61	30.88	980.2
5-Aug 15:00	2.01	54.4	46.58	31.24	1005.4
5-Aug 15:30	1.85	51.0	44.91	31.85	514.5
5-Aug 16:00	0.00	0.0	47.86	31.75	739.1
5-Aug 16:30	5.16	231.3	49.49	31.55	635.4
5-Aug 17:00	0.85	188.4	50.28	31.78	585.2
5-Aug 17:30	3.29	188.1	53.39	30.89	137.1
5-Aug 18:00	1.01	221.0	59.70	30.03	142.3
5-Aug 18:30	4.21	180.7	58.47	30.08	257.0
5-Aug 19:00	3.28	202.3	59.78	29.71	135.2
5-Aug 19:30	0.37	157.6	71.37	28.51	44.5
5-Aug 20:00	2.37	162.5	73.39	27.37	11.2
5-Aug 20:30	1.81	85.6	81.45	25.72	0.4
5-Aug 21:00	0.00	0.0	88.78	25.21	-0.1
5-Aug 21:30	3.73	285.5	89.30	24.69	-0.1
5-Aug 22:00	3.42	62.3	91.35	24.20	-0.1
5-Aug 22:30	2.19	327.9	93.21	23.61	-0.1
5-Aug 23:00	2.34	356.3	94.71	23.63	-0.1
5-Aug 23:30	1.26	349.8	96.97	23.37	-0.1
6-Aug 0:00	2.86	343.0	97.21	23.02	-0.1
6-Aug 0:30	2.72	33.7	97.96	22.77	-0.1
6-Aug 1:00	2.01	309.8	96.53	22.16	-0.1
6-Aug 1:30	2.46	245.5	103.91	21.09	-0.1
6-Aug 2:00	0.00	0.0	104.37	21.01	-0.1
6-Aug 2:30	2.08	263.0	102.64	20.88	-0.1
6-Aug 3:00	0.00	0.0	106.28	20.56	-0.1
6-Aug 3:30	0.00	0.0	107.22	20.13	-0.1
6-Aug 4:00	2.15	318.3	105.78	20.61	-0.1
6-Aug 4:30	0.92	207.3	106.35	20.35	0.0
6-Aug 5:00	1.94	166.8	107.56	19.01	-0.1
6-Aug 5:30	1.07	222.8	108.57	19.40	0.0
6-Aug 6:00	0.00	0.0	108.90	19.65	2.7
6-Aug 6:30	2.02	223.6	108.90	18.72	21.8
6-Aug 7:00	2.71	220.2	108.90	18.82	67.5

6-Aug 7:30	2.09	209.7	108.67	19.38	139.7
6-Aug 8:00	2.17	230.5	105.86	20.22	243.4
6-Aug 8:30	1.35	165.5	98.98	21.62	319.7
6-Aug 9:00	2.12	134.3	87.85	23.60	413.0
6-Aug 9:30	1.45	212.2	81.31	25.44	508.5
6-Aug 10:00	3.96	171.7	76.23	26.70	589.9
6-Aug 10:30	6.05	209.3	73.26	27.81	672.1
6-Aug 11:00	1.17	199.6	66.19	29.57	750.7
6-Aug 11:30	4.38	224.3	63.53	30.11	852.5
6-Aug 12:00	3.88	189.8	51.79	31.59	942.6
6-Aug 12:30	4.12	167.0	51.70	31.59	495.5
6-Aug 13:00	3.38	122.7	50.63	31.98	955.4
6-Aug 13:30	5.88	159.3	48.59	32.17	996.2
6-Aug 14:00	5.12	183.7	52.54	31.56	925.3
6-Aug 14:30	2.91	104.4	52.52	31.44	578.8
6-Aug 15:00	2.19	140.2	52.18	31.88	789.5
6-Aug 15:30	4.64	132.0	49.68	32.35	800.2
6-Aug 16:00	2.82	108.7	47.87	32.22	722.3
6-Aug 16:30	8.60	171.7	48.90	32.39	663.8
6-Aug 17:00	5.74	173.2	46.91	32.52	520.8
6-Aug 17:30	4.42	214.3	48.95	32.01	416.5
6-Aug 18:00	6.00	186.5	50.39	32.11	308.6
6-Aug 18:30	3.06	196.5	50.36	31.52	206.6
6-Aug 19:00	1.16	188.7	54.09	31.10	128.6
6-Aug 19:30	0.38	208.1	62.02	30.01	51.4
6-Aug 20:00	0.00	0.0	70.76	28.90	12.0
6-Aug 20:30	0.00	0.0	76.42	27.41	0.4
6-Aug 21:00	0.70	48.5	83.83	26.30	-0.1
6-Aug 21:30	0.00	0.0	85.14	25.65	-0.1
6-Aug 22:00	1.75	240.8	85.91	24.65	-0.1
6-Aug 22:30	2.13	246.5	90.28	24.26	-0.1
6-Aug 23:00	0.00	0.0	91.98	24.24	0.0
6-Aug 23:30	0.00	0.0	92.78	23.88	-0.1
7-Aug 0:00	0.00	0.0	95.79	23.70	-0.1
7-Aug 0:30	1.80	229.0	101.08	22.19	-0.1
7-Aug 1:00	0.00	0.0	102.25	21.92	-0.1
7-Aug 1:30	1.63	218.9	100.04	22.31	-0.1
7-Aug 2:00	2.52	260.2	102.45	22.04	-0.1
7-Aug 2:30	2.59	179.2	104.88	21.24	-0.1
7-Aug 3:00	1.70	215.4	100.62	21.92	-0.1
7-Aug 3:30	0.93	218.6	105.37	21.19	-0.1
7-Aug 4:00	1.74	190.9	104.29	21.37	-0.1
7-Aug 4:30	2.77	212.1	106.19	21.00	-0.1
7-Aug 5:00	2.36	180.5	107.43	20.58	-0.1
7-Aug 5:30	0.99	260.7	104.71	20.80	-0.1
7-Aug 6:00	2.89	195.3	105.93	20.77	3.9
7-Aug 6:30	2.02	177.2	98.48	21.38	30.5
7-Aug 7:00	2.49	218.8	95.97	21.93	111.9
7-Aug 7:30	3.36	206.0	92.55	22.21	64.8
7-Aug 8:00	2.62	210.5	86.75	23.01	92.5

7-Aug 8:30	3.74	169.8	83.15	23.61	322.9
7-Aug 9:00	1.08	154.6	75.29	25.41	421.4
7-Aug 9:30	5.15	165.1	68.58	26.71	499.4
7-Aug 10:00	4.11	173.8	64.48	27.86	616.4
7-Aug 10:30	4.46	195.7	57.08	29.38	707.5
7-Aug 11:00	8.43	265.7	49.94	29.96	784.9
7-Aug 11:30	5.23	231.2	52.88	30.13	519.8
7-Aug 12:00	3.88	200.5	45.61	31.60	881.4
7-Aug 12:30	2.33	87.2	45.61	31.86	761.9
7-Aug 13:00	5.56	243.8	41.04	33.29	1002.0
7-Aug 13:30	4.53	135.5	42.08	33.33	936.8
7-Aug 14:00	4.11	153.4	42.97	33.29	959.1
7-Aug 14:30	9.20	211.3	41.11	33.16	906.5
7-Aug 15:00	6.38	204.0	41.15	33.68	876.2
7-Aug 15:30	1.83	266.2	37.94	34.10	809.5
7-Aug 16:00	3.05	182.7	41.17	34.46	733.0
7-Aug 16:30	6.61	186.7	42.29	34.44	639.6
7-Aug 17:00	7.53	153.1	47.59	33.24	114.5
7-Aug 17:30	5.28	183.2	44.64	34.11	445.1
7-Aug 18:00	4.57	177.4	47.84	33.48	327.0
7-Aug 18:30	4.00	206.0	50.87	32.53	122.8
7-Aug 19:00	4.81	194.8	51.22	31.98	135.6
7-Aug 19:30	1.67	140.2	57.93	31.11	38.0
7-Aug 20:00	0.40	252.7	60.89	30.06	5.2
7-Aug 20:30	1.50	168.2	60.05	29.72	0.2
7-Aug 21:00	2.68	159.7	73.47	27.79	0.0
7-Aug 21:30	3.67	165.8	75.16	27.55	0.0
7-Aug 22:00	1.90	177.7	72.86	27.89	0.0
7-Aug 22:30	1.60	359.0	72.10	28.11	0.0
7-Aug 23:00	1.33	43.9	80.16	27.28	0.0
7-Aug 23:30	1.97	130.3	79.37	26.67	0.0
8-Aug 0:00	0.25	328.2	79.96	26.69	0.0
8-Aug 0:30	2.66	164.7	75.78	26.44	0.0
8-Aug 1:00	1.84	232.8	95.20	23.91	-0.1
8-Aug 1:30	0.00	0.0	92.34	24.14	0.0
8-Aug 2:00	1.67	41.8	90.45	24.81	0.0
8-Aug 2:30	0.00	0.0	95.20	24.28	0.0
8-Aug 3:00	1.43	74.9	95.12	24.49	0.0
8-Aug 3:30	1.43	347.2	97.44	23.93	-0.1
8-Aug 4:00	0.00	0.0	97.01	23.75	-0.1
8-Aug 4:30	2.90	183.8	97.57	23.19	-0.1
8-Aug 5:00	3.00	220.5	101.48	22.49	-0.1
8-Aug 5:30	1.96	202.7	101.94	22.32	0.0
8-Aug 6:00	1.61	168.6	104.71	21.67	2.2
8-Aug 6:30	3.78	180.5	104.81	21.58	19.0
8-Aug 7:00	1.81	173.9	99.63	22.46	58.3
8-Aug 7:30	1.93	125.5	96.98	22.92	130.7
8-Aug 8:00	4.05	173.9	90.69	24.33	193.4
8-Aug 8:30	1.40	32.9	75.26	27.70	317.5
8-Aug 9:00	2.98	133.3	74.10	28.05	408.1

8-Aug 9:30	1.67	182.5	70.87	28.89	503.4
8-Aug 10:00	7.58	296.8	65.93	29.38	250.4
8-Aug 10:30	1.63	212.3	63.42	30.27	537.7
8-Aug 11:00	6.11	282.0	59.01	30.90	766.7
8-Aug 11:30	4.32	274.4	52.62	31.98	823.3
8-Aug 12:00	8.04	287.2	39.77	33.16	925.4
8-Aug 12:30	0.00	0.0	40.31	33.17	945.1
8-Aug 13:00	3.25	323.9	40.53	33.43	985.8
8-Aug 13:30	6.57	224.2	37.53	33.46	978.4
8-Aug 14:00	7.23	226.3	33.95	34.32	1012.5
8-Aug 14:30	5.20	297.8	35.73	34.59	638.4
8-Aug 15:00	7.99	262.6	34.66	34.63	927.7
8-Aug 15:30	4.14	297.1	34.91	34.86	737.8
8-Aug 16:00	4.29	255.0	33.29	34.86	789.4
8-Aug 16:30	4.41	310.4	33.99	34.93	449.0
8-Aug 17:00	1.35	163.8	32.08	35.88	642.4
8-Aug 17:30	3.52	329.6	36.93	34.94	282.8
8-Aug 18:00	0.32	86.6	48.92	33.04	235.5
8-Aug 18:30	0.00	0.0	46.31	32.58	197.5
8-Aug 19:00	1.63	12.6	56.69	32.23	144.5
8-Aug 19:30	0.00	0.0	70.50	29.53	46.0
8-Aug 20:00	1.11	25.1	77.54	28.76	6.2
8-Aug 20:30	2.00	236.3	85.06	27.03	0.2
8-Aug 21:00	0.00	0.0	80.32	26.48	0.0
8-Aug 21:30	0.00	0.0	85.65	25.76	0.0
8-Aug 22:00	0.00	0.0	85.11	25.79	0.0
8-Aug 22:30	2.27	222.5	89.27	23.91	-0.1
8-Aug 23:00	2.04	345.3	88.03	24.39	-0.1
8-Aug 23:30	2.43	273.7	89.63	23.83	-0.1
9-Aug 0:00	2.74	175.8	93.82	22.70	-0.1
9-Aug 0:30	2.34	219.3	94.82	22.14	-0.1
9-Aug 1:00	1.54	246.6	97.51	21.88	-0.1
9-Aug 1:30	2.07	227.6	96.74	21.91	-0.1
9-Aug 2:00	2.03	252.7	98.92	21.32	-0.1
9-Aug 2:30	1.34	238.2	100.78	20.54	-0.2
9-Aug 3:00	0.18	150.4	100.66	20.96	-0.2
9-Aug 3:30	0.12	209.0	101.34	20.59	-0.1
9-Aug 4:00	1.27	250.6	103.88	19.73	-0.1
9-Aug 4:30	1.49	291.7	101.02	19.87	-0.2
9-Aug 5:00	2.14	246.2	99.83	19.47	-0.2
9-Aug 5:30	0.00	0.0	105.37	19.04	-0.1
9-Aug 6:00	0.36	229.1	103.32	19.12	1.6
9-Aug 6:30	0.74	215.6	101.02	19.18	21.2
9-Aug 7:00	2.23	246.3	94.94	20.11	76.3
9-Aug 7:30	0.00	0.0	92.21	20.93	139.4
9-Aug 8:00	0.26	179.0	85.47	22.28	221.6
9-Aug 8:30	0.00	0.0	79.18	24.09	322.0
9-Aug 9:00	2.49	200.2	76.50	25.26	401.1
9-Aug 9:30	1.04	181.9	67.57	27.36	509.8
9-Aug 10:00	0.00	0.0	63.20	29.02	608.9

9-Aug 10:30	2.96	144.6	58.76	30.20	692.0
9-Aug 11:00	3.90	182.8	55.67	31.63	753.7
9-Aug 11:30	5.70	148.2	53.28	32.77	813.4
9-Aug 12:00	4.22	233.8	51.78	33.72	860.7
9-Aug 12:30	7.05	282.1	44.28	34.46	912.6
9-Aug 13:00	3.72	213.3	42.68	35.11	950.7
9-Aug 13:30	8.82	207.2	40.99	35.01	998.1
9-Aug 14:00	9.67	202.5	37.47	35.78	924.0
9-Aug 14:30	5.11	183.6	46.98	34.87	879.6
9-Aug 15:00	4.46	222.2	42.93	35.21	870.8
9-Aug 15:30	8.10	211.6	40.60	35.40	827.0
9-Aug 16:00	4.63	142.7	37.48	35.54	650.0
9-Aug 16:30	5.66	129.4	36.06	35.71	675.2
9-Aug 17:00	2.67	114.9	37.23	35.78	520.3
9-Aug 17:30	7.32	174.3	41.32	35.11	384.5
9-Aug 18:00	3.94	194.0	42.38	34.88	305.6
9-Aug 18:30	2.96	152.5	46.30	34.36	201.4
9-Aug 19:00	2.48	174.0	50.87	33.17	72.2
9-Aug 19:30	2.23	187.9	55.02	32.06	22.9
9-Aug 20:00	2.06	202.2	58.72	31.21	2.3
9-Aug 20:30	1.25	136.8	60.02	30.84	0.1
9-Aug 21:00	3.08	208.0	61.92	30.70	0.0
9-Aug 21:30	2.87	240.6	67.24	29.81	0.0
9-Aug 22:00	1.04	270.4	67.67	29.69	0.0
9-Aug 22:30	0.00	0.0	72.70	28.84	-0.1
9-Aug 23:00	1.11	212.9	71.70	29.02	0.0
9-Aug 23:30	2.23	304.0	80.55	27.91	0.0
10-Aug 0:00	1.82	169.1	78.45	27.85	0.0
10-Aug 0:30	0.00	0.0	82.71	27.43	0.0
10-Aug 1:00	2.44	236.9	87.74	26.11	0.0
10-Aug 1:30	0.45	182.9	87.04	26.08	0.0
10-Aug 2:00	2.45	162.9	88.36	25.68	-0.1
10-Aug 2:30	0.46	272.7	86.57	25.90	0.0
10-Aug 3:00	0.00	0.0	92.42	25.38	0.0
10-Aug 3:30	2.66	226.4	94.86	24.03	0.0
10-Aug 4:00	3.89	314.2	92.60	24.16	0.0
10-Aug 4:30	0.00	0.0	93.79	24.02	-0.1
10-Aug 5:00	2.53	260.9	93.86	23.59	0.0
10-Aug 5:30	2.28	210.5	101.50	22.56	-0.1
10-Aug 6:00	0.53	231.7	99.57	22.76	4.3
10-Aug 6:30	0.29	180.0	101.77	22.67	29.4
10-Aug 7:00	1.95	191.8	102.17	22.44	42.1
10-Aug 7:30	1.87	173.7	96.20	23.42	100.2
10-Aug 8:00	2.96	212.3	89.22	24.75	183.4
10-Aug 8:30	0.43	132.1	82.36	26.07	265.8
10-Aug 9:00	5.00	209.1	78.91	27.05	378.0
10-Aug 9:30	2.45	223.8	72.38	28.74	492.4
10-Aug 10:00	5.74	188.2	68.44	29.53	350.8
10-Aug 10:30	3.97	161.5	67.64	29.91	684.0
10-Aug 11:00	6.51	200.1	66.56	30.18	324.1

10-Aug 11:30	3.76	177.4	63.31	30.91	923.6
10-Aug 12:00	3.46	244.4	60.67	30.99	230.8
10-Aug 12:30	13.54	284.0	67.74	28.89	61.7
10-Aug 13:00	7.88	309.6	105.52	24.34	60.8
10-Aug 13:30	2.69	68.4	100.07	24.48	500.5
10-Aug 14:00	2.73	114.0	95.67	24.97	115.5
10-Aug 14:30	3.95	166.5	101.01	25.08	56.0
10-Aug 15:00	3.02	112.6	99.97	24.93	44.2
10-Aug 15:30	2.76	144.1	105.91	24.94	108.4
10-Aug 16:00	4.28	202.6	100.07	24.85	77.6
10-Aug 16:30	4.49	214.2	101.59	25.10	245.7
10-Aug 17:00	3.22	196.0	98.06	25.19	250.3
10-Aug 17:30	3.54	166.4	90.59	26.22	327.3
10-Aug 18:00	4.12	177.2	86.26	27.38	391.9
10-Aug 18:30	2.43	163.6	84.60	27.56	222.9
10-Aug 19:00	1.88	149.8	89.96	26.71	22.8
10-Aug 19:30	1.66	179.3	94.18	25.93	7.6
10-Aug 20:00	0.44	275.6	96.09	25.57	6.0
10-Aug 20:30	0.00	0.0	100.89	25.20	0.0
10-Aug 21:00	0.00	0.0	99.04	24.98	0.0
10-Aug 21:30	2.88	203.7	104.33	24.42	-0.1
10-Aug 22:00	0.76	164.2	107.20	24.01	-0.1
10-Aug 22:30	0.00	0.0	105.24	24.38	-0.1
10-Aug 23:00	0.35	133.4	105.59	24.33	-0.1
10-Aug 23:30	3.26	33.6	106.00	24.41	0.0
11-Aug 0:00	7.13	45.3	98.76	24.48	0.0
11-Aug 0:30	2.10	299.8	101.36	24.28	0.0
11-Aug 1:00	2.30	324.2	104.06	23.90	-0.1
11-Aug 1:30	0.13	288.0	102.43	23.97	-0.1
11-Aug 2:00	1.92	257.9	106.88	23.44	0.0
11-Aug 2:30	1.99	279.2	107.90	23.32	0.0
11-Aug 3:00	2.99	284.8	107.15	22.88	0.0
11-Aug 3:30	3.80	49.4	93.15	23.37	0.0
11-Aug 4:00	6.22	40.8	87.33	23.08	0.0
11-Aug 4:30	3.53	4.3	87.78	21.67	0.0
11-Aug 5:00	5.38	326.8	87.58	21.22	0.0
11-Aug 5:30	0.87	305.9	82.09	20.80	0.0
11-Aug 6:00	6.27	338.2	80.47	20.30	0.4
11-Aug 6:30	3.31	328.7	83.80	20.08	6.9
11-Aug 7:00	3.61	314.7	92.28	19.70	18.5
11-Aug 7:30	0.00	0.0	91.82	19.62	52.2
11-Aug 8:00	4.56	330.0	90.32	20.26	57.0
11-Aug 8:30	2.48	352.8	91.30	20.82	45.4
11-Aug 9:00	3.83	52.0	87.21	21.27	84.7
11-Aug 9:30	2.61	117.1	89.57	21.15	23.6
11-Aug 10:00	3.85	57.4	84.67	20.97	146.1
11-Aug 10:30	7.35	63.7	80.61	20.93	68.4
11-Aug 11:00	7.19	29.9	82.90	20.44	39.6
11-Aug 11:30	4.18	86.9	98.53	19.04	26.2
11-Aug 12:00	7.21	64.2	98.59	18.29	52.8

11-Aug 12:30	9.14	40.3	102.82	17.91	51.8
11-Aug 13:00	6.07	20.2	106.95	17.55	59.7
11-Aug 13:30	3.43	30.2	108.02	18.19	53.7
11-Aug 14:00	6.02	5.1	106.75	17.90	66.4
11-Aug 14:30	4.80	23.5	108.05	17.58	199.3
11-Aug 15:00	4.81	31.1	107.27	18.20	120.7
11-Aug 15:30	7.58	12.5	106.42	18.29	80.5
11-Aug 16:00	6.87	45.9	105.06	18.36	70.5
11-Aug 16:30	4.81	49.6	106.73	18.34	196.0
11-Aug 17:00	3.12	2.4	106.46	18.49	109.1
11-Aug 17:30	4.30	16.7	105.25	18.60	66.8
11-Aug 18:00	4.90	33.5	104.04	18.91	25.5
11-Aug 18:30	2.74	64.3	99.77	19.02	39.9
11-Aug 19:00	3.23	57.9	97.16	19.17	37.3
11-Aug 19:30	4.41	47.2	97.31	19.27	9.6
11-Aug 20:00	5.38	14.2	99.70	19.13	8.0
11-Aug 20:30	4.59	19.5	100.33	19.45	0.0
11-Aug 21:00	3.47	28.9	101.20	19.19	0.0
11-Aug 21:30	4.45	31.0	102.24	19.61	0.0
11-Aug 22:00	2.91	11.5	102.39	19.70	0.0
11-Aug 22:30	3.74	8.8	100.25	19.81	0.0
11-Aug 23:00	3.39	48.3	103.41	19.80	0.0
11-Aug 23:30	2.25	335.2	103.47	19.71	-0.1
12-Aug 0:00	0.08	219.5	107.25	19.23	-0.1
12-Aug 0:30	0.00	0.0	107.69	19.21	-0.1
12-Aug 1:00	3.72	134.1	107.97	19.21	-0.1
12-Aug 1:30	2.14	323.7	108.78	19.50	0.0
12-Aug 2:00	2.68	34.4	108.90	19.64	0.0
12-Aug 2:30	4.20	35.8	108.21	19.89	0.0
12-Aug 3:00	4.60	31.6	107.57	20.15	0.0
12-Aug 3:30	4.94	45.5	106.17	20.10	0.0
12-Aug 4:00	4.25	42.1	106.09	20.03	0.0
12-Aug 4:30	5.58	322.5	107.59	19.93	0.0
12-Aug 5:00	2.49	55.7	107.65	19.89	0.0
12-Aug 5:30	3.52	26.0	107.78	19.92	0.0
12-Aug 6:00	3.78	26.1	108.31	20.10	0.1
12-Aug 6:30	4.04	20.3	107.94	20.23	3.9
12-Aug 7:00	3.24	52.0	107.75	20.33	12.3
12-Aug 7:30	3.36	49.1	107.52	20.29	24.6
12-Aug 8:00	3.31	47.3	108.03	20.43	21.4
12-Aug 8:30	2.64	13.3	108.43	20.38	42.6
12-Aug 9:00	3.93	14.4	107.04	20.65	82.3
12-Aug 9:30	3.12	64.4	105.78	21.01	119.6
12-Aug 10:00	3.30	32.3	105.47	21.20	105.9
12-Aug 10:30	1.87	15.9	105.09	21.47	99.5
12-Aug 11:00	3.86	333.9	103.40	21.82	169.4
12-Aug 11:30	4.45	317.0	103.91	21.86	140.8
12-Aug 12:00	0.00	0.0	99.86	22.54	134.6
12-Aug 12:30	1.92	323.2	102.35	22.44	95.9
12-Aug 13:00	0.00	0.0	100.72	22.92	117.8

12-Aug 13:30	0.00	0.0	93.93	23.65	372.4
12-Aug 14:00	3.22	157.2	91.93	24.11	289.7
12-Aug 14:30	0.07	68.5	88.36	24.64	542.6
12-Aug 15:00	1.92	191.0	87.20	25.16	240.3
12-Aug 15:30	1.27	196.7	86.28	25.38	382.7
12-Aug 16:00	2.78	138.6	82.30	25.64	364.8
12-Aug 16:30	1.00	60.5	78.63	26.18	270.2
12-Aug 17:00	1.83	247.6	80.75	26.00	156.8
12-Aug 17:30	0.00	0.0	86.51	25.34	113.5
12-Aug 18:00	0.00	0.0	86.14	25.25	86.1
12-Aug 18:30	1.40	88.7	94.59	24.66	26.1
12-Aug 19:00	0.00	0.0	96.49	24.60	13.8
12-Aug 19:30	3.99	104.0	97.18	24.06	8.3
12-Aug 20:00	1.54	78.2	99.62	23.85	2.6
12-Aug 20:30	3.95	85.1	99.51	23.70	0.0
12-Aug 21:00	0.00	0.0	101.64	23.43	0.0
12-Aug 21:30	2.72	64.0	102.07	23.49	0.0
12-Aug 22:00	3.11	101.9	100.94	23.47	0.0
12-Aug 22:30	1.90	143.5	104.92	23.04	0.0
12-Aug 23:00	1.10	207.7	106.94	22.78	0.0
12-Aug 23:30	1.94	164.2	107.94	22.56	0.0
13-Aug 0:00	0.00	0.0	108.00	22.30	0.0
13-Aug 0:30	1.96	211.1	108.28	22.07	0.0
13-Aug 1:00	0.98	83.3	108.67	21.97	0.0
13-Aug 1:30	0.00	0.0	107.52	21.70	0.0
13-Aug 2:00	0.79	157.3	108.52	21.28	0.0
13-Aug 2:30	0.93	267.2	108.85	21.14	0.0
13-Aug 3:00	0.97	262.2	108.96	20.81	0.0
13-Aug 3:30	0.00	0.0	109.08	21.08	0.0
13-Aug 4:00	2.35	219.1	109.11	20.91	0.0
13-Aug 4:30	2.02	163.8	109.19	20.79	0.0
13-Aug 5:00	3.87	209.7	109.27	20.75	0.0
13-Aug 5:30	2.31	222.8	109.31	20.63	0.0
13-Aug 6:00	0.00	0.0	109.36	20.52	0.5
13-Aug 6:30	0.00	0.0	109.38	20.52	5.3
13-Aug 7:00	0.56	260.1	109.36	20.62	36.2
13-Aug 7:30	0.00	0.0	109.29	21.01	80.1
13-Aug 8:00	2.67	179.3	108.43	21.45	189.5
13-Aug 8:30	0.00	0.0	106.92	21.98	140.9
13-Aug 9:00	2.28	156.5	99.00	22.86	294.7
13-Aug 9:30	1.49	197.9	96.40	23.42	232.7
13-Aug 10:00	1.74	191.9	93.70	23.80	284.2
13-Aug 10:30	3.08	198.3	86.37	24.88	510.3
13-Aug 11:00	3.10	183.8	79.04	25.98	723.2
13-Aug 11:30	1.61	173.6	79.29	25.79	181.8
13-Aug 12:00	1.85	311.6	80.30	25.39	126.4
13-Aug 12:30	1.80	124.5	76.75	26.58	968.7
13-Aug 13:00	3.46	126.2	69.37	26.99	448.1
13-Aug 13:30	4.46	220.3	69.03	27.13	376.3
13-Aug 14:00	2.57	138.9	60.61	28.70	945.7

13-Aug 14:30	5.35	180.5	59.96	28.97	797.6
13-Aug 15:00	6.24	210.3	59.63	28.74	551.3
13-Aug 15:30	3.10	224.6	60.95	28.59	218.5
13-Aug 16:00	6.98	323.8	74.73	24.60	65.6
13-Aug 16:30	2.52	84.0	85.26	24.20	321.8
13-Aug 17:00	2.15	88.9	79.65	25.59	461.9
13-Aug 17:30	6.40	287.4	67.97	26.01	130.8
13-Aug 18:00	0.00	0.0	62.69	27.32	344.8
13-Aug 18:30	0.27	59.8	67.10	27.49	217.1
13-Aug 19:00	0.70	76.2	76.25	26.04	124.6
13-Aug 19:30	5.36	105.1	85.10	24.57	60.7
13-Aug 20:00	0.00	0.0	89.19	23.89	4.6
13-Aug 20:30	1.24	79.4	96.01	22.73	0.0
13-Aug 21:00	1.87	229.6	101.98	21.64	0.0
13-Aug 21:30	0.19	125.3	102.18	21.44	0.0
13-Aug 22:00	0.13	30.9	101.23	21.69	-0.1
13-Aug 22:30	2.91	303.3	103.87	20.95	-0.1
13-Aug 23:00	3.57	41.2	104.74	21.09	-0.1
13-Aug 23:30	3.89	332.0	106.54	20.55	-0.1
14-Aug 0:00	3.41	24.8	104.42	20.72	-0.1
14-Aug 0:30	2.68	315.8	107.25	20.11	0.0
14-Aug 1:00	2.21	277.2	103.11	20.01	0.0
14-Aug 1:30	1.69	219.4	107.67	19.53	0.0
14-Aug 2:00	1.89	156.4	107.75	19.06	0.0
14-Aug 2:30	2.95	213.0	108.68	19.33	-0.1
14-Aug 3:00	2.99	226.8	108.16	19.08	-0.1
14-Aug 3:30	2.66	265.5	105.89	19.16	0.0
14-Aug 4:00	1.54	144.2	107.87	18.93	0.0
14-Aug 4:30	0.00	0.0	106.42	19.07	0.0
14-Aug 5:00	1.85	317.4	106.57	19.89	0.0
14-Aug 5:30	2.48	178.2	107.14	19.05	0.0
14-Aug 6:00	2.83	173.6	108.00	18.89	0.4
14-Aug 6:30	2.83	211.6	107.95	18.85	9.3
14-Aug 7:00	1.40	158.0	107.38	18.68	39.6
14-Aug 7:30	6.99	356.0	79.24	20.34	121.0
14-Aug 8:00	3.04	326.1	77.47	20.99	121.9
14-Aug 8:30	0.87	334.4	83.10	21.50	281.9
14-Aug 9:00	2.57	58.1	70.73	22.56	465.9
14-Aug 9:30	3.32	301.2	77.29	21.74	255.0
14-Aug 10:00	4.64	270.8	73.82	21.28	91.4
14-Aug 10:30	1.91	46.4	82.12	20.56	97.5
14-Aug 11:00	2.79	146.8	83.33	21.43	352.3
14-Aug 11:30	2.67	68.5	76.03	23.03	841.3
14-Aug 12:00	3.03	25.6	58.83	25.22	889.4
14-Aug 12:30	3.06	18.2	55.88	26.70	937.8
14-Aug 13:00	2.79	44.2	49.85	27.31	1018.4
14-Aug 13:30	5.33	3.9	42.26	27.62	1039.5
14-Aug 14:00	3.84	36.3	45.49	27.81	961.8
14-Aug 14:30	3.05	24.4	43.83	28.25	1024.4
14-Aug 15:00	6.70	324.0	53.96	26.35	155.6

14-Aug 15:30	3.85	159.0	94.41	20.00	65.7
14-Aug 16:00	3.77	104.5	90.23	19.39	164.8
14-Aug 16:30	1.01	338.2	82.99	21.27	707.9
14-Aug 17:00	1.58	35.2	71.52	22.89	511.8
14-Aug 17:30	0.83	186.0	71.90	23.88	459.7
14-Aug 18:00	3.47	161.9	76.15	23.89	350.8
14-Aug 18:30	3.17	210.3	80.10	24.27	230.0
14-Aug 19:00	0.32	183.3	77.13	24.16	137.1
14-Aug 19:30	0.13	238.6	84.77	23.36	25.1
14-Aug 20:00	2.31	239.6	93.56	21.06	3.5
14-Aug 20:30	1.44	273.2	95.19	20.76	0.0
14-Aug 21:00	1.14	280.6	99.88	19.91	0.0
14-Aug 21:30	0.00	0.0	100.94	19.71	0.0
14-Aug 22:00	0.45	273.9	97.61	19.53	0.0
14-Aug 22:30	0.00	0.0	100.45	19.22	0.0
14-Aug 23:00	0.00	0.0	104.31	19.29	0.0
14-Aug 23:30	3.73	24.7	90.98	20.30	0.0
15-Aug 0:00	5.50	34.0	93.93	19.94	0.0
15-Aug 0:30	5.66	20.7	97.38	19.56	0.0
15-Aug 1:00	3.83	21.2	100.57	19.45	-0.1
15-Aug 1:30	3.41	27.4	100.02	19.26	0.0
15-Aug 2:00	0.00	0.0	102.96	18.46	0.0
15-Aug 2:30	2.22	27.9	102.91	18.67	0.0
15-Aug 3:00	2.84	239.3	99.70	18.77	-0.1
15-Aug 3:30	1.58	283.5	106.01	17.73	-0.1
15-Aug 4:00	2.63	26.9	105.09	18.39	0.0
15-Aug 4:30	3.46	170.0	104.04	17.25	0.0
15-Aug 5:00	0.07	257.0	104.49	17.45	-0.1
15-Aug 5:30	1.89	173.6	106.41	16.93	0.0
15-Aug 6:00	2.77	34.1	107.64	17.52	0.6
15-Aug 6:30	3.90	345.8	105.98	17.58	15.5
15-Aug 7:00	2.92	37.1	103.59	17.66	56.8
15-Aug 7:30	4.03	15.9	102.20	17.58	73.7
15-Aug 8:00	3.39	40.8	95.01	18.51	218.4
15-Aug 8:30	3.02	31.7	88.42	19.72	309.3
15-Aug 9:00	2.98	46.1	83.84	20.61	409.9
15-Aug 9:30	3.02	34.2	79.04	21.37	511.1
15-Aug 10:00	3.21	57.8	77.93	22.25	604.4
15-Aug 10:30	3.08	25.0	71.43	22.98	694.0
15-Aug 11:00	2.81	52.1	68.74	24.19	768.0
15-Aug 11:30	2.92	33.0	63.58	25.30	845.4
15-Aug 12:00	3.67	6.9	57.83	26.31	908.8
15-Aug 12:30	3.03	40.6	55.59	27.00	1028.7
15-Aug 13:00	3.05	322.1	54.82	26.58	339.8
15-Aug 13:30	4.62	314.0	56.19	26.16	307.0
15-Aug 14:00	2.41	67.6	59.16	26.37	303.9
15-Aug 14:30	2.68	72.5	55.77	27.91	986.3
15-Aug 15:00	3.32	43.9	45.80	28.04	889.6
15-Aug 15:30	2.68	115.2	45.53	27.94	866.6
15-Aug 16:00	6.94	195.3	37.66	28.44	720.2

15-Aug 16:30	3.75	141.5	42.48	28.48	655.7
15-Aug 17:00	4.07	112.6	48.39	27.23	139.5
15-Aug 17:30	1.36	93.9	44.32	28.28	426.0
15-Aug 18:00	3.63	120.4	50.46	27.65	312.1
15-Aug 18:30	2.34	181.2	52.42	27.70	209.8
15-Aug 19:00	1.66	113.3	60.22	26.64	110.8
15-Aug 19:30	3.33	122.2	64.31	25.48	30.8
15-Aug 20:00	0.51	152.6	71.23	24.15	2.8
15-Aug 20:30	0.00	0.0	79.74	22.84	0.0
15-Aug 21:00	2.14	312.7	85.45	22.03	0.0
15-Aug 21:30	0.47	93.7	87.32	21.76	0.0
15-Aug 22:00	2.47	343.3	88.94	21.35	0.0
15-Aug 22:30	2.06	32.6	93.73	20.94	0.0
15-Aug 23:00	2.20	329.3	92.43	20.45	0.0
15-Aug 23:30	2.39	87.3	96.43	20.32	0.0
16-Aug 0:00	3.19	30.5	92.77	20.15	0.0
16-Aug 0:30	3.27	39.2	97.48	20.19	0.0
16-Aug 1:00	3.39	70.2	94.37	20.19	0.0
16-Aug 1:30	3.31	17.6	92.79	19.57	0.0
16-Aug 2:00	4.35	352.1	93.34	19.04	0.0
16-Aug 2:30	3.70	53.0	96.21	18.99	0.0
16-Aug 3:00	2.27	19.8	97.31	18.33	0.0
16-Aug 3:30	3.87	7.6	100.72	17.94	0.0
16-Aug 4:00	2.31	25.1	102.34	17.68	0.0
16-Aug 4:30	3.07	6.6	101.71	17.44	0.0
16-Aug 5:00	3.52	359.1	99.67	17.32	0.0
16-Aug 5:30	3.04	50.8	104.32	16.81	0.0
16-Aug 6:00	2.71	212.1	103.31	15.48	0.9
16-Aug 6:30	1.56	292.3	101.42	16.02	15.2
16-Aug 7:00	0.00	0.0	102.92	15.55	60.1
16-Aug 7:30	1.57	53.4	95.20	17.53	127.1
16-Aug 8:00	2.27	1.4	87.43	19.26	209.3
16-Aug 8:30	0.00	0.0	77.75	20.89	304.6
16-Aug 9:00	3.05	350.3	77.17	21.29	463.8
16-Aug 9:30	0.56	66.3	74.21	22.37	248.0
16-Aug 10:00	1.48	348.8	64.44	24.18	613.7
16-Aug 10:30	2.55	150.6	60.02	23.72	449.6
16-Aug 11:00	1.69	25.4	58.89	24.15	399.5
16-Aug 11:30	5.29	132.0	54.25	25.27	866.3
16-Aug 12:00	2.61	134.8	47.57	26.37	714.1
16-Aug 12:30	2.78	136.1	46.69	26.84	902.1
16-Aug 13:00	5.74	156.8	47.85	27.53	997.9
16-Aug 13:30	8.73	199.3	44.17	28.28	942.0
16-Aug 14:00	10.67	190.4	46.98	27.61	1003.4
16-Aug 14:30	7.60	177.4	45.61	28.28	937.8
16-Aug 15:00	5.64	208.2	45.82	28.21	834.0
16-Aug 15:30	3.30	79.6	46.15	28.54	795.1
16-Aug 16:00	10.00	168.7	46.18	28.57	688.8
16-Aug 16:30	11.51	157.3	44.97	28.41	590.4
16-Aug 17:00	4.05	180.8	48.01	28.31	231.6

16-Aug 17:30	3.47	200.3	48.75	28.11	386.2
16-Aug 18:00	5.84	193.1	50.79	27.90	274.8
16-Aug 18:30	5.74	121.1	49.67	27.33	156.0
16-Aug 19:00	3.26	199.1	54.65	26.69	80.1
16-Aug 19:30	4.80	211.0	54.70	26.06	11.3
16-Aug 20:00	4.46	155.9	54.54	25.96	1.1
16-Aug 20:30	7.49	199.1	55.66	25.63	0.0
16-Aug 21:00	6.83	178.0	57.45	25.44	0.0
16-Aug 21:30	3.66	142.9	62.30	25.02	0.0
16-Aug 22:00	8.70	149.7	62.73	24.82	0.0
16-Aug 22:30	5.66	123.0	63.62	24.20	0.0
16-Aug 23:00	4.06	112.2	65.58	23.90	0.0
16-Aug 23:30	2.44	171.7	64.35	23.80	0.0
17-Aug 0:00	5.02	107.3	60.25	23.46	0.0
17-Aug 0:30	6.67	90.1	63.86	22.92	0.0
17-Aug 1:00	3.43	58.3	69.10	22.55	0.0
17-Aug 1:30	4.61	70.0	76.18	22.11	0.0
17-Aug 2:00	6.96	317.5	78.29	22.11	0.0
17-Aug 2:30	3.53	144.3	80.66	22.09	0.0
17-Aug 3:00	2.37	164.3	93.33	21.23	0.0
17-Aug 3:30	0.00	0.0	102.42	20.53	0.0
17-Aug 4:00	3.05	103.4	105.00	20.58	0.0
17-Aug 4:30	1.93	315.5	104.18	20.97	0.0
17-Aug 5:00	3.68	302.9	104.37	20.66	0.0
17-Aug 5:30	1.72	13.6	103.92	21.03	0.0
17-Aug 6:00	0.00	0.0	102.15	21.33	0.2
17-Aug 6:30	1.67	271.5	104.82	21.05	2.8
17-Aug 7:00	3.57	201.4	102.57	21.45	10.5
17-Aug 7:30	3.80	209.9	99.58	21.92	67.3
17-Aug 8:00	1.90	244.0	98.81	22.15	57.2
17-Aug 8:30	2.61	161.0	95.97	22.44	131.9
17-Aug 9:00	1.16	175.6	92.76	23.52	186.6
17-Aug 9:30	3.30	197.8	94.77	23.13	80.4
17-Aug 10:00	4.80	187.3	91.90	23.37	123.2
17-Aug 10:30	5.67	199.6	91.55	23.48	150.3
17-Aug 11:00	2.24	248.2	90.35	24.03	110.2
17-Aug 11:30	6.62	191.6	87.82	24.11	251.6
17-Aug 12:00	3.93	212.2	83.08	24.82	109.1
17-Aug 12:30	7.83	191.4	77.39	25.96	397.7
17-Aug 13:00	4.12	191.6	77.65	25.96	145.7
17-Aug 13:30	5.15	171.9	71.49	27.34	959.1
17-Aug 14:00	10.03	185.7	68.97	27.42	499.2
17-Aug 14:30	5.22	207.7	67.65	27.60	227.3
17-Aug 15:00	4.72	213.9	64.70	27.13	208.1
17-Aug 15:30	3.02	215.6	63.12	27.63	874.1
17-Aug 16:00	7.99	232.5	62.21	27.59	390.3
17-Aug 16:30	12.92	229.4	56.99	28.33	681.7
17-Aug 17:00	5.75	192.9	53.22	28.53	510.5
17-Aug 17:30	7.47	243.0	52.35	28.38	446.0
17-Aug 18:00	3.90	211.3	46.58	27.77	338.5

17-Aug 18:30	4.97	222.6	47.21	27.14	233.3
17-Aug 19:00	0.36	253.6	48.07	26.36	129.4
17-Aug 19:30	3.23	166.3	51.50	25.32	53.5
17-Aug 20:00	3.22	267.5	54.10	24.25	2.9
17-Aug 20:30	0.12	103.5	70.68	23.09	0.0
17-Aug 21:00	3.07	233.3	60.95	22.12	0.0
17-Aug 21:30	1.74	180.5	63.75	21.67	0.0
17-Aug 22:00	0.00	0.0	71.98	21.15	0.0
17-Aug 22:30	2.45	167.8	66.01	21.09	0.0
17-Aug 23:00	2.21	273.3	76.28	19.56	0.0
17-Aug 23:30	2.05	146.0	80.86	18.81	0.0
18-Aug 0:00	3.02	170.3	80.57	18.66	0.0
18-Aug 0:30	1.84	173.7	92.75	17.20	0.0
18-Aug 1:00	2.73	181.2	88.66	17.69	0.0
18-Aug 1:30	2.66	141.7	94.73	16.95	0.0
18-Aug 2:00	3.94	169.6	89.61	17.28	0.0
18-Aug 2:30	1.84	271.1	88.34	17.37	0.0
18-Aug 3:00	1.42	251.7	91.85	16.77	0.0
18-Aug 3:30	4.63	208.8	78.94	18.85	0.0
18-Aug 4:00	0.00	0.0	83.86	18.27	0.0
18-Aug 4:30	0.00	0.0	91.38	18.08	0.0
18-Aug 5:00	2.77	192.4	81.81	18.27	0.0
18-Aug 5:30	3.13	222.6	95.64	16.19	0.0
18-Aug 6:00	0.40	239.2	96.79	15.90	2.0
18-Aug 6:30	1.83	225.8	92.67	16.73	24.4
18-Aug 7:00	2.98	171.8	93.06	17.04	49.4
18-Aug 7:30	2.30	207.7	100.23	15.62	132.0
18-Aug 8:00	2.04	177.5	97.82	16.47	197.2
18-Aug 8:30	2.64	203.7	87.12	18.75	341.5
18-Aug 9:00	2.80	208.7	82.42	19.75	261.0
18-Aug 9:30	4.05	236.5	76.24	21.10	579.7
18-Aug 10:00	2.34	150.5	69.84	22.41	498.4
18-Aug 10:30	3.18	119.9	66.72	23.46	689.2
18-Aug 11:00	2.81	109.5	63.44	24.62	519.7
18-Aug 11:30	2.52	151.5	55.05	25.83	882.8
18-Aug 12:00	3.74	143.7	54.89	26.35	859.4
18-Aug 12:30	7.74	136.7	51.47	26.42	403.1
18-Aug 13:00	4.07	182.2	49.58	26.68	491.1
18-Aug 13:30	3.39	192.0	53.27	26.32	613.0
18-Aug 14:00	3.31	173.4	53.18	26.62	476.9
18-Aug 14:30	1.52	146.2	53.36	26.76	407.6
18-Aug 15:00	2.68	147.3	53.13	26.72	406.6
18-Aug 15:30	5.56	156.7	49.29	27.43	538.8
18-Aug 16:00	2.19	204.8	46.41	27.83	382.7
18-Aug 16:30	5.37	197.4	45.03	27.82	436.5
18-Aug 17:00	3.40	198.0	46.36	27.51	257.2
18-Aug 17:30	2.32	200.0	46.92	27.89	454.6
18-Aug 18:00	3.89	195.7	49.54	27.00	286.2
18-Aug 18:30	2.41	162.3	57.49	26.06	131.1
18-Aug 19:00	4.98	178.3	57.01	25.43	55.7

18-Aug 19:30	4.20	288.0	64.48	24.59	13.4
18-Aug 20:00	0.26	267.2	71.18	23.89	1.0
18-Aug 20:30	1.88	61.5	76.81	22.97	0.0
18-Aug 21:00	0.85	93.3	81.56	22.51	0.0
18-Aug 21:30	0.00	0.0	86.54	21.92	0.0
18-Aug 22:00	0.96	47.9	87.61	21.55	0.0
18-Aug 22:30	3.05	341.7	90.09	20.63	-0.1
18-Aug 23:00	0.00	0.0	93.59	19.79	0.0
18-Aug 23:30	2.35	353.7	95.40	19.56	0.0
19-Aug 0:00	3.49	331.4	96.90	19.37	0.0
19-Aug 0:30	2.50	34.2	96.90	19.32	0.0
19-Aug 1:00	2.85	182.3	102.22	17.39	-0.1
19-Aug 1:30	1.95	279.7	98.75	17.77	-0.1
19-Aug 2:00	1.97	209.4	101.02	17.96	0.0
19-Aug 2:30	1.93	244.7	104.23	16.82	0.0
19-Aug 3:00	0.00	0.0	103.43	17.38	0.0
19-Aug 3:30	2.60	204.3	106.60	16.26	0.0
19-Aug 4:00	2.64	260.3	105.20	16.53	0.0
19-Aug 4:30	0.45	239.1	106.37	16.83	0.0
19-Aug 5:00	1.84	249.0	106.38	16.21	0.0
19-Aug 5:30	3.39	310.4	107.82	16.43	0.0
19-Aug 6:00	2.35	208.2	106.74	16.39	0.3
19-Aug 6:30	1.68	191.8	106.23	16.46	12.3
19-Aug 7:00	2.02	240.2	105.73	16.07	26.6
19-Aug 7:30	1.53	261.3	106.38	16.13	77.2
19-Aug 8:00	0.00	0.0	95.89	18.74	183.0
19-Aug 8:30	1.96	37.8	87.63	20.11	306.4
19-Aug 9:00	3.04	50.1	86.89	20.85	399.6
19-Aug 9:30	3.53	37.3	87.11	20.84	220.5
19-Aug 10:00	3.06	39.4	82.93	21.82	282.3
19-Aug 10:30	2.26	43.4	78.30	22.87	489.3
19-Aug 11:00	1.87	48.0	71.14	24.48	762.9
19-Aug 11:30	1.00	14.0	64.13	26.49	721.7
19-Aug 12:00	5.01	130.2	60.76	26.03	552.0
19-Aug 12:30	4.95	113.7	52.39	26.50	504.3
19-Aug 13:00	3.48	187.2	54.23	26.87	761.2
19-Aug 13:30	3.41	119.5	55.89	26.47	405.4
19-Aug 14:00	4.02	113.1	59.12	26.40	317.6
19-Aug 14:30	2.65	111.0	52.09	27.78	550.6
19-Aug 15:00	6.13	137.8	52.21	26.98	504.6
19-Aug 15:30	3.71	160.7	50.88	27.32	728.9
19-Aug 16:00	6.39	149.2	52.61	27.34	549.7
19-Aug 16:30	6.75	137.9	51.79	27.48	658.0
19-Aug 17:00	4.36	142.9	52.12	27.43	522.7
19-Aug 17:30	3.15	84.7	56.04	27.53	400.9
19-Aug 18:00	3.20	97.2	55.16	26.87	202.7
19-Aug 18:30	5.26	162.3	54.12	26.41	148.3
19-Aug 19:00	2.56	137.3	58.88	25.71	70.6
19-Aug 19:30	4.12	125.6	61.97	25.21	11.6
19-Aug 20:00	1.09	67.6	74.22	24.30	0.8

19-Aug 20:30	0.75	99.6	73.44	23.72	0.0
19-Aug 21:00	1.40	63.1	77.70	23.64	0.0
19-Aug 21:30	1.98	31.6	78.21	23.86	0.0
19-Aug 22:00	1.80	54.8	78.71	23.66	0.0
19-Aug 22:30	2.45	34.9	78.95	23.39	0.0
19-Aug 23:00	2.86	45.5	84.78	23.05	0.0
19-Aug 23:30	2.66	40.2	83.06	22.71	0.0
20-Aug 0:00	3.87	52.4	86.24	22.73	0.0
20-Aug 0:30	0.00	0.0	106.73	20.64	0.0
20-Aug 1:00	3.87	325.8	105.96	20.94	0.0
20-Aug 1:30	3.37	13.1	104.49	20.95	0.0
20-Aug 2:00	2.71	346.6	104.71	21.26	0.0
20-Aug 2:30	3.60	38.9	105.54	21.04	0.0
20-Aug 3:00	4.91	1.2	104.16	21.11	0.0
20-Aug 3:30	1.81	52.2	103.46	21.26	0.0
20-Aug 4:00	3.61	358.1	104.30	21.46	0.0
20-Aug 4:30	1.47	40.0	103.88	21.60	0.0
20-Aug 5:00	1.66	292.4	106.62	21.00	0.0
20-Aug 5:30	0.36	259.0	107.13	20.83	0.0
20-Aug 6:00	3.58	342.6	106.11	21.14	0.1
20-Aug 6:30	2.26	255.2	107.80	20.54	8.9
20-Aug 7:00	0.00	0.0	107.24	21.13	52.1
20-Aug 7:30	2.27	157.9	107.22	20.79	28.1
20-Aug 8:00	0.12	167.3	107.30	20.93	27.5
20-Aug 8:30	3.03	184.4	106.29	21.27	138.5
20-Aug 9:00	3.09	209.8	97.44	22.50	203.1
20-Aug 9:30	2.76	104.9	89.79	23.44	385.3
20-Aug 10:00	3.89	203.8	89.29	23.46	256.2
20-Aug 10:30	4.95	204.7	79.73	24.48	568.0
20-Aug 11:00	1.00	253.4	73.60	25.05	370.2
20-Aug 11:30	2.64	268.0	65.18	25.74	989.5
20-Aug 12:00	4.84	206.5	61.50	25.98	766.0
20-Aug 12:30	3.96	137.9	59.24	27.13	693.0
20-Aug 13:00	2.02	217.2	57.89	26.78	267.9
20-Aug 13:30	5.27	183.6	51.13	26.93	910.2
20-Aug 14:00	3.09	147.8	49.56	28.60	909.5
20-Aug 14:30	5.07	205.2	44.59	28.70	953.5
20-Aug 15:00	6.39	188.5	43.11	28.26	883.5
20-Aug 15:30	7.13	187.4	44.25	28.20	222.0
20-Aug 16:00	4.13	201.9	48.85	27.58	341.7
20-Aug 16:30	6.37	235.5	50.80	27.69	656.2
20-Aug 17:00	6.00	215.1	49.83	28.16	519.6
20-Aug 17:30	5.61	197.9	51.23	27.43	486.1
20-Aug 18:00	4.80	194.5	51.18	27.23	324.5
20-Aug 18:30	5.81	193.4	54.45	26.34	183.7
20-Aug 19:00	3.06	220.2	59.26	25.62	63.3
20-Aug 19:30	0.00	0.0	68.18	24.74	22.2
20-Aug 20:00	0.00	0.0	71.59	23.98	1.5
20-Aug 20:30	0.00	0.0	79.19	22.85	0.0
20-Aug 21:00	0.00	0.0	79.90	21.94	0.0

20-Aug 21:30	0.00	0.0	83.70	21.12	-0.1
20-Aug 22:00	0.00	0.0	84.27	21.00	-0.1
20-Aug 22:30	1.68	229.9	84.11	20.75	0.0
20-Aug 23:00	1.43	236.0	94.00	19.40	-0.1
20-Aug 23:30	2.54	166.0	89.30	19.63	-0.1
21-Aug 0:00	0.26	224.2	90.95	19.12	-0.1
21-Aug 0:30	0.77	220.7	93.08	18.41	0.0
21-Aug 1:00	2.10	267.7	97.84	17.54	-0.1
21-Aug 1:30	0.33	241.0	104.74	16.85	0.0
21-Aug 2:00	3.31	172.4	105.26	16.51	-0.1
21-Aug 2:30	3.29	167.8	103.73	16.81	-0.1
21-Aug 3:00	2.07	232.7	102.94	16.42	-0.1
21-Aug 3:30	1.28	203.7	105.40	16.19	-0.1
21-Aug 4:00	2.69	232.6	103.59	16.00	-0.1
21-Aug 4:30	2.46	157.3	107.15	15.52	-0.1
21-Aug 5:00	2.65	219.5	106.66	15.28	-0.1
21-Aug 5:30	2.33	181.6	107.53	14.78	-0.1
21-Aug 6:00	2.33	178.6	108.08	14.62	0.1
21-Aug 6:30	2.47	169.6	107.84	14.48	18.1
21-Aug 7:00	0.00	0.0	103.82	15.11	52.8
21-Aug 7:30	1.89	180.9	102.05	15.62	115.4
21-Aug 8:00	3.96	229.3	90.59	17.79	315.6
21-Aug 8:30	2.15	203.4	84.44	19.35	342.2
21-Aug 9:00	2.36	143.7	78.09	20.63	419.1
21-Aug 9:30	4.34	202.0	74.02	21.64	479.9
21-Aug 10:00	6.85	231.4	71.23	22.48	228.3
21-Aug 10:30	4.35	262.1	67.45	22.28	206.5
21-Aug 11:00	6.69	290.6	64.30	23.46	174.6
21-Aug 11:30	3.35	252.4	65.06	23.39	320.2
21-Aug 12:00	7.33	230.5	62.28	23.89	283.0
21-Aug 12:30	6.17	168.3	59.37	24.92	529.4
21-Aug 13:00	3.44	203.3	58.78	24.55	372.8
21-Aug 13:30	2.66	226.4	56.36	25.56	304.7
21-Aug 14:00	5.84	288.1	57.29	24.93	484.6
21-Aug 14:30	1.56	233.0	56.32	25.84	370.7
21-Aug 15:00	4.61	253.0	59.89	25.18	420.8
21-Aug 15:30	8.29	203.9	54.20	26.33	897.1
21-Aug 16:00	5.17	253.7	51.52	26.05	219.9
21-Aug 16:30	8.30	291.4	50.49	26.90	301.7
21-Aug 17:00	6.14	322.5	62.53	24.50	176.0
21-Aug 17:30	3.18	343.6	61.04	24.18	192.7
21-Aug 18:00	2.37	10.6	64.35	24.24	147.2
21-Aug 18:30	2.23	1.9	61.18	25.06	228.9
21-Aug 19:00	2.56	75.2	64.00	24.63	117.3
21-Aug 19:30	0.79	64.7	74.35	23.53	20.5
21-Aug 20:00	0.00	0.0	78.50	22.49	1.5
21-Aug 20:30	0.63	234.9	85.39	21.52	0.0
21-Aug 21:00	0.00	0.0	88.97	21.04	0.0
21-Aug 21:30	1.47	224.8	92.04	19.82	-0.1
21-Aug 22:00	2.75	232.5	93.13	19.07	0.0

21-Aug 22:30	1.96	279.9	93.83	18.71	-0.1
21-Aug 23:00	0.67	243.4	93.08	18.84	-0.1
21-Aug 23:30	0.00	0.0	95.39	18.64	-0.1
22-Aug 0:00	1.07	215.3	100.10	18.08	0.0
22-Aug 0:30	1.31	334.0	101.06	18.01	0.0
22-Aug 1:00	0.94	148.5	98.09	18.36	-0.1
22-Aug 1:30	0.00	0.0	98.69	17.76	-0.1
22-Aug 2:00	0.94	214.9	104.14	16.87	-0.1
22-Aug 2:30	0.00	0.0	102.58	17.10	-0.1
22-Aug 3:00	2.39	195.3	104.63	16.48	-0.1
22-Aug 3:30	2.17	223.5	102.92	16.65	-0.1
22-Aug 4:00	2.55	215.3	105.69	15.85	-0.1
22-Aug 4:30	1.85	224.7	107.31	15.63	-0.1
22-Aug 5:00	0.35	263.4	108.25	14.95	-0.1
22-Aug 5:30	0.00	0.0	107.95	15.12	-0.1
22-Aug 6:00	2.27	232.8	104.30	15.05	0.2
22-Aug 6:30	2.21	181.1	107.88	14.25	10.8
22-Aug 7:00	0.00	0.0	104.50	14.67	52.5
22-Aug 7:30	0.74	230.8	100.01	15.61	140.3
22-Aug 8:00	2.85	215.1	94.78	16.82	223.5
22-Aug 8:30	1.74	162.0	88.45	18.23	318.9
22-Aug 9:00	2.13	129.0	80.59	20.04	410.2
22-Aug 9:30	2.32	139.3	68.57	22.04	511.4
22-Aug 10:00	1.85	83.7	64.83	23.37	609.1
22-Aug 10:30	2.77	206.4	60.65	24.48	693.6
22-Aug 11:00	2.29	46.3	50.62	25.94	765.1
22-Aug 11:30	2.87	266.3	47.64	25.91	842.3
22-Aug 12:00	3.73	195.9	42.28	26.95	961.0
22-Aug 12:30	3.94	247.7	38.62	28.17	995.5
22-Aug 13:00	4.57	236.6	41.65	27.26	1019.8
22-Aug 13:30	3.45	200.5	38.44	27.76	956.9
22-Aug 14:00	9.37	263.3	36.81	27.97	934.1
22-Aug 14:30	6.14	191.4	39.06	28.21	849.0
22-Aug 15:00	9.48	264.6	35.77	28.12	907.2
22-Aug 15:30	9.77	275.3	36.30	28.26	838.5
22-Aug 16:00	9.06	238.1	37.19	28.31	730.7
22-Aug 16:30	7.37	236.8	39.58	28.02	373.2
22-Aug 17:00	4.34	263.5	40.43	27.96	356.1
22-Aug 17:30	7.28	280.8	40.45	28.03	486.3
22-Aug 18:00	3.39	296.7	40.58	28.03	359.6
22-Aug 18:30	2.45	271.6	42.78	27.45	225.5
22-Aug 19:00	0.08	249.0	44.28	27.62	121.5
22-Aug 19:30	0.00	0.0	63.87	25.00	28.9
22-Aug 20:00	0.00	0.0	72.62	23.17	0.7
22-Aug 20:30	1.40	46.0	75.99	22.05	-0.1
22-Aug 21:00	2.13	351.8	77.81	20.88	-0.1
22-Aug 21:30	2.71	52.6	80.03	20.42	-0.1
22-Aug 22:00	1.97	352.9	84.56	19.32	0.0
22-Aug 22:30	2.41	323.3	86.38	18.79	-0.1
22-Aug 23:00	0.00	0.0	89.32	17.96	-0.1

22-Aug 23:30	0.00	0.0	88.35	18.02	-0.1
23-Aug 0:00	0.14	272.6	90.20	17.51	-0.1
23-Aug 0:30	0.32	280.1	88.91	17.57	-0.1
23-Aug 1:00	1.74	250.3	92.15	16.56	-0.1
23-Aug 1:30	0.00	0.0	96.62	17.00	-0.1
23-Aug 2:00	2.50	22.5	93.76	17.87	-0.1
23-Aug 2:30	1.90	194.5	96.37	16.71	0.0
23-Aug 3:00	2.89	15.7	97.28	17.39	0.0
23-Aug 3:30	3.21	189.9	97.37	16.04	0.0
23-Aug 4:00	0.16	306.9	96.43	16.24	0.0
23-Aug 4:30	2.42	236.0	97.00	15.70	-0.1
23-Aug 5:00	0.00	0.0	98.43	15.49	-0.1
23-Aug 5:30	3.01	40.2	99.21	16.61	-0.1
23-Aug 6:00	1.86	261.5	99.61	15.63	0.2
23-Aug 6:30	2.18	194.6	102.20	14.91	4.2
23-Aug 7:00	2.17	232.4	98.74	15.73	41.7
23-Aug 7:30	1.71	211.7	99.32	15.56	80.7
23-Aug 8:00	1.87	227.3	97.64	16.41	102.1
23-Aug 8:30	3.27	22.7	89.73	18.03	131.5
23-Aug 9:00	3.32	18.5	85.24	18.63	145.1
23-Aug 9:30	0.74	27.9	87.19	19.21	151.0
23-Aug 10:00	0.00	0.0	90.53	19.50	186.6
23-Aug 10:30	0.32	196.6	85.91	20.33	480.9
23-Aug 11:00	0.76	42.6	79.80	21.41	187.4
23-Aug 11:30	1.11	50.1	76.09	21.99	309.6
23-Aug 12:00	0.41	310.4	69.37	22.95	144.3
23-Aug 12:30	1.99	189.5	75.41	22.33	186.8
23-Aug 13:00	0.82	161.0	83.12	21.91	89.6
23-Aug 13:30	0.26	202.6	80.55	21.94	117.6
23-Aug 14:00	1.93	178.2	87.59	21.42	109.4
23-Aug 14:30	0.87	150.4	91.22	21.09	95.2
23-Aug 15:00	1.33	205.8	97.45	20.71	81.3
23-Aug 15:30	2.80	142.3	103.85	20.64	35.5
23-Aug 16:00	0.33	135.7	104.17	19.00	53.8
23-Aug 16:30	2.03	301.8	103.13	19.03	106.5
23-Aug 17:00	0.26	168.7	104.72	19.11	93.6
23-Aug 17:30	0.00	0.0	101.37	19.24	68.2
23-Aug 18:00	1.28	164.6	105.84	19.24	57.1
23-Aug 18:30	0.00	0.0	103.58	19.09	39.2
23-Aug 19:00	0.18	155.9	105.18	18.83	14.4
23-Aug 19:30	1.98	152.0	106.91	18.60	1.9
23-Aug 20:00	0.25	197.4	107.47	18.52	0.1
23-Aug 20:30	1.43	180.0	106.28	18.57	0.0
23-Aug 21:00	1.68	200.6	107.87	18.51	-0.1
23-Aug 21:30	0.00	0.0	108.04	18.63	0.0
23-Aug 22:00	0.88	208.0	106.71	18.68	0.0
23-Aug 22:30	0.32	307.9	106.95	18.58	0.0
23-Aug 23:00	1.88	237.1	104.40	18.81	-0.1
23-Aug 23:30	1.94	280.6	106.30	18.71	0.0
24-Aug 0:00	1.83	233.8	107.39	18.51	-0.1

24-Aug	0:30	3.24	205.2	108.08	18.42	-0.1
24-Aug	1:00	2.09	150.5	107.09	18.28	-0.1
24-Aug	1:30	1.19	305.3	100.45	18.38	-0.1
24-Aug	2:00	2.98	7.1	95.76	18.89	-0.1
24-Aug	2:30	0.85	68.2	99.45	18.39	0.0
24-Aug	3:00	2.73	22.7	94.22	18.56	-0.1
24-Aug	3:30	0.85	36.8	95.99	18.23	-0.1
24-Aug	4:00	3.96	41.6	91.42	18.22	-0.1
24-Aug	4:30	4.46	47.9	92.30	18.19	-0.1
24-Aug	5:00	1.28	322.3	93.18	18.11	-0.1
24-Aug	5:30	0.78	7.9	96.46	17.96	-0.1
24-Aug	6:00	4.72	36.3	96.84	18.24	0.0
24-Aug	6:30	3.30	41.4	92.23	18.23	9.0
24-Aug	7:00	2.59	24.6	92.55	18.41	46.0
24-Aug	7:30	2.49	58.8	87.75	19.09	110.7
24-Aug	8:00	3.77	51.1	88.54	19.18	114.5
24-Aug	8:30	2.75	351.2	85.40	19.88	308.8
24-Aug	9:00	1.44	288.4	78.40	21.82	460.6
24-Aug	9:30	3.84	301.0	81.49	21.43	491.6
24-Aug	10:00	9.79	327.9	77.71	22.01	580.3
24-Aug	10:30	9.19	310.2	76.51	22.39	695.8
24-Aug	11:00	11.30	314.6	74.47	22.94	730.7
24-Aug	11:30	17.61	308.4	71.84	23.20	806.7
24-Aug	12:00	11.54	321.6	70.83	23.73	878.7
24-Aug	12:30	15.97	317.6	66.63	24.23	765.3
24-Aug	13:00	20.65	311.4	61.85	25.31	906.6
24-Aug	13:30	7.45	304.7	60.68	25.89	915.0
24-Aug	14:00	8.97	314.7	60.01	25.88	935.1
24-Aug	14:30	12.42	312.5	57.96	26.44	890.1
24-Aug	15:00	9.55	325.6	57.25	26.41	858.5
24-Aug	15:30	7.94	315.7	55.32	27.15	724.1
24-Aug	16:00	2.01	303.8	54.05	27.24	680.4
24-Aug	16:30	9.70	317.3	55.00	26.97	604.1
24-Aug	17:00	5.35	338.9	56.57	26.72	415.6
24-Aug	17:30	7.15	311.3	53.03	27.80	450.1
24-Aug	18:00	1.21	239.7	52.85	27.65	321.9
24-Aug	18:30	7.25	323.5	54.03	27.22	207.3
24-Aug	19:00	4.21	277.1	56.33	26.28	104.5
24-Aug	19:30	2.55	311.4	57.68	25.22	30.9
24-Aug	20:00	4.99	312.1	61.20	24.10	0.7
24-Aug	20:30	5.31	9.6	62.20	23.54	0.0
24-Aug	21:00	3.71	56.6	57.76	23.17	0.0
24-Aug	21:30	9.94	339.7	53.39	22.88	0.0
24-Aug	22:00	7.59	11.1	54.82	22.11	0.0
24-Aug	22:30	5.20	39.8	57.66	21.63	0.0
24-Aug	23:00	4.99	16.3	73.80	20.31	0.0
24-Aug	23:30	1.14	38.6	72.13	20.39	0.0
25-Aug	0:00	2.99	335.4	67.61	20.40	0.0
25-Aug	0:30	0.00	0.0	72.20	19.88	0.0
25-Aug	1:00	2.10	323.9	70.58	19.70	0.0

25-Aug 1:30	2.82	351.3	76.08	19.07	0.0
25-Aug 2:00	0.00	0.0	77.49	18.31	-0.1
25-Aug 2:30	2.31	280.6	77.68	17.08	-0.1
25-Aug 3:00	2.95	44.8	81.39	17.58	-0.1
25-Aug 3:30	3.55	22.5	84.61	16.94	-0.1
25-Aug 4:00	1.94	39.4	89.27	16.41	0.0
25-Aug 4:30	2.28	41.7	93.98	15.68	-0.1
25-Aug 5:00	4.07	3.3	91.27	15.35	0.0
25-Aug 5:30	4.21	23.2	95.94	15.06	0.0
25-Aug 6:00	4.38	9.7	95.13	14.67	0.3
25-Aug 6:30	4.81	352.9	93.02	14.56	9.9
25-Aug 7:00	7.36	11.8	93.55	14.30	30.4
25-Aug 7:30	4.25	22.1	95.37	14.80	57.8
25-Aug 8:00	4.12	9.2	85.70	15.47	128.7
25-Aug 8:30	6.37	27.8	80.43	16.33	95.8
25-Aug 9:00	5.94	28.8	72.07	17.15	147.3
25-Aug 9:30	4.19	46.6	70.57	18.33	295.9
25-Aug 10:00	4.91	27.6	67.88	19.78	595.2
25-Aug 10:30	5.07	43.7	67.91	20.66	640.7
25-Aug 11:00	3.09	39.6	65.69	22.18	755.9
25-Aug 11:30	3.97	30.0	56.04	23.33	832.3
25-Aug 12:00	1.71	76.4	46.78	24.79	871.2
25-Aug 12:30	4.87	156.1	42.12	25.83	951.8
25-Aug 13:00	1.59	286.0	40.56	26.55	935.0
25-Aug 13:30	3.62	93.6	44.76	26.38	989.2
25-Aug 14:00	1.75	3.7	41.62	27.04	993.1
25-Aug 14:30	2.71	212.9	48.38	25.67	297.3
25-Aug 15:00	6.86	88.2	49.78	25.46	675.6
25-Aug 15:30	1.16	133.4	48.58	26.62	278.3
25-Aug 16:00	3.15	20.1	46.39	26.93	778.3
25-Aug 16:30	2.13	221.3	45.79	26.92	570.8
25-Aug 17:00	2.87	60.9	50.99	26.33	546.0
25-Aug 17:30	5.84	102.4	50.52	26.93	513.0
25-Aug 18:00	6.52	105.4	53.22	26.02	322.3
25-Aug 18:30	4.56	161.0	53.62	25.78	202.2
25-Aug 19:00	3.66	94.1	57.81	24.94	91.9
25-Aug 19:30	0.85	61.2	61.70	23.96	11.3
25-Aug 20:00	3.49	100.4	61.99	23.10	0.4
25-Aug 20:30	0.46	355.0	64.68	22.63	0.0
25-Aug 21:00	2.77	357.7	63.40	22.25	0.0
25-Aug 21:30	2.44	12.8	63.26	21.60	0.0
25-Aug 22:00	1.20	53.9	68.21	20.98	-0.1
25-Aug 22:30	1.86	310.9	66.59	20.12	-0.1
25-Aug 23:00	3.89	91.4	64.48	20.20	0.0
25-Aug 23:30	0.80	216.6	66.16	19.27	0.0
26-Aug 0:00	0.00	0.0	73.03	18.51	0.0
26-Aug 0:30	2.77	346.5	78.68	18.27	0.0
26-Aug 1:00	2.41	20.0	86.63	17.64	0.0
26-Aug 1:30	5.55	342.5	92.25	17.21	-0.1
26-Aug 2:00	4.26	54.2	96.15	17.08	-0.1

26-Aug 2:30	3.09	48.3	97.96	16.25	-0.1
26-Aug 3:00	5.12	47.3	97.81	16.09	0.0
26-Aug 3:30	3.50	21.8	99.45	15.78	0.0
26-Aug 4:00	2.92	24.1	97.98	15.80	-0.1
26-Aug 4:30	3.75	19.3	101.97	15.44	-0.1
26-Aug 5:00	3.40	29.3	103.85	15.20	-0.1
26-Aug 5:30	3.00	30.4	102.85	14.92	-0.1
26-Aug 6:00	4.44	333.1	105.25	14.70	0.1
26-Aug 6:30	3.89	2.5	104.74	14.52	10.1
26-Aug 7:00	4.03	356.7	104.06	14.65	38.8
26-Aug 7:30	3.99	14.0	100.00	15.03	114.0
26-Aug 8:00	4.46	18.5	96.25	15.94	175.5
26-Aug 8:30	3.65	15.1	91.38	17.02	252.5
26-Aug 9:00	2.91	352.7	83.57	18.72	457.7
26-Aug 9:30	1.01	94.5	81.57	19.59	275.4
26-Aug 10:00	2.90	345.7	72.44	20.91	577.4
26-Aug 10:30	2.14	231.3	65.06	21.97	652.9
26-Aug 11:00	2.20	181.4	58.89	23.18	707.0
26-Aug 11:30	2.98	105.9	60.50	23.19	773.6
26-Aug 12:00	10.59	182.0	57.45	23.95	867.1
26-Aug 12:30	5.62	212.1	53.52	25.86	866.2
26-Aug 13:00	10.18	207.1	53.20	25.52	883.4
26-Aug 13:30	6.44	202.9	54.19	25.45	926.2
26-Aug 14:00	6.94	190.0	53.76	26.24	898.4
26-Aug 14:30	11.50	152.0	54.92	26.18	858.1
26-Aug 15:00	5.13	160.0	55.37	26.39	405.1
26-Aug 15:30	6.29	199.2	50.58	27.56	772.7
26-Aug 16:00	4.19	110.9	51.20	27.64	673.4
26-Aug 16:30	4.04	154.7	53.87	27.28	290.8
26-Aug 17:00	3.37	134.5	53.73	27.37	435.3
26-Aug 17:30	2.60	119.8	57.10	26.93	218.4
26-Aug 18:00	1.91	92.3	57.98	26.72	263.4
26-Aug 18:30	4.22	184.6	61.59	25.93	83.4
26-Aug 19:00	2.10	198.2	63.36	25.26	28.2
26-Aug 19:30	2.09	155.3	66.39	24.59	6.1
26-Aug 20:00	2.82	235.2	66.73	24.00	0.2
26-Aug 20:30	4.37	172.0	70.07	23.21	0.0
26-Aug 21:00	4.35	200.8	69.27	23.48	0.0
26-Aug 21:30	0.88	224.6	71.33	23.23	0.0
26-Aug 22:00	1.63	243.5	73.13	23.04	0.0
26-Aug 22:30	3.27	196.3	72.81	22.70	0.0
26-Aug 23:00	2.76	194.9	74.99	22.25	0.0
26-Aug 23:30	2.87	199.6	79.92	21.31	0.0
27-Aug 0:00	3.01	173.8	83.71	20.68	0.0
27-Aug 0:30	2.28	171.8	79.40	21.29	0.0
27-Aug 1:00	2.33	265.7	79.64	21.23	0.0
27-Aug 1:30	1.11	187.5	80.82	21.07	0.0
27-Aug 2:00	1.33	273.4	83.26	20.46	0.0
27-Aug 2:30	1.85	217.5	87.87	19.75	0.0
27-Aug 3:00	0.00	0.0	96.01	18.40	-0.1

27-Aug	3:30	1.95	300.5	89.18	19.50	0.0
27-Aug	4:00	0.93	225.6	92.79	19.02	0.0
27-Aug	4:30	2.13	167.8	97.90	18.21	0.0
27-Aug	5:00	1.20	171.1	99.27	18.28	0.0
27-Aug	5:30	3.06	266.0	94.94	18.96	0.0
27-Aug	6:00	1.19	166.9	99.68	18.71	0.0
27-Aug	6:30	0.85	147.0	100.20	18.75	4.1
27-Aug	7:00	0.00	0.0	98.05	19.19	30.3
27-Aug	7:30	0.00	0.0	96.90	19.44	55.8
27-Aug	8:00	1.57	240.1	94.07	20.44	139.4
27-Aug	8:30	0.00	0.0	90.43	21.42	190.6
27-Aug	9:00	4.69	212.7	88.88	21.76	188.5
27-Aug	9:30	2.72	259.7	86.43	22.73	441.2
27-Aug	10:00	7.06	196.7	81.27	24.01	508.9
27-Aug	10:30	4.95	199.6	81.77	23.97	383.1
27-Aug	11:00	4.24	174.5	82.61	24.14	260.3
27-Aug	11:30	4.52	158.1	82.70	24.22	172.2
27-Aug	12:00	3.59	187.7	83.05	24.36	224.5
27-Aug	12:30	2.78	174.3	88.63	24.19	287.2
27-Aug	13:00	3.72	204.9	81.21	25.24	592.5
27-Aug	13:30	3.75	150.7	72.72	26.76	910.9
27-Aug	14:00	0.00	0.0	80.74	25.38	77.0
27-Aug	14:30	6.32	340.9	108.47	20.89	47.2
27-Aug	15:00	2.93	357.5	108.51	21.09	164.7
27-Aug	15:30	0.00	0.0	107.33	21.56	368.2
27-Aug	16:00	0.00	0.0	105.16	22.12	350.8
27-Aug	16:30	3.98	167.5	100.98	23.41	656.7
27-Aug	17:00	0.00	0.0	85.35	25.06	495.3
27-Aug	17:30	3.59	240.5	80.22	24.56	234.2
27-Aug	18:00	0.00	0.0	72.43	25.99	334.1
27-Aug	18:30	1.96	344.9	75.12	25.05	93.8
27-Aug	19:00	0.00	0.0	82.69	24.47	78.4
27-Aug	19:30	1.73	79.1	95.93	22.61	7.3
27-Aug	20:00	0.00	0.0	103.05	21.84	0.3
27-Aug	20:30	1.43	344.7	104.19	21.55	0.0
27-Aug	21:00	1.36	80.1	102.61	21.33	0.0
27-Aug	21:30	1.53	268.3	103.35	20.62	0.0
27-Aug	22:00	1.86	55.1	104.43	20.43	0.0
27-Aug	22:30	2.02	295.6	107.25	19.84	0.0
27-Aug	23:00	1.85	228.5	107.57	19.31	0.0
27-Aug	23:30	1.08	259.2	108.62	18.93	0.0
28-Aug	0:00	0.14	261.4	108.94	18.80	0.0
28-Aug	0:30	0.18	167.2	109.23	18.74	0.0
28-Aug	1:00	1.20	278.6	109.28	18.52	0.0
28-Aug	1:30	0.19	243.8	109.36	18.50	0.0
28-Aug	2:00	0.00	0.0	109.46	18.51	0.0
28-Aug	2:30	0.00	0.0	109.53	18.61	0.0
28-Aug	3:00	1.97	204.3	109.55	18.44	0.0
28-Aug	3:30	2.01	265.3	109.54	18.36	0.0
28-Aug	4:00	0.60	281.7	109.66	17.78	-0.1

28-Aug 4:30	0.00	0.0	109.68	17.80	-0.1
28-Aug 5:00	0.51	200.2	109.70	17.61	0.0
28-Aug 5:30	0.00	0.0	109.74	17.51	0.0
28-Aug 6:00	0.88	261.6	109.76	17.33	0.0
28-Aug 6:30	0.81	241.5	109.77	17.16	2.0
28-Aug 7:00	2.25	230.4	109.77	17.01	20.8
28-Aug 7:30	0.53	253.5	109.75	17.06	51.7
28-Aug 8:00	1.92	232.6	109.62	17.40	105.1
28-Aug 8:30	0.00	0.0	109.02	17.79	180.0
28-Aug 9:00	3.20	143.2	105.88	18.47	191.5
28-Aug 9:30	2.86	113.6	99.76	19.84	508.8
28-Aug 10:00	1.68	202.6	83.99	21.95	597.3
28-Aug 10:30	3.10	190.1	76.15	23.59	677.8
28-Aug 11:00	3.65	188.4	68.77	25.51	758.0
28-Aug 11:30	4.71	157.9	62.93	26.53	809.6
28-Aug 12:00	2.01	186.2	58.30	27.14	856.6
28-Aug 12:30	9.91	187.0	48.13	28.59	920.1
28-Aug 13:00	3.38	211.2	43.92	29.72	1005.0
28-Aug 13:30	3.64	164.7	43.87	29.61	1008.1
28-Aug 14:00	4.94	244.4	46.52	29.12	981.6
28-Aug 14:30	3.46	167.4	42.04	30.22	797.6
28-Aug 15:00	6.84	194.8	43.87	29.39	934.1
28-Aug 15:30	9.31	242.7	42.39	29.69	665.7
28-Aug 16:00	4.34	187.1	45.88	29.75	640.5
28-Aug 16:30	17.27	295.2	54.13	28.38	25.6
28-Aug 17:00	13.88	289.5	101.01	19.72	10.0
28-Aug 17:30	6.93	90.4	104.77	18.52	50.3
28-Aug 18:00	2.96	196.4	100.79	19.30	69.1
28-Aug 18:30	2.90	206.3	101.79	19.48	63.7
28-Aug 19:00	2.82	163.7	105.02	19.16	52.5
28-Aug 19:30	2.64	165.1	105.29	19.44	25.0
28-Aug 20:00	1.78	232.1	103.66	19.24	0.3
28-Aug 20:30	2.09	158.9	107.31	18.80	0.0
28-Aug 21:00	2.67	135.2	104.27	19.19	0.0
28-Aug 21:30	5.71	157.7	102.82	19.13	0.0
28-Aug 22:00	4.47	281.3	102.69	18.73	0.0
28-Aug 22:30	4.48	252.3	100.66	18.79	-0.1
28-Aug 23:00	4.66	153.8	100.89	18.88	-0.1
28-Aug 23:30	4.97	229.7	100.01	18.86	-0.1
29-Aug 0:00	1.27	211.8	102.61	18.59	-0.1
29-Aug 0:30	4.68	193.2	104.49	18.22	0.0
29-Aug 1:00	3.41	201.9	106.60	17.88	0.0
29-Aug 1:30	2.04	194.6	108.46	17.29	-0.1
29-Aug 2:00	1.55	291.5	108.74	17.11	-0.1
29-Aug 2:30	0.00	0.0	108.07	17.10	-0.1
29-Aug 3:00	0.00	0.0	106.99	17.28	-0.1
29-Aug 3:30	0.42	96.6	108.04	16.92	-0.1
29-Aug 4:00	1.33	204.9	108.39	16.82	-0.1
29-Aug 4:30	0.00	0.0	108.30	16.99	0.0
29-Aug 5:00	0.00	0.0	104.60	17.08	-0.1

29-Aug 5:30	3.52	181.2	106.82	15.78	-0.1
29-Aug 6:00	2.37	154.2	108.11	15.04	0.0
29-Aug 6:30	4.93	300.1	102.14	16.20	6.1
29-Aug 7:00	1.86	326.6	109.43	15.96	22.2
29-Aug 7:30	1.03	290.8	100.85	17.13	46.8
29-Aug 8:00	0.00	0.0	93.06	18.41	224.4
29-Aug 8:30	2.43	172.5	89.17	18.97	302.8
29-Aug 9:00	3.70	192.1	85.32	20.16	402.7
29-Aug 9:30	2.12	333.7	77.80	21.27	511.2
29-Aug 10:00	6.35	272.0	71.85	21.52	605.4
29-Aug 10:30	4.36	285.6	62.66	22.94	689.3
29-Aug 11:00	5.99	327.2	58.36	23.36	778.6
29-Aug 11:30	3.56	47.0	53.22	24.48	733.4
29-Aug 12:00	3.00	285.0	46.79	25.19	948.4
29-Aug 12:30	3.61	312.7	46.30	25.38	971.9
29-Aug 13:00	3.64	297.4	40.34	25.43	1006.8
29-Aug 13:30	2.60	233.4	40.28	26.05	982.0
29-Aug 14:00	5.94	321.0	38.51	25.39	1024.6
29-Aug 14:30	3.30	316.3	38.03	26.34	951.2
29-Aug 15:00	6.23	328.4	37.89	25.87	880.0
29-Aug 15:30	2.92	358.3	39.90	26.55	828.6
29-Aug 16:00	3.68	232.8	37.02	27.25	736.6
29-Aug 16:30	4.99	307.2	38.30	27.64	657.4
29-Aug 17:00	0.77	41.3	33.74	28.57	544.8
29-Aug 17:30	4.52	223.8	37.45	26.72	434.9
29-Aug 18:00	3.40	219.0	38.86	26.36	83.6
29-Aug 18:30	0.58	246.5	34.58	27.29	210.9
29-Aug 19:00	1.48	243.0	50.13	25.80	100.2
29-Aug 19:30	1.90	12.5	69.29	23.46	8.4
29-Aug 20:00	1.24	70.7	74.80	21.52	0.2
29-Aug 20:30	2.96	45.6	72.14	21.15	0.0
29-Aug 21:00	2.50	26.6	83.09	20.05	-0.1
29-Aug 21:30	1.97	86.6	87.00	19.44	-0.1
29-Aug 22:00	2.37	326.2	85.47	18.34	-0.1
29-Aug 22:30	2.93	86.5	91.63	18.09	-0.1
29-Aug 23:00	0.00	0.0	92.52	17.07	0.0
29-Aug 23:30	2.66	46.5	95.72	18.02	0.0
30-Aug 0:00	1.98	187.1	97.47	16.26	-0.1
30-Aug 0:30	2.27	227.2	96.51	15.93	-0.1
30-Aug 1:00	2.80	356.5	93.45	16.74	-0.1
30-Aug 1:30	2.79	1.2	90.73	17.00	0.0
30-Aug 2:00	3.61	11.2	97.06	16.59	0.0
30-Aug 2:30	4.19	8.8	98.39	15.99	0.0
30-Aug 3:00	1.77	341.4	99.27	16.04	0.0
30-Aug 3:30	2.69	27.4	101.88	15.49	-0.1
30-Aug 4:00	4.17	14.7	99.43	15.49	-0.1
30-Aug 4:30	3.56	21.1	99.82	15.36	-0.1
30-Aug 5:00	4.48	13.0	100.06	15.13	-0.1
30-Aug 5:30	5.76	27.9	101.07	14.93	-0.1
30-Aug 6:00	6.91	24.6	101.39	14.98	0.0

30-Aug 6:30	7.02	0.0	100.69	14.67	5.4
30-Aug 7:00	4.84	20.5	100.19	14.74	35.1
30-Aug 7:30	4.65	8.7	98.03	15.20	35.6
30-Aug 8:00	4.20	46.8	93.36	15.55	80.3
30-Aug 8:30	5.06	43.7	92.30	16.07	168.3
30-Aug 9:00	6.86	37.6	86.86	16.95	304.8
30-Aug 9:30	5.57	35.5	81.46	17.71	238.9
30-Aug 10:00	8.10	43.0	75.20	18.30	370.7
30-Aug 10:30	7.39	33.4	74.00	18.77	191.9
30-Aug 11:00	7.29	25.4	70.30	19.67	364.8
30-Aug 11:30	3.07	41.1	69.96	20.35	422.0
30-Aug 12:00	6.15	47.3	72.75	20.62	352.9
30-Aug 12:30	4.37	38.4	65.65	23.02	883.8
30-Aug 13:00	3.52	40.7	65.85	23.64	887.8
30-Aug 13:30	4.09	157.0	67.03	24.71	573.5
30-Aug 14:00	4.82	131.6	70.48	24.50	198.6
30-Aug 14:30	1.09	157.4	72.94	24.32	70.3
30-Aug 15:00	0.66	203.3	72.95	24.61	248.3
30-Aug 15:30	3.68	162.4	70.28	25.49	173.1
30-Aug 16:00	1.67	228.5	69.69	25.62	119.2
30-Aug 16:30	3.01	118.8	68.53	25.60	187.4
30-Aug 17:00	5.07	94.2	68.52	25.89	221.2
30-Aug 17:30	8.04	111.3	65.53	25.62	109.1
30-Aug 18:00	5.51	162.0	68.60	25.18	82.0
30-Aug 18:30	4.20	119.7	70.82	24.73	49.1
30-Aug 19:00	4.58	126.5	74.78	24.39	15.1
30-Aug 19:30	0.54	192.2	77.00	24.15	1.2
30-Aug 20:00	2.04	181.9	77.83	24.13	0.1
30-Aug 20:30	1.09	111.7	78.08	24.00	0.1
30-Aug 21:00	0.68	265.1	79.18	23.92	0.1
30-Aug 21:30	0.00	0.0	81.43	23.70	0.0
30-Aug 22:00	1.56	51.1	82.88	23.62	0.0
30-Aug 22:30	3.06	121.3	84.71	23.45	0.0
30-Aug 23:00	1.29	161.6	86.53	23.31	0.0
30-Aug 23:30	1.03	355.4	88.14	23.04	0.0
31-Aug 0:00	1.64	56.6	91.61	22.84	0.0
31-Aug 0:30	3.51	136.0	93.28	22.61	0.0
31-Aug 1:00	5.76	142.7	94.84	22.35	0.0
31-Aug 1:30	4.66	103.9	97.14	22.12	0.0
31-Aug 2:00	3.45	159.9	97.25	22.02	0.0
31-Aug 2:30	1.30	209.2	98.63	21.69	0.0
31-Aug 3:00	1.37	133.2	99.19	21.46	0.0
31-Aug 3:30	1.45	128.9	100.70	21.08	0.0
31-Aug 4:00	1.83	143.7	97.88	21.15	0.0
31-Aug 4:30	3.06	168.1	98.72	21.08	0.0
31-Aug 5:00	1.96	189.2	98.58	20.82	0.0
31-Aug 5:30	0.16	268.2	99.28	20.71	0.0
31-Aug 6:00	0.00	0.0	100.51	20.53	0.0
31-Aug 6:30	0.00	0.0	103.53	20.15	5.3
31-Aug 7:00	0.00	0.0	100.14	20.60	11.5

31-Aug 7:30	0.80	277.3	100.16	20.65	29.5
31-Aug 8:00	1.95	164.8	99.75	20.70	38.6
31-Aug 8:30	1.00	142.9	95.26	21.51	117.9
31-Aug 9:00	3.24	244.6	91.40	22.17	196.2
31-Aug 9:30	3.96	185.5	86.28	22.99	365.9
31-Aug 10:00	2.65	115.8	83.72	23.71	552.7
31-Aug 10:30	2.94	157.8	81.98	24.14	275.2
31-Aug 11:00	4.88	187.4	81.10	24.55	522.9
31-Aug 11:30	5.78	146.1	79.28	24.87	361.5
31-Aug 12:00	1.79	154.6	70.66	26.89	908.7
31-Aug 12:30	4.44	72.4	68.67	27.36	894.3
31-Aug 13:00	6.57	60.9	72.04	26.41	436.7
31-Aug 13:30	1.99	97.7	67.71	27.52	955.4
31-Aug 14:00	6.60	90.8	65.77	27.72	983.7
31-Aug 14:30	1.02	33.3	59.25	29.37	937.9
31-Aug 15:00	7.85	194.9	55.86	29.19	816.6
31-Aug 15:30	3.39	124.1	59.29	28.81	303.3
31-Aug 16:00	6.28	179.2	54.55	29.34	643.3
31-Aug 16:30	4.66	83.6	56.83	29.71	298.5
31-Aug 17:00	3.16	192.2	61.67	28.34	255.1
31-Aug 17:30	3.93	171.6	64.48	27.91	61.7
31-Aug 18:00	3.43	199.3	65.60	27.42	42.0
31-Aug 18:30	11.40	176.9	67.82	26.95	14.5
31-Aug 19:00	3.32	168.7	68.53	26.63	2.2
31-Aug 19:30	5.08	214.5	85.01	24.70	0.0
31-Aug 20:00	2.18	171.4	107.71	20.51	0.0
31-Aug 20:30	2.57	161.1	108.48	20.39	0.0
31-Aug 21:00	0.08	113.2	108.27	20.56	0.0
31-Aug 21:30	2.15	218.0	108.47	20.40	0.0
31-Aug 22:00	1.92	192.1	108.46	20.66	0.0
31-Aug 22:30	0.56	164.2	108.46	20.49	0.0
31-Aug 23:00	2.68	200.9	108.67	20.54	0.0
31-Aug 23:30	3.38	194.7	108.90	20.31	0.0
1-Sep 0:00	2.47	172.8	109.12	20.29	0.0
1-Sep 0:30	3.46	206.0	109.06	20.22	0.0
1-Sep 1:00	0.96	186.6	109.05	20.13	0.0
1-Sep 1:30	1.83	221.3	109.11	20.06	0.0
1-Sep 2:00	2.42	188.8	108.47	20.19	0.0
1-Sep 2:30	2.65	169.6	107.81	19.98	0.0
1-Sep 3:00	2.32	140.1	108.02	19.82	0.0
1-Sep 3:30	3.68	166.7	106.08	19.76	0.0
1-Sep 4:00	4.13	266.1	97.44	19.91	0.0
1-Sep 4:30	0.00	0.0	98.83	19.49	0.0
1-Sep 5:00	2.30	173.8	101.36	18.99	0.0
1-Sep 5:30	1.87	220.9	95.63	19.25	0.0
1-Sep 6:00	7.08	287.9	89.84	19.23	0.0
1-Sep 6:30	3.88	282.7	87.68	18.43	1.9
1-Sep 7:00	2.98	324.0	86.44	18.52	23.9
1-Sep 7:30	1.81	201.0	87.98	18.17	50.9
1-Sep 8:00	2.76	171.4	88.11	18.12	78.8

1-Sep 8:30	2.23	253.1	80.75	19.00	232.0
1-Sep 9:00	3.97	282.5	74.74	20.20	286.5
1-Sep 9:30	9.37	298.4	69.40	19.99	185.3
1-Sep 10:00	11.12	307.7	67.41	20.42	643.1
1-Sep 10:30	7.43	327.5	65.29	21.11	561.8
1-Sep 11:00	4.90	292.4	58.41	22.02	252.7
1-Sep 11:30	11.54	307.3	56.82	21.38	329.4
1-Sep 12:00	12.67	315.1	56.29	21.94	355.1
1-Sep 12:30	8.83	292.7	50.44	22.83	936.9
1-Sep 13:00	15.03	308.9	49.20	22.69	1027.5
1-Sep 13:30	17.48	312.8	53.40	21.93	957.6
1-Sep 14:00	14.42	299.4	50.39	22.13	950.4
1-Sep 14:30	11.85	293.2	47.76	22.60	923.2
1-Sep 15:00	12.26	304.8	51.01	21.82	661.6
1-Sep 15:30	11.78	314.3	49.46	22.73	797.4
1-Sep 16:00	5.40	310.3	48.59	21.78	725.1
1-Sep 16:30	5.95	308.7	50.07	21.47	624.9
1-Sep 17:00	5.24	323.9	50.95	21.49	524.6
1-Sep 17:30	10.68	305.7	48.86	21.18	426.3
1-Sep 18:00	11.16	309.0	50.19	20.72	285.6
1-Sep 18:30	8.74	304.7	52.06	20.61	209.4
1-Sep 19:00	6.97	327.4	55.79	19.35	104.3
1-Sep 19:30	2.20	318.2	58.26	18.24	6.3
1-Sep 20:00	2.16	355.6	59.98	17.56	0.0
1-Sep 20:30	2.42	237.0	70.05	16.00	0.0
1-Sep 21:00	3.36	285.9	67.20	16.12	-0.1
1-Sep 21:30	0.51	302.8	68.89	15.61	-0.1
1-Sep 22:00	6.61	295.6	73.85	15.16	0.0
1-Sep 22:30	2.30	262.1	74.59	14.42	0.0
1-Sep 23:00	5.04	321.6	74.88	14.45	-0.1
1-Sep 23:30	4.15	354.4	73.32	14.47	0.0
2-Sep 0:00	6.38	6.7	78.20	14.10	-0.1
2-Sep 0:30	4.72	18.2	77.04	13.93	0.0
2-Sep 1:00	3.51	52.8	83.76	13.75	-0.1
2-Sep 1:30	3.63	335.3	84.27	12.68	-0.1
2-Sep 2:00	2.30	174.3	88.23	11.68	-0.1
2-Sep 2:30	3.18	205.5	96.04	10.54	-0.1
2-Sep 3:00	0.00	0.0	97.72	10.20	-0.1
2-Sep 3:30	0.77	195.1	95.57	10.13	-0.1
2-Sep 4:00	2.29	346.1	97.49	10.24	-0.2
2-Sep 4:30	0.77	238.9	96.35	9.74	-0.2
2-Sep 5:00	2.46	226.4	104.15	8.61	-0.2
2-Sep 5:30	2.63	234.9	103.10	8.46	-0.2
2-Sep 6:00	2.43	219.8	106.87	7.46	-0.2
2-Sep 6:30	2.55	218.0	107.04	7.57	5.2
2-Sep 7:00	2.81	227.1	106.85	7.39	20.6
2-Sep 7:30	2.38	237.5	105.59	8.04	35.9
2-Sep 8:00	2.72	296.6	91.69	10.52	208.2
2-Sep 8:30	1.03	49.6	84.91	13.63	309.8
2-Sep 9:00	2.42	40.4	78.75	13.97	412.1

2-Sep 9:30	3.71	38.4	70.38	14.86	518.0
2-Sep 10:00	1.95	49.6	67.18	15.69	618.0
2-Sep 10:30	4.11	35.0	65.94	16.72	679.5
2-Sep 11:00	4.59	14.2	59.58	17.69	784.6
2-Sep 11:30	5.22	11.7	55.72	18.82	727.4
2-Sep 12:00	1.81	40.6	50.79	19.70	523.8
2-Sep 12:30	1.95	32.2	47.88	21.03	767.2
2-Sep 13:00	2.41	2.0	46.03	20.67	834.8
2-Sep 13:30	2.93	11.2	47.94	21.01	716.7
2-Sep 14:00	5.41	199.6	46.51	20.86	957.3
2-Sep 14:30	5.70	289.0	42.31	21.53	1007.6
2-Sep 15:00	2.17	215.3	43.77	21.62	865.5
2-Sep 15:30	1.48	260.5	43.49	23.16	798.3
2-Sep 16:00	5.84	146.2	41.25	22.63	717.7
2-Sep 16:30	4.86	200.1	40.04	23.11	625.4
2-Sep 17:00	6.32	224.2	40.61	22.65	526.3
2-Sep 17:30	4.11	241.3	43.25	22.81	415.5
2-Sep 18:00	1.06	210.6	44.26	22.90	55.8
2-Sep 18:30	3.89	207.4	43.18	22.33	197.3
2-Sep 19:00	1.77	193.1	53.18	21.42	94.0
2-Sep 19:30	2.72	282.6	61.68	19.24	5.3
2-Sep 20:00	2.84	280.6	71.86	17.54	0.0
2-Sep 20:30	0.00	0.0	78.62	16.25	0.0
2-Sep 21:00	2.13	338.7	85.25	15.62	0.0
2-Sep 21:30	0.48	273.1	87.54	14.79	-0.1
2-Sep 22:00	2.96	334.8	94.10	14.33	-0.1
2-Sep 22:30	1.93	268.9	95.07	12.40	-0.1
2-Sep 23:00	0.91	231.5	97.07	12.77	-0.1
2-Sep 23:30	1.42	298.5	99.47	12.34	-0.1
3-Sep 0:00	2.87	225.7	101.80	10.92	-0.1
3-Sep 0:30	0.00	0.0	103.23	11.96	-0.1
3-Sep 1:00	1.74	353.1	106.33	11.64	-0.1
3-Sep 1:30	1.81	23.1	106.48	12.68	-0.1
3-Sep 2:00	1.31	9.2	106.22	11.81	-0.1
3-Sep 2:30	4.54	357.5	106.61	12.08	-0.1
3-Sep 3:00	2.65	20.8	106.10	11.97	-0.1
3-Sep 3:30	1.89	236.5	107.19	10.55	-0.1
3-Sep 4:00	2.97	217.6	106.11	9.57	-0.2
3-Sep 4:30	2.48	255.9	106.03	10.20	-0.1
3-Sep 5:00	2.22	192.6	107.29	10.22	-0.1
3-Sep 5:30	3.86	190.3	106.42	10.33	-0.1
3-Sep 6:00	3.47	185.0	107.12	10.14	-0.1
3-Sep 6:30	2.97	203.4	107.40	10.44	2.6
3-Sep 7:00	1.71	184.5	107.09	10.86	24.0
3-Sep 7:30	2.41	187.3	106.19	11.29	57.4
3-Sep 8:00	2.81	190.5	104.71	11.90	83.1
3-Sep 8:30	1.02	177.8	102.53	12.61	99.1
3-Sep 9:00	0.00	0.0	100.17	13.24	152.7
3-Sep 9:30	1.80	244.2	94.73	14.65	245.6
3-Sep 10:00	1.74	144.2	88.08	16.19	324.5

3-Sep 10:30	3.33	197.2	85.72	17.33	373.4
3-Sep 11:00	5.62	181.3	83.47	17.88	420.3
3-Sep 11:30	2.20	111.6	74.20	20.07	846.0
3-Sep 12:00	2.40	323.1	67.99	21.61	861.2
3-Sep 12:30	2.11	130.9	60.15	22.87	934.5
3-Sep 13:00	4.27	207.4	59.36	23.12	943.5
3-Sep 13:30	1.08	67.6	51.51	24.57	925.8
3-Sep 14:00	4.96	207.0	55.39	23.72	312.4
3-Sep 14:30	2.31	192.4	51.69	24.46	946.8
3-Sep 15:00	3.35	184.5	52.41	25.00	885.9
3-Sep 15:30	3.77	174.9	52.56	24.76	154.9
3-Sep 16:00	6.35	200.4	52.94	24.44	139.2
3-Sep 16:30	3.73	177.1	49.68	25.02	607.4
3-Sep 17:00	4.04	188.2	48.03	25.71	530.6
3-Sep 17:30	4.14	202.0	48.78	25.36	378.0
3-Sep 18:00	5.07	184.1	49.64	24.81	90.0
3-Sep 18:30	2.49	179.8	52.22	24.17	129.1
3-Sep 19:00	4.22	158.3	55.09	23.30	45.4
3-Sep 19:30	3.16	140.1	60.24	21.95	3.3
3-Sep 20:00	0.97	168.7	65.63	21.66	0.0
3-Sep 20:30	0.00	0.0	78.03	19.99	0.0
3-Sep 21:00	1.17	74.1	80.25	19.21	0.0
3-Sep 21:30	3.71	44.7	85.32	18.91	0.0
3-Sep 22:00	2.57	355.9	88.93	18.02	0.0
3-Sep 22:30	2.41	356.4	94.27	17.57	0.0
3-Sep 23:00	4.62	49.7	95.86	17.22	0.0
3-Sep 23:30	4.06	36.2	95.76	17.03	0.0
4-Sep 0:00	4.58	39.2	93.10	17.20	0.0
4-Sep 0:30	2.07	11.6	93.17	17.58	0.0
4-Sep 1:00	3.29	42.4	92.19	18.11	0.0
4-Sep 1:30	2.69	352.6	91.57	17.77	0.0
4-Sep 2:00	3.26	31.1	94.67	17.56	0.0
4-Sep 2:30	4.78	358.9	97.11	16.99	0.0
4-Sep 3:00	1.46	21.5	99.05	16.74	0.0
4-Sep 3:30	1.55	357.2	97.73	16.61	0.0
4-Sep 4:00	3.71	36.6	100.11	16.74	0.0
4-Sep 4:30	4.45	40.7	101.84	16.72	0.0
4-Sep 5:00	4.38	346.8	99.70	16.44	0.0
4-Sep 5:30	3.29	57.2	100.08	16.85	0.0
4-Sep 6:00	3.43	40.9	99.11	16.81	0.0
4-Sep 6:30	3.27	58.4	102.15	17.08	2.0
4-Sep 7:00	3.84	336.5	99.29	17.00	20.1
4-Sep 7:30	1.32	223.4	99.91	16.83	67.4
4-Sep 8:00	1.50	267.8	97.47	17.77	67.5
4-Sep 8:30	2.74	238.0	92.67	18.54	221.7
4-Sep 9:00	0.75	231.5	87.06	20.05	179.5
4-Sep 9:30	5.44	202.7	86.24	20.33	421.1
4-Sep 10:00	4.50	202.3	81.83	21.52	539.5
4-Sep 10:30	1.62	216.2	76.40	23.24	644.3
4-Sep 11:00	3.58	223.9	68.47	25.44	755.7

4-Sep 11:30	0.96	281.8	65.08	25.85	415.8
4-Sep 12:00	3.70	216.8	64.17	25.77	393.5
4-Sep 12:30	3.25	101.2	62.73	25.98	657.2
4-Sep 13:00	3.08	311.5	62.57	26.96	528.0
4-Sep 13:30	0.19	323.4	51.83	29.09	923.3
4-Sep 14:00	4.80	90.4	60.59	26.70	151.9
4-Sep 14:30	2.64	130.5	65.86	26.24	59.9
4-Sep 15:00	0.00	0.0	72.93	25.10	25.3
4-Sep 15:30	5.70	347.8	86.49	23.41	26.0
4-Sep 16:00	5.31	55.1	95.15	22.03	355.8
4-Sep 16:30	5.09	72.7	91.68	22.41	72.1
4-Sep 17:00	8.44	54.0	92.54	21.63	122.7
4-Sep 17:30	4.42	9.9	93.43	21.60	101.1
4-Sep 18:00	2.69	350.4	97.34	21.35	81.5
4-Sep 18:30	3.99	13.4	91.36	21.40	131.3
4-Sep 19:00	2.83	9.9	91.07	21.29	41.0
4-Sep 19:30	0.00	0.0	98.53	20.67	3.0
4-Sep 20:00	1.17	88.4	103.14	19.95	0.0
4-Sep 20:30	2.26	190.3	105.88	19.08	0.0
4-Sep 21:00	0.00	0.0	108.07	18.87	0.0
4-Sep 21:30	1.79	239.2	108.07	18.89	0.0
4-Sep 22:00	4.90	326.4	91.01	19.96	0.0
4-Sep 22:30	4.75	347.1	88.36	19.90	0.0
4-Sep 23:00	3.31	0.7	83.88	19.25	0.0
4-Sep 23:30	7.84	309.6	82.11	18.89	0.0
5-Sep 0:00	12.16	326.5	79.89	18.63	0.0
5-Sep 0:30	11.19	330.6	81.63	18.16	0.0
5-Sep 1:00	5.09	313.9	83.84	17.75	0.0
5-Sep 1:30	5.78	288.6	86.12	17.19	0.0
5-Sep 2:00	9.00	318.6	84.82	17.36	0.0
5-Sep 2:30	4.81	291.1	94.23	15.67	0.0
5-Sep 3:00	7.94	295.2	91.42	15.92	0.0
5-Sep 3:30	0.99	284.3	90.63	16.16	0.0
5-Sep 4:00	10.82	293.8	87.86	16.49	0.0
5-Sep 4:30	4.86	39.6	87.07	16.56	0.0
5-Sep 5:00	4.99	285.1	86.86	16.32	0.0
5-Sep 5:30	5.59	285.9	88.40	15.72	0.0
5-Sep 6:00	10.31	297.4	85.05	15.88	0.0
5-Sep 6:30	15.12	313.2	83.71	15.64	3.8
5-Sep 7:00	9.48	312.1	81.97	15.51	17.7
5-Sep 7:30	3.06	300.7	79.21	15.96	100.4
5-Sep 8:00	3.72	342.6	76.74	16.61	202.7
5-Sep 8:30	8.19	325.8	78.24	15.65	104.7
5-Sep 9:00	21.77	335.2	70.28	16.11	326.2
5-Sep 9:30	13.80	319.2	66.37	16.63	516.4
5-Sep 10:00	18.27	310.6	61.47	17.40	565.8
5-Sep 10:30	12.89	299.9	60.13	17.83	636.6
5-Sep 11:00	13.52	303.8	55.89	18.93	733.6
5-Sep 11:30	15.49	316.0	51.39	19.46	830.9
5-Sep 12:00	14.20	311.4	48.50	20.16	891.2

5-Sep 12:30	15.49	312.3	50.70	20.48	923.4
5-Sep 13:00	8.90	328.9	48.47	21.55	943.6
5-Sep 13:30	9.83	264.5	46.13	21.87	943.7
5-Sep 14:00	6.16	299.9	45.37	21.88	930.8
5-Sep 14:30	10.14	293.5	43.68	22.87	896.6
5-Sep 15:00	5.83	304.9	42.22	22.84	846.2
5-Sep 15:30	12.14	306.1	40.58	22.75	786.1
5-Sep 16:00	11.48	317.5	40.66	23.22	701.8
5-Sep 16:30	8.72	276.9	40.12	23.58	612.0
5-Sep 17:00	8.13	291.6	40.23	23.07	514.4
5-Sep 17:30	7.54	273.4	39.63	23.52	408.2
5-Sep 18:00	8.01	298.6	40.73	22.78	297.1
5-Sep 18:30	5.51	269.7	43.28	22.28	185.7
5-Sep 19:00	3.97	279.3	49.17	21.36	76.1
5-Sep 19:30	4.69	287.2	62.68	18.37	3.3
5-Sep 20:00	3.38	280.1	70.92	16.90	0.0
5-Sep 20:30	1.75	189.9	73.55	16.27	0.0
5-Sep 21:00	2.49	290.2	65.99	16.76	0.0
5-Sep 21:30	1.10	174.5	67.60	16.50	0.0
5-Sep 22:00	2.53	264.1	70.41	16.08	0.0
5-Sep 22:30	6.57	34.7	69.34	16.51	0.0
5-Sep 23:00	3.11	45.0	71.96	15.96	0.0
5-Sep 23:30	4.28	15.7	70.58	15.71	-0.1
6-Sep 0:00	5.42	13.5	77.10	15.13	-0.1
6-Sep 0:30	1.76	308.9	72.11	15.06	-0.1
6-Sep 1:00	3.28	309.8	88.05	14.27	-0.1
6-Sep 1:30	2.30	172.7	92.93	12.52	-0.1
6-Sep 2:00	1.18	180.1	88.98	12.32	-0.1
6-Sep 2:30	2.06	211.9	93.68	11.53	-0.1
6-Sep 3:00	2.21	240.5	95.36	10.89	-0.1
6-Sep 3:30	3.01	193.8	101.68	10.00	-0.1
6-Sep 4:00	2.26	195.7	100.89	10.30	-0.1
6-Sep 4:30	2.96	204.5	105.81	8.50	-0.2
6-Sep 5:00	2.66	202.3	105.09	9.58	-0.2
6-Sep 5:30	2.74	204.0	106.83	7.95	-0.2
6-Sep 6:00	2.69	204.5	107.38	7.61	-0.2
6-Sep 6:30	1.88	259.7	107.86	7.44	3.6
6-Sep 7:00	3.37	237.0	107.54	7.34	16.0
6-Sep 7:30	1.74	196.0	101.56	8.48	110.3
6-Sep 8:00	0.97	189.0	90.93	10.47	211.2
6-Sep 8:30	1.13	174.1	88.61	11.35	297.5
6-Sep 9:00	0.00	0.0	81.18	12.99	394.1
6-Sep 9:30	0.00	0.0	74.15	16.37	497.7
6-Sep 10:00	1.67	346.1	69.56	17.47	595.3
6-Sep 10:30	1.32	25.9	64.42	18.97	680.9
6-Sep 11:00	2.50	41.9	56.73	20.36	761.5
6-Sep 11:30	0.88	16.4	47.98	21.97	814.5
6-Sep 12:00	2.16	32.0	48.65	22.52	881.6
6-Sep 12:30	2.91	178.0	39.51	22.75	914.8
6-Sep 13:00	4.55	279.8	33.38	23.20	925.4

6-Sep 13:30	4.48	303.8	33.43	23.80	927.6
6-Sep 14:00	3.42	238.4	28.41	24.88	916.0
6-Sep 14:30	4.30	239.8	30.16	24.97	884.9
6-Sep 15:00	2.46	155.4	30.81	25.41	832.3
6-Sep 15:30	3.88	221.4	30.02	25.76	771.9
6-Sep 16:00	1.25	189.7	27.31	27.02	694.2
6-Sep 16:30	3.55	185.0	29.78	26.30	601.7
6-Sep 17:00	6.60	218.1	33.31	25.81	501.5
6-Sep 17:30	8.41	175.2	32.62	25.44	400.2
6-Sep 18:00	3.18	190.9	32.94	25.04	289.9
6-Sep 18:30	3.08	139.6	38.28	24.77	178.2
6-Sep 19:00	0.39	212.8	44.12	23.58	71.7
6-Sep 19:30	1.51	358.0	57.29	21.36	1.8
6-Sep 20:00	1.19	14.6	74.58	19.29	0.0
6-Sep 20:30	2.27	36.6	77.63	18.24	0.0
6-Sep 21:00	3.86	328.8	79.08	16.79	0.0
6-Sep 21:30	1.87	321.6	82.78	16.25	0.0
6-Sep 22:00	2.96	321.2	87.21	15.39	0.0
6-Sep 22:30	2.31	38.2	94.96	15.23	-0.1
6-Sep 23:00	2.64	218.5	92.31	13.28	0.0
6-Sep 23:30	1.85	215.5	90.12	12.87	-0.1
7-Sep 0:00	0.71	236.2	92.57	12.41	-0.1
7-Sep 0:30	2.58	226.4	96.28	11.22	-0.2
7-Sep 1:00	0.00	0.0	92.06	11.98	-0.2
7-Sep 1:30	2.16	220.1	98.61	10.37	-0.2
7-Sep 2:00	2.20	241.1	100.74	10.71	-0.2
7-Sep 2:30	0.00	0.0	102.34	10.07	-0.2
7-Sep 3:00	3.27	254.4	100.85	10.31	-0.1
7-Sep 3:30	2.17	241.7	99.44	10.37	-0.2
7-Sep 4:00	2.03	254.9	97.94	10.32	-0.2
7-Sep 4:30	3.37	267.4	101.37	9.38	-0.2
7-Sep 5:00	2.09	227.2	100.98	9.74	-0.2
7-Sep 5:30	0.00	0.0	101.40	9.87	-0.2
7-Sep 6:00	2.53	216.4	102.56	9.04	-0.1
7-Sep 6:30	2.34	216.8	101.12	9.20	3.1
7-Sep 7:00	1.87	227.3	105.02	9.02	19.8
7-Sep 7:30	2.82	211.4	105.62	9.38	46.9
7-Sep 8:00	3.60	187.3	108.68	9.40	99.5
7-Sep 8:30	2.05	220.2	107.85	10.68	232.7
7-Sep 9:00	0.44	167.6	95.81	12.84	390.2
7-Sep 9:30	2.28	141.5	80.47	15.67	477.8
7-Sep 10:00	0.00	0.0	74.49	17.88	570.7
7-Sep 10:30	2.52	98.1	65.09	19.93	492.5
7-Sep 11:00	2.92	137.1	60.51	22.27	745.0
7-Sep 11:30	3.96	192.3	56.33	24.03	807.7
7-Sep 12:00	7.71	168.6	49.50	25.27	866.2
7-Sep 12:30	4.42	122.7	44.87	25.89	911.5
7-Sep 13:00	5.10	144.7	42.55	26.11	927.4
7-Sep 13:30	5.89	176.7	46.27	26.55	910.6
7-Sep 14:00	6.19	145.1	43.68	27.07	909.5

7-Sep 14:30	3.23	171.1	40.45	28.12	860.3
7-Sep 15:00	3.48	140.9	34.52	28.72	825.3
7-Sep 15:30	6.50	154.9	35.41	28.26	761.0
7-Sep 16:00	4.27	219.2	38.74	27.99	679.5
7-Sep 16:30	6.11	189.5	39.97	27.75	566.5
7-Sep 17:00	4.25	198.2	42.91	27.82	462.5
7-Sep 17:30	5.07	150.6	41.31	27.92	342.6
7-Sep 18:00	5.10	205.9	44.47	27.62	262.8
7-Sep 18:30	2.77	201.8	45.60	27.26	165.1
7-Sep 19:00	4.15	134.6	50.77	25.77	55.1
7-Sep 19:30	2.89	146.3	53.57	24.71	4.2
7-Sep 20:00	0.00	0.0	71.86	22.44	0.0
7-Sep 20:30	0.00	0.0	76.84	21.05	0.0
7-Sep 21:00	2.51	349.8	85.93	20.18	0.0
7-Sep 21:30	2.83	40.0	90.69	19.66	0.0
7-Sep 22:00	1.37	29.1	92.58	18.89	0.0
7-Sep 22:30	0.68	32.0	91.51	18.63	0.0
7-Sep 23:00	0.07	327.7	88.23	18.20	0.0
7-Sep 23:30	1.97	28.8	95.81	17.75	-0.1
8-Sep 0:00	3.36	42.6	96.51	17.45	-0.1
8-Sep 0:30	2.18	347.2	98.38	16.54	-0.1
8-Sep 1:00	2.34	45.9	98.01	16.50	-0.1
8-Sep 1:30	0.00	0.0	98.65	15.94	-0.2
8-Sep 2:00	0.17	259.4	101.64	14.85	-0.2
8-Sep 2:30	2.44	237.1	98.14	14.21	-0.2
8-Sep 3:00	1.31	319.4	99.42	14.20	-0.2
8-Sep 3:30	0.85	277.2	102.93	14.11	-0.2
8-Sep 4:00	2.62	334.3	103.34	14.33	-0.1
8-Sep 4:30	1.61	32.5	103.47	13.66	-0.2
8-Sep 5:00	3.37	7.7	105.44	14.08	-0.2
8-Sep 5:30	2.27	39.0	104.72	13.90	-0.2
8-Sep 6:00	2.90	314.5	103.93	12.90	-0.1
8-Sep 6:30	1.95	193.9	106.95	12.24	1.6
8-Sep 7:00	2.02	228.4	105.87	12.33	25.1
8-Sep 7:30	2.75	233.3	104.99	11.95	74.9
8-Sep 8:00	2.25	204.1	105.08	12.64	133.9
8-Sep 8:30	0.74	223.0	99.61	13.99	192.0
8-Sep 9:00	0.00	0.0	88.36	17.19	388.6
8-Sep 9:30	2.02	153.2	85.22	18.55	432.8
8-Sep 10:00	5.54	224.9	80.55	20.44	537.4
8-Sep 10:30	4.23	240.0	77.30	21.30	619.1
8-Sep 11:00	0.00	0.0	67.81	23.43	729.8
8-Sep 11:30	2.39	90.6	67.22	24.35	688.4
8-Sep 12:00	2.89	111.1	63.07	25.67	813.2
8-Sep 12:30	8.26	168.7	60.25	25.77	859.3
8-Sep 13:00	7.99	162.7	57.40	26.33	927.0
8-Sep 13:30	3.12	135.1	57.40	26.69	825.7
8-Sep 14:00	4.32	153.8	58.10	26.24	619.5
8-Sep 14:30	2.62	218.7	50.18	27.75	918.7
8-Sep 15:00	3.95	251.7	49.64	27.85	804.0

8-Sep 15:30	4.42	188.9	44.86	28.40	742.3
8-Sep 16:00	4.24	170.3	46.27	28.37	676.2
8-Sep 16:30	4.34	207.0	46.77	28.70	558.4
8-Sep 17:00	6.26	196.9	46.69	28.54	472.1
8-Sep 17:30	2.51	114.8	48.17	28.25	339.5
8-Sep 18:00	2.53	141.4	52.80	27.22	208.3
8-Sep 18:30	4.76	197.9	54.89	26.71	95.6
8-Sep 19:00	5.44	204.9	58.10	25.73	35.3
8-Sep 19:30	3.45	182.7	59.32	24.81	2.1
8-Sep 20:00	3.67	160.3	62.09	24.24	0.1
8-Sep 20:30	2.25	181.2	63.13	23.70	0.0
8-Sep 21:00	2.58	241.5	64.94	23.18	0.0
8-Sep 21:30	1.60	138.0	71.93	22.28	0.0
8-Sep 22:00	1.08	172.2	84.35	19.86	0.0
8-Sep 22:30	2.67	264.9	78.09	20.93	0.0
8-Sep 23:00	4.08	328.3	91.41	19.69	0.0
8-Sep 23:30	2.47	18.5	96.72	19.17	0.0
9-Sep 0:00	4.08	310.0	92.41	18.53	0.0
9-Sep 0:30	5.53	322.2	100.25	17.94	0.0
9-Sep 1:00	1.33	7.9	102.40	17.87	0.0
9-Sep 1:30	3.27	19.8	104.12	17.75	0.0
9-Sep 2:00	2.81	7.9	103.69	17.42	-0.1
9-Sep 2:30	2.86	288.8	104.15	17.09	-0.1
9-Sep 3:00	2.92	42.2	105.48	17.50	0.0
9-Sep 3:30	3.40	42.0	104.25	17.60	-0.1
9-Sep 4:00	2.54	7.5	104.24	17.75	-0.1
9-Sep 4:30	1.89	236.1	99.21	17.75	0.0
9-Sep 5:00	2.43	46.7	104.91	18.03	0.0
9-Sep 5:30	2.74	19.6	105.55	17.90	0.0
9-Sep 6:00	1.51	313.3	105.00	17.15	0.0
9-Sep 6:30	0.15	149.3	106.72	17.16	1.2
9-Sep 7:00	0.00	0.0	104.90	17.62	11.5
9-Sep 7:30	0.33	173.0	105.94	17.56	22.1
9-Sep 8:00	2.65	271.8	105.75	17.53	88.0
9-Sep 8:30	2.27	213.0	98.87	18.42	136.8
9-Sep 9:00	1.70	170.3	95.31	19.56	190.2
9-Sep 9:30	0.00	0.0	86.02	21.69	216.1
9-Sep 10:00	3.87	178.8	84.44	21.96	433.4
9-Sep 10:30	6.10	134.1	80.63	22.84	537.2
9-Sep 11:00	6.71	227.2	75.33	24.26	886.3
9-Sep 11:30	5.24	216.5	76.13	23.96	332.3
9-Sep 12:00	4.47	132.7	71.90	24.66	280.7
9-Sep 12:30	7.18	141.2	59.94	26.73	674.9
9-Sep 13:00	8.52	183.5	59.47	26.44	932.5
9-Sep 13:30	3.51	98.6	56.58	26.90	907.6
9-Sep 14:00	5.25	82.8	54.80	26.73	1048.4
9-Sep 14:30	8.65	119.7	52.89	26.68	795.0
9-Sep 15:00	3.01	86.9	47.93	27.73	503.5
9-Sep 15:30	5.15	216.3	51.45	27.25	198.8
9-Sep 16:00	7.61	103.5	52.67	27.31	332.7

9-Sep 16:30	4.69	120.0	51.50	27.35	623.2
9-Sep 17:00	5.20	123.3	50.32	28.04	472.9
9-Sep 17:30	7.37	117.3	50.39	27.74	357.9
9-Sep 18:00	4.08	145.9	52.26	26.89	124.1
9-Sep 18:30	5.05	132.8	55.31	26.50	140.7
9-Sep 19:00	4.71	148.3	59.27	25.76	17.3
9-Sep 19:30	1.71	160.0	64.26	24.74	0.9
9-Sep 20:00	4.22	130.3	62.70	24.76	0.0
9-Sep 20:30	0.33	204.1	68.37	24.08	0.0
9-Sep 21:00	0.00	0.0	71.34	23.59	0.0
9-Sep 21:30	3.87	186.4	74.10	23.17	0.0
9-Sep 22:00	6.44	167.3	75.81	22.82	0.0
9-Sep 22:30	3.85	166.5	77.88	22.32	0.0
9-Sep 23:00	4.84	132.8	77.22	22.39	0.0
9-Sep 23:30	2.75	234.4	79.88	21.77	0.0
10-Sep 0:00	1.30	202.3	80.89	21.87	0.0
10-Sep 0:30	4.91	143.3	82.03	21.77	0.0
10-Sep 1:00	2.01	129.7	85.52	21.41	0.0
10-Sep 1:30	3.73	116.9	89.18	21.36	0.0
10-Sep 2:00	2.24	126.1	89.34	21.47	0.0
10-Sep 2:30	2.06	164.1	90.44	21.40	0.0
10-Sep 3:00	3.10	165.1	90.05	21.41	0.0
10-Sep 3:30	3.35	123.5	91.14	21.32	0.0
10-Sep 4:00	2.93	107.1	92.68	21.26	0.0
10-Sep 4:30	2.08	136.4	92.93	21.26	0.0
10-Sep 5:00	0.00	0.0	91.70	21.37	0.0
10-Sep 5:30	3.47	173.6	98.31	20.85	0.0
10-Sep 6:00	3.95	169.0	99.55	20.75	0.0
10-Sep 6:30	3.16	148.8	102.45	20.60	0.9
10-Sep 7:00	2.75	93.0	100.13	20.88	2.4
10-Sep 7:30	4.52	114.8	99.13	21.12	14.2
10-Sep 8:00	2.65	137.4	99.94	21.00	26.3
10-Sep 8:30	0.84	197.3	99.83	21.15	25.5
10-Sep 9:00	3.89	129.9	99.48	21.26	29.2
10-Sep 9:30	0.43	204.9	99.74	21.47	21.1
10-Sep 10:00	0.80	296.9	100.19	21.69	38.3
10-Sep 10:30	5.14	223.1	101.15	21.78	68.0
10-Sep 11:00	3.40	202.5	98.12	22.33	166.4
10-Sep 11:30	4.22	177.0	97.79	22.63	64.9
10-Sep 12:00	4.93	200.9	96.40	22.80	59.1
10-Sep 12:30	4.21	244.6	104.42	22.25	44.0
10-Sep 13:00	3.66	192.3	106.85	22.55	288.7
10-Sep 13:30	3.08	212.0	99.76	23.90	307.9
10-Sep 14:00	2.57	251.1	89.57	25.31	358.8
10-Sep 14:30	0.00	0.0	86.98	25.59	409.7
10-Sep 15:00	2.83	221.2	106.95	21.21	8.3
10-Sep 15:30	3.16	226.5	108.42	19.94	25.9
10-Sep 16:00	4.96	167.8	107.36	19.75	49.6
10-Sep 16:30	3.97	188.4	103.88	20.13	85.4
10-Sep 17:00	3.84	201.6	103.62	20.45	157.1

10-Sep 17:30	3.50	164.0	102.72	20.79	124.0
10-Sep 18:00	3.02	179.5	100.75	20.97	73.0
10-Sep 18:30	1.63	272.0	94.84	20.96	29.8
10-Sep 19:00	1.83	200.1	95.98	20.73	40.3
10-Sep 19:30	0.08	311.4	98.05	19.73	2.5
10-Sep 20:00	1.25	263.3	89.90	19.74	0.0
10-Sep 20:30	2.20	252.4	91.48	18.97	0.0
10-Sep 21:00	2.45	332.4	98.61	18.35	-0.1
10-Sep 21:30	0.00	0.0	104.79	17.37	-0.1
10-Sep 22:00	0.00	0.0	107.44	17.33	-0.1
10-Sep 22:30	1.79	216.1	104.31	16.57	-0.1
10-Sep 23:00	3.18	278.7	106.07	15.70	-0.1
10-Sep 23:30	1.30	195.1	108.07	15.34	-0.1
11-Sep 0:00	0.00	0.0	109.02	14.86	-0.1
11-Sep 0:30	0.00	0.0	109.39	14.74	-0.1
11-Sep 1:00	1.29	188.4	109.59	14.48	-0.1
11-Sep 1:30	0.75	188.2	109.72	14.41	-0.2
11-Sep 2:00	1.18	251.6	109.83	14.33	-0.2
11-Sep 2:30	2.58	279.8	109.88	13.68	-0.1
11-Sep 3:00	1.76	244.9	109.96	13.55	-0.2
11-Sep 3:30	2.67	254.6	109.99	13.11	-0.2
11-Sep 4:00	3.34	267.3	110.09	12.98	-0.1
11-Sep 4:30	2.06	160.1	110.14	12.81	-0.2
11-Sep 5:00	1.97	130.8	109.71	13.27	-0.2
11-Sep 5:30	4.24	118.3	107.64	12.95	-0.2
11-Sep 6:00	2.47	351.7	108.74	13.21	-0.2
11-Sep 6:30	2.30	300.3	108.31	12.32	1.3
11-Sep 7:00	1.35	284.9	106.98	12.66	15.9
11-Sep 7:30	4.43	180.2	105.89	12.01	64.6
11-Sep 8:00	0.00	0.0	93.23	15.03	200.2
11-Sep 8:30	2.39	242.5	94.94	15.70	282.7
11-Sep 9:00	2.00	185.1	89.55	16.74	375.9
11-Sep 9:30	3.09	151.8	83.21	17.69	472.4
11-Sep 10:00	6.23	286.2	70.40	19.97	563.0
11-Sep 10:30	7.18	267.4	63.63	21.22	650.4
11-Sep 11:00	7.86	291.4	60.10	21.64	732.2
11-Sep 11:30	9.77	290.0	51.61	23.29	835.3
11-Sep 12:00	15.45	327.1	51.74	22.27	466.9
11-Sep 12:30	11.90	327.5	46.92	23.05	908.7
11-Sep 13:00	12.84	310.5	42.64	23.89	902.8
11-Sep 13:30	14.00	312.4	44.37	23.94	900.8
11-Sep 14:00	12.71	298.4	39.29	24.59	886.6
11-Sep 14:30	15.75	310.2	41.62	24.22	844.1
11-Sep 15:00	15.96	322.8	42.16	23.99	791.3
11-Sep 15:30	4.08	263.7	39.79	24.98	736.1
11-Sep 16:00	11.24	306.9	42.27	24.53	647.7
11-Sep 16:30	6.39	282.9	42.12	25.01	564.2
11-Sep 17:00	10.49	282.3	45.57	24.00	457.5
11-Sep 17:30	14.76	295.8	46.71	23.70	355.7
11-Sep 18:00	6.43	323.8	47.53	23.55	251.4

11-Sep 18:30	3.98	333.1	47.68	23.17	141.3
11-Sep 19:00	4.44	319.0	51.54	22.15	39.5
11-Sep 19:30	3.51	304.0	63.81	19.78	0.9
11-Sep 20:00	3.95	321.9	68.51	18.74	0.0
11-Sep 20:30	1.76	325.4	82.30	17.63	-0.1
11-Sep 21:00	2.83	58.7	86.21	17.15	-0.2
11-Sep 21:30	3.32	53.8	87.80	16.64	-0.1
11-Sep 22:00	0.23	346.3	91.38	16.00	-0.1
11-Sep 22:30	1.87	12.9	94.08	15.58	-0.1
11-Sep 23:00	3.12	190.2	93.43	13.86	-0.2
11-Sep 23:30	2.45	216.3	92.08	14.03	-0.1
12-Sep 0:00	1.17	279.3	95.59	13.65	-0.1
12-Sep 0:30	0.00	0.0	97.74	13.21	-0.1
12-Sep 1:00	1.09	258.4	95.74	13.34	-0.2
12-Sep 1:30	2.14	198.2	97.31	12.77	-0.1
12-Sep 2:00	0.00	0.0	99.99	12.92	-0.2
12-Sep 2:30	0.83	198.2	99.98	12.08	-0.2
12-Sep 3:00	1.44	138.6	105.52	11.89	-0.2
12-Sep 3:30	4.44	337.1	98.98	11.86	-0.2
12-Sep 4:00	2.13	241.5	99.90	11.01	-0.2
12-Sep 4:30	3.36	229.6	102.89	10.07	-0.2
12-Sep 5:00	0.00	0.0	100.86	10.07	-0.2
12-Sep 5:30	1.17	117.5	93.43	11.93	-0.2
12-Sep 6:00	3.62	84.4	96.32	12.12	-0.2
12-Sep 6:30	3.68	202.1	98.48	10.37	1.9
12-Sep 7:00	3.76	203.0	105.05	9.08	12.7
12-Sep 7:30	3.60	221.5	101.72	9.91	96.4
12-Sep 8:00	1.27	183.1	94.21	11.34	196.3
12-Sep 8:30	3.23	196.3	91.11	12.42	274.2
12-Sep 9:00	3.17	162.9	88.62	13.55	372.8
12-Sep 9:30	2.46	161.9	81.43	15.83	472.5
12-Sep 10:00	1.97	91.9	73.53	18.46	568.0
12-Sep 10:30	1.78	19.7	67.11	20.56	654.7
12-Sep 11:00	0.63	52.2	56.75	22.04	734.6
12-Sep 11:30	3.05	23.8	50.08	22.96	793.5
12-Sep 12:00	4.32	358.5	38.89	22.87	848.8
12-Sep 12:30	1.45	331.9	34.31	24.39	884.8
12-Sep 13:00	2.32	350.2	34.28	24.55	905.1
12-Sep 13:30	0.00	0.0	32.57	24.89	934.0
12-Sep 14:00	1.93	71.4	33.95	25.22	889.6
12-Sep 14:30	0.00	0.0	29.05	25.53	860.5
12-Sep 15:00	4.29	320.1	32.03	26.02	791.2
12-Sep 15:30	4.53	336.0	31.86	25.31	733.4
12-Sep 16:00	0.00	0.0	31.67	26.66	657.8
12-Sep 16:30	0.85	217.6	31.44	26.43	566.5
12-Sep 17:00	0.38	352.6	29.84	27.59	467.7
12-Sep 17:30	3.04	222.6	32.18	26.28	360.6
12-Sep 18:00	2.96	188.4	34.70	25.59	255.6
12-Sep 18:30	2.25	144.4	46.87	24.59	147.6
12-Sep 19:00	2.11	125.5	54.77	22.68	23.6

12-Sep 19:30	0.00	0.0	70.60	20.95	0.6
12-Sep 20:00	1.79	256.5	70.13	19.06	0.0
12-Sep 20:30	0.32	7.2	84.87	18.18	0.0
12-Sep 21:00	1.94	32.4	84.50	17.60	-0.1
12-Sep 21:30	0.67	336.6	87.46	16.60	-0.1
12-Sep 22:00	1.19	301.6	85.80	15.89	-0.1
12-Sep 22:30	2.95	268.8	90.65	14.97	-0.1
12-Sep 23:00	0.00	0.0	93.46	14.54	-0.1
12-Sep 23:30	2.30	222.2	95.95	13.69	-0.1
13-Sep 0:00	2.68	224.1	101.71	12.57	-0.2
13-Sep 0:30	2.49	221.5	103.22	12.07	-0.2
13-Sep 1:00	2.44	251.6	103.49	11.76	-0.2
13-Sep 1:30	2.94	250.8	101.86	12.11	-0.2
13-Sep 2:00	2.43	218.9	103.83	11.22	-0.2
13-Sep 2:30	1.88	253.2	102.72	11.70	-0.2
13-Sep 3:00	2.92	215.0	105.00	10.61	-0.2
13-Sep 3:30	3.11	240.3	104.33	10.46	-0.2
13-Sep 4:00	3.18	220.6	108.12	9.83	-0.2
13-Sep 4:30	2.79	236.1	108.03	9.72	-0.2
13-Sep 5:00	1.42	231.7	108.06	9.31	-0.2
13-Sep 5:30	2.11	233.8	108.03	9.29	-0.2
13-Sep 6:00	2.41	236.7	108.44	9.55	-0.2
13-Sep 6:30	2.75	250.5	107.01	9.61	1.5
13-Sep 7:00	2.23	233.1	106.38	9.28	14.5
13-Sep 7:30	0.18	255.7	102.03	10.68	76.8
13-Sep 8:00	3.95	169.4	99.45	10.78	177.8
13-Sep 8:30	1.77	209.2	93.51	12.68	261.9
13-Sep 9:00	0.07	154.8	82.90	15.19	349.0
13-Sep 9:30	2.26	162.2	76.49	17.07	445.5
13-Sep 10:00	2.70	208.9	68.46	18.91	540.2
13-Sep 10:30	1.88	163.2	64.60	20.77	622.8
13-Sep 11:00	4.25	175.0	58.38	22.79	696.7
13-Sep 11:30	2.12	213.6	53.13	24.20	760.5
13-Sep 12:00	3.27	141.7	50.52	25.54	815.1
13-Sep 12:30	4.55	214.0	48.75	26.12	860.0
13-Sep 13:00	4.86	193.3	47.69	26.73	865.4
13-Sep 13:30	4.22	252.1	45.47	27.31	880.1
13-Sep 14:00	3.26	228.9	44.49	26.94	850.0
13-Sep 14:30	2.91	255.4	40.11	28.42	819.7
13-Sep 15:00	6.83	254.7	39.14	28.47	755.7
13-Sep 15:30	6.20	262.9	39.07	28.25	691.4
13-Sep 16:00	2.07	269.5	35.91	29.15	583.3
13-Sep 16:30	3.69	206.8	41.52	28.11	402.2
13-Sep 17:00	5.51	230.0	40.46	27.93	428.0
13-Sep 17:30	4.16	233.7	40.60	27.71	325.2
13-Sep 18:00	1.99	222.3	40.90	27.29	217.8
13-Sep 18:30	2.83	212.1	45.00	26.37	111.2
13-Sep 19:00	1.36	147.8	56.52	24.57	9.3
13-Sep 19:30	1.93	78.2	68.97	22.53	0.2
13-Sep 20:00	3.48	56.0	68.09	21.80	0.0

13-Sep 20:30	1.56	66.5	71.89	21.68	0.0
13-Sep 21:00	7.69	19.7	71.55	21.18	0.0
13-Sep 21:30	17.16	330.1	77.92	20.16	0.0
13-Sep 22:00	3.11	352.5	86.56	19.36	0.0
13-Sep 22:30	3.46	343.5	105.86	17.18	0.0
13-Sep 23:00	7.27	351.7	105.16	16.97	-0.1
13-Sep 23:30	8.19	348.9	103.60	16.22	-0.1
14-Sep 0:00	14.52	333.8	97.31	15.91	0.0
14-Sep 0:30	3.44	340.8	92.01	15.30	0.0
14-Sep 1:00	8.63	41.5	78.62	14.78	0.0
14-Sep 1:30	8.38	25.9	77.09	14.36	0.0
14-Sep 2:00	4.25	353.8	82.57	14.25	-0.1
14-Sep 2:30	8.50	42.7	102.12	12.87	-0.2
14-Sep 3:00	7.92	357.1	98.50	13.01	-0.1
14-Sep 3:30	2.87	318.3	97.68	13.07	-0.2
14-Sep 4:00	4.36	333.3	94.90	13.07	-0.2
14-Sep 4:30	3.26	8.1	93.72	13.10	-0.1
14-Sep 5:00	7.45	333.7	95.01	12.92	-0.1
14-Sep 5:30	8.25	302.6	94.79	12.54	-0.2
14-Sep 6:00	9.66	330.9	93.69	12.45	-0.1
14-Sep 6:30	7.22	312.2	91.72	12.48	0.0
14-Sep 7:00	6.22	327.4	93.24	12.11	2.9
14-Sep 7:30	7.33	6.4	91.42	11.90	5.5
14-Sep 8:00	4.72	27.0	95.85	11.38	12.9
14-Sep 8:30	8.04	325.8	96.07	11.26	24.1
14-Sep 9:00	9.81	341.5	91.58	11.50	32.2
14-Sep 9:30	5.46	357.5	90.96	11.81	80.1
14-Sep 10:00	6.56	319.6	90.43	11.99	96.3
14-Sep 10:30	2.24	317.5	91.61	12.83	132.1
14-Sep 11:00	6.37	313.2	84.82	13.37	176.9
14-Sep 11:30	11.99	319.9	75.74	13.56	281.2
14-Sep 12:00	14.41	328.3	65.52	15.33	1200.4
14-Sep 12:30	14.72	336.5	64.83	14.99	435.0
14-Sep 13:00	8.69	330.0	62.37	15.53	634.9
14-Sep 13:30	13.62	318.2	49.93	16.89	1161.8
14-Sep 14:00	9.02	323.3	52.03	16.59	979.0
14-Sep 14:30	14.22	317.6	52.93	16.61	328.9
14-Sep 15:00	13.13	306.6	52.39	16.01	197.6
14-Sep 15:30	15.11	306.9	47.62	16.43	929.2
14-Sep 16:00	11.78	316.3	46.29	17.24	683.7
14-Sep 16:30	4.92	271.7	43.22	18.27	603.4
14-Sep 17:00	15.07	316.3	42.29	17.50	509.3
14-Sep 17:30	5.24	314.9	45.11	17.85	343.4
14-Sep 18:00	8.13	318.6	49.62	16.09	49.9
14-Sep 18:30	9.25	328.5	47.38	16.56	91.8
14-Sep 19:00	7.88	329.4	52.65	15.34	16.3
14-Sep 19:30	5.82	316.7	59.45	14.26	0.1
14-Sep 20:00	4.85	313.1	62.46	13.40	-0.1
14-Sep 20:30	7.09	315.8	60.92	12.95	-0.1
14-Sep 21:00	9.38	307.2	62.27	12.50	-0.1

14-Sep 21:30	10.43	313.7	64.23	11.91	-0.1
14-Sep 22:00	1.64	289.7	67.74	11.30	-0.1
14-Sep 22:30	5.74	1.0	66.96	11.91	-0.1
14-Sep 23:00	7.92	58.8	68.47	12.20	-0.1
14-Sep 23:30	5.74	48.2	66.08	12.01	-0.1
15-Sep 0:00	5.30	350.1	69.01	11.47	-0.1
15-Sep 0:30	4.53	5.4	71.99	11.50	-0.1
15-Sep 1:00	2.71	346.1	71.81	10.84	-0.1
15-Sep 1:30	1.39	64.5	74.61	10.45	-0.2
15-Sep 2:00	5.36	45.6	74.41	10.23	-0.2
15-Sep 2:30	10.57	359.5	76.79	9.79	-0.1
15-Sep 3:00	5.95	328.5	80.02	9.76	-0.2
15-Sep 3:30	6.32	48.3	77.65	9.78	-0.2
15-Sep 4:00	7.38	48.8	79.00	9.72	-0.2
15-Sep 4:30	7.70	17.4	77.88	9.93	-0.2
15-Sep 5:00	7.09	13.8	76.40	9.60	-0.2
15-Sep 5:30	4.77	6.9	78.16	9.19	-0.2
15-Sep 6:00	0.00	0.0	89.60	7.61	-0.2
15-Sep 6:30	5.75	335.1	91.86	8.10	1.3
15-Sep 7:00	3.36	175.3	88.74	7.81	11.9
15-Sep 7:30	1.54	212.8	90.20	7.21	71.5
15-Sep 8:00	4.41	181.5	93.28	6.90	175.5
15-Sep 8:30	3.50	227.9	84.85	9.11	254.5
15-Sep 9:00	3.40	169.7	78.86	10.76	372.2
15-Sep 9:30	1.97	159.7	67.02	13.24	475.2
15-Sep 10:00	1.99	350.0	54.48	16.21	574.4
15-Sep 10:30	14.57	329.0	47.30	15.58	692.8
15-Sep 11:00	12.13	343.4	48.94	16.18	788.8
15-Sep 11:30	3.78	44.7	45.25	17.29	824.8
15-Sep 12:00	12.69	332.6	41.04	17.42	862.0
15-Sep 12:30	2.26	263.0	39.82	18.02	896.6
15-Sep 13:00	9.97	304.6	41.59	18.05	885.7
15-Sep 13:30	5.70	333.9	42.66	18.04	921.2
15-Sep 14:00	2.05	64.1	37.95	19.98	900.6
15-Sep 14:30	5.97	299.0	42.30	19.52	882.4
15-Sep 15:00	8.10	277.2	41.23	19.89	817.6
15-Sep 15:30	1.62	314.9	37.96	20.56	756.4
15-Sep 16:00	3.92	40.3	37.82	20.20	666.5
15-Sep 16:30	3.83	295.2	39.07	20.29	565.2
15-Sep 17:00	2.90	12.4	38.77	20.38	465.3
15-Sep 17:30	10.47	316.9	42.83	19.45	350.7
15-Sep 18:00	4.94	300.8	42.86	19.41	239.4
15-Sep 18:30	3.49	290.1	45.61	19.02	130.8
15-Sep 19:00	1.17	250.2	56.01	16.72	9.6
15-Sep 19:30	0.00	0.0	61.54	15.32	0.1
15-Sep 20:00	1.72	53.1	69.07	14.69	-0.1
15-Sep 20:30	0.00	0.0	74.16	14.17	-0.1
15-Sep 21:00	0.39	123.2	74.91	13.64	-0.1
15-Sep 21:30	2.54	165.7	78.51	12.66	-0.1
15-Sep 22:00	2.32	51.2	79.35	12.90	0.0

15-Sep 22:30	3.74	174.9	90.34	10.74	-0.1
15-Sep 23:00	1.79	190.5	84.85	11.27	-0.1
15-Sep 23:30	3.08	200.5	97.33	9.22	-0.2
16-Sep 0:00	3.86	234.8	99.15	8.89	-0.2
16-Sep 0:30	2.32	221.8	101.99	7.89	-0.2
16-Sep 1:00	2.04	192.2	105.57	7.44	-0.2
16-Sep 1:30	3.28	193.1	104.48	7.87	-0.2
16-Sep 2:00	0.00	0.0	107.08	6.82	-0.2
16-Sep 2:30	2.71	231.7	104.76	6.95	-0.2
16-Sep 3:00	1.44	224.9	104.61	7.59	-0.2
16-Sep 3:30	3.14	203.7	107.38	6.72	-0.2
16-Sep 4:00	2.86	213.7	106.66	6.61	-0.2
16-Sep 4:30	2.25	244.7	106.79	5.40	-0.2
16-Sep 5:00	2.69	228.2	108.52	5.94	-0.2
16-Sep 5:30	2.44	240.1	107.87	5.34	-0.2
16-Sep 6:00	3.25	228.4	107.83	6.04	-0.2
16-Sep 6:30	2.51	206.2	108.72	5.34	1.0
16-Sep 7:00	1.09	134.0	109.09	6.53	13.1
16-Sep 7:30	3.25	225.2	105.47	5.42	73.6
16-Sep 8:00	3.04	210.0	102.65	6.30	186.7
16-Sep 8:30	1.89	166.8	94.35	8.18	272.8
16-Sep 9:00	0.00	0.0	83.13	10.75	365.5
16-Sep 9:30	1.59	161.4	75.00	12.35	468.0
16-Sep 10:00	0.00	0.0	59.53	16.82	567.9
16-Sep 10:30	0.00	0.0	51.29	18.47	657.5
16-Sep 11:00	2.45	63.5	54.60	18.03	735.5
16-Sep 11:30	1.94	68.2	39.36	20.56	803.7
16-Sep 12:00	3.18	83.4	33.87	19.80	857.0
16-Sep 12:30	0.00	0.0	37.43	21.11	890.6
16-Sep 13:00	3.39	88.1	43.10	20.19	904.2
16-Sep 13:30	0.00	0.0	36.68	22.61	904.5
16-Sep 14:00	3.45	83.5	40.22	21.24	888.4
16-Sep 14:30	2.35	56.7	37.20	22.45	855.6
16-Sep 15:00	2.38	69.9	37.43	22.60	798.2
16-Sep 15:30	3.27	84.7	38.62	21.98	733.7
16-Sep 16:00	4.46	60.5	39.06	22.68	649.9
16-Sep 16:30	0.00	0.0	34.69	23.49	556.8
16-Sep 17:00	3.50	123.5	37.72	23.20	453.8
16-Sep 17:30	2.05	258.8	41.73	23.01	346.9
16-Sep 18:00	2.20	276.0	41.31	22.10	235.1
16-Sep 18:30	2.24	199.3	43.37	21.21	123.3
16-Sep 19:00	0.33	238.2	48.30	19.35	8.3
16-Sep 19:30	1.78	182.3	55.39	17.89	0.1
16-Sep 20:00	5.60	343.3	65.88	16.50	-0.1
16-Sep 20:30	4.16	347.3	62.68	16.83	-0.1
16-Sep 21:00	1.21	344.2	70.97	15.44	-0.1
16-Sep 21:30	2.91	187.5	77.87	14.14	-0.1
16-Sep 22:00	3.08	210.3	80.09	13.05	-0.1
16-Sep 22:30	1.26	227.8	79.84	12.90	0.0
16-Sep 23:00	1.73	209.4	91.09	11.24	0.0

16-Sep 23:30	0.61	169.9	90.25	11.40	-0.1
17-Sep 0:00	2.60	233.4	94.79	10.67	-0.2
17-Sep 0:30	2.43	247.1	96.02	10.34	-0.2
17-Sep 1:00	2.67	182.4	103.66	8.81	-0.2
17-Sep 1:30	2.41	198.5	98.52	10.14	-0.1
17-Sep 2:00	3.10	225.3	104.40	8.07	-0.2
17-Sep 2:30	2.58	214.0	107.23	8.25	-0.2
17-Sep 3:00	2.04	219.5	106.92	7.93	-0.2
17-Sep 3:30	2.45	220.6	107.63	7.83	-0.2
17-Sep 4:00	0.00	0.0	108.22	7.98	-0.2
17-Sep 4:30	0.00	0.0	107.98	8.85	-0.2
17-Sep 5:00	2.98	57.6	109.10	10.15	-0.2
17-Sep 5:30	4.45	202.9	108.52	6.59	-0.2
17-Sep 6:00	0.00	0.0	108.60	7.42	-0.1
17-Sep 6:30	2.87	179.4	109.14	6.93	0.3
17-Sep 7:00	1.91	186.2	109.44	6.64	10.1
17-Sep 7:30	3.15	207.6	109.56	6.64	31.0
17-Sep 8:00	0.95	240.1	109.39	7.63	178.8
17-Sep 8:30	2.64	162.1	99.54	8.97	266.0
17-Sep 9:00	0.56	155.0	90.78	11.41	358.8
17-Sep 9:30	0.87	163.5	81.45	13.36	455.7
17-Sep 10:00	2.28	147.3	75.32	14.92	552.1
17-Sep 10:30	1.48	60.1	72.15	17.31	643.0
17-Sep 11:00	0.00	0.0	58.52	19.54	724.3
17-Sep 11:30	2.12	74.2	56.24	20.44	793.7
17-Sep 12:00	1.82	111.5	40.89	21.78	842.9
17-Sep 12:30	4.10	127.2	44.97	21.65	880.9
17-Sep 13:00	3.44	76.6	42.75	21.94	896.4
17-Sep 13:30	2.67	83.7	41.64	22.80	894.4
17-Sep 14:00	2.77	18.3	39.72	23.33	885.0
17-Sep 14:30	5.39	133.0	39.39	23.28	857.9
17-Sep 15:00	2.59	71.1	36.61	23.95	794.4
17-Sep 15:30	0.61	50.2	31.72	24.46	708.9
17-Sep 16:00	2.01	50.2	33.07	24.32	648.5
17-Sep 16:30	0.99	12.2	31.99	25.74	563.4
17-Sep 17:00	3.57	319.5	33.09	25.34	448.9
17-Sep 17:30	0.00	0.0	35.87	25.01	337.6
17-Sep 18:00	1.89	261.4	35.73	24.66	227.5
17-Sep 18:30	3.11	284.7	43.61	23.49	121.4
17-Sep 19:00	1.53	224.2	55.81	20.42	4.8
17-Sep 19:30	0.00	0.0	73.03	18.52	0.0
17-Sep 20:00	1.06	109.1	74.74	17.28	0.0
17-Sep 20:30	0.13	317.2	84.48	16.04	-0.1
17-Sep 21:00	0.00	0.0	80.38	15.17	0.0
17-Sep 21:30	0.12	254.1	85.57	14.23	0.0
17-Sep 22:00	2.06	273.8	86.58	13.71	0.0
17-Sep 22:30	0.88	218.7	89.10	13.00	-0.1
17-Sep 23:00	3.11	304.6	97.76	12.49	-0.1
17-Sep 23:30	2.83	310.6	97.38	12.40	-0.1
18-Sep 0:00	3.14	216.5	99.46	10.58	-0.2

18-Sep 0:30	1.49	208.4	99.69	11.42	-0.1
18-Sep 1:00	2.02	235.5	99.61	10.60	-0.1
18-Sep 1:30	2.67	236.4	98.96	10.29	-0.1
18-Sep 2:00	2.66	207.5	104.19	9.42	-0.1
18-Sep 2:30	2.79	188.7	104.65	9.34	-0.2
18-Sep 3:00	2.62	180.1	104.43	9.83	-0.2
18-Sep 3:30	2.23	249.4	103.87	9.82	-0.2
18-Sep 4:00	2.48	248.3	104.85	9.50	-0.2
18-Sep 4:30	0.66	200.8	106.50	9.52	-0.2
18-Sep 5:00	0.43	283.6	104.97	9.89	-0.2
18-Sep 5:30	3.42	202.5	106.01	8.58	-0.2
18-Sep 6:00	1.67	211.4	107.80	8.96	-0.2
18-Sep 6:30	2.34	259.3	105.90	8.96	0.7
18-Sep 7:00	3.52	194.3	106.09	8.68	11.3
18-Sep 7:30	2.81	52.4	106.55	10.43	37.9
18-Sep 8:00	2.05	329.5	100.24	11.19	108.3
18-Sep 8:30	3.32	180.0	103.63	10.05	156.3
18-Sep 9:00	0.00	0.0	83.27	14.83	358.4
18-Sep 9:30	0.00	0.0	65.67	18.05	447.8
18-Sep 10:00	0.00	0.0	64.82	18.26	562.5
18-Sep 10:30	2.07	66.8	69.44	18.29	450.6
18-Sep 11:00	1.20	91.9	61.55	19.68	653.5
18-Sep 11:30	0.00	0.0	64.72	21.10	315.4
18-Sep 12:00	2.90	160.1	69.51	20.74	164.8
18-Sep 12:30	3.64	247.5	66.55	20.81	345.1
18-Sep 13:00	3.33	224.4	60.67	21.72	306.3
18-Sep 13:30	0.00	0.0	53.93	23.21	472.1
18-Sep 14:00	1.14	359.2	48.79	23.72	542.7
18-Sep 14:30	0.00	0.0	43.61	25.22	376.1
18-Sep 15:00	2.26	195.4	48.13	23.89	340.3
18-Sep 15:30	1.89	193.8	49.44	23.71	299.8
18-Sep 16:00	1.90	139.7	46.18	24.22	542.0
18-Sep 16:30	3.25	176.7	49.42	23.40	192.6
18-Sep 17:00	2.54	133.7	56.34	23.13	166.0
18-Sep 17:30	1.92	179.7	56.03	23.06	120.2
18-Sep 18:00	2.89	110.6	66.36	21.94	89.1
18-Sep 18:30	0.00	0.0	71.56	21.24	64.4
18-Sep 19:00	2.04	178.5	75.33	19.82	5.8
18-Sep 19:30	0.98	314.7	83.18	18.74	0.0
18-Sep 20:00	2.57	50.1	92.45	18.49	-0.1
18-Sep 20:30	3.57	52.9	94.95	17.76	-0.1
18-Sep 21:00	2.03	342.9	94.56	16.78	-0.1
18-Sep 21:30	0.00	0.0	96.36	15.96	-0.2
18-Sep 22:00	0.57	272.5	95.75	15.48	-0.1
18-Sep 22:30	2.34	225.5	98.62	14.63	-0.1
18-Sep 23:00	0.72	316.3	97.28	14.42	-0.1
18-Sep 23:30	0.00	0.0	104.57	14.47	-0.1
19-Sep 0:00	2.62	329.0	103.30	14.37	-0.1
19-Sep 0:30	3.45	229.5	105.38	12.60	-0.2
19-Sep 1:00	0.00	0.0	104.72	12.89	-0.1

19-Sep 1:30	0.00	0.0	106.65	13.27	-0.2
19-Sep 2:00	3.95	28.1	107.27	13.28	-0.2
19-Sep 2:30	3.76	22.1	105.91	13.32	-0.1
19-Sep 3:00	2.96	17.1	107.28	13.24	-0.1
19-Sep 3:30	1.52	22.0	107.30	13.22	-0.1
19-Sep 4:00	3.28	15.0	107.59	12.81	-0.1
19-Sep 4:30	4.26	24.0	108.54	12.65	-0.1
19-Sep 5:00	2.73	33.9	109.20	12.57	-0.2
19-Sep 5:30	3.75	34.1	108.94	12.37	-0.1
19-Sep 6:00	3.83	34.4	107.79	12.19	-0.1
19-Sep 6:30	4.70	25.4	108.62	12.00	0.3
19-Sep 7:00	3.56	9.4	108.17	11.69	11.4
19-Sep 7:30	2.52	42.0	106.95	11.90	39.9
19-Sep 8:00	3.14	31.5	104.38	12.37	109.6
19-Sep 8:30	5.38	43.1	95.63	13.75	233.8
19-Sep 9:00	5.85	47.7	90.99	14.69	326.6
19-Sep 9:30	6.05	44.3	88.29	15.58	416.0
19-Sep 10:00	3.89	38.1	79.15	16.90	506.4
19-Sep 10:30	5.30	42.1	76.93	18.09	525.5
19-Sep 11:00	4.68	49.8	72.70	19.77	656.9
19-Sep 11:30	3.85	44.8	64.58	21.62	627.7
19-Sep 12:00	9.17	108.3	52.38	22.68	788.9
19-Sep 12:30	1.58	75.5	48.97	23.72	819.0
19-Sep 13:00	1.79	125.8	44.73	24.57	878.7
19-Sep 13:30	1.90	67.2	47.85	24.70	335.5
19-Sep 14:00	7.26	159.7	44.79	24.69	882.7
19-Sep 14:30	4.98	48.5	43.25	24.90	948.6
19-Sep 15:00	4.77	120.9	44.36	24.33	352.8
19-Sep 15:30	9.75	134.0	43.75	24.20	413.8
19-Sep 16:00	2.95	59.9	43.35	24.91	491.3
19-Sep 16:30	3.72	54.5	44.90	24.12	170.9
19-Sep 17:00	4.59	71.3	46.66	24.23	219.2
19-Sep 17:30	6.49	57.1	48.30	23.49	97.1
19-Sep 18:00	3.72	50.1	51.15	23.02	62.7
19-Sep 18:30	6.84	68.2	50.94	22.83	45.0
19-Sep 19:00	6.16	63.3	52.95	22.30	1.5
19-Sep 19:30	4.33	39.9	59.16	21.75	-0.2
19-Sep 20:00	5.69	47.9	63.21	21.23	-0.2
19-Sep 20:30	5.03	47.2	64.60	20.71	-0.1
19-Sep 21:00	4.46	40.2	66.48	20.26	-0.1
19-Sep 21:30	2.75	325.2	67.57	20.09	-0.1
19-Sep 22:00	8.03	131.2	69.02	19.75	-0.1
19-Sep 22:30	4.87	141.9	72.53	19.42	-0.1
19-Sep 23:00	5.39	127.0	76.98	19.06	-0.1
19-Sep 23:30	4.68	114.2	80.50	18.86	-0.1
20-Sep 0:00	7.67	68.3	85.29	18.75	-0.1
20-Sep 0:30	3.42	69.8	89.08	18.46	-0.1
20-Sep 1:00	4.84	147.2	89.98	18.28	-0.1
20-Sep 1:30	4.83	51.2	91.65	18.20	-0.2
20-Sep 2:00	6.48	61.7	92.74	18.24	-0.2

20-Sep 2:30	6.77	132.2	94.05	18.11	-0.1
20-Sep 3:00	2.13	63.5	94.38	18.31	-0.1
20-Sep 3:30	3.23	145.1	95.08	18.14	-0.1
20-Sep 4:00	4.18	168.5	93.66	18.64	0.0
20-Sep 4:30	2.16	79.5	95.61	18.52	-0.1
20-Sep 5:00	2.24	250.7	100.32	18.14	-0.1
20-Sep 5:30	2.93	132.8	100.83	18.34	-0.1
20-Sep 6:00	6.31	98.3	105.89	17.76	-0.1
20-Sep 6:30	6.47	154.6	106.80	17.80	-0.1
20-Sep 7:00	4.90	87.9	107.76	17.63	3.4
20-Sep 7:30	4.08	111.2	107.99	17.59	9.9
20-Sep 8:00	5.51	75.6	108.52	17.66	9.5
20-Sep 8:30	0.85	89.6	108.71	17.81	10.9
20-Sep 9:00	4.95	155.3	108.22	17.95	24.3
20-Sep 9:30	2.28	131.7	108.48	18.04	23.4
20-Sep 10:00	2.54	170.8	108.79	18.11	31.3
20-Sep 10:30	4.84	101.7	109.01	18.23	50.2
20-Sep 11:00	6.00	139.4	108.87	18.11	50.5
20-Sep 11:30	2.02	170.2	107.95	18.62	182.9
20-Sep 12:00	3.16	110.6	106.34	18.81	85.5
20-Sep 12:30	1.54	99.6	107.25	18.35	54.5
20-Sep 13:00	4.13	145.5	107.86	18.18	43.8
20-Sep 13:30	5.79	125.2	106.88	18.55	31.9
20-Sep 14:00	7.07	146.3	106.79	18.53	24.9
20-Sep 14:30	2.90	167.0	108.28	18.39	38.9
20-Sep 15:00	10.57	180.2	107.93	18.38	50.3
20-Sep 15:30	2.94	147.0	107.70	18.26	37.5
20-Sep 16:00	4.87	222.7	109.06	18.18	17.7
20-Sep 16:30	4.04	159.1	109.00	18.27	16.8
20-Sep 17:00	1.39	200.6	109.22	18.31	62.5
20-Sep 17:30	4.59	190.9	108.87	18.43	55.5
20-Sep 18:00	2.04	208.3	108.84	18.60	34.3
20-Sep 18:30	1.51	161.0	109.29	18.62	6.9
20-Sep 19:00	0.57	124.0	108.77	18.74	0.8
20-Sep 19:30	4.24	118.4	107.46	18.84	-0.1
20-Sep 20:00	5.10	119.4	106.25	18.89	-0.1
20-Sep 20:30	2.44	103.2	105.52	18.83	-0.1
20-Sep 21:00	1.69	274.5	107.74	18.45	-0.2
20-Sep 21:30	0.39	133.5	108.68	18.25	-0.1
20-Sep 22:00	2.52	204.5	106.37	18.69	-0.1
20-Sep 22:30	0.00	0.0	109.06	18.24	-0.2
20-Sep 23:00	0.87	229.2	109.60	18.14	-0.2
20-Sep 23:30	3.88	332.3	109.63	18.11	-0.2
21-Sep 0:00	0.76	277.8	109.67	17.49	-0.2
21-Sep 0:30	0.95	220.7	109.75	17.32	-0.1
21-Sep 1:00	1.93	62.1	109.90	17.42	-0.1
21-Sep 1:30	2.47	45.8	109.89	17.64	-0.1
21-Sep 2:00	2.50	22.4	109.84	17.72	-0.1
21-Sep 2:30	3.94	16.9	109.85	17.60	-0.1
21-Sep 3:00	4.22	9.1	109.81	17.45	-0.1

21-Sep 3:30	0.00	0.0	109.76	17.71	-0.1
21-Sep 4:00	2.79	317.7	109.77	17.74	-0.1
21-Sep 4:30	0.00	0.0	109.85	17.52	-0.1
21-Sep 5:00	0.00	0.0	109.84	17.71	-0.1
21-Sep 5:30	0.08	187.3	109.87	17.53	-0.1
21-Sep 6:00	0.92	164.2	109.93	17.32	-0.1
21-Sep 6:30	2.19	201.6	109.98	17.15	0.0
21-Sep 7:00	1.89	155.6	110.07	16.92	2.6
21-Sep 7:30	3.62	122.8	110.12	16.77	42.8
21-Sep 8:00	0.07	217.2	110.12	16.84	52.6
21-Sep 8:30	2.31	227.1	110.08	16.77	163.4
21-Sep 9:00	4.24	224.8	109.45	16.73	254.5
21-Sep 9:30	1.42	148.8	108.01	18.04	429.1
21-Sep 10:00	2.69	137.2	96.38	19.30	508.2
21-Sep 10:30	2.02	90.0	92.97	19.91	573.0
21-Sep 11:00	2.54	95.5	83.98	20.82	654.2
21-Sep 11:30	0.30	91.4	72.72	23.05	734.6
21-Sep 12:00	3.06	109.4	65.81	22.65	805.2
21-Sep 12:30	1.71	134.5	55.71	23.78	698.2
21-Sep 13:00	2.34	46.7	51.33	24.18	710.6
21-Sep 13:30	1.14	212.8	51.55	24.28	220.7
21-Sep 14:00	3.91	289.2	46.43	25.88	879.5
21-Sep 14:30	0.08	155.9	46.67	24.99	197.6
21-Sep 15:00	5.49	142.2	44.14	26.02	665.9
21-Sep 15:30	4.79	234.0	44.28	26.21	669.8
21-Sep 16:00	5.10	175.3	44.57	25.85	582.5
21-Sep 16:30	8.45	180.4	44.85	25.27	495.8
21-Sep 17:00	1.43	159.9	52.02	24.83	197.3
21-Sep 17:30	3.49	178.1	52.97	24.20	126.7
21-Sep 18:00	3.31	189.3	54.61	24.29	174.2
21-Sep 18:30	3.93	137.6	59.90	23.06	53.2
21-Sep 19:00	0.11	336.3	75.91	21.43	3.5
21-Sep 19:30	2.00	79.7	83.95	19.44	-0.1
21-Sep 20:00	0.00	0.0	88.77	18.67	-0.2
21-Sep 20:30	0.00	0.0	99.09	17.86	-0.2
21-Sep 21:00	0.00	0.0	99.44	17.38	-0.1
21-Sep 21:30	1.89	42.7	102.47	16.82	-0.1
21-Sep 22:00	2.69	329.1	103.09	16.04	-0.1
21-Sep 22:30	2.24	293.0	103.95	15.59	-0.1
21-Sep 23:00	2.84	347.3	106.38	15.47	-0.2
21-Sep 23:30	1.89	57.6	106.73	15.59	-0.1
22-Sep 0:00	2.86	292.5	104.91	14.76	-0.1
22-Sep 0:30	1.39	322.7	106.53	14.76	-0.1
22-Sep 1:00	2.06	44.1	107.48	15.08	-0.1
22-Sep 1:30	2.43	24.1	106.95	14.96	-0.1
22-Sep 2:00	3.12	19.8	106.62	14.76	-0.1
22-Sep 2:30	2.78	38.4	107.08	14.81	-0.1
22-Sep 3:00	3.71	302.6	106.65	13.96	-0.1
22-Sep 3:30	2.15	224.0	107.86	13.68	-0.1
22-Sep 4:00	2.16	215.0	109.02	12.94	-0.1

22-Sep 4:30	2.45	228.3	109.25	12.83	-0.1
22-Sep 5:00	1.82	235.4	109.66	12.84	-0.1
22-Sep 5:30	1.03	189.0	109.82	12.79	-0.1
22-Sep 6:00	0.00	0.0	109.97	13.32	-0.1
22-Sep 6:30	4.08	186.6	109.99	12.88	0.0
22-Sep 7:00	2.52	226.3	110.00	13.15	6.0
22-Sep 7:30	0.00	0.0	109.91	13.51	33.1
22-Sep 8:00	2.33	28.1	108.47	14.42	73.7
22-Sep 8:30	0.70	287.1	106.04	15.45	42.0
22-Sep 9:00	1.23	36.5	104.04	16.18	101.9
22-Sep 9:30	0.00	0.0	98.94	17.51	256.1
22-Sep 10:00	2.25	212.8	86.85	20.33	445.8
22-Sep 10:30	4.83	151.1	82.32	21.30	578.2
22-Sep 11:00	1.71	127.2	73.09	22.53	636.2
22-Sep 11:30	3.06	165.9	64.86	23.83	727.3
22-Sep 12:00	6.70	209.7	61.58	23.53	204.0
22-Sep 12:30	8.14	233.0	58.46	24.40	474.3
22-Sep 13:00	3.90	237.5	55.34	25.15	897.9
22-Sep 13:30	2.80	157.7	53.42	25.35	563.5
22-Sep 14:00	2.86	272.2	55.58	24.49	308.8
22-Sep 14:30	6.73	238.4	53.31	24.80	330.1
22-Sep 15:00	5.33	272.3	49.13	25.76	750.4
22-Sep 15:30	8.42	248.2	48.22	24.88	643.7
22-Sep 16:00	4.40	277.1	50.09	25.04	624.4
22-Sep 16:30	6.45	308.9	47.66	25.49	461.1
22-Sep 17:00	2.96	302.6	51.42	24.86	293.9
22-Sep 17:30	3.36	255.5	53.26	24.44	248.5
22-Sep 18:00	3.84	255.8	59.65	22.59	58.4
22-Sep 18:30	2.54	280.8	61.57	22.12	39.6
22-Sep 19:00	1.59	293.0	67.89	21.05	1.9
22-Sep 19:30	1.80	327.2	83.01	20.35	-0.1
22-Sep 20:00	0.89	345.3	84.23	19.44	-0.1
22-Sep 20:30	0.00	0.0	87.83	18.58	-0.2
22-Sep 21:00	0.00	0.0	88.66	17.69	-0.2
22-Sep 21:30	0.80	177.8	90.65	16.72	-0.2
22-Sep 22:00	0.74	212.7	88.54	16.78	-0.2
22-Sep 22:30	2.20	212.7	95.96	15.34	-0.1
22-Sep 23:00	0.51	4.3	97.24	15.79	-0.1
22-Sep 23:30	1.24	351.0	96.56	16.17	-0.1
23-Sep 0:00	2.54	225.7	95.09	15.73	-0.1
23-Sep 0:30	0.34	216.6	92.10	16.04	-0.2
23-Sep 1:00	2.35	196.2	94.95	15.59	-0.2
23-Sep 1:30	4.50	346.8	85.88	16.58	-0.1
23-Sep 2:00	2.22	251.4	86.55	16.64	-0.1
23-Sep 2:30	3.09	202.6	96.17	15.51	-0.1
23-Sep 3:00	2.71	216.9	103.32	14.26	-0.2
23-Sep 3:30	0.00	0.0	101.98	14.71	-0.1
23-Sep 4:00	2.62	236.4	99.67	14.03	-0.1
23-Sep 4:30	1.39	242.7	101.66	14.14	-0.2
23-Sep 5:00	1.44	287.4	101.10	14.01	-0.1

23-Sep 5:30	3.14	284.0	100.61	13.51	-0.2
23-Sep 6:00	1.35	255.3	103.60	13.61	-0.2
23-Sep 6:30	2.41	189.0	107.72	12.01	0.1
23-Sep 7:00	2.01	196.5	108.84	12.26	10.8
23-Sep 7:30	2.40	253.1	108.33	12.26	32.6
23-Sep 8:00	2.52	216.4	105.86	12.42	143.2
23-Sep 8:30	2.07	231.5	98.69	14.03	226.7
23-Sep 9:00	2.38	156.4	93.77	15.05	309.9
23-Sep 9:30	1.74	96.4	80.94	17.96	408.6
23-Sep 10:00	0.00	0.0	68.37	20.69	502.4
23-Sep 10:30	2.23	94.7	71.96	19.91	586.2
23-Sep 11:00	1.34	67.6	62.36	22.34	660.1
23-Sep 11:30	0.00	0.0	45.44	24.79	725.0
23-Sep 12:00	2.99	36.1	50.47	24.27	788.6
23-Sep 12:30	2.51	68.2	52.47	23.96	827.4
23-Sep 13:00	2.60	73.0	47.75	24.53	839.9
23-Sep 13:30	1.78	49.7	46.20	25.64	830.9
23-Sep 14:00	2.52	43.0	41.91	25.74	828.9
23-Sep 14:30	3.67	310.6	37.33	26.26	798.2
23-Sep 15:00	1.64	157.5	37.30	26.52	736.3
23-Sep 15:30	5.22	229.2	40.43	26.23	678.5
23-Sep 16:00	2.54	134.7	45.85	24.78	196.3
23-Sep 16:30	4.53	193.2	43.68	25.57	485.4
23-Sep 17:00	2.47	230.3	46.66	24.69	124.5
23-Sep 17:30	1.94	134.4	48.91	25.15	257.6
23-Sep 18:00	2.06	113.2	52.98	24.72	145.9
23-Sep 18:30	0.00	0.0	65.11	22.83	23.5
23-Sep 19:00	0.00	0.0	71.88	20.95	2.2
23-Sep 19:30	2.42	357.7	88.84	19.41	-0.2
23-Sep 20:00	3.12	43.6	90.86	18.66	-0.1
23-Sep 20:30	3.23	47.1	93.62	18.07	-0.2
23-Sep 21:00	4.80	14.9	95.96	17.35	-0.2
23-Sep 21:30	3.49	4.4	98.63	16.70	-0.1
23-Sep 22:00	3.77	30.8	99.00	16.44	-0.1
23-Sep 22:30	4.64	34.0	99.54	16.10	-0.1
23-Sep 23:00	3.89	30.7	101.27	15.85	-0.1
23-Sep 23:30	3.93	31.6	100.13	15.57	-0.2
24-Sep 0:00	3.75	34.9	101.83	15.30	-0.2
24-Sep 0:30	3.00	33.5	103.15	15.23	-0.1
24-Sep 1:00	3.30	41.6	104.10	15.41	-0.1
24-Sep 1:30	2.42	49.3	103.41	15.59	-0.2
24-Sep 2:00	3.45	24.3	102.95	15.70	-0.2
24-Sep 2:30	2.64	5.8	102.79	16.02	-0.2
24-Sep 3:00	0.76	206.8	102.55	15.32	-0.1
24-Sep 3:30	2.14	45.0	104.06	16.78	-0.1
24-Sep 4:00	0.00	0.0	104.34	16.22	-0.1
24-Sep 4:30	0.00	0.0	104.64	15.99	-0.2
24-Sep 5:00	0.00	0.0	105.78	16.45	-0.1
24-Sep 5:30	3.45	32.0	103.73	17.46	-0.2
24-Sep 6:00	5.88	39.1	103.34	17.43	-0.1

24-Sep 6:30	7.67	37.1	102.86	17.56	0.0
24-Sep 7:00	5.20	37.5	103.39	17.55	4.8
24-Sep 7:30	6.13	23.7	103.34	17.32	5.8
24-Sep 8:00	6.46	36.7	103.32	17.62	13.3
24-Sep 8:30	3.71	48.9	104.08	17.80	16.6
24-Sep 9:00	4.64	23.5	104.47	18.33	22.0
24-Sep 9:30	5.95	30.2	107.60	18.19	30.9
24-Sep 10:00	3.78	21.5	107.62	18.30	71.1
24-Sep 10:30	4.31	28.1	106.94	18.70	64.5
24-Sep 11:00	5.12	33.1	104.56	19.26	76.5
24-Sep 11:30	3.30	64.1	102.73	19.52	65.5
24-Sep 12:00	5.88	78.6	101.76	19.71	90.3
24-Sep 12:30	6.78	52.3	100.58	19.90	74.6
24-Sep 13:00	4.27	48.3	99.61	20.09	74.7
24-Sep 13:30	6.80	53.7	100.40	20.23	43.2
24-Sep 14:00	4.80	72.6	98.37	20.90	99.1
24-Sep 14:30	7.84	98.2	90.67	22.22	218.3
24-Sep 15:00	3.99	109.1	88.18	22.93	129.1
24-Sep 15:30	1.70	132.9	79.93	24.10	182.8
24-Sep 16:00	8.38	111.5	68.02	24.54	170.0
24-Sep 16:30	1.70	87.5	67.47	24.31	114.9
24-Sep 17:00	4.13	108.7	70.37	24.09	73.9
24-Sep 17:30	6.30	58.5	84.83	22.38	25.3
24-Sep 18:00	2.10	209.3	81.32	22.76	33.6
24-Sep 18:30	11.24	105.8	78.98	23.10	3.5
24-Sep 19:00	8.53	135.4	105.79	20.27	0.0
24-Sep 19:30	6.09	91.5	107.63	19.75	-0.1
24-Sep 20:00	5.96	71.2	106.75	19.51	-0.2
24-Sep 20:30	2.11	66.4	107.59	19.44	-0.2
24-Sep 21:00	8.28	50.9	108.36	19.02	-0.1
24-Sep 21:30	13.55	40.7	108.36	19.09	-0.2
24-Sep 22:00	4.62	68.9	107.76	19.49	-0.1
24-Sep 22:30	11.72	102.2	108.91	19.36	-0.2
24-Sep 23:00	9.22	133.2	109.54	19.53	-0.2
24-Sep 23:30	6.17	234.6	109.62	18.88	-0.2
25-Sep 0:00	3.09	184.0	109.69	17.93	-0.2
25-Sep 0:30	3.82	181.8	109.85	17.38	-0.2
25-Sep 1:00	4.22	192.5	109.87	17.08	-0.2
25-Sep 1:30	4.92	200.6	110.00	16.83	-0.2
25-Sep 2:00	2.82	196.2	110.04	16.63	-0.2
25-Sep 2:30	2.26	210.1	110.03	16.47	-0.2
25-Sep 3:00	2.02	225.6	109.98	16.27	-0.2
25-Sep 3:30	3.08	174.2	110.05	16.28	-0.2
25-Sep 4:00	1.32	184.4	110.10	16.12	-0.2
25-Sep 4:30	3.65	197.5	110.14	16.06	-0.2
25-Sep 5:00	2.81	156.8	110.18	16.02	-0.2
25-Sep 5:30	4.43	185.0	110.13	15.68	-0.2
25-Sep 6:00	3.67	177.5	109.84	15.15	-0.1
25-Sep 6:30	3.43	211.6	109.95	14.86	-0.1
25-Sep 7:00	1.51	124.7	110.12	14.84	2.4

25-Sep 7:30	3.40	100.7	110.11	14.88	19.6
25-Sep 8:00	2.83	224.2	109.97	14.94	33.2
25-Sep 8:30	5.76	206.6	109.82	15.00	26.1
25-Sep 9:00	4.28	176.9	109.85	15.14	20.6
25-Sep 9:30	2.54	160.7	109.83	15.38	109.9
25-Sep 10:00	3.09	210.8	108.36	15.59	156.9
25-Sep 10:30	2.40	180.9	106.08	16.28	165.0
25-Sep 11:00	3.67	189.3	102.88	16.38	212.4
25-Sep 11:30	5.71	188.1	93.87	17.18	241.7
25-Sep 12:00	2.41	255.7	95.13	17.24	219.6
25-Sep 12:30	6.12	177.3	93.29	17.33	272.1
25-Sep 13:00	5.50	210.1	92.55	17.39	181.8
25-Sep 13:30	3.27	151.6	98.71	15.94	53.3
25-Sep 14:00	5.06	219.2	98.45	15.00	60.6
25-Sep 14:30	6.03	219.1	97.36	14.13	89.3
25-Sep 15:00	4.96	218.7	95.12	14.22	81.1
25-Sep 15:30	9.04	245.5	89.95	14.03	64.9
25-Sep 16:00	5.41	199.8	89.47	13.77	70.5
25-Sep 16:30	5.14	231.4	86.50	14.20	149.8
25-Sep 17:00	7.09	239.4	75.20	15.15	418.2
25-Sep 17:30	6.24	215.0	76.20	15.25	279.2
25-Sep 18:00	5.52	219.2	77.32	14.81	163.6
25-Sep 18:30	3.01	210.1	79.85	14.20	23.0
25-Sep 19:00	0.00	0.0	97.02	12.47	1.7
25-Sep 19:30	0.00	0.0	98.46	11.58	-0.2
25-Sep 20:00	1.54	256.9	105.04	10.90	-0.2
25-Sep 20:30	1.81	239.9	103.87	10.75	-0.1
25-Sep 21:00	0.00	0.0	104.83	10.35	-0.1
25-Sep 21:30	5.02	197.8	94.90	10.68	-0.1
25-Sep 22:00	7.55	198.3	80.20	10.75	0.0
25-Sep 22:30	5.98	205.3	72.94	10.48	0.0
25-Sep 23:00	7.50	197.9	73.30	10.05	0.0
25-Sep 23:30	4.94	181.4	77.24	9.49	-0.2
26-Sep 0:00	4.54	201.1	79.38	9.09	-0.1
26-Sep 0:30	4.57	199.7	81.78	8.53	-0.2
26-Sep 1:00	1.29	171.8	88.85	7.89	-0.2
26-Sep 1:30	3.56	178.9	86.39	7.86	-0.2
26-Sep 2:00	2.97	202.6	85.21	7.77	-0.2
26-Sep 2:30	1.72	196.3	96.23	6.35	-0.2
26-Sep 3:00	2.42	266.1	93.56	6.46	-0.2
26-Sep 3:30	0.00	0.0	103.21	5.25	-0.2
26-Sep 4:00	1.92	275.3	99.90	5.44	-0.2
26-Sep 4:30	1.54	232.0	100.12	5.36	-0.2
26-Sep 5:00	0.61	233.4	108.73	3.92	-0.2
26-Sep 5:30	2.25	235.4	106.23	3.95	-0.2
26-Sep 6:00	0.63	196.9	106.92	4.13	-0.2
26-Sep 6:30	2.02	241.2	107.11	3.80	-0.1
26-Sep 7:00	1.61	215.7	109.70	3.18	7.5
26-Sep 7:30	0.56	135.6	109.38	4.00	21.3
26-Sep 8:00	1.70	254.9	107.49	4.57	51.7

26-Sep 8:30	2.15	253.3	98.55	6.21	240.7
26-Sep 9:00	2.14	138.5	92.77	7.98	261.0
26-Sep 9:30	1.61	154.5	85.27	9.09	414.7
26-Sep 10:00	3.00	209.2	77.37	10.92	506.3
26-Sep 10:30	5.37	204.5	73.90	11.27	254.5
26-Sep 11:00	7.45	195.7	71.71	11.18	194.3
26-Sep 11:30	9.07	241.7	63.42	13.03	745.2
26-Sep 12:00	2.34	159.4	56.49	14.28	957.2
26-Sep 12:30	7.64	207.3	58.76	13.55	395.4
26-Sep 13:00	8.19	190.9	56.22	14.06	834.0
26-Sep 13:30	9.98	205.4	55.18	14.33	442.6
26-Sep 14:00	3.68	191.7	52.16	14.78	308.2
26-Sep 14:30	2.82	278.4	50.72	15.07	800.4
26-Sep 15:00	3.42	204.8	47.33	15.67	730.1
26-Sep 15:30	9.22	165.5	44.74	16.85	831.6
26-Sep 16:00	6.45	205.8	47.68	15.85	728.6
26-Sep 16:30	2.59	189.3	53.45	15.05	275.9
26-Sep 17:00	5.06	175.0	51.84	14.90	91.9
26-Sep 17:30	3.54	166.7	55.46	14.61	77.1
26-Sep 18:00	3.35	157.6	59.38	14.28	28.1
26-Sep 18:30	2.76	172.9	60.77	13.80	7.3
26-Sep 19:00	1.43	227.5	66.98	12.96	0.8
26-Sep 19:30	0.00	0.0	70.55	12.45	-0.1
26-Sep 20:00	0.00	0.0	77.33	12.00	-0.1
26-Sep 20:30	0.00	0.0	75.69	12.53	-0.1
26-Sep 21:00	1.22	227.3	88.98	11.05	-0.2
26-Sep 21:30	1.12	237.0	92.23	10.88	-0.2
26-Sep 22:00	2.04	171.9	97.14	10.74	-0.2
26-Sep 22:30	2.62	164.9	92.50	11.06	-0.2
26-Sep 23:00	1.55	199.6	91.66	11.11	-0.1
26-Sep 23:30	0.00	0.0	92.24	10.62	-0.2
27-Sep 0:00	2.41	290.9	94.75	9.88	-0.1
27-Sep 0:30	2.53	261.3	93.92	9.75	-0.2
27-Sep 1:00	1.80	265.5	92.65	9.62	-0.2
27-Sep 1:30	1.57	162.7	94.30	9.22	-0.2
27-Sep 2:00	2.11	199.9	102.35	7.89	-0.2
27-Sep 2:30	0.84	293.1	100.33	7.84	-0.2
27-Sep 3:00	2.67	218.0	103.71	7.44	-0.2
27-Sep 3:30	0.00	0.0	104.75	7.49	-0.2
27-Sep 4:00	3.03	259.8	103.82	7.43	-0.2
27-Sep 4:30	2.00	253.4	107.07	7.66	-0.2
27-Sep 5:00	1.39	46.0	106.94	9.08	-0.2
27-Sep 5:30	0.00	0.0	105.81	9.04	-0.2
27-Sep 6:00	2.75	34.7	101.62	9.02	-0.2
27-Sep 6:30	2.21	186.8	104.59	7.87	-0.2
27-Sep 7:00	2.42	236.7	106.65	7.58	2.0
27-Sep 7:30	1.95	209.2	103.07	7.78	16.9
27-Sep 8:00	1.72	208.2	105.34	7.91	26.5
27-Sep 8:30	2.68	219.9	103.23	8.22	42.0
27-Sep 9:00	0.00	0.0	100.96	9.13	126.5

27-Sep 9:30	2.05	237.9	81.24	11.72	445.2
27-Sep 10:00	3.80	198.5	68.91	13.99	565.9
27-Sep 10:30	4.10	238.7	63.66	14.49	527.4
27-Sep 11:00	8.02	211.2	61.65	14.93	447.5
27-Sep 11:30	8.19	202.4	57.45	14.84	319.4
27-Sep 12:00	8.18	212.7	55.43	15.80	424.9
27-Sep 12:30	6.34	232.9	55.44	15.38	1039.0
27-Sep 13:00	2.66	211.1	51.57	16.00	869.3
27-Sep 13:30	5.79	206.3	52.93	15.42	218.5
27-Sep 14:00	5.09	216.6	56.47	15.08	141.5
27-Sep 14:30	4.09	212.6	59.47	15.14	265.9
27-Sep 15:00	5.69	192.9	58.94	14.87	101.4
27-Sep 15:30	6.81	182.1	60.81	14.61	225.4
27-Sep 16:00	6.67	187.5	57.82	15.21	475.7
27-Sep 16:30	3.25	149.9	61.84	14.62	141.4
27-Sep 17:00	1.19	198.0	63.03	14.74	109.1
27-Sep 17:30	5.55	168.9	62.83	14.44	62.7
27-Sep 18:00	4.23	208.7	66.30	13.84	50.7
27-Sep 18:30	3.48	203.4	68.25	13.39	14.7
27-Sep 19:00	1.21	134.6	75.43	12.64	0.5
27-Sep 19:30	1.32	214.5	72.73	12.48	-0.1
27-Sep 20:00	0.44	273.9	75.16	12.13	-0.1
27-Sep 20:30	6.72	269.8	80.70	11.57	-0.1
27-Sep 21:00	5.04	265.6	76.47	11.29	-0.1
27-Sep 21:30	3.33	179.1	79.82	11.05	-0.1
27-Sep 22:00	3.77	240.3	79.73	10.72	-0.1
27-Sep 22:30	0.99	197.7	86.86	9.87	-0.1
27-Sep 23:00	2.41	216.1	87.46	9.39	-0.1
27-Sep 23:30	0.00	0.0	88.94	8.96	-0.2
28-Sep 0:00	2.79	284.7	89.79	8.94	-0.2
28-Sep 0:30	2.24	167.8	98.09	7.68	-0.2
28-Sep 1:00	2.71	158.8	96.81	7.76	-0.2
28-Sep 1:30	2.65	167.1	99.75	7.71	-0.2
28-Sep 2:00	1.57	167.3	105.02	7.48	-0.2
28-Sep 2:30	1.91	167.2	96.32	8.19	-0.2
28-Sep 3:00	0.81	177.8	104.24	7.37	-0.2
28-Sep 3:30	0.75	248.4	100.68	7.60	-0.2
28-Sep 4:00	0.93	111.5	106.08	7.55	-0.2
28-Sep 4:30	3.48	228.9	105.10	7.15	-0.2
28-Sep 5:00	1.13	193.3	108.27	6.79	-0.2
28-Sep 5:30	3.81	193.5	104.72	7.23	-0.2
28-Sep 6:00	2.99	182.0	105.93	6.98	-0.1
28-Sep 6:30	1.48	223.5	105.10	6.75	-0.1
28-Sep 7:00	0.00	0.0	104.05	6.96	3.3
28-Sep 7:30	3.27	199.6	103.45	7.18	17.5
28-Sep 8:00	3.31	201.5	101.49	7.66	60.7
28-Sep 8:30	4.00	224.1	97.57	8.61	90.3
28-Sep 9:00	3.63	288.4	84.95	10.44	129.7
28-Sep 9:30	10.11	301.0	80.42	10.72	194.7
28-Sep 10:00	8.07	307.2	78.34	11.22	167.9

28-Sep 10:30	7.39	280.6	76.82	11.54	125.2
28-Sep 11:00	4.30	287.6	73.79	11.84	187.1
28-Sep 11:30	2.13	298.4	73.02	12.50	250.7
28-Sep 12:00	4.61	302.4	70.20	12.65	158.0
28-Sep 12:30	10.52	310.6	63.12	13.39	250.0
28-Sep 13:00	7.50	292.3	68.84	13.39	131.5
28-Sep 13:30	10.56	318.7	62.46	14.55	978.3
28-Sep 14:00	14.05	314.3	58.55	15.51	269.3
28-Sep 14:30	11.50	282.4	57.03	15.64	811.8
28-Sep 15:00	14.17	320.8	55.56	15.94	744.3
28-Sep 15:30	15.05	302.1	56.64	16.18	664.1
28-Sep 16:00	14.54	290.4	56.24	15.85	727.7
28-Sep 16:30	9.37	307.1	61.36	15.54	463.0
28-Sep 17:00	10.13	302.7	63.95	14.45	120.9
28-Sep 17:30	5.25	287.1	69.37	13.98	74.6
28-Sep 18:00	11.93	313.1	67.60	14.19	51.8
28-Sep 18:30	5.74	22.8	68.78	12.85	15.7
28-Sep 19:00	5.11	309.5	74.05	12.25	0.4
28-Sep 19:30	4.06	322.5	80.00	11.85	-0.1
28-Sep 20:00	3.74	4.1	81.10	11.61	-0.2
28-Sep 20:30	4.52	24.9	77.86	12.00	-0.2
28-Sep 21:00	8.50	352.5	75.67	12.12	-0.1
28-Sep 21:30	3.47	319.5	79.52	11.74	-0.2
28-Sep 22:00	3.48	355.6	83.34	11.37	-0.1
28-Sep 22:30	1.05	304.8	83.29	11.32	-0.1
28-Sep 23:00	4.75	10.2	84.25	11.28	-0.1
28-Sep 23:30	1.68	332.3	87.77	10.92	-0.2
29-Sep 0:00	4.20	0.7	88.02	11.26	-0.1
29-Sep 0:30	2.14	42.5	89.32	11.25	-0.1
29-Sep 1:00	2.64	14.6	91.52	11.33	-0.1
29-Sep 1:30	7.04	312.8	88.57	11.16	-0.1
29-Sep 2:00	4.30	332.7	90.83	10.97	-0.1
29-Sep 2:30	5.10	349.0	90.09	11.16	-0.2
29-Sep 3:00	4.91	18.9	90.42	11.16	-0.1
29-Sep 3:30	4.17	349.4	92.03	11.25	-0.1
29-Sep 4:00	3.74	308.3	97.72	10.65	-0.2
29-Sep 4:30	5.34	336.5	94.74	10.75	-0.1
29-Sep 5:00	4.21	325.5	95.38	10.70	-0.2
29-Sep 5:30	2.03	23.1	94.49	10.94	-0.1
29-Sep 6:00	3.47	298.4	94.34	10.77	-0.1
29-Sep 6:30	4.14	339.4	94.34	10.45	-0.1
29-Sep 7:00	3.16	39.9	94.42	10.68	5.3
29-Sep 7:30	4.65	2.8	92.63	10.90	39.8
29-Sep 8:00	6.81	345.3	85.57	11.76	123.1
29-Sep 8:30	4.59	354.4	80.39	12.79	313.7
29-Sep 9:00	7.34	44.4	81.95	12.76	195.8
29-Sep 9:30	5.34	358.2	84.65	12.54	162.8
29-Sep 10:00	5.37	334.2	79.36	12.69	202.8
29-Sep 10:30	11.02	309.2	74.87	13.57	201.0
29-Sep 11:00	7.08	319.7	77.74	13.45	222.9

29-Sep 11:30	21.99	310.9	80.40	12.65	240.3
29-Sep 12:00	17.28	310.0	81.21	12.38	132.9
29-Sep 12:30	17.35	311.3	75.06	13.32	201.8
29-Sep 13:00	9.21	319.7	69.20	14.42	178.4
29-Sep 13:30	10.91	320.4	70.29	14.72	122.6
29-Sep 14:00	6.60	313.0	70.55	14.37	136.0
29-Sep 14:30	7.29	314.3	67.82	15.02	250.9
29-Sep 15:00	11.22	320.1	65.37	15.54	295.7
29-Sep 15:30	5.01	332.5	62.53	16.21	242.8
29-Sep 16:00	8.66	355.9	51.45	16.44	106.4
29-Sep 16:30	7.68	10.4	48.13	17.18	132.9
29-Sep 17:00	5.25	352.3	45.37	17.42	321.2
29-Sep 17:30	7.15	18.3	53.18	15.87	54.1
29-Sep 18:00	5.22	10.6	55.39	15.59	19.7
29-Sep 18:30	4.23	337.4	61.43	14.96	30.3
29-Sep 19:00	4.14	338.4	67.60	14.31	0.4
29-Sep 19:30	1.98	65.3	80.81	13.65	-0.2
29-Sep 20:00	6.78	13.6	66.33	13.09	-0.2
29-Sep 20:30	4.65	337.5	74.26	12.11	-0.2
29-Sep 21:00	4.73	20.5	69.64	11.79	-0.2
29-Sep 21:30	3.16	14.8	80.20	11.31	-0.2
29-Sep 22:00	2.04	12.3	87.16	10.67	-0.2
29-Sep 22:30	1.81	340.7	91.78	10.06	-0.2
29-Sep 23:00	0.78	314.6	93.97	9.64	-0.1
29-Sep 23:30	2.57	355.3	89.66	9.41	-0.1
30-Sep 0:00	4.44	26.7	96.44	9.29	-0.1
30-Sep 0:30	4.42	25.9	101.49	8.57	-0.2
30-Sep 1:00	6.19	14.6	96.83	8.63	-0.2
30-Sep 1:30	4.37	17.7	97.43	8.84	-0.1
30-Sep 2:00	3.63	179.1	101.31	6.67	-0.2
30-Sep 2:30	3.03	254.8	99.34	6.57	-0.2
30-Sep 3:00	3.49	314.9	80.71	8.61	-0.2
30-Sep 3:30	6.44	319.8	74.42	8.57	-0.1
30-Sep 4:00	5.72	310.2	75.02	8.49	-0.2
30-Sep 4:30	5.19	328.8	77.39	8.38	-0.1
30-Sep 5:00	2.88	59.3	83.79	8.02	-0.1
30-Sep 5:30	4.72	15.6	80.46	8.32	-0.1
30-Sep 6:00	5.91	40.2	77.82	7.93	-0.2
30-Sep 6:30	2.65	342.8	77.02	7.61	-0.1
30-Sep 7:00	1.71	303.4	74.08	7.38	4.6
30-Sep 7:30	0.00	0.0	79.62	7.06	28.4
30-Sep 8:00	9.13	333.3	68.19	8.87	116.8
30-Sep 8:30	7.41	324.9	66.85	9.83	225.0
30-Sep 9:00	10.78	336.7	60.08	10.96	320.2
30-Sep 9:30	10.27	31.1	52.70	12.02	359.1
30-Sep 10:00	10.08	32.1	54.38	11.62	165.6
30-Sep 10:30	12.05	3.9	48.29	12.10	695.2
30-Sep 11:00	8.91	357.2	48.46	13.20	588.8
30-Sep 11:30	11.77	41.0	50.65	12.97	406.2
30-Sep 12:00	12.72	28.5	50.66	13.04	364.6

30-Sep 12:30	11.76	39.0	50.90	13.57	502.8
30-Sep 13:00	7.94	52.7	49.08	14.00	597.1
30-Sep 13:30	6.01	14.8	47.81	14.29	446.4
30-Sep 14:00	6.53	15.5	47.79	14.18	334.4
30-Sep 14:30	10.21	38.7	49.86	14.57	339.3
30-Sep 15:00	8.64	48.4	44.30	14.58	335.7
30-Sep 15:30	6.83	3.4	44.11	14.70	195.0
30-Sep 16:00	4.12	1.5	42.54	14.91	153.7
30-Sep 16:30	3.08	53.9	47.15	14.69	117.1
30-Sep 17:00	1.43	24.4	54.30	14.63	104.0
30-Sep 17:30	1.73	128.8	68.81	13.68	41.7
30-Sep 18:00	1.88	113.3	70.29	13.12	24.6
30-Sep 18:30	0.50	97.7	68.09	12.76	5.8
30-Sep 19:00	2.22	2.4	75.92	12.39	0.2
30-Sep 19:30	2.06	244.1	74.66	11.54	-0.1
30-Sep 20:00	1.39	242.7	83.17	10.80	-0.2
30-Sep 20:30	2.50	215.5	87.68	10.10	-0.2
30-Sep 21:00	1.60	163.2	84.85	10.18	-0.2
30-Sep 21:30	2.99	221.6	89.83	10.15	-0.2
30-Sep 22:00	1.60	200.0	81.80	9.32	-0.1
30-Sep 22:30	0.00	0.0	72.16	10.97	-0.1
30-Sep 23:00	4.86	299.2	58.62	11.86	-0.1
30-Sep 23:30	7.66	325.9	53.11	12.54	-0.1
1-Oct 0:00	2.65	295.5	71.22	10.10	-0.1
1-Oct 0:30	4.61	340.1	59.82	11.52	-0.1
1-Oct 1:00	3.01	353.8	61.06	11.67	-0.2
1-Oct 1:30	2.66	345.9	61.98	11.78	-0.1
1-Oct 2:00	8.00	340.4	63.33	11.69	-0.1
1-Oct 2:30	6.41	348.7	65.10	11.67	-0.2
1-Oct 3:00	3.68	320.9	64.69	11.64	-0.1
1-Oct 3:30	6.73	322.9	58.85	11.95	-0.1
1-Oct 4:00	3.91	309.6	61.54	11.49	-0.2
1-Oct 4:30	6.69	313.3	60.64	11.32	-0.2
1-Oct 5:00	9.25	314.7	67.45	10.65	-0.1
1-Oct 5:30	1.41	242.3	73.70	10.18	-0.1
1-Oct 6:00	4.39	298.4	74.14	10.18	-0.1
1-Oct 6:30	8.97	318.5	77.40	10.08	-0.1
1-Oct 7:00	2.86	314.2	75.53	10.15	1.6
1-Oct 7:30	12.52	315.0	75.97	10.13	14.2
1-Oct 8:00	3.52	6.4	73.81	10.44	31.4
1-Oct 8:30	1.57	258.3	72.42	10.57	54.2
1-Oct 9:00	1.53	292.7	69.96	10.89	87.6
1-Oct 9:30	2.58	223.6	72.66	11.04	103.6
1-Oct 10:00	2.92	224.2	75.03	11.46	112.7
1-Oct 10:30	3.36	173.2	72.63	12.13	161.3
1-Oct 11:00	10.34	282.1	73.50	12.78	244.6
1-Oct 11:30	1.24	84.5	70.81	13.88	285.5
1-Oct 12:00	1.84	164.3	61.07	15.55	561.4
1-Oct 12:30	2.82	318.5	55.84	16.74	423.2
1-Oct 13:00	8.84	313.7	53.65	16.87	420.9

1-Oct 13:30	6.80	309.9	50.33	17.17	459.8
1-Oct 14:00	2.93	65.4	48.34	18.62	472.6
1-Oct 14:30	4.70	181.7	48.87	19.36	718.6
1-Oct 15:00	2.88	133.5	50.02	19.49	579.5
1-Oct 15:30	2.54	200.6	47.12	20.87	496.8
1-Oct 16:00	6.84	259.9	42.41	21.50	561.7
1-Oct 16:30	10.00	303.2	39.15	21.15	477.0
1-Oct 17:00	7.00	312.3	37.98	21.32	379.8
1-Oct 17:30	4.81	311.0	37.08	21.14	262.1
1-Oct 18:00	1.81	286.6	37.72	20.68	138.4
1-Oct 18:30	1.52	208.3	46.47	18.72	30.5
1-Oct 19:00	3.36	270.8	53.61	16.76	0.3
1-Oct 19:30	0.18	340.4	74.54	14.64	-0.1
1-Oct 20:00	0.00	0.0	82.47	13.65	-0.1
1-Oct 20:30	2.04	57.2	86.49	13.00	-0.1
1-Oct 21:00	1.82	281.5	93.57	12.32	-0.2
1-Oct 21:30	2.85	206.9	94.45	10.91	-0.1
1-Oct 22:00	1.69	204.3	95.88	10.17	-0.2
1-Oct 22:30	4.79	141.4	94.18	10.47	-0.2
1-Oct 23:00	3.90	182.1	99.31	9.46	-0.1
1-Oct 23:30	0.00	0.0	99.49	9.35	-0.2
2-Oct 0:00	1.92	296.6	102.73	8.62	-0.2
2-Oct 0:30	0.00	0.0	101.91	8.73	-0.2
2-Oct 1:00	1.15	187.3	102.62	8.77	-0.1
2-Oct 1:30	2.96	218.7	104.43	8.29	-0.2
2-Oct 2:00	2.32	206.7	104.27	8.35	-0.2
2-Oct 2:30	2.99	208.5	105.28	7.46	-0.2
2-Oct 3:00	2.46	213.7	106.87	7.50	-0.2
2-Oct 3:30	0.00	0.0	107.68	6.99	-0.2
2-Oct 4:00	1.03	228.0	107.80	7.35	-0.1
2-Oct 4:30	0.00	0.0	106.12	7.91	-0.2
2-Oct 5:00	2.38	252.4	107.15	7.45	-0.2
2-Oct 5:30	2.70	188.4	107.93	6.62	-0.2
2-Oct 6:00	2.70	212.4	107.14	6.57	-0.2
2-Oct 6:30	2.26	197.0	108.55	6.74	-0.1
2-Oct 7:00	3.70	227.2	108.02	6.35	4.6
2-Oct 7:30	2.60	172.4	108.49	5.75	21.3
2-Oct 8:00	3.09	177.7	107.65	6.24	98.7
2-Oct 8:30	2.21	203.6	104.78	7.62	213.2
2-Oct 9:00	1.89	147.7	97.63	9.54	279.0
2-Oct 9:30	2.24	243.8	86.92	13.66	367.4
2-Oct 10:00	0.00	0.0	74.08	16.67	463.8
2-Oct 10:30	2.44	148.2	72.00	17.05	540.3
2-Oct 11:00	3.65	143.4	66.65	18.54	623.1
2-Oct 11:30	9.57	193.8	60.64	20.35	692.6
2-Oct 12:00	2.19	71.3	56.51	20.92	751.4
2-Oct 12:30	3.54	282.2	53.30	21.33	475.8
2-Oct 13:00	16.74	311.0	46.92	22.34	814.0
2-Oct 13:30	8.36	265.1	44.51	22.83	824.3
2-Oct 14:00	8.13	295.1	43.76	23.44	793.3

2-Oct 14:30	9.54	281.9	42.98	23.30	751.9
2-Oct 15:00	6.49	251.5	41.62	23.81	696.8
2-Oct 15:30	9.10	295.7	42.83	23.94	621.5
2-Oct 16:00	2.80	259.0	42.37	24.49	539.9
2-Oct 16:30	5.64	299.4	44.33	24.29	439.6
2-Oct 17:00	5.78	261.3	46.86	23.96	322.4
2-Oct 17:30	5.03	210.9	51.68	23.28	209.5
2-Oct 18:00	3.97	227.7	54.95	22.59	105.5
2-Oct 18:30	1.45	168.2	67.32	20.69	11.0
2-Oct 19:00	0.61	288.5	74.43	19.17	0.2
2-Oct 19:30	1.82	156.1	78.27	18.29	-0.2
2-Oct 20:00	0.25	70.4	78.24	18.12	-0.1
2-Oct 20:30	0.00	0.0	89.84	16.56	-0.1
2-Oct 21:00	0.00	0.0	96.75	15.96	-0.1
2-Oct 21:30	0.66	52.8	100.08	15.36	-0.1
2-Oct 22:00	0.00	0.0	101.08	14.85	-0.1
2-Oct 22:30	0.00	0.0	103.35	14.63	-0.1
2-Oct 23:00	0.00	0.0	103.78	13.99	-0.1
2-Oct 23:30	0.35	271.7	104.05	13.75	-0.1
3-Oct 0:00	0.91	328.2	104.97	13.26	-0.1
3-Oct 0:30	0.00	0.0	107.04	12.97	-0.1
3-Oct 1:00	1.81	244.1	106.82	12.55	-0.1
3-Oct 1:30	1.89	220.5	106.61	12.31	-0.1
3-Oct 2:00	1.76	233.8	108.55	12.05	-0.2
3-Oct 2:30	1.73	209.8	109.07	11.44	-0.2
3-Oct 3:00	0.43	224.1	108.80	11.90	-0.2
3-Oct 3:30	2.53	236.2	107.92	11.58	-0.2
3-Oct 4:00	2.41	210.9	107.18	10.89	-0.2
3-Oct 4:30	1.61	243.2	109.21	11.31	-0.1
3-Oct 5:00	2.17	215.6	109.65	11.17	-0.1
3-Oct 5:30	0.98	187.3	109.74	10.23	-0.1
3-Oct 6:00	2.65	231.9	109.80	10.29	-0.1
3-Oct 6:30	2.94	205.0	109.77	9.58	-0.1
3-Oct 7:00	1.85	227.7	110.01	9.64	4.5
3-Oct 7:30	1.26	193.2	110.01	9.33	31.9
3-Oct 8:00	0.87	238.6	109.27	9.67	108.1
3-Oct 8:30	1.76	190.5	102.19	10.94	201.7
3-Oct 9:00	2.86	183.8	97.13	12.58	287.1
3-Oct 9:30	0.70	221.5	89.81	15.09	370.2
3-Oct 10:00	1.23	134.6	83.47	17.50	455.3
3-Oct 10:30	1.89	125.3	77.68	19.14	540.8
3-Oct 11:00	2.76	176.7	67.24	21.70	603.4
3-Oct 11:30	4.83	163.4	59.33	22.81	656.4
3-Oct 12:00	2.89	149.8	56.35	23.71	703.3
3-Oct 12:30	3.25	154.6	55.29	24.41	748.1
3-Oct 13:00	5.59	162.2	53.39	24.76	745.4
3-Oct 13:30	6.08	178.5	54.00	25.18	746.2
3-Oct 14:00	3.98	137.5	49.19	26.09	728.8
3-Oct 14:30	3.12	140.2	45.31	26.54	703.0
3-Oct 15:00	7.70	167.3	40.46	27.17	642.8

3-Oct 15:30	9.85	198.1	40.20	27.13	579.6
3-Oct 16:00	6.39	213.5	40.38	26.92	485.9
3-Oct 16:30	5.11	175.4	42.75	26.70	386.9
3-Oct 17:00	7.46	193.1	49.16	26.23	289.6
3-Oct 17:30	7.32	180.1	50.25	25.54	183.8
3-Oct 18:00	4.71	156.5	55.33	24.53	85.3
3-Oct 18:30	1.62	297.8	61.79	23.09	9.3
3-Oct 19:00	0.00	0.0	73.60	21.32	0.1
3-Oct 19:30	2.05	31.4	89.75	19.42	-0.1
3-Oct 20:00	2.45	7.6	91.43	18.42	-0.1
3-Oct 20:30	0.00	0.0	93.73	17.69	-0.1
3-Oct 21:00	1.20	44.4	95.77	17.28	-0.1
3-Oct 21:30	1.03	59.8	98.65	16.69	-0.1
3-Oct 22:00	0.72	11.1	100.45	16.29	-0.2
3-Oct 22:30	0.18	37.1	101.03	16.00	-0.2
3-Oct 23:00	0.00	0.0	102.19	15.72	-0.1
3-Oct 23:30	0.00	0.0	102.79	15.07	-0.1
4-Oct 0:00	0.00	0.0	102.84	14.73	-0.1
4-Oct 0:30	0.00	0.0	103.61	14.31	-0.1
4-Oct 1:00	0.00	0.0	103.48	14.10	-0.1
4-Oct 1:30	2.53	262.1	106.68	13.53	-0.1
4-Oct 2:00	0.71	222.0	106.99	13.08	-0.1
4-Oct 2:30	2.60	214.0	109.10	12.32	-0.2
4-Oct 3:00	1.63	234.8	109.27	12.39	-0.1
4-Oct 3:30	1.75	244.1	108.86	12.39	-0.1
4-Oct 4:00	2.42	210.2	109.09	11.67	-0.1
4-Oct 4:30	2.23	209.5	109.50	11.54	-0.1
4-Oct 5:00	2.17	220.3	109.51	9.83	-0.1
4-Oct 5:30	1.98	200.5	109.87	10.30	-0.2
4-Oct 6:00	0.00	0.0	109.98	10.27	-0.1
4-Oct 6:30	2.38	220.0	110.04	10.62	-0.1
4-Oct 7:00	2.93	222.6	109.96	10.02	4.1
4-Oct 7:30	0.42	232.9	110.14	10.41	32.5
4-Oct 8:00	0.00	0.0	110.06	10.85	66.5
4-Oct 8:30	2.06	207.4	109.44	10.65	134.2
4-Oct 9:00	0.00	0.0	92.21	13.96	290.7
4-Oct 9:30	0.00	0.0	85.08	15.94	375.0
4-Oct 10:00	2.68	147.8	84.70	16.61	465.7
4-Oct 10:30	2.52	145.3	77.43	18.68	554.0
4-Oct 11:00	4.75	192.7	61.32	21.83	629.4
4-Oct 11:30	9.55	185.6	47.83	23.33	694.8
4-Oct 12:00	7.09	184.1	45.84	23.81	739.6
4-Oct 12:30	4.94	136.2	42.57	25.03	773.1
4-Oct 13:00	5.56	136.4	42.20	25.16	782.9
4-Oct 13:30	5.42	212.9	40.70	25.63	784.2
4-Oct 14:00	7.89	203.2	35.89	26.23	760.1
4-Oct 14:30	5.64	217.5	37.54	26.70	717.9
4-Oct 15:00	9.31	208.8	39.31	26.36	662.1
4-Oct 15:30	3.82	139.9	40.57	26.19	535.6
4-Oct 16:00	6.37	192.8	41.03	26.08	508.0

4-Oct 16:30	11.00	179.2	41.37	25.55	401.8
4-Oct 17:00	5.53	168.5	42.12	25.39	299.4
4-Oct 17:30	3.80	194.2	43.78	25.03	187.6
4-Oct 18:00	4.88	150.7	47.12	23.89	79.5
4-Oct 18:30	4.41	165.0	48.89	22.78	7.8
4-Oct 19:00	0.00	0.0	61.67	20.86	0.0
4-Oct 19:30	3.20	292.3	72.39	19.07	-0.1
4-Oct 20:00	1.50	35.3	87.78	17.95	-0.1
4-Oct 20:30	2.94	32.8	91.22	16.99	-0.1
4-Oct 21:00	0.34	59.7	92.67	16.49	-0.1
4-Oct 21:30	0.00	0.0	93.50	15.92	-0.1
4-Oct 22:00	0.07	15.7	94.22	15.30	-0.2
4-Oct 22:30	0.24	247.1	96.63	14.62	-0.1
4-Oct 23:00	3.75	263.1	91.06	14.14	-0.1
4-Oct 23:30	1.49	189.6	103.44	12.34	-0.1
5-Oct 0:00	1.64	188.5	102.63	12.23	-0.2
5-Oct 0:30	0.91	224.5	103.03	12.02	-0.1
5-Oct 1:00	0.00	0.0	103.18	11.98	-0.1
5-Oct 1:30	1.90	231.9	104.48	12.12	-0.1
5-Oct 2:00	0.21	184.9	103.99	11.81	-0.1
5-Oct 2:30	0.00	0.0	105.08	11.87	-0.2
5-Oct 3:00	1.08	222.5	105.15	11.76	-0.2
5-Oct 3:30	0.99	188.2	105.78	11.43	-0.1
5-Oct 4:00	0.00	0.0	105.49	11.37	-0.1
5-Oct 4:30	0.00	0.0	106.73	11.19	-0.2
5-Oct 5:00	1.30	287.7	107.26	10.73	-0.2
5-Oct 5:30	0.00	0.0	108.81	10.52	-0.1
5-Oct 6:00	2.46	238.8	109.61	9.63	-0.2
5-Oct 6:30	3.04	234.0	109.98	9.69	-0.1
5-Oct 7:00	2.36	205.2	109.92	8.52	3.8
5-Oct 7:30	2.71	226.0	109.96	9.15	15.5
5-Oct 8:00	2.44	204.2	110.14	8.79	55.9
5-Oct 8:30	2.85	182.0	109.72	9.28	184.5
5-Oct 9:00	1.80	181.2	105.13	10.96	277.3
5-Oct 9:30	2.50	161.0	97.45	13.06	362.3
5-Oct 10:00	0.00	0.0	87.69	15.58	448.5
5-Oct 10:30	0.35	131.1	75.14	17.84	531.8
5-Oct 11:00	2.35	207.9	61.89	20.54	604.4
5-Oct 11:30	2.90	135.4	59.46	21.78	676.1
5-Oct 12:00	6.06	137.7	46.12	23.99	722.2
5-Oct 12:30	4.81	181.4	43.42	23.95	749.9
5-Oct 13:00	3.72	202.0	42.96	24.88	753.7
5-Oct 13:30	4.89	145.3	39.25	25.53	792.7
5-Oct 14:00	10.70	176.9	35.11	24.99	744.2
5-Oct 14:30	7.05	185.0	35.37	25.30	687.8
5-Oct 15:00	11.07	193.5	38.80	24.80	619.9
5-Oct 15:30	4.24	177.8	37.04	25.51	564.1
5-Oct 16:00	11.59	180.6	35.33	25.00	478.5
5-Oct 16:30	9.05	210.8	37.56	24.97	370.3
5-Oct 17:00	7.90	185.8	37.80	24.85	288.1

5-Oct 17:30	4.00	166.6	41.58	24.31	184.8
5-Oct 18:00	3.55	182.5	45.51	23.29	80.6
5-Oct 18:30	3.13	193.3	48.30	22.51	4.0
5-Oct 19:00	3.48	150.2	53.16	21.69	0.0
5-Oct 19:30	6.73	198.0	55.65	21.26	-0.1
5-Oct 20:00	9.36	163.2	58.02	20.73	-0.1
5-Oct 20:30	5.77	160.5	59.67	20.42	-0.1
5-Oct 21:00	1.54	226.6	66.81	18.94	-0.1
5-Oct 21:30	4.62	285.9	68.38	18.63	-0.1
5-Oct 22:00	8.06	155.2	64.77	19.35	-0.1
5-Oct 22:30	4.91	163.9	66.45	19.15	-0.1
5-Oct 23:00	6.75	221.3	68.63	19.10	0.0
5-Oct 23:30	2.83	189.1	72.60	18.67	-0.1
6-Oct 0:00	3.74	130.9	74.61	18.60	-0.1
6-Oct 0:30	1.60	146.9	78.14	17.95	-0.1
6-Oct 1:00	0.57	112.6	87.32	16.18	0.0
6-Oct 1:30	0.64	179.8	94.62	15.49	-0.1
6-Oct 2:00	2.22	109.1	87.38	16.62	-0.1
6-Oct 2:30	2.18	265.9	84.29	17.30	-0.1
6-Oct 3:00	7.68	183.2	83.13	18.04	-0.1
6-Oct 3:30	5.14	236.5	88.14	17.05	-0.1
6-Oct 4:00	4.49	246.1	86.21	17.71	-0.1
6-Oct 4:30	3.15	246.0	87.19	17.58	-0.1
6-Oct 5:00	3.77	154.8	88.54	17.50	-0.1
6-Oct 5:30	5.23	224.9	83.65	18.35	-0.1
6-Oct 6:00	2.82	189.1	82.83	18.56	-0.1
6-Oct 6:30	2.15	183.6	90.81	17.94	-0.1
6-Oct 7:00	3.45	199.7	102.16	16.82	0.2
6-Oct 7:30	5.07	190.8	105.11	16.53	2.6
6-Oct 8:00	16.97	222.2	107.78	15.56	5.9
6-Oct 8:30	7.66	241.6	97.58	14.08	8.3
6-Oct 9:00	8.40	217.3	96.23	13.75	10.7
6-Oct 9:30	7.03	209.7	97.73	12.84	72.9
6-Oct 10:00	10.19	295.6	92.73	10.90	86.3
6-Oct 10:30	8.22	241.5	84.66	10.99	256.3
6-Oct 11:00	7.71	237.5	80.04	11.44	264.8
6-Oct 11:30	15.88	283.2	66.45	12.61	770.3
6-Oct 12:00	16.38	291.0	57.20	13.55	791.7
6-Oct 12:30	13.00	242.4	55.25	13.71	831.7
6-Oct 13:00	10.56	241.6	50.61	14.56	891.4
6-Oct 13:30	7.26	250.2	52.46	14.18	218.2
6-Oct 14:00	4.15	282.1	48.57	15.14	750.3
6-Oct 14:30	9.73	238.5	47.49	14.63	703.3
6-Oct 15:00	13.94	232.5	49.99	13.82	538.4
6-Oct 15:30	6.19	303.4	56.68	13.53	116.1
6-Oct 16:00	7.10	246.7	47.76	14.42	335.2
6-Oct 16:30	7.65	246.4	40.57	15.13	455.9
6-Oct 17:00	8.00	241.8	43.46	14.97	400.8
6-Oct 17:30	2.92	222.2	48.50	13.55	32.2
6-Oct 18:00	2.66	215.7	52.56	13.03	40.0

6-Oct 18:30	4.60	237.0	53.52	12.49	7.3
6-Oct 19:00	2.17	261.1	56.19	11.99	0.0
6-Oct 19:30	1.38	211.6	64.08	10.89	-0.1
6-Oct 20:00	4.42	201.8	59.93	10.71	-0.1
6-Oct 20:30	2.97	221.7	61.62	10.08	-0.1
6-Oct 21:00	3.17	233.6	59.88	9.64	-0.1
6-Oct 21:30	3.18	195.8	68.25	8.64	0.0
6-Oct 22:00	2.92	151.6	82.81	7.40	-0.1
6-Oct 22:30	3.02	178.4	69.82	7.88	-0.1
6-Oct 23:00	1.84	82.3	79.30	7.16	-0.1
6-Oct 23:30	3.67	198.8	73.45	7.01	-0.1
7-Oct 0:00	4.33	233.1	59.49	8.07	0.0
7-Oct 0:30	4.04	216.3	56.48	8.28	-0.1
7-Oct 1:00	4.54	196.1	62.86	7.30	-0.1
7-Oct 1:30	3.78	213.6	66.51	6.68	-0.1
7-Oct 2:00	4.08	190.2	69.89	6.34	-0.1
7-Oct 2:30	6.01	208.7	69.83	5.81	-0.1
7-Oct 3:00	3.50	208.6	71.44	5.55	-0.1
7-Oct 3:30	2.97	181.9	75.05	4.95	-0.1
7-Oct 4:00	3.56	201.3	72.01	4.93	-0.1
7-Oct 4:30	4.35	191.7	73.26	4.78	-0.1
7-Oct 5:00	3.59	181.5	77.28	4.28	-0.1
7-Oct 5:30	4.49	211.8	73.31	4.67	-0.1
7-Oct 6:00	3.94	211.2	75.85	4.38	-0.1
7-Oct 6:30	0.74	182.1	82.52	3.70	-0.1
7-Oct 7:00	2.59	229.5	83.90	3.19	3.9
7-Oct 7:30	3.15	202.9	85.55	2.95	16.2
7-Oct 8:00	4.37	176.9	85.46	3.76	100.7
7-Oct 8:30	4.65	164.9	77.53	5.38	196.8
7-Oct 9:00	4.93	271.9	61.85	7.64	293.8
7-Oct 9:30	14.27	242.7	57.96	8.00	388.9
7-Oct 10:00	11.01	279.5	54.35	8.55	501.2
7-Oct 10:30	11.09	274.7	52.01	8.96	482.4
7-Oct 11:00	8.29	233.5	50.08	9.79	178.9
7-Oct 11:30	15.06	294.9	46.81	9.87	304.4
7-Oct 12:00	6.62	270.7	61.97	7.27	366.6
7-Oct 12:30	8.57	280.0	49.92	8.77	844.8
7-Oct 13:00	4.03	227.3	40.47	10.46	304.2
7-Oct 13:30	15.28	238.1	34.54	11.22	1004.4
7-Oct 14:00	10.96	276.4	40.45	9.69	136.3
7-Oct 14:30	7.15	262.4	44.91	9.25	125.8
7-Oct 15:00	12.75	223.9	45.05	8.99	128.1
7-Oct 15:30	14.29	219.1	44.67	9.90	647.9
7-Oct 16:00	13.63	264.1	45.50	9.60	121.6
7-Oct 16:30	8.97	241.7	50.28	8.83	80.4
7-Oct 17:00	6.07	196.2	50.05	9.13	348.3
7-Oct 17:30	17.41	237.6	42.10	8.56	68.2
7-Oct 18:00	7.49	255.2	39.58	8.58	115.2
7-Oct 18:30	9.88	242.2	42.20	7.50	5.0
7-Oct 19:00	3.40	242.6	46.17	6.80	-0.1

7-Oct 19:30	2.96	172.0	55.01	5.63	-0.1
7-Oct 20:00	1.59	191.8	56.62	5.04	-0.1
7-Oct 20:30	2.06	194.3	75.59	3.52	-0.1
7-Oct 21:00	1.73	186.9	73.54	3.71	-0.1
7-Oct 21:30	2.30	192.4	67.07	4.33	-0.1
7-Oct 22:00	3.01	239.1	73.86	3.34	-0.1
7-Oct 22:30	4.24	222.2	64.42	4.45	-0.1
7-Oct 23:00	5.81	228.7	57.86	4.84	-0.1
7-Oct 23:30	4.55	203.5	66.12	3.83	-0.1
8-Oct 0:00	6.73	179.7	70.87	3.51	-0.2
8-Oct 0:30	5.78	187.5	72.86	3.58	-0.1
8-Oct 1:00	3.14	228.3	70.96	3.91	-0.1
8-Oct 1:30	3.92	223.7	69.08	4.23	-0.1
8-Oct 2:00	4.33	221.4	75.44	3.30	-0.2
8-Oct 2:30	4.66	195.0	81.93	2.33	-0.2
8-Oct 3:00	3.07	169.8	90.86	1.73	-0.2
8-Oct 3:30	3.02	223.6	86.37	1.82	-0.2
8-Oct 4:00	2.51	220.2	83.62	2.26	-0.2
8-Oct 4:30	3.61	226.5	81.47	2.26	-0.2
8-Oct 5:00	5.58	244.8	81.04	2.26	-0.2
8-Oct 5:30	4.30	233.0	84.03	1.87	-0.2
8-Oct 6:00	2.18	239.1	85.24	1.64	-0.1
8-Oct 6:30	2.68	316.0	83.98	1.78	-0.1
8-Oct 7:00	5.01	270.6	83.06	1.56	3.5
8-Oct 7:30	2.99	166.7	93.16	0.71	14.7
8-Oct 8:00	4.13	175.7	77.38	2.52	102.8
8-Oct 8:30	2.46	279.9	65.01	3.92	201.6
8-Oct 9:00	10.44	301.7	60.66	4.48	300.7
8-Oct 9:30	18.09	296.5	56.19	4.81	401.5
8-Oct 10:00	14.11	332.4	51.98	5.44	392.4
8-Oct 10:30	14.03	291.6	49.21	6.00	580.8
8-Oct 11:00	13.46	318.1	46.64	6.63	657.9
8-Oct 11:30	11.74	332.7	45.90	7.23	722.6
8-Oct 12:00	12.07	334.4	44.19	7.44	772.6
8-Oct 12:30	7.91	321.4	45.14	8.48	801.4
8-Oct 13:00	15.60	286.5	39.18	8.84	811.9
8-Oct 13:30	18.87	313.5	39.67	8.88	811.3
8-Oct 14:00	14.48	317.9	38.57	9.32	786.6
8-Oct 14:30	7.09	337.6	43.22	9.92	752.2
8-Oct 15:00	13.36	280.1	35.60	10.54	693.9
8-Oct 15:30	9.57	282.0	34.31	10.88	625.3
8-Oct 16:00	9.86	286.9	34.48	10.87	542.1
8-Oct 16:30	8.44	295.2	36.50	10.90	444.9
8-Oct 17:00	7.46	321.2	39.20	10.92	339.9
8-Oct 17:30	8.55	316.2	36.02	10.63	228.4
8-Oct 18:00	5.52	314.9	41.00	9.97	52.8
8-Oct 18:30	4.24	313.7	46.44	8.78	5.0
8-Oct 19:00	6.14	296.5	51.30	7.35	-0.1
8-Oct 19:30	1.29	183.9	65.11	5.72	-0.1
8-Oct 20:00	3.79	327.0	80.43	5.54	-0.1

8-Oct 20:30	4.12	291.2	75.78	4.31	-0.2
8-Oct 21:00	3.31	198.9	86.07	2.37	-0.2
8-Oct 21:30	0.00	0.0	84.92	2.87	-0.2
8-Oct 22:00	5.01	49.1	98.68	3.88	-0.2
8-Oct 22:30	1.35	210.4	98.98	0.73	-0.2
8-Oct 23:00	2.87	236.9	91.99	1.16	-0.2
8-Oct 23:30	2.41	240.3	93.95	0.58	-0.2
9-Oct 0:00	2.05	219.0	92.59	0.72	-0.2
9-Oct 0:30	2.73	219.9	103.39	-0.82	-0.2
9-Oct 1:00	3.38	252.3	103.44	-0.56	-0.2
9-Oct 1:30	2.14	230.1	104.40	-1.04	-0.2
9-Oct 2:00	2.11	189.1	108.63	-1.82	-0.2
9-Oct 2:30	2.26	215.6	105.66	-0.80	-0.2
9-Oct 3:00	3.24	256.6	105.07	-1.24	-0.2
9-Oct 3:30	2.78	188.6	107.28	-1.90	-0.2
9-Oct 4:00	2.24	243.5	106.15	-2.08	-0.2
9-Oct 4:30	2.62	235.8	105.52	-2.05	-0.2
9-Oct 5:00	2.65	219.5	108.69	-2.54	-0.2
9-Oct 5:30	1.79	176.2	110.57	-2.69	-0.2
9-Oct 6:00	1.91	232.9	108.92	-3.07	-0.2
9-Oct 6:30	1.66	225.6	107.93	-3.09	-0.2
9-Oct 7:00	1.83	248.8	108.49	-2.73	3.0
9-Oct 7:30	3.28	247.4	105.45	-2.99	13.8
9-Oct 8:00	2.69	233.4	99.98	-1.96	95.8
9-Oct 8:30	2.04	203.9	94.06	-0.31	215.5
9-Oct 9:00	1.99	156.6	89.16	0.73	307.5
9-Oct 9:30	2.76	144.7	83.04	2.17	402.9
9-Oct 10:00	2.65	154.4	76.20	4.05	489.5
9-Oct 10:30	2.12	107.7	72.07	6.23	580.5
9-Oct 11:00	3.89	159.7	54.21	9.25	652.8
9-Oct 11:30	3.97	157.4	43.43	11.16	731.0
9-Oct 12:00	7.46	177.7	35.63	12.04	773.7
9-Oct 12:30	5.88	167.7	34.92	11.68	377.8
9-Oct 13:00	5.12	157.4	30.21	13.06	807.7
9-Oct 13:30	4.19	156.8	30.52	13.57	805.2
9-Oct 14:00	4.58	154.3	31.45	13.34	774.0
9-Oct 14:30	0.33	199.5	30.45	14.80	717.1
9-Oct 15:00	2.11	112.8	31.23	14.98	659.8
9-Oct 15:30	5.32	208.1	27.11	15.52	587.7
9-Oct 16:00	1.70	174.8	26.66	15.36	515.1
9-Oct 16:30	2.03	202.1	26.96	15.49	422.7
9-Oct 17:00	7.31	200.1	29.91	14.72	290.3
9-Oct 17:30	6.21	198.7	29.60	14.48	210.5
9-Oct 18:00	1.41	154.8	33.91	13.72	51.7
9-Oct 18:30	3.68	135.2	36.19	12.64	6.5
9-Oct 19:00	3.43	139.0	44.20	11.54	-0.1
9-Oct 19:30	2.85	269.0	52.45	9.58	-0.1
9-Oct 20:00	0.00	0.0	61.48	8.81	-0.1
9-Oct 20:30	0.00	0.0	75.65	8.28	-0.1
9-Oct 21:00	2.78	48.7	77.82	8.15	-0.1

9-Oct 21:30	2.11	359.8	81.71	6.98	-0.1
9-Oct 22:00	2.29	325.8	83.03	6.09	-0.1
9-Oct 22:30	0.00	0.0	86.02	6.00	-0.1
9-Oct 23:00	2.04	299.1	87.19	5.03	-0.2
9-Oct 23:30	2.04	196.5	86.26	4.83	-0.2
10-Oct 0:00	3.37	228.3	87.75	3.09	-0.1
10-Oct 0:30	3.15	165.9	97.96	2.00	-0.2
10-Oct 1:00	1.24	271.3	94.60	2.04	-0.2
10-Oct 1:30	0.00	0.0	89.85	3.34	-0.2
10-Oct 2:00	0.00	0.0	89.61	3.58	-0.2
10-Oct 2:30	2.72	216.6	92.44	2.70	-0.1
10-Oct 3:00	1.74	217.7	99.53	1.72	-0.2
10-Oct 3:30	3.51	203.0	100.54	1.54	-0.2
10-Oct 4:00	3.52	209.7	100.82	1.73	-0.2
10-Oct 4:30	3.15	225.7	102.12	1.66	-0.2
10-Oct 5:00	0.00	0.0	105.82	1.15	-0.2
10-Oct 5:30	2.31	277.7	100.56	2.04	-0.2
10-Oct 6:00	3.43	188.8	100.74	1.68	-0.2
10-Oct 6:30	3.45	228.9	102.95	0.86	-0.2
10-Oct 7:00	3.76	246.2	105.97	0.68	3.5
10-Oct 7:30	3.23	234.5	106.07	0.61	30.6
10-Oct 8:00	0.73	231.4	97.85	2.26	74.8
10-Oct 8:30	2.49	223.2	93.10	3.44	161.2
10-Oct 9:00	2.61	161.1	89.45	4.58	285.0
10-Oct 9:30	3.36	148.2	80.64	7.34	359.6
10-Oct 10:00	2.08	134.4	71.27	10.21	453.3
10-Oct 10:30	4.02	180.3	61.19	12.26	548.4
10-Oct 11:00	2.37	160.4	52.77	14.06	616.6
10-Oct 11:30	5.70	172.2	46.15	15.59	689.3
10-Oct 12:00	3.87	183.4	35.55	17.13	699.3
10-Oct 12:30	6.35	202.9	35.09	17.22	762.1
10-Oct 13:00	3.10	151.2	35.72	18.60	621.8
10-Oct 13:30	6.18	181.3	36.83	19.10	696.5
10-Oct 14:00	5.35	104.1	39.37	18.88	754.4
10-Oct 14:30	2.91	137.2	38.08	19.21	678.2
10-Oct 15:00	8.30	175.2	36.61	19.08	655.2
10-Oct 15:30	4.21	175.0	34.80	19.30	501.8
10-Oct 16:00	1.54	146.9	37.03	19.54	324.3
10-Oct 16:30	1.96	139.2	39.26	19.13	224.6
10-Oct 17:00	3.72	189.3	43.03	18.27	151.4
10-Oct 17:30	1.97	180.1	45.63	18.33	108.9
10-Oct 18:00	1.61	161.3	56.00	16.94	31.8
10-Oct 18:30	0.00	0.0	57.72	15.77	1.3
10-Oct 19:00	0.59	351.8	74.30	14.13	-0.1
10-Oct 19:30	1.71	5.5	80.47	13.55	-0.1
10-Oct 20:00	2.80	356.8	81.48	12.47	-0.2
10-Oct 20:30	2.70	329.6	85.28	11.61	-0.1
10-Oct 21:00	2.53	347.6	91.35	11.29	-0.1
10-Oct 21:30	2.57	52.3	95.45	10.69	-0.1
10-Oct 22:00	2.21	10.5	99.30	10.24	-0.2

10-Oct 22:30	3.25	27.0	100.17	9.97	-0.1
10-Oct 23:00	3.09	33.3	102.73	9.51	-0.1
10-Oct 23:30	4.05	28.2	102.35	9.19	-0.2
11-Oct 0:00	2.79	30.1	103.20	8.93	-0.2
11-Oct 0:30	3.83	48.0	104.89	8.81	-0.1
11-Oct 1:00	5.25	30.2	105.61	8.55	-0.1
11-Oct 1:30	4.08	47.6	106.73	8.47	-0.2
11-Oct 2:00	3.73	40.8	107.09	8.26	-0.2
11-Oct 2:30	3.21	29.6	107.91	8.15	-0.2
11-Oct 3:00	2.63	21.8	108.11	7.92	-0.2
11-Oct 3:30	1.96	262.5	107.69	6.88	-0.1
11-Oct 4:00	1.73	225.6	108.64	6.34	-0.1
11-Oct 4:30	2.23	283.0	108.84	6.33	-0.2
11-Oct 5:00	1.81	52.2	109.47	7.23	-0.2
11-Oct 5:30	1.94	349.3	109.42	7.11	-0.2
11-Oct 6:00	1.71	289.5	108.79	6.25	-0.2
11-Oct 6:30	3.41	207.8	108.88	5.07	-0.1
11-Oct 7:00	3.07	183.9	109.56	5.07	1.0
11-Oct 7:30	2.07	188.9	109.81	5.42	10.6
11-Oct 8:00	2.06	233.1	109.94	6.13	40.4
11-Oct 8:30	0.60	196.2	109.80	6.63	71.5
11-Oct 9:00	0.79	185.8	108.07	7.63	91.0
11-Oct 9:30	2.37	170.8	106.07	8.18	106.8
11-Oct 10:00	0.00	0.0	101.99	9.79	188.4
11-Oct 10:30	0.00	0.0	99.89	10.83	203.8
11-Oct 11:00	3.14	221.0	98.64	11.63	299.3
11-Oct 11:30	1.24	154.3	91.81	13.38	345.8
11-Oct 12:00	1.58	154.1	83.09	14.84	718.0
11-Oct 12:30	6.58	246.6	74.66	17.03	741.8
11-Oct 13:00	2.57	146.1	65.43	18.89	760.1
11-Oct 13:30	2.87	212.3	61.77	20.16	756.3
11-Oct 14:00	6.06	223.7	57.65	21.11	732.2
11-Oct 14:30	1.47	68.6	50.03	23.02	685.8
11-Oct 15:00	4.95	158.5	53.54	22.31	617.7
11-Oct 15:30	1.62	105.6	52.27	22.45	540.4
11-Oct 16:00	7.10	176.1	50.47	22.86	425.7
11-Oct 16:30	3.61	159.2	52.59	22.58	334.8
11-Oct 17:00	4.53	188.6	53.86	22.38	246.4
11-Oct 17:30	2.86	138.6	58.59	21.75	131.4
11-Oct 18:00	2.33	140.0	62.87	20.76	60.7
11-Oct 18:30	0.00	0.0	70.97	18.98	1.6
11-Oct 19:00	1.87	355.1	87.97	16.87	-0.2
11-Oct 19:30	1.73	53.9	91.52	16.02	-0.1
11-Oct 20:00	3.01	28.5	95.50	14.98	-0.1
11-Oct 20:30	3.26	54.0	97.01	14.78	-0.2
11-Oct 21:00	4.36	4.6	99.27	14.13	-0.2
11-Oct 21:30	3.77	27.7	100.91	13.72	-0.1
11-Oct 22:00	5.02	19.6	103.06	13.31	-0.1
11-Oct 22:30	2.58	46.8	104.03	12.84	-0.1
11-Oct 23:00	3.45	31.0	104.23	12.53	-0.1

11-Oct 23:30	2.77	38.0	106.02	12.32	-0.1
12-Oct 0:00	0.00	0.0	106.62	11.94	-0.1
12-Oct 0:30	2.32	31.4	107.13	11.68	-0.1
12-Oct 1:00	1.10	38.7	107.97	11.61	-0.1
12-Oct 1:30	1.45	41.1	108.06	11.37	-0.2
12-Oct 2:00	0.87	53.8	108.47	11.21	-0.2
12-Oct 2:30	1.73	324.5	108.04	10.60	-0.2
12-Oct 3:00	2.37	230.5	108.21	9.54	-0.2
12-Oct 3:30	0.00	0.0	109.30	9.75	-0.2
12-Oct 4:00	1.34	304.6	109.51	9.85	-0.2
12-Oct 4:30	1.84	344.3	109.85	8.85	-0.1
12-Oct 5:00	2.21	228.7	109.79	8.35	-0.2
12-Oct 5:30	2.47	206.8	109.89	8.10	-0.2
12-Oct 6:00	2.30	222.8	110.05	8.14	-0.2
12-Oct 6:30	1.99	240.2	110.16	8.10	-0.2
12-Oct 7:00	0.00	0.0	110.24	8.04	3.2
12-Oct 7:30	1.44	207.0	110.25	7.97	17.1
12-Oct 8:00	2.41	229.3	110.30	8.17	57.8
12-Oct 8:30	1.67	359.6	110.35	9.06	101.2
12-Oct 9:00	1.22	63.8	110.28	10.09	112.0
12-Oct 9:30	1.91	43.7	108.40	11.77	431.3
12-Oct 10:00	1.20	40.8	100.82	13.72	450.6
12-Oct 10:30	0.00	0.0	95.97	15.27	344.6
12-Oct 11:00	0.00	0.0	92.94	16.35	298.1
12-Oct 11:30	0.00	0.0	76.93	20.05	793.6
12-Oct 12:00	0.27	88.7	76.91	19.91	506.5
12-Oct 12:30	0.88	139.0	63.78	20.89	586.3
12-Oct 13:00	4.79	234.5	56.32	22.53	731.0
12-Oct 13:30	6.14	215.0	53.21	23.00	782.8
12-Oct 14:00	2.19	144.3	53.52	23.05	590.1
12-Oct 14:30	6.53	213.9	49.15	23.95	556.5
12-Oct 15:00	5.00	244.2	52.54	23.26	506.7
12-Oct 15:30	8.04	223.2	51.13	23.53	565.4
12-Oct 16:00	5.22	158.4	51.90	23.29	334.7
12-Oct 16:30	1.86	124.1	55.89	22.44	159.7
12-Oct 17:00	0.00	0.0	56.16	22.39	121.0
12-Oct 17:30	2.74	154.1	59.33	21.65	59.2
12-Oct 18:00	2.44	143.4	61.63	21.13	36.1
12-Oct 18:30	2.76	128.4	67.31	20.17	0.7
12-Oct 19:00	2.13	4.8	80.19	18.45	-0.1
12-Oct 19:30	2.38	333.2	85.86	17.60	-0.1
12-Oct 20:00	3.69	324.0	84.45	17.51	-0.2
12-Oct 20:30	3.16	48.2	91.71	17.02	-0.1
12-Oct 21:00	1.28	57.2	94.44	16.80	-0.1
12-Oct 21:30	1.34	48.5	94.71	16.72	-0.1
12-Oct 22:00	0.92	348.4	98.02	16.38	-0.1
12-Oct 22:30	1.58	339.3	101.37	16.04	-0.1
12-Oct 23:00	2.40	30.3	101.78	15.91	-0.1
12-Oct 23:30	2.94	23.2	103.30	15.68	-0.2
13-Oct 0:00	1.74	42.3	103.51	15.58	-0.2

13-Oct 0:30	2.57	12.4	105.05	15.43	-0.2
13-Oct 1:00	2.30	33.1	105.87	15.05	-0.2
13-Oct 1:30	2.44	55.3	105.66	14.86	-0.1
13-Oct 2:00	2.61	359.1	106.04	14.50	-0.1
13-Oct 2:30	3.92	9.8	106.74	14.46	-0.1
13-Oct 3:00	2.81	19.4	106.97	14.04	-0.1
13-Oct 3:30	5.53	357.8	106.54	13.94	-0.2
13-Oct 4:00	2.98	42.2	105.88	13.93	-0.2
13-Oct 4:30	4.34	48.6	106.04	13.89	-0.1
13-Oct 5:00	4.35	42.1	106.38	13.81	-0.1
13-Oct 5:30	4.89	17.5	106.71	13.52	-0.2
13-Oct 6:00	4.86	9.3	106.76	13.33	-0.2
13-Oct 6:30	3.99	43.6	107.09	13.20	-0.1
13-Oct 7:00	3.73	36.9	106.23	12.97	1.2
13-Oct 7:30	3.81	23.0	107.20	12.98	14.7
13-Oct 8:00	2.77	19.3	106.07	12.87	26.6
13-Oct 8:30	3.77	28.0	98.32	14.24	173.1
13-Oct 9:00	4.08	47.0	96.13	15.08	253.9
13-Oct 9:30	3.52	48.2	93.60	15.83	335.7
13-Oct 10:00	1.68	62.3	85.53	17.56	421.1
13-Oct 10:30	3.32	34.6	80.78	18.52	501.8
13-Oct 11:00	1.32	66.9	74.38	20.06	575.6
13-Oct 11:30	0.00	0.0	59.74	22.82	640.2
13-Oct 12:00	0.00	0.0	62.98	22.14	682.2
13-Oct 12:30	8.92	122.2	65.60	21.80	706.3
13-Oct 13:00	2.59	133.2	61.10	22.82	723.0
13-Oct 13:30	8.52	119.5	62.57	22.75	726.8
13-Oct 14:00	2.44	128.7	56.89	24.13	797.9
13-Oct 14:30	3.40	126.0	62.94	23.14	158.2
13-Oct 15:00	5.72	92.6	63.43	22.97	141.7
13-Oct 15:30	5.53	128.2	62.70	23.11	157.5
13-Oct 16:00	0.08	139.3	62.97	23.13	100.7
13-Oct 16:30	1.83	153.2	63.50	22.98	65.4
13-Oct 17:00	0.80	84.9	63.49	22.84	37.6
13-Oct 17:30	2.52	120.8	64.04	22.68	17.9
13-Oct 18:00	2.63	99.5	67.27	22.29	5.4
13-Oct 18:30	1.90	64.8	65.07	22.07	0.3
13-Oct 19:00	2.05	62.6	65.16	21.79	-0.1
13-Oct 19:30	3.73	47.0	66.61	21.52	-0.1
13-Oct 20:00	7.21	70.6	67.19	21.49	-0.1
13-Oct 20:30	6.74	61.4	69.06	21.08	-0.1
13-Oct 21:00	4.58	61.0	70.14	20.67	-0.1
13-Oct 21:30	5.72	52.5	72.93	19.88	-0.1
13-Oct 22:00	5.22	41.9	75.47	18.87	-0.2
13-Oct 22:30	5.22	51.6	77.44	18.21	-0.1
13-Oct 23:00	4.22	53.9	78.67	17.77	-0.1
13-Oct 23:30	3.51	76.2	77.67	17.36	-0.1
14-Oct 0:00	4.48	99.7	77.70	16.90	-0.1
14-Oct 0:30	4.87	78.3	80.39	16.48	-0.1
14-Oct 1:00	2.73	115.9	84.30	15.93	-0.1

14-Oct 1:30	5.21	65.4	89.49	15.69	-0.1
14-Oct 2:00	5.39	74.9	95.22	15.48	-0.1
14-Oct 2:30	8.25	42.1	96.92	15.44	-0.1
14-Oct 3:00	6.53	88.9	97.04	15.42	-0.1
14-Oct 3:30	5.99	88.9	97.33	15.42	-0.1
14-Oct 4:00	5.02	59.4	97.23	15.40	-0.1
14-Oct 4:30	5.77	67.2	96.83	15.39	-0.1
14-Oct 5:00	5.82	80.5	96.57	15.38	-0.1
14-Oct 5:30	4.40	52.7	96.40	15.34	-0.1
14-Oct 6:00	4.37	65.7	94.03	15.31	-0.1
14-Oct 6:30	2.97	101.4	94.87	15.20	-0.1
14-Oct 7:00	5.19	77.9	94.07	15.12	0.5
14-Oct 7:30	2.74	107.8	93.00	15.16	4.1
14-Oct 8:00	5.67	134.5	93.26	15.01	18.9
14-Oct 8:30	2.68	59.1	92.82	15.04	22.3
14-Oct 9:00	7.03	55.7	93.83	14.92	48.3
14-Oct 9:30	3.29	165.3	93.87	14.88	45.2
14-Oct 10:00	2.49	84.1	92.87	14.94	64.7
14-Oct 10:30	5.09	71.2	94.36	14.88	120.7
14-Oct 11:00	4.22	45.5	91.54	15.26	79.4
14-Oct 11:30	6.87	65.7	89.89	15.74	179.5
14-Oct 12:00	6.99	66.7	84.75	16.66	221.8
14-Oct 12:30	4.29	140.8	80.36	17.31	196.2
14-Oct 13:00	5.17	74.6	82.30	17.20	135.5
14-Oct 13:30	7.08	78.7	76.43	18.40	226.6
14-Oct 14:00	11.71	50.8	75.96	18.54	144.2
14-Oct 14:30	3.06	119.4	74.97	18.74	79.5
14-Oct 15:00	3.81	50.9	73.76	19.12	91.2
14-Oct 15:30	4.39	63.8	73.44	19.34	58.4
14-Oct 16:00	6.52	70.4	70.83	19.86	236.0
14-Oct 16:30	3.32	24.5	70.95	20.04	75.8
14-Oct 17:00	9.80	63.6	72.24	19.70	48.4
14-Oct 17:30	5.05	103.2	73.71	19.51	44.6
14-Oct 18:00	10.03	106.7	77.32	19.18	6.3
14-Oct 18:30	3.68	82.1	80.36	18.83	0.1
14-Oct 19:00	6.87	60.1	84.59	18.35	-0.1
14-Oct 19:30	6.65	36.3	86.52	18.04	-0.1
14-Oct 20:00	4.43	96.1	87.45	17.83	-0.1
14-Oct 20:30	5.77	87.7	97.42	16.81	-0.1
14-Oct 21:00	8.53	77.4	99.63	16.79	-0.1
14-Oct 21:30	3.70	59.3	106.62	16.30	-0.1
14-Oct 22:00	5.79	49.5	108.20	16.38	-0.1
14-Oct 22:30	7.87	45.9	108.97	16.39	-0.2
14-Oct 23:00	3.49	107.1	109.70	16.49	-0.1
14-Oct 23:30	4.17	177.7	109.86	16.53	-0.1
15-Oct 0:00	6.18	184.3	110.01	16.31	-0.2
15-Oct 0:30	7.96	213.3	110.19	16.17	-0.2
15-Oct 1:00	8.49	226.4	109.90	14.74	-0.1
15-Oct 1:30	2.04	223.4	108.76	13.57	-0.2
15-Oct 2:00	6.08	237.1	101.15	13.84	-0.2

15-Oct 2:30	3.83	213.6	95.12	14.24	-0.1
15-Oct 3:00	4.26	204.6	96.40	14.17	-0.2
15-Oct 3:30	3.45	179.5	93.00	14.27	-0.2
15-Oct 4:00	5.51	212.5	93.30	13.76	-0.1
15-Oct 4:30	4.01	214.8	92.95	12.98	-0.1
15-Oct 5:00	3.72	218.2	88.37	12.36	-0.1
15-Oct 5:30	4.16	191.8	89.33	11.68	-0.1
15-Oct 6:00	2.65	221.3	90.42	11.13	-0.1
15-Oct 6:30	0.00	0.0	95.59	10.48	-0.1
15-Oct 7:00	1.69	181.6	104.81	9.46	0.8
15-Oct 7:30	3.50	182.9	103.83	9.11	12.7
15-Oct 8:00	2.02	147.5	100.84	9.61	85.9
15-Oct 8:30	4.79	180.3	90.92	10.89	162.8
15-Oct 9:00	4.43	193.4	82.19	12.23	249.2
15-Oct 9:30	3.63	155.7	77.23	13.67	336.3
15-Oct 10:00	5.48	213.3	67.65	14.99	434.2
15-Oct 10:30	9.90	222.5	61.76	15.52	522.3
15-Oct 11:00	7.77	252.3	55.75	16.43	625.5
15-Oct 11:30	11.95	203.4	54.64	16.56	732.7
15-Oct 12:00	17.76	239.1	51.94	16.07	253.2
15-Oct 12:30	13.63	242.8	54.81	15.78	160.3
15-Oct 13:00	9.73	229.0	48.82	16.84	470.3
15-Oct 13:30	13.98	230.2	44.03	17.71	748.8
15-Oct 14:00	11.65	211.9	44.41	17.90	763.9
15-Oct 14:30	11.35	229.5	41.66	18.31	713.4
15-Oct 15:00	11.68	250.4	42.74	18.32	657.1
15-Oct 15:30	5.29	263.1	39.07	18.88	549.2
15-Oct 16:00	6.16	248.3	37.42	18.67	465.6
15-Oct 16:30	10.00	216.8	37.24	18.03	373.5
15-Oct 17:00	9.73	207.1	36.27	18.25	270.9
15-Oct 17:30	5.47	233.2	37.51	17.62	164.7
15-Oct 18:00	1.06	115.6	41.11	16.85	61.5
15-Oct 18:30	1.32	138.9	52.31	14.83	1.2
15-Oct 19:00	0.00	0.0	64.47	13.37	-0.1
15-Oct 19:30	0.00	0.0	63.34	12.29	-0.1
15-Oct 20:00	0.00	0.0	76.86	11.14	-0.1
15-Oct 20:30	2.12	352.7	87.26	10.40	-0.1
15-Oct 21:00	2.42	316.5	88.01	9.85	-0.1
15-Oct 21:30	2.25	202.7	84.10	9.08	-0.1
15-Oct 22:00	0.00	0.0	96.32	8.33	-0.1
15-Oct 22:30	3.83	344.5	99.97	8.22	-0.1
15-Oct 23:00	2.27	34.7	101.27	8.20	-0.1
15-Oct 23:30	0.58	19.3	103.73	7.87	-0.2
16-Oct 0:00	0.82	286.0	104.14	6.44	-0.2
16-Oct 0:30	2.23	257.7	100.66	5.99	-0.2
16-Oct 1:00	3.87	22.5	106.39	6.79	-0.1
16-Oct 1:30	0.00	0.0	105.57	6.02	-0.2
16-Oct 2:00	1.04	300.5	106.70	5.29	-0.2
16-Oct 2:30	2.56	327.2	107.87	5.40	-0.2
16-Oct 3:00	1.46	330.1	107.72	5.66	-0.2

16-Oct 3:30	4.38	5.7	107.94	5.58	-0.2
16-Oct 4:00	3.12	24.8	107.68	5.50	-0.2
16-Oct 4:30	0.45	349.4	107.72	4.89	-0.2
16-Oct 5:00	4.62	21.8	108.28	5.05	-0.2
16-Oct 5:30	5.47	37.8	107.59	4.78	-0.2
16-Oct 6:00	7.31	4.0	106.44	4.50	-0.2
16-Oct 6:30	6.42	30.5	108.89	4.89	-0.2
16-Oct 7:00	5.40	31.1	107.61	4.37	1.0
16-Oct 7:30	7.17	26.2	108.37	4.71	15.5
16-Oct 8:00	7.74	27.6	105.35	5.03	81.0
16-Oct 8:30	7.28	19.3	97.90	6.23	180.6
16-Oct 9:00	5.25	41.2	94.44	7.52	259.1
16-Oct 9:30	7.38	47.4	89.38	8.89	340.1
16-Oct 10:00	9.08	45.3	87.51	11.61	429.5
16-Oct 10:30	5.33	58.3	77.76	14.33	513.1
16-Oct 11:00	7.20	57.5	71.16	14.96	599.6
16-Oct 11:30	6.13	62.8	60.66	16.78	692.8
16-Oct 12:00	9.83	63.6	55.18	16.87	760.0
16-Oct 12:30	3.15	151.5	49.50	17.62	667.6
16-Oct 13:00	7.45	78.2	45.45	17.93	819.0
16-Oct 13:30	4.62	140.4	47.49	17.95	661.0
16-Oct 14:00	3.81	87.4	45.28	17.47	463.9
16-Oct 14:30	12.12	137.0	43.89	18.31	544.4
16-Oct 15:00	10.64	116.6	44.80	18.33	622.0
16-Oct 15:30	5.31	82.9	43.04	18.88	430.2
16-Oct 16:00	11.23	60.8	45.80	18.68	364.6
16-Oct 16:30	4.39	153.2	46.94	18.12	101.7
16-Oct 17:00	5.39	54.0	42.30	19.36	265.8
16-Oct 17:30	1.90	195.6	47.79	18.01	30.7
16-Oct 18:00	0.00	0.0	50.91	17.40	7.3
16-Oct 18:30	1.43	204.0	52.66	17.17	0.0
16-Oct 19:00	9.23	190.1	99.03	10.84	-0.2
16-Oct 19:30	7.45	215.0	94.79	10.13	-0.1
16-Oct 20:00	6.64	201.2	95.44	8.79	-0.1
16-Oct 20:30	2.05	236.8	103.09	8.14	-0.1
16-Oct 21:00	1.07	207.2	103.20	7.76	-0.1
16-Oct 21:30	2.74	167.9	107.81	7.43	-0.2
16-Oct 22:00	2.41	163.2	108.67	7.61	-0.2
16-Oct 22:30	3.84	114.2	108.07	7.35	-0.1
16-Oct 23:00	4.97	118.8	107.55	7.30	-0.1
16-Oct 23:30	2.30	236.3	108.51	7.30	-0.1
17-Oct 0:00	3.46	204.7	109.04	7.22	-0.2
17-Oct 0:30	1.51	215.0	109.59	7.26	-0.2
17-Oct 1:00	2.82	223.2	109.75	7.25	-0.2
17-Oct 1:30	3.69	160.1	109.03	7.38	-0.2
17-Oct 2:00	4.20	166.1	109.31	7.08	-0.2
17-Oct 2:30	2.12	127.0	108.41	7.10	-0.1
17-Oct 3:00	2.01	202.7	106.44	7.00	-0.1
17-Oct 3:30	2.27	186.1	103.79	7.05	-0.2
17-Oct 4:00	3.58	200.5	101.69	6.86	-0.2

17-Oct	4:30	3.34	215.3	100.92	6.77	-0.1
17-Oct	5:00	3.83	159.6	102.26	6.86	-0.2
17-Oct	5:30	5.47	191.3	100.20	6.84	-0.1
17-Oct	6:00	3.75	184.4	99.73	6.98	-0.1
17-Oct	6:30	4.72	194.3	97.03	7.12	-0.2
17-Oct	7:00	8.58	210.2	93.40	7.34	0.3
17-Oct	7:30	4.01	185.5	90.61	7.45	13.9
17-Oct	8:00	8.86	199.2	80.36	8.03	76.8
17-Oct	8:30	8.26	213.6	80.55	8.16	65.7
17-Oct	9:00	10.45	242.2	71.87	9.21	268.2
17-Oct	9:30	13.25	232.2	66.54	9.93	437.1
17-Oct	10:00	10.28	224.4	66.54	9.63	144.6
17-Oct	10:30	10.41	222.5	63.79	9.74	180.8
17-Oct	11:00	17.92	229.7	57.05	9.96	261.6
17-Oct	11:30	14.32	226.5	50.16	10.78	828.1
17-Oct	12:00	10.00	243.5	45.67	10.49	764.4
17-Oct	12:30	14.75	235.0	44.66	11.31	257.0
17-Oct	13:00	16.36	202.8	45.00	10.63	253.7
17-Oct	13:30	6.46	232.6	47.01	10.87	236.8
17-Oct	14:00	5.21	234.0	48.72	10.32	175.8
17-Oct	14:30	7.41	202.4	46.53	10.52	242.4
17-Oct	15:00	7.17	208.3	44.29	10.27	130.7
17-Oct	15:30	16.58	233.6	43.93	10.22	254.3
17-Oct	16:00	11.21	232.4	43.72	10.13	111.4
17-Oct	16:30	11.66	220.1	39.01	11.15	525.4
17-Oct	17:00	16.09	230.5	44.19	9.69	86.3
17-Oct	17:30	10.53	225.2	44.47	9.91	180.1
17-Oct	18:00	15.62	240.7	45.46	8.81	13.9
17-Oct	18:30	9.97	225.6	47.95	8.38	0.7
17-Oct	19:00	6.86	222.5	50.26	7.96	-0.2
17-Oct	19:30	10.42	215.5	49.00	7.72	-0.1
17-Oct	20:00	13.55	226.0	46.25	7.84	-0.1
17-Oct	20:30	14.27	233.5	45.12	7.86	-0.1
17-Oct	21:00	5.73	253.5	45.91	7.56	-0.1
17-Oct	21:30	12.70	239.5	44.73	7.38	-0.1
17-Oct	22:00	10.57	243.0	45.32	7.29	-0.1
17-Oct	22:30	12.89	245.7	45.59	7.00	-0.1
17-Oct	23:00	8.23	237.6	47.82	6.55	-0.1
17-Oct	23:30	3.24	253.7	51.97	6.17	-0.2
18-Oct	0:00	1.19	160.7	54.57	6.07	-0.2
18-Oct	0:30	3.50	224.8	56.33	5.49	-0.2
18-Oct	1:00	6.71	225.6	58.66	4.89	-0.2
18-Oct	1:30	2.54	200.0	61.51	4.83	-0.2
18-Oct	2:00	7.45	221.3	62.98	4.36	-0.2
18-Oct	2:30	4.05	178.4	67.29	3.78	-0.2
18-Oct	3:00	2.85	142.6	69.35	3.57	-0.2
18-Oct	3:30	2.97	188.3	70.89	3.09	-0.2
18-Oct	4:00	0.67	177.2	77.18	2.25	-0.2
18-Oct	4:30	3.55	168.9	77.82	2.38	-0.2
18-Oct	5:00	2.36	232.1	77.73	1.99	-0.2

18-Oct 5:30	2.20	175.6	94.40	0.07	-0.2
18-Oct 6:00	2.92	168.8	93.14	0.69	-0.2
18-Oct 6:30	3.08	209.5	86.32	0.91	-0.2
18-Oct 7:00	0.95	153.1	96.10	0.07	0.7
18-Oct 7:30	0.00	0.0	93.56	-0.04	11.9
18-Oct 8:00	3.25	200.9	77.39	2.42	67.8
18-Oct 8:30	8.00	142.8	67.35	4.99	170.0
18-Oct 9:00	5.52	203.3	57.77	6.33	264.3
18-Oct 9:30	2.56	238.3	50.75	7.86	359.6
18-Oct 10:00	13.35	295.9	48.95	7.96	453.9
18-Oct 10:30	18.63	309.7	47.24	8.39	534.7
18-Oct 11:00	11.75	298.0	45.13	8.95	610.0
18-Oct 11:30	11.84	319.0	41.55	9.72	668.6
18-Oct 12:00	9.02	285.9	39.38	10.10	716.2
18-Oct 12:30	11.08	289.4	35.06	11.09	749.9
18-Oct 13:00	11.75	292.1	33.28	11.64	757.2
18-Oct 13:30	8.89	268.0	33.16	12.11	752.7
18-Oct 14:00	5.46	285.9	32.39	13.38	721.9
18-Oct 14:30	5.98	231.5	33.04	13.15	684.7
18-Oct 15:00	4.60	282.9	31.77	13.52	626.8
18-Oct 15:30	6.07	296.9	30.45	14.06	555.9
18-Oct 16:00	2.17	173.6	30.91	13.62	475.3
18-Oct 16:30	3.88	181.3	31.62	13.95	381.1
18-Oct 17:00	4.47	224.4	30.83	14.06	278.9
18-Oct 17:30	4.05	218.2	33.81	13.57	169.1
18-Oct 18:00	4.12	188.3	38.39	12.24	55.6
18-Oct 18:30	1.74	131.5	47.46	10.40	0.3
18-Oct 19:00	1.84	236.7	50.04	9.21	-0.1
18-Oct 19:30	0.00	0.0	58.46	7.88	-0.1
18-Oct 20:00	0.00	0.0	72.68	6.99	-0.1
18-Oct 20:30	0.00	0.0	75.66	6.60	-0.1
18-Oct 21:00	0.00	0.0	70.87	5.74	-0.1
18-Oct 21:30	0.55	1.6	82.61	4.92	-0.2
18-Oct 22:00	3.50	40.4	94.25	5.29	-0.2
18-Oct 22:30	2.31	225.4	89.49	3.60	-0.2
18-Oct 23:00	2.12	349.3	97.89	3.52	-0.2
18-Oct 23:30	0.00	0.0	99.64	2.84	-0.2
19-Oct 0:00	3.41	290.4	97.08	2.53	-0.2
19-Oct 0:30	0.00	0.0	97.19	2.34	-0.2
19-Oct 1:00	2.01	239.9	99.99	0.85	-0.2
19-Oct 1:30	1.99	294.9	97.61	1.77	-0.2
19-Oct 2:00	0.00	0.0	105.76	0.93	-0.2
19-Oct 2:30	2.46	242.4	105.75	1.13	-0.2
19-Oct 3:00	1.42	282.4	107.28	0.85	-0.2
19-Oct 3:30	3.32	222.0	106.93	-0.39	-0.2
19-Oct 4:00	2.10	218.6	107.92	-0.38	-0.2
19-Oct 4:30	2.99	257.5	104.62	0.02	-0.2
19-Oct 5:00	1.97	203.4	107.63	0.08	-0.2
19-Oct 5:30	2.34	215.0	108.21	-0.61	-0.2
19-Oct 6:00	3.02	255.7	109.51	-0.47	-0.2

19-Oct 6:30	2.77	248.2	110.48	-0.38	-0.2
19-Oct 7:00	3.04	235.9	110.96	-0.25	0.5
19-Oct 7:30	2.66	233.0	111.03	-0.08	10.3
19-Oct 8:00	1.93	205.8	111.06	0.20	32.4
19-Oct 8:30	1.47	229.8	110.94	0.80	87.2
19-Oct 9:00	0.20	202.0	110.65	1.72	149.6
19-Oct 9:30	0.00	0.0	107.90	3.60	243.3
19-Oct 10:00	0.00	0.0	96.59	7.35	478.8
19-Oct 10:30	0.00	0.0	83.86	8.76	505.1
19-Oct 11:00	1.64	247.6	60.74	11.13	373.7
19-Oct 11:30	4.45	167.9	53.88	12.68	584.9
19-Oct 12:00	3.23	135.8	47.33	13.34	700.6
19-Oct 12:30	4.26	201.9	45.71	14.24	533.8
19-Oct 13:00	6.80	207.2	44.28	14.74	706.8
19-Oct 13:30	4.00	173.3	42.74	15.64	445.2
19-Oct 14:00	2.00	127.0	40.61	16.11	572.3
19-Oct 14:30	7.43	138.2	39.62	16.18	480.8
19-Oct 15:00	3.33	136.9	41.19	16.34	409.5
19-Oct 15:30	7.45	202.2	39.77	16.45	474.9
19-Oct 16:00	2.34	206.3	39.99	16.59	392.1
19-Oct 16:30	6.99	187.9	40.62	16.32	206.5
19-Oct 17:00	3.24	171.8	41.85	16.16	154.2
19-Oct 17:30	5.66	173.3	44.54	15.24	50.1
19-Oct 18:00	2.91	183.9	46.42	14.71	17.3
19-Oct 18:30	2.81	165.9	49.51	13.97	0.2
19-Oct 19:00	0.66	158.8	55.89	12.80	-0.1
19-Oct 19:30	0.00	0.0	73.71	11.99	-0.2
19-Oct 20:00	0.34	201.1	60.01	11.68	-0.2
19-Oct 20:30	0.00	0.0	75.54	10.83	-0.1
19-Oct 21:00	0.63	8.4	82.21	9.79	-0.2
19-Oct 21:30	2.07	7.6	85.98	9.63	-0.2
19-Oct 22:00	1.21	30.5	82.38	8.94	-0.1
19-Oct 22:30	3.27	47.2	91.39	8.71	-0.1
19-Oct 23:00	2.45	32.5	90.22	8.26	-0.2
19-Oct 23:30	3.55	21.9	95.06	7.90	-0.2
20-Oct 0:00	3.97	49.0	97.45	7.63	-0.2
20-Oct 0:30	4.08	41.3	98.92	7.44	-0.2
20-Oct 1:00	3.52	14.3	99.36	7.35	-0.1
20-Oct 1:30	4.00	30.0	97.31	7.39	-0.2
20-Oct 2:00	3.55	34.0	98.60	7.45	-0.1
20-Oct 2:30	2.46	16.1	97.70	7.54	-0.2
20-Oct 3:00	2.41	44.2	98.52	7.59	-0.2
20-Oct 3:30	2.73	37.0	98.13	7.48	-0.2
20-Oct 4:00	3.27	46.7	99.07	7.33	-0.2
20-Oct 4:30	0.00	0.0	102.83	6.24	-0.2
20-Oct 5:00	2.27	217.0	100.58	5.82	-0.2
20-Oct 5:30	2.85	196.4	98.88	6.05	-0.2
20-Oct 6:00	2.61	201.7	102.61	5.24	-0.2
20-Oct 6:30	2.71	210.3	105.30	5.00	-0.2
20-Oct 7:00	3.08	196.1	105.00	5.00	0.2

20-Oct 7:30	2.37	216.6	104.97	4.95	9.9
20-Oct 8:00	0.00	0.0	102.49	5.57	103.5
20-Oct 8:30	1.92	171.6	97.96	6.59	133.3
20-Oct 9:00	1.81	182.8	91.97	7.95	200.8
20-Oct 9:30	3.10	153.5	88.36	9.36	291.1
20-Oct 10:00	0.24	126.9	71.59	12.76	435.7
20-Oct 10:30	1.62	125.6	71.59	13.22	458.4
20-Oct 11:00	5.02	159.8	63.83	14.63	548.8
20-Oct 11:30	4.24	166.0	54.05	16.90	610.3
20-Oct 12:00	6.22	248.5	43.89	18.97	669.7
20-Oct 12:30	3.88	172.4	40.03	19.89	696.6
20-Oct 13:00	9.98	274.1	38.74	19.50	728.7
20-Oct 13:30	11.22	233.1	39.89	19.37	752.1
20-Oct 14:00	7.98	225.7	38.13	20.16	691.7
20-Oct 14:30	7.44	265.9	37.22	20.08	669.2
20-Oct 15:00	6.10	182.5	34.84	20.48	615.8
20-Oct 15:30	1.85	254.3	34.68	20.79	552.4
20-Oct 16:00	5.05	232.0	34.65	20.54	510.0
20-Oct 16:30	3.86	270.8	34.47	20.14	341.1
20-Oct 17:00	8.21	232.8	34.84	19.79	238.3
20-Oct 17:30	5.06	224.6	36.79	19.20	111.4
20-Oct 18:00	0.00	0.0	43.70	18.12	20.8
20-Oct 18:30	1.75	289.1	46.20	16.58	0.3
20-Oct 19:00	2.72	37.9	73.70	14.34	-0.1
20-Oct 19:30	3.28	42.7	74.03	13.28	-0.1
20-Oct 20:00	2.85	57.5	81.10	12.40	-0.1
20-Oct 20:30	3.87	49.5	76.77	11.68	-0.2
20-Oct 21:00	1.61	356.3	82.62	10.71	-0.1
20-Oct 21:30	2.03	35.1	84.79	10.16	-0.1
20-Oct 22:00	2.23	319.6	86.19	9.30	-0.2
20-Oct 22:30	0.67	40.0	93.75	8.88	-0.2
20-Oct 23:00	1.58	326.8	94.15	8.57	-0.1
20-Oct 23:30	1.57	294.7	94.78	7.54	-0.2
21-Oct 0:00	0.86	3.4	100.03	7.49	-0.2
21-Oct 0:30	2.19	307.5	99.12	7.04	-0.1
21-Oct 1:00	1.88	315.6	100.56	6.64	-0.2
21-Oct 1:30	0.00	0.0	102.92	6.55	-0.1
21-Oct 2:00	3.34	268.6	100.73	6.08	-0.2
21-Oct 2:30	2.49	193.8	101.15	6.15	-0.2
21-Oct 3:00	0.00	0.0	103.22	5.94	-0.2
21-Oct 3:30	2.80	236.7	104.72	5.22	-0.1
21-Oct 4:00	1.40	235.9	105.19	5.30	-0.1
21-Oct 4:30	2.35	239.8	103.87	5.29	-0.2
21-Oct 5:00	0.00	0.0	106.69	5.17	-0.2
21-Oct 5:30	0.00	0.0	106.86	4.92	-0.2
21-Oct 6:00	1.73	310.1	109.38	5.14	-0.2
21-Oct 6:30	1.85	295.5	109.55	5.00	-0.2
21-Oct 7:00	2.51	213.4	110.00	4.15	0.2
21-Oct 7:30	2.00	223.6	110.26	3.86	5.1
21-Oct 8:00	2.35	207.8	110.19	3.90	32.1

21-Oct 8:30	1.15	197.4	109.95	4.43	95.8
21-Oct 9:00	1.57	178.3	108.52	5.60	242.0
21-Oct 9:30	0.50	136.2	97.63	8.16	307.5
21-Oct 10:00	2.29	166.5	93.17	9.01	395.9
21-Oct 10:30	2.46	112.6	79.62	11.71	483.1
21-Oct 11:00	0.00	0.0	66.47	15.38	552.3
21-Oct 11:30	0.73	97.1	68.74	16.85	610.2
21-Oct 12:00	0.00	0.0	50.86	19.52	659.1
21-Oct 12:30	1.65	149.8	41.96	22.35	688.5
21-Oct 13:00	4.47	145.5	40.07	22.54	698.1
21-Oct 13:30	5.70	210.1	38.92	22.78	692.5
21-Oct 14:00	6.27	177.0	35.07	23.01	667.6
21-Oct 14:30	3.83	137.2	34.67	23.91	635.6
21-Oct 15:00	8.67	196.8	36.39	23.47	571.2
21-Oct 15:30	9.62	205.3	35.66	23.78	495.3
21-Oct 16:00	8.62	207.9	37.39	23.39	411.4
21-Oct 16:30	2.99	188.2	37.73	23.52	317.7
21-Oct 17:00	5.54	192.7	38.28	23.22	213.1
21-Oct 17:30	4.07	160.1	40.14	22.41	107.9
21-Oct 18:00	1.66	177.7	42.92	21.21	14.1
21-Oct 18:30	3.17	188.7	46.78	20.08	0.0
21-Oct 19:00	3.80	190.8	48.70	19.65	-0.1
21-Oct 19:30	2.34	157.2	57.17	17.85	-0.1
21-Oct 20:00	6.66	204.9	56.77	17.96	-0.1
21-Oct 20:30	5.11	197.8	59.54	17.87	-0.1
21-Oct 21:00	0.08	205.1	66.61	17.64	-0.1
21-Oct 21:30	2.31	213.9	74.33	17.52	-0.1
21-Oct 22:00	0.19	60.6	86.13	15.89	-0.1
21-Oct 22:30	0.00	0.0	91.49	15.08	-0.1
21-Oct 23:00	0.22	207.0	86.26	16.03	-0.1
21-Oct 23:30	0.00	0.0	89.03	15.80	-0.1
22-Oct 0:00	1.89	232.3	92.75	15.56	-0.1
22-Oct 0:30	3.26	199.7	96.46	13.88	-0.1
22-Oct 1:00	3.74	201.3	96.98	13.49	-0.2
22-Oct 1:30	3.03	222.4	101.98	12.33	-0.1
22-Oct 2:00	3.57	209.4	102.22	11.78	-0.1
22-Oct 2:30	0.00	0.0	104.84	11.79	-0.1
22-Oct 3:00	0.00	0.0	103.62	12.04	-0.1
22-Oct 3:30	2.89	98.0	105.31	12.47	-0.1
22-Oct 4:00	3.17	280.2	102.98	12.51	-0.1
22-Oct 4:30	3.78	182.7	108.31	11.21	-0.2
22-Oct 5:00	1.15	256.1	108.33	11.23	-0.2
22-Oct 5:30	0.00	0.0	108.76	11.04	-0.2
22-Oct 6:00	2.61	198.3	109.01	10.42	-0.2
22-Oct 6:30	1.02	19.5	109.75	10.56	-0.1
22-Oct 7:00	0.00	0.0	109.63	9.83	0.2
22-Oct 7:30	2.36	44.5	110.13	10.88	9.1
22-Oct 8:00	3.37	179.3	110.06	9.59	50.3
22-Oct 8:30	2.39	167.8	110.13	9.24	74.4
22-Oct 9:00	0.00	0.0	109.55	12.19	202.6

22-Oct 9:30	1.14	37.2	96.60	14.19	308.6
22-Oct 10:00	2.27	194.0	94.32	14.31	324.0
22-Oct 10:30	1.29	158.9	93.37	14.63	90.9
22-Oct 11:00	1.19	311.5	80.60	16.49	339.8
22-Oct 11:30	2.17	220.5	79.62	16.49	378.0
22-Oct 12:00	2.30	314.4	70.35	18.21	595.0
22-Oct 12:30	2.32	242.5	69.45	18.44	244.6
22-Oct 13:00	0.97	351.0	60.89	20.39	666.6
22-Oct 13:30	3.88	187.5	61.56	20.14	235.6
22-Oct 14:00	4.16	140.6	60.97	20.25	187.3
22-Oct 14:30	2.49	200.8	62.58	20.22	74.4
22-Oct 15:00	9.35	315.4	58.60	18.85	37.1
22-Oct 15:30	14.50	324.3	68.24	17.06	122.6
22-Oct 16:00	5.37	26.0	74.20	16.50	96.2
22-Oct 16:30	5.10	33.8	70.68	16.49	58.3
22-Oct 17:00	5.77	337.5	72.74	16.12	43.2
22-Oct 17:30	2.79	15.1	75.21	15.93	30.2
22-Oct 18:00	5.40	333.0	75.28	15.69	3.9
22-Oct 18:30	0.19	91.8	80.47	15.34	-0.1
22-Oct 19:00	2.57	24.1	81.14	15.20	-0.1
22-Oct 19:30	3.51	11.4	82.17	14.97	-0.1
22-Oct 20:00	4.94	30.8	83.91	14.68	-0.1
22-Oct 20:30	5.72	38.4	82.90	14.27	-0.1
22-Oct 21:00	3.54	38.6	84.17	14.07	-0.1
22-Oct 21:30	4.21	34.0	83.74	13.90	-0.1
22-Oct 22:00	4.51	24.3	87.03	13.55	-0.1
22-Oct 22:30	4.28	30.4	87.83	13.34	-0.1
22-Oct 23:00	4.33	27.1	87.22	13.05	-0.1
22-Oct 23:30	5.73	1.4	86.37	12.69	-0.1
23-Oct 0:00	3.18	23.1	89.34	12.35	-0.1
23-Oct 0:30	4.84	25.7	90.71	12.19	-0.1
23-Oct 1:00	3.44	13.7	91.83	12.25	-0.1
23-Oct 1:30	4.19	37.8	88.09	12.30	-0.1
23-Oct 2:00	4.14	39.7	90.00	12.29	-0.1
23-Oct 2:30	6.20	35.4	89.31	11.92	-0.1
23-Oct 3:00	6.16	28.0	89.05	11.74	-0.1
23-Oct 3:30	6.75	24.9	90.13	11.63	-0.1
23-Oct 4:00	5.29	29.3	88.22	11.72	-0.1
23-Oct 4:30	6.72	28.8	85.95	11.72	-0.1
23-Oct 5:00	4.17	20.6	88.21	11.50	-0.1
23-Oct 5:30	4.71	36.6	88.26	11.18	-0.1
23-Oct 6:00	4.38	21.6	90.93	10.99	-0.1
23-Oct 6:30	3.99	36.4	93.87	10.79	-0.2
23-Oct 7:00	4.16	32.1	94.73	10.30	0.2
23-Oct 7:30	4.62	26.4	98.65	9.99	13.3
23-Oct 8:00	3.16	39.9	98.64	10.12	46.8
23-Oct 8:30	4.06	38.3	91.32	10.58	52.5
23-Oct 9:00	4.86	36.4	84.31	11.13	99.6
23-Oct 9:30	5.23	49.7	82.59	11.65	97.7
23-Oct 10:00	3.86	42.6	77.44	12.44	147.9

23-Oct 10:30	4.72	104.3	80.04	13.90	297.8
23-Oct 11:00	5.48	45.2	80.44	14.62	302.4
23-Oct 11:30	6.09	68.8	82.26	14.59	310.1
23-Oct 12:00	5.30	43.0	83.35	15.18	233.2
23-Oct 12:30	4.89	103.0	84.53	15.94	174.3
23-Oct 13:00	3.40	39.5	85.10	16.06	79.2
23-Oct 13:30	3.06	27.9	85.19	16.29	91.7
23-Oct 14:00	1.85	16.5	85.31	16.70	80.0
23-Oct 14:30	4.37	354.1	81.77	17.72	224.9
23-Oct 15:00	6.85	338.8	75.39	19.64	468.2
23-Oct 15:30	1.98	55.1	75.28	20.24	86.3
23-Oct 16:00	0.00	0.0	72.94	21.00	168.9
23-Oct 16:30	6.95	169.8	71.47	21.14	71.0
23-Oct 17:00	3.80	197.6	72.54	21.05	53.4
23-Oct 17:30	1.17	169.0	72.49	21.08	22.1
23-Oct 18:00	4.91	140.6	75.22	20.75	2.3
23-Oct 18:30	3.31	183.5	77.44	20.77	-0.1
23-Oct 19:00	2.32	73.2	81.00	20.34	-0.1
23-Oct 19:30	4.49	173.0	83.93	20.19	-0.1
23-Oct 20:00	0.00	0.0	85.29	20.04	-0.1
23-Oct 20:30	5.33	143.9	86.60	20.02	-0.1
23-Oct 21:00	7.11	165.4	87.47	19.86	-0.1
23-Oct 21:30	2.55	131.7	89.80	19.48	-0.1
23-Oct 22:00	4.70	120.3	91.83	19.16	-0.2
23-Oct 22:30	3.51	90.3	93.47	18.94	-0.1
23-Oct 23:00	2.70	283.2	93.32	18.89	-0.2
23-Oct 23:30	1.47	121.6	94.55	18.62	-0.2
24-Oct 0:00	2.43	115.2	95.45	18.44	-0.1
24-Oct 0:30	0.00	0.0	94.90	18.40	-0.1
24-Oct 1:00	2.66	296.9	98.91	17.74	-0.1
24-Oct 1:30	2.63	239.7	99.32	17.67	-0.1
24-Oct 2:00	1.93	277.9	80.16	18.45	-0.1
24-Oct 2:30	2.19	274.9	81.49	18.00	-0.2
24-Oct 3:00	0.00	0.0	81.02	17.79	-0.1
24-Oct 3:30	2.03	57.4	89.04	16.76	-0.2
24-Oct 4:00	0.00	0.0	87.39	16.62	-0.1
24-Oct 4:30	0.00	0.0	95.75	15.64	-0.1
24-Oct 5:00	0.00	0.0	100.22	15.22	-0.2
24-Oct 5:30	0.00	0.0	100.04	14.96	-0.2
24-Oct 6:00	0.00	0.0	101.40	14.47	-0.1
24-Oct 6:30	2.46	179.0	104.35	13.77	-0.1
24-Oct 7:00	0.00	0.0	104.34	13.43	0.0
24-Oct 7:30	1.75	49.4	107.06	13.47	7.2
24-Oct 8:00	2.78	3.9	105.59	13.44	25.6
24-Oct 8:30	1.55	25.8	95.02	15.22	166.5
24-Oct 9:00	0.00	0.0	80.63	17.93	247.1
24-Oct 9:30	2.36	89.5	92.96	16.07	135.3
24-Oct 10:00	1.95	115.0	89.57	16.09	127.0
24-Oct 10:30	0.80	43.1	75.23	19.26	353.7
24-Oct 11:00	0.89	102.0	74.34	19.47	500.5

24-Oct 11:30	1.52	70.3	73.66	21.10	573.5
24-Oct 12:00	0.13	57.7	63.58	23.64	579.7
24-Oct 12:30	1.81	151.9	61.87	23.83	634.4
24-Oct 13:00	3.94	157.6	61.03	24.04	649.4
24-Oct 13:30	6.23	131.9	58.25	24.55	615.2
24-Oct 14:00	6.79	138.0	54.05	24.99	608.5
24-Oct 14:30	4.86	206.3	51.35	25.76	562.4
24-Oct 15:00	8.19	194.2	52.91	25.47	537.3
24-Oct 15:30	1.97	142.9	52.36	25.72	368.3
24-Oct 16:00	2.51	161.1	52.56	25.72	318.7
24-Oct 16:30	5.21	221.4	54.42	25.16	281.9
24-Oct 17:00	2.81	132.8	55.33	25.03	66.7
24-Oct 17:30	2.18	133.5	59.17	24.38	89.5
24-Oct 18:00	0.00	0.0	69.45	22.56	9.7
24-Oct 18:30	0.78	36.9	75.57	20.94	-0.1
24-Oct 19:00	2.26	56.9	88.57	18.91	-0.1
24-Oct 19:30	4.39	39.7	88.17	18.59	-0.2
24-Oct 20:00	1.86	38.2	92.86	17.80	-0.2
24-Oct 20:30	3.90	32.0	94.53	17.52	-0.1
24-Oct 21:00	1.72	290.8	95.62	17.11	-0.1
24-Oct 21:30	5.09	34.2	95.11	16.93	-0.2
24-Oct 22:00	5.07	8.0	100.15	16.08	-0.2
24-Oct 22:30	3.41	16.2	98.45	15.85	-0.1
24-Oct 23:00	3.97	30.0	100.10	15.81	-0.1
24-Oct 23:30	4.87	50.8	98.74	15.64	-0.1
25-Oct 0:00	4.97	39.0	101.23	15.34	-0.1
25-Oct 0:30	6.32	39.2	99.92	15.08	-0.1
25-Oct 1:00	4.75	32.2	100.51	14.89	-0.1
25-Oct 1:30	4.87	30.4	103.43	14.51	-0.2
25-Oct 2:00	5.93	23.7	102.71	14.29	-0.2
25-Oct 2:30	6.31	32.6	104.99	13.98	-0.2
25-Oct 3:00	4.03	43.5	104.83	14.22	-0.2
25-Oct 3:30	5.94	330.9	104.97	14.26	-0.1
25-Oct 4:00	3.06	40.2	105.52	14.18	-0.1
25-Oct 4:30	1.11	65.8	105.97	14.38	-0.2
25-Oct 5:00	1.50	16.8	105.67	14.44	-0.2
25-Oct 5:30	3.80	53.8	105.71	14.06	-0.2
25-Oct 6:00	2.15	23.7	106.56	13.87	-0.2
25-Oct 6:30	2.45	31.3	107.17	13.69	-0.2
25-Oct 7:00	3.02	339.7	107.38	13.58	0.0
25-Oct 7:30	2.43	35.9	107.48	13.68	11.3
25-Oct 8:00	2.40	312.1	105.77	14.10	75.1
25-Oct 8:30	2.97	189.7	93.21	17.12	226.5
25-Oct 9:00	4.87	209.9	91.09	17.32	60.0
25-Oct 9:30	2.07	194.9	89.12	17.60	116.0
25-Oct 10:00	7.30	197.3	64.69	21.04	405.2
25-Oct 10:30	10.78	231.2	63.11	19.16	156.2
25-Oct 11:00	17.34	205.6	44.13	19.85	251.1
25-Oct 11:30	8.26	214.1	39.67	20.15	156.3
25-Oct 12:00	16.25	230.7	27.74	20.16	502.4

25-Oct 12:30	16.04	213.9	24.90	20.45	716.8
25-Oct 13:00	16.33	228.5	21.69	20.59	725.2
25-Oct 13:30	20.35	243.2	19.91	19.89	716.0
25-Oct 14:00	16.67	223.6	23.21	19.69	682.6
25-Oct 14:30	15.57	240.7	24.27	19.45	645.5
25-Oct 15:00	18.02	228.6	24.29	19.70	591.8
25-Oct 15:30	17.18	234.7	23.18	19.61	521.3
25-Oct 16:00	22.65	234.9	23.50	19.32	441.5
25-Oct 16:30	12.93	213.4	21.34	19.37	352.3
25-Oct 17:00	8.63	235.4	22.90	18.89	240.1
25-Oct 17:30	10.36	230.0	23.76	17.63	123.9
25-Oct 18:00	8.51	224.4	25.41	16.60	7.9
25-Oct 18:30	9.29	222.3	27.50	15.78	0.0
25-Oct 19:00	8.48	201.8	24.64	15.73	0.0
25-Oct 19:30	7.74	205.3	25.96	14.82	-0.1
25-Oct 20:00	2.57	179.1	28.79	13.99	-0.1
25-Oct 20:30	3.51	204.5	28.90	13.43	0.0
25-Oct 21:00	4.14	206.0	31.67	12.37	-0.1
25-Oct 21:30	5.49	206.8	31.45	12.24	-0.1
25-Oct 22:00	7.57	231.9	27.43	13.20	-0.1
25-Oct 22:30	4.27	174.3	29.51	12.55	-0.1
25-Oct 23:00	2.29	214.6	31.78	11.73	-0.1
25-Oct 23:30	4.53	211.5	33.63	10.90	-0.1
26-Oct 0:00	2.17	156.4	39.59	10.14	-0.1
26-Oct 0:30	2.55	151.6	40.16	9.72	-0.2
26-Oct 1:00	3.83	140.5	42.13	8.68	-0.1
26-Oct 1:30	3.02	204.1	45.80	8.59	-0.1
26-Oct 2:00	4.39	165.4	41.53	9.59	-0.1
26-Oct 2:30	9.00	212.6	36.31	10.51	-0.2
26-Oct 3:00	16.91	221.0	31.22	10.70	-0.1
26-Oct 3:30	14.04	207.0	32.35	10.17	-0.1
26-Oct 4:00	7.63	231.4	34.20	9.88	-0.2
26-Oct 4:30	14.47	221.2	34.22	9.80	-0.1
26-Oct 5:00	6.96	211.5	36.24	9.47	-0.1
26-Oct 5:30	7.05	205.1	38.05	8.97	-0.2
26-Oct 6:00	4.86	195.9	39.88	8.66	-0.2
26-Oct 6:30	4.59	203.3	40.42	8.72	-0.2
26-Oct 7:00	3.10	188.7	42.34	8.29	0.1
26-Oct 7:30	3.09	184.1	44.35	7.84	8.4
26-Oct 8:00	3.23	181.1	46.17	7.57	22.7
26-Oct 8:30	3.92	206.0	41.59	8.76	138.2
26-Oct 9:00	8.62	177.5	38.56	9.31	223.6
26-Oct 9:30	15.07	206.0	37.32	9.40	314.5
26-Oct 10:00	19.01	232.6	35.06	9.69	408.7
26-Oct 10:30	13.52	233.9	35.72	9.55	465.9
26-Oct 11:00	15.19	220.3	34.50	10.26	258.7
26-Oct 11:30	15.36	195.4	31.90	10.25	670.3
26-Oct 12:00	11.23	191.4	32.87	10.67	711.3
26-Oct 12:30	13.35	204.4	32.50	10.52	721.9
26-Oct 13:00	9.20	205.8	35.08	9.50	258.6

26-Oct 13:30	17.85	221.0	33.88	9.75	849.4
26-Oct 14:00	14.24	244.4	38.63	9.13	261.4
26-Oct 14:30	11.50	218.6	42.95	9.08	629.7
26-Oct 15:00	10.70	207.2	41.77	9.23	153.7
26-Oct 15:30	16.07	230.2	46.53	8.60	524.2
26-Oct 16:00	11.68	219.6	45.29	8.84	311.4
26-Oct 16:30	8.45	224.5	42.38	8.60	81.0
26-Oct 17:00	12.96	209.6	43.07	8.21	72.3
26-Oct 17:30	13.75	227.1	43.22	8.13	48.1
26-Oct 18:00	11.62	223.0	49.96	7.00	5.5
26-Oct 18:30	9.05	219.7	51.19	6.60	-0.1
26-Oct 19:00	10.20	255.4	51.27	6.50	-0.1
26-Oct 19:30	11.83	205.2	54.57	5.92	-0.2
26-Oct 20:00	11.05	224.9	56.78	5.54	-0.2
26-Oct 20:30	13.32	225.8	58.41	5.15	-0.2
26-Oct 21:00	6.29	198.2	60.71	4.77	-0.2
26-Oct 21:30	4.33	194.0	61.77	4.75	-0.2
26-Oct 22:00	10.18	241.7	62.18	4.73	-0.2
26-Oct 22:30	5.31	191.6	63.58	4.54	-0.2
26-Oct 23:00	8.35	233.1	63.15	4.58	-0.1
26-Oct 23:30	9.31	219.4	65.51	4.47	-0.1
27-Oct 0:00	9.78	215.5	66.48	4.38	-0.2
27-Oct 0:30	6.35	218.7	68.58	4.27	-0.2
27-Oct 1:00	12.81	220.1	67.86	4.37	-0.2
27-Oct 1:30	6.45	232.5	67.46	4.61	-0.2
27-Oct 2:00	10.97	218.4	67.10	4.70	-0.2
27-Oct 2:30	12.56	225.3	69.25	4.55	-0.2
27-Oct 3:00	9.63	226.0	70.76	4.45	-0.2
27-Oct 3:30	8.38	225.0	71.91	4.42	-0.2
27-Oct 4:00	3.93	222.4	73.39	4.31	-0.2
27-Oct 4:30	9.81	220.7	73.78	4.14	-0.2
27-Oct 5:00	4.66	253.9	76.32	3.90	-0.2
27-Oct 5:30	7.60	198.6	76.61	3.79	-0.2
27-Oct 6:00	4.55	207.0	77.82	3.61	-0.2
27-Oct 6:30	4.93	194.2	78.41	3.55	-0.2
27-Oct 7:00	7.56	206.5	76.93	3.78	0.0
27-Oct 7:30	8.44	233.5	77.56	4.03	5.1
27-Oct 8:00	6.44	212.5	75.14	4.30	22.7
27-Oct 8:30	8.51	208.9	69.39	5.51	211.3
27-Oct 9:00	8.07	251.9	68.22	5.73	123.0
27-Oct 9:30	10.45	247.5	64.79	6.23	175.3
27-Oct 10:00	8.57	225.1	63.21	6.74	156.0
27-Oct 10:30	4.27	261.1	63.22	6.57	150.8
27-Oct 11:00	2.93	276.4	61.52	6.60	132.2
27-Oct 11:30	8.07	328.6	66.03	6.66	172.8
27-Oct 12:00	9.34	225.8	64.53	5.66	159.8
27-Oct 12:30	10.12	307.5	53.88	6.67	164.6
27-Oct 13:00	9.28	320.6	40.24	8.58	271.2
27-Oct 13:30	6.54	308.2	46.34	7.75	146.8
27-Oct 14:00	11.80	291.5	42.71	7.96	125.7

27-Oct 14:30	10.42	309.7	46.49	7.37	170.7
27-Oct 15:00	12.82	300.7	45.93	7.30	95.1
27-Oct 15:30	4.94	242.8	45.63	7.38	72.4
27-Oct 16:00	5.43	255.2	46.63	7.30	34.2
27-Oct 16:30	8.15	256.2	48.46	7.24	46.0
27-Oct 17:00	10.97	291.9	49.20	7.00	17.8
27-Oct 17:30	6.50	300.3	49.68	6.72	23.6
27-Oct 18:00	8.47	289.6	49.77	6.41	1.7
27-Oct 18:30	12.64	295.2	48.10	6.37	-0.1
27-Oct 19:00	5.79	280.0	50.95	5.98	-0.1
27-Oct 19:30	5.16	282.2	54.29	5.80	-0.2
27-Oct 20:00	9.14	279.8	56.34	5.53	-0.1
27-Oct 20:30	6.78	292.8	58.06	5.32	-0.2
27-Oct 21:00	8.33	283.1	57.26	5.21	-0.1
27-Oct 21:30	10.75	308.2	58.22	4.96	-0.2
27-Oct 22:00	9.28	306.5	60.31	4.70	-0.1
27-Oct 22:30	4.70	284.5	63.85	4.45	-0.1
27-Oct 23:00	4.27	279.3	63.40	4.26	-0.2
27-Oct 23:30	5.61	229.7	64.27	4.27	-0.2
28-Oct 0:00	10.12	318.1	66.85	4.38	-0.2
28-Oct 0:30	7.91	255.2	68.51	4.09	-0.2
28-Oct 1:00	4.51	303.2	71.87	3.79	-0.2
28-Oct 1:30	5.12	295.3	75.64	3.49	-0.2
28-Oct 2:00	4.65	263.8	76.02	3.33	-0.2
28-Oct 2:30	9.04	309.3	77.84	2.95	-0.1
28-Oct 3:00	3.07	295.0	79.85	2.81	-0.2
28-Oct 3:30	0.68	1.3	80.15	3.00	-0.2
28-Oct 4:00	2.37	262.9	76.53	3.17	-0.2
28-Oct 4:30	2.72	282.8	76.04	3.13	-0.2
28-Oct 5:00	4.42	316.1	77.19	3.36	-0.2
28-Oct 5:30	3.79	296.3	76.15	3.09	-0.2
28-Oct 6:00	3.45	333.0	75.49	3.09	-0.2
28-Oct 6:30	4.42	295.1	75.68	2.88	-0.2
28-Oct 7:00	9.18	317.4	77.33	3.09	0.0
28-Oct 7:30	3.37	301.2	74.85	2.81	6.7
28-Oct 8:00	2.23	60.4	77.67	2.58	17.6
28-Oct 8:30	3.53	325.2	70.70	4.13	131.6
28-Oct 9:00	6.09	321.2	65.00	5.45	222.6
28-Oct 9:30	15.34	298.9	57.12	5.17	331.7
28-Oct 10:00	26.78	313.0	50.62	5.48	525.1
28-Oct 10:30	10.00	286.7	54.05	5.73	419.9
28-Oct 11:00	14.60	297.1	56.48	5.62	204.1
28-Oct 11:30	14.46	295.9	50.53	6.45	313.6
28-Oct 12:00	15.10	318.2	55.11	6.24	308.6
28-Oct 12:30	20.70	317.2	51.63	6.35	564.1
28-Oct 13:00	12.65	309.4	50.36	7.07	218.7
28-Oct 13:30	2.81	280.0	45.37	7.48	769.6
28-Oct 14:00	13.82	292.5	44.14	8.15	706.0
28-Oct 14:30	6.77	310.3	44.46	7.97	647.3
28-Oct 15:00	2.73	291.2	41.69	8.32	589.1

28-Oct 15:30	8.12	284.0	40.98	8.82	517.7
28-Oct 16:00	2.13	282.4	41.82	8.83	434.9
28-Oct 16:30	10.86	282.3	40.74	8.73	338.4
28-Oct 17:00	12.08	309.6	44.05	8.12	230.4
28-Oct 17:30	6.40	331.2	48.06	7.68	117.0
28-Oct 18:00	5.47	317.3	49.79	6.55	4.8
28-Oct 18:30	4.03	36.9	52.58	6.28	-0.1
28-Oct 19:00	3.72	18.4	53.57	5.71	-0.2
28-Oct 19:30	6.07	344.1	62.20	4.66	-0.2
28-Oct 20:00	3.04	200.1	68.64	2.88	-0.2
28-Oct 20:30	0.00	0.0	72.16	1.73	-0.2
28-Oct 21:00	2.43	212.2	71.38	1.86	-0.2
28-Oct 21:30	2.90	179.5	75.50	0.99	-0.2
28-Oct 22:00	2.21	182.8	75.53	0.85	-0.2
28-Oct 22:30	2.83	202.4	83.59	-0.37	-0.2
28-Oct 23:00	2.84	242.4	83.99	-0.49	-0.2
28-Oct 23:30	2.00	191.3	89.32	-1.21	-0.2
29-Oct 0:00	1.62	237.6	88.38	-0.85	-0.2
29-Oct 0:30	1.63	210.2	88.66	-0.92	-0.2
29-Oct 1:00	2.73	224.8	94.70	-1.73	-0.2
29-Oct 1:30	1.87	200.6	101.00	-2.57	-0.2
29-Oct 2:00	0.00	0.0	97.40	-2.03	-0.2
29-Oct 2:30	2.56	211.4	96.62	-1.95	-0.2
29-Oct 3:00	1.62	228.3	100.89	-2.76	-0.2
29-Oct 3:30	2.30	219.2	101.72	-2.99	-0.2
29-Oct 4:00	3.07	246.2	99.02	-2.58	-0.2
29-Oct 4:30	2.35	200.5	105.91	-3.58	-0.2
29-Oct 5:00	0.84	217.3	107.86	-3.67	-0.2
29-Oct 5:30	0.20	210.7	108.24	-3.92	-0.2
29-Oct 6:00	0.72	262.8	106.77	-3.79	-0.2
29-Oct 6:30	2.27	235.7	105.19	-3.47	-0.2
29-Oct 7:00	1.31	213.5	104.90	-3.96	-0.1
29-Oct 7:30	2.16	230.4	104.63	-4.03	6.1
29-Oct 8:00	0.00	0.0	106.63	-4.07	17.2
29-Oct 8:30	0.00	0.0	92.90	-1.60	135.8
29-Oct 9:00	1.62	169.1	88.89	-0.62	231.8
29-Oct 9:30	1.56	215.0	82.48	1.12	300.1
29-Oct 10:00	1.98	167.5	74.72	2.84	386.5
29-Oct 10:30	3.71	196.2	69.75	4.23	466.5
29-Oct 11:00	2.18	131.7	63.44	6.42	539.4
29-Oct 11:30	2.98	145.5	53.85	8.56	596.6
29-Oct 12:00	1.59	98.6	48.78	10.07	637.4
29-Oct 12:30	3.37	162.8	44.19	11.19	660.2
29-Oct 13:00	4.60	142.5	38.72	12.36	670.9
29-Oct 13:30	3.64	140.9	35.22	13.45	668.4
29-Oct 14:00	7.26	174.3	31.64	14.72	637.6
29-Oct 14:30	4.34	201.8	27.67	15.77	605.9
29-Oct 15:00	3.15	142.3	28.49	15.51	552.2
29-Oct 15:30	4.92	146.6	27.29	15.97	478.4
29-Oct 16:00	6.65	152.6	27.12	16.08	391.5

29-Oct 16:30	4.01	194.8	26.77	16.11	290.7
29-Oct 17:00	2.53	190.5	27.24	15.88	179.2
29-Oct 17:30	4.72	189.4	30.00	14.71	66.8
29-Oct 18:00	3.33	205.1	32.22	13.41	3.2
29-Oct 18:30	5.02	185.5	34.63	12.45	-0.2
29-Oct 19:00	5.67	192.4	37.54	12.48	-0.1
29-Oct 19:30	1.88	203.4	39.47	12.17	-0.1
29-Oct 20:00	3.27	212.2	39.87	11.93	-0.2
29-Oct 20:30	1.52	181.6	41.71	11.76	-0.1
29-Oct 21:00	1.92	229.1	43.04	11.40	-0.2
29-Oct 21:30	1.36	170.6	48.82	10.59	-0.2
29-Oct 22:00	0.41	186.2	57.99	9.49	-0.2
29-Oct 22:30	1.38	251.8	54.94	8.75	-0.1
29-Oct 23:00	1.49	250.2	58.69	8.27	-0.1
29-Oct 23:30	2.24	254.5	56.76	8.34	-0.1
30-Oct 0:00	0.00	0.0	55.78	7.91	-0.2
30-Oct 0:30	3.28	302.7	62.93	8.17	-0.1
30-Oct 1:00	0.00	0.0	58.95	8.43	-0.2
30-Oct 1:30	2.08	357.0	74.55	9.06	-0.2
30-Oct 2:00	0.78	360.0	49.23	10.47	-0.1
30-Oct 2:30	2.50	275.2	39.35	11.39	-0.2
30-Oct 3:00	3.05	317.5	42.63	10.71	-0.2
30-Oct 3:30	4.66	291.0	42.62	10.43	-0.1
30-Oct 4:00	1.91	341.7	56.09	9.28	-0.2
30-Oct 4:30	2.07	293.6	53.62	8.18	-0.2
30-Oct 5:00	1.87	49.0	69.81	8.69	-0.2
30-Oct 5:30	4.20	308.1	63.65	8.27	-0.2
30-Oct 6:00	1.24	306.4	65.39	7.35	-0.2
30-Oct 6:30	2.45	54.3	79.50	7.13	-0.2
30-Oct 7:00	0.12	48.9	84.88	6.98	-0.1
30-Oct 7:30	1.87	355.7	82.11	6.00	6.1
30-Oct 8:00	0.00	0.0	82.83	6.52	35.8
30-Oct 8:30	2.42	313.2	72.77	8.94	103.3
30-Oct 9:00	2.61	154.9	69.39	9.87	208.1
30-Oct 9:30	1.56	111.6	65.45	11.26	295.0
30-Oct 10:00	7.59	356.5	63.39	10.88	112.6
30-Oct 10:30	10.76	323.0	62.87	10.80	115.3
30-Oct 11:00	12.44	344.7	56.20	11.49	132.4
30-Oct 11:30	12.66	322.4	45.60	12.63	591.4
30-Oct 12:00	5.97	318.5	43.88	13.16	629.2
30-Oct 12:30	6.42	346.0	32.94	13.82	675.3
30-Oct 13:00	12.50	276.9	38.59	14.10	677.9
30-Oct 13:30	8.21	285.9	32.13	13.85	673.8
30-Oct 14:00	5.52	304.6	32.03	14.57	637.6
30-Oct 14:30	6.17	308.9	30.10	14.38	624.0
30-Oct 15:00	6.58	296.5	29.14	14.80	566.5
30-Oct 15:30	16.10	311.4	25.75	14.18	496.3
30-Oct 16:00	9.74	304.6	23.19	14.09	414.2
30-Oct 16:30	8.05	327.4	23.43	14.38	314.0
30-Oct 17:00	9.92	306.9	24.35	13.56	208.3

30-Oct 17:30	9.23	334.7	24.12	12.91	81.0
30-Oct 18:00	7.05	318.3	23.58	11.72	3.2
30-Oct 18:30	4.90	318.0	26.83	10.79	-0.1
30-Oct 19:00	4.25	340.8	27.20	10.42	-0.1
30-Oct 19:30	3.08	339.3	25.57	9.98	-0.1
30-Oct 20:00	10.76	326.7	27.59	9.63	-0.1
30-Oct 20:30	5.94	309.3	28.11	9.30	-0.1
30-Oct 21:00	4.82	14.8	28.94	8.97	-0.1
30-Oct 21:30	9.12	345.7	26.22	9.02	-0.1
30-Oct 22:00	3.65	340.1	28.66	8.89	-0.1
30-Oct 22:30	6.03	15.4	24.97	8.70	-0.1
30-Oct 23:00	4.47	16.4	28.95	8.50	-0.1
30-Oct 23:30	4.54	4.8	32.17	7.87	-0.1
31-Oct 0:00	3.05	28.9	33.18	7.83	-0.1
31-Oct 0:30	3.68	9.7	41.57	6.96	-0.1
31-Oct 1:00	5.24	359.2	37.48	6.40	-0.2
31-Oct 1:30	3.73	7.8	47.22	5.96	-0.1
31-Oct 2:00	3.50	351.0	55.71	5.38	-0.2
31-Oct 2:30	3.81	48.1	57.31	4.87	-0.2
31-Oct 3:00	5.05	34.8	61.69	4.31	-0.1
31-Oct 3:30	6.12	32.7	60.11	4.29	-0.2
31-Oct 4:00	7.67	21.5	55.08	4.29	-0.2
31-Oct 4:30	5.77	19.2	54.96	4.05	-0.2
31-Oct 5:00	6.03	42.3	58.75	4.25	-0.1
31-Oct 5:30	4.83	36.9	56.85	4.24	-0.2
31-Oct 6:00	6.39	15.9	57.20	4.34	-0.2
31-Oct 6:30	5.42	23.8	54.77	4.29	-0.2
31-Oct 7:00	6.47	8.0	52.88	4.18	-0.1
31-Oct 7:30	4.14	33.9	49.55	4.34	1.1
31-Oct 8:00	2.82	343.8	52.38	4.30	18.2
31-Oct 8:30	4.65	330.6	49.82	4.56	31.9
31-Oct 9:00	3.04	19.7	43.84	4.82	37.3
31-Oct 9:30	4.79	354.5	46.63	4.93	38.6
31-Oct 10:00	5.01	18.9	48.98	5.12	43.5
31-Oct 10:30	3.85	20.0	46.88	5.41	64.6
31-Oct 11:00	3.52	3.7	51.02	5.58	70.8
31-Oct 11:30	4.06	15.7	49.80	5.90	78.0
31-Oct 12:00	4.97	34.2	54.48	6.20	105.1
31-Oct 12:30	1.84	57.0	55.00	6.57	85.5
31-Oct 13:00	3.61	93.8	55.09	6.89	93.2
31-Oct 13:30	2.37	339.6	58.93	7.37	78.3
31-Oct 14:00	1.41	322.8	58.61	7.43	64.2
31-Oct 14:30	0.00	0.0	58.70	7.40	56.9
31-Oct 15:00	1.90	240.7	60.63	7.35	45.4
31-Oct 15:30	0.00	0.0	61.72	7.48	72.2
31-Oct 16:00	3.91	319.0	63.38	7.82	59.0
31-Oct 16:30	2.71	349.6	63.08	8.27	46.7
31-Oct 17:00	4.72	7.8	64.39	8.43	34.5
31-Oct 17:30	2.11	27.4	66.59	8.54	5.5
31-Oct 18:00	2.03	65.6	68.02	8.54	2.1

31-Oct 18:30	4.71	11.6	71.00	8.40	-0.2
31-Oct 19:00	4.03	55.3	73.36	8.23	-0.2
31-Oct 19:30	1.42	350.7	75.73	8.31	-0.1
31-Oct 20:00	0.87	190.9	74.26	7.89	-0.1
31-Oct 20:30	0.84	113.2	77.41	8.05	-0.2
31-Oct 21:00	2.08	61.8	75.35	8.11	-0.2
31-Oct 21:30	0.00	0.0	77.43	7.80	-0.2
31-Oct 22:00	2.01	187.0	78.02	7.61	-0.1
31-Oct 22:30	0.89	180.3	77.95	7.38	-0.1
31-Oct 23:00	0.00	0.0	80.86	6.96	-0.2
31-Oct 23:30	2.58	49.9	89.58	6.91	-0.2
1-Nov 0:00	2.99	19.2	92.99	6.41	-0.2
1-Nov 0:30	0.00	0.0	95.70	5.78	-0.2
1-Nov 1:00	2.37	190.2	93.23	4.96	-0.2
1-Nov 1:30	2.49	274.2	96.07	4.34	-0.2
1-Nov 2:00	2.41	311.5	102.13	4.33	-0.2
1-Nov 2:30	0.84	40.4	105.09	4.78	-0.1
1-Nov 3:00	3.02	23.7	105.77	4.56	-0.2
1-Nov 3:30	3.40	29.9	105.58	4.62	-0.2
1-Nov 4:00	1.69	31.2	106.70	4.68	-0.2
1-Nov 4:30	0.00	0.0	106.37	3.39	-0.2
1-Nov 5:00	1.93	204.1	107.15	3.21	-0.2
1-Nov 5:30	2.82	217.6	106.60	2.12	-0.2
1-Nov 6:00	3.18	240.6	106.57	2.11	-0.2
1-Nov 6:30	2.59	222.2	106.66	1.79	-0.2
1-Nov 7:00	2.10	214.4	107.44	1.66	-0.1
1-Nov 7:30	0.00	0.0	107.89	1.84	4.8
1-Nov 8:00	1.07	229.6	107.87	2.04	21.9
1-Nov 8:30	2.51	215.4	109.75	1.27	64.0
1-Nov 9:00	2.22	214.5	109.90	1.89	101.0
1-Nov 9:30	0.00	0.0	107.78	4.16	161.0
1-Nov 10:00	1.65	120.8	93.11	6.90	342.6
1-Nov 10:30	0.07	113.0	86.81	8.30	409.3
1-Nov 11:00	0.41	107.0	83.64	10.06	491.0
1-Nov 11:30	1.72	113.8	72.60	13.27	522.2
1-Nov 12:00	1.35	97.0	65.26	15.14	608.7
1-Nov 12:30	3.01	240.4	62.60	15.72	624.9
1-Nov 13:00	2.17	107.8	54.35	17.53	591.5
1-Nov 13:30	4.15	121.2	55.53	17.49	589.7
1-Nov 14:00	3.34	133.2	54.21	17.39	287.8
1-Nov 14:30	2.71	195.0	53.71	17.16	253.5
1-Nov 15:00	3.72	147.3	51.23	17.44	280.1
1-Nov 15:30	7.56	163.3	49.96	17.73	265.0
1-Nov 16:00	6.36	227.3	47.34	18.60	318.6
1-Nov 16:30	2.88	170.1	49.05	17.68	121.8
1-Nov 17:00	5.03	186.6	53.96	17.14	41.1
1-Nov 17:30	1.01	204.5	56.95	16.43	28.4
1-Nov 18:00	0.00	0.0	74.61	14.61	1.2
1-Nov 18:30	0.57	68.2	70.17	13.80	-0.1
1-Nov 19:00	1.03	43.4	82.73	13.04	-0.2

1-Nov 19:30	2.84	20.1	87.69	12.59	-0.1
1-Nov 20:00	0.49	19.8	85.45	11.89	-0.1
1-Nov 20:30	2.08	26.7	88.52	11.66	-0.1
1-Nov 21:00	2.20	32.3	88.87	11.27	-0.2
1-Nov 21:30	2.92	33.2	91.31	10.99	-0.1
1-Nov 22:00	2.30	46.4	93.83	10.92	-0.1
1-Nov 22:30	4.40	9.1	92.86	10.84	-0.1
1-Nov 23:00	3.83	27.7	96.51	10.64	-0.1
1-Nov 23:30	3.37	25.5	97.08	10.53	-0.1
2-Nov 0:00	4.09	39.4	96.94	10.42	-0.1
2-Nov 0:30	2.92	25.9	99.54	10.23	-0.2
2-Nov 1:00	2.93	45.5	99.31	10.18	-0.2
2-Nov 1:30	4.46	23.4	100.07	10.24	-0.2
2-Nov 2:00	2.70	9.8	100.77	10.14	-0.2
2-Nov 2:30	2.86	39.2	103.21	10.13	-0.1
2-Nov 3:00	3.26	26.0	103.52	9.99	-0.1
2-Nov 3:30	2.59	40.9	104.45	9.93	-0.1
2-Nov 4:00	2.59	320.7	104.78	9.71	-0.1
2-Nov 4:30	3.49	16.0	105.49	9.75	-0.2
2-Nov 5:00	2.86	42.9	106.27	9.48	-0.1
2-Nov 5:30	3.43	43.5	106.54	9.36	-0.1
2-Nov 6:00	2.83	31.1	107.33	9.11	-0.1
2-Nov 6:30	2.60	45.9	107.75	8.80	-0.1
2-Nov 7:00	1.17	34.7	108.31	8.64	-0.1
2-Nov 7:30	0.00	0.0	108.53	8.19	5.0
2-Nov 8:00	1.59	189.0	108.47	7.44	33.5
2-Nov 8:30	0.00	0.0	107.27	7.95	79.7
2-Nov 9:00	0.00	0.0	104.20	8.93	118.6
2-Nov 9:30	0.00	0.0	91.49	11.75	267.7
2-Nov 10:00	0.00	0.0	89.41	12.48	378.8
2-Nov 10:30	1.92	153.7	87.88	13.11	161.1
2-Nov 11:00	2.21	167.4	86.85	14.32	177.6
2-Nov 11:30	1.38	194.6	81.39	15.57	269.1
2-Nov 12:00	0.70	62.4	74.64	17.23	242.6
2-Nov 12:30	0.67	108.9	71.90	18.10	283.3
2-Nov 13:00	2.46	176.0	62.73	19.99	370.9
2-Nov 13:30	3.54	141.3	61.20	20.44	297.0
2-Nov 14:00	4.45	132.7	58.70	21.06	333.8
2-Nov 14:30	2.90	144.8	55.07	21.94	377.4
2-Nov 15:00	10.58	202.8	55.68	21.74	175.2
2-Nov 15:30	4.42	152.7	53.80	22.33	148.2
2-Nov 16:00	9.17	183.1	51.78	22.59	113.6
2-Nov 16:30	12.02	199.1	52.18	22.36	103.6
2-Nov 17:00	4.66	168.2	54.13	21.95	30.1
2-Nov 17:30	3.95	173.8	54.50	21.74	18.5
2-Nov 18:00	1.59	150.8	57.12	21.13	2.4
2-Nov 18:30	1.45	183.0	61.14	20.10	-0.1
2-Nov 19:00	3.09	141.0	63.32	20.88	-0.1
2-Nov 19:30	5.90	171.5	68.26	20.58	-0.1
2-Nov 20:00	5.53	206.0	69.75	20.31	-0.1

2-Nov 20:30	1.09	307.2	75.88	18.41	-0.1
2-Nov 21:00	2.79	291.8	76.34	18.32	-0.2
2-Nov 21:30	0.00	0.0	80.76	17.80	-0.2
2-Nov 22:00	2.07	175.5	83.56	17.62	-0.2
2-Nov 22:30	5.73	216.6	81.54	18.48	-0.1
2-Nov 23:00	4.94	146.2	83.01	18.41	-0.1
2-Nov 23:30	4.21	196.2	80.99	18.95	-0.1
3-Nov 0:00	3.78	142.1	80.91	18.96	-0.1
3-Nov 0:30	2.46	155.3	82.12	18.72	-0.2
3-Nov 1:00	2.28	216.7	84.32	18.31	-0.1
3-Nov 1:30	0.00	0.0	90.23	17.29	-0.2
3-Nov 2:00	1.08	179.2	89.21	17.55	-0.1
3-Nov 2:30	3.08	267.4	93.84	16.67	-0.2
3-Nov 3:00	4.31	172.6	91.85	16.65	-0.2
3-Nov 3:30	0.49	109.5	91.75	16.44	-0.2
3-Nov 4:00	2.10	182.2	93.72	16.13	-0.2
3-Nov 4:30	0.76	206.3	97.05	15.67	-0.2
3-Nov 5:00	1.39	200.4	100.33	15.21	-0.2
3-Nov 5:30	0.00	0.0	102.46	15.08	-0.2
3-Nov 6:00	0.00	0.0	106.16	14.59	-0.2
3-Nov 6:30	0.00	0.0	107.98	14.19	-0.1
3-Nov 7:00	0.00	0.0	108.67	14.21	-0.1
3-Nov 7:30	0.00	0.0	109.07	14.01	0.3
3-Nov 8:00	1.24	172.1	109.52	13.81	5.6
3-Nov 8:30	2.85	211.1	109.57	14.05	17.0
3-Nov 9:00	0.87	307.1	107.44	14.46	158.7
3-Nov 9:30	2.76	122.8	105.65	14.61	124.4
3-Nov 10:00	4.88	168.2	98.62	15.93	206.9
3-Nov 10:30	13.82	304.3	81.34	16.51	103.3
3-Nov 11:00	4.28	339.8	71.37	15.76	418.2
3-Nov 11:30	6.55	305.0	58.48	17.30	573.0
3-Nov 12:00	3.68	312.9	43.26	18.62	627.4
3-Nov 12:30	7.99	274.6	38.25	18.64	343.9
3-Nov 13:00	9.55	238.4	36.47	18.94	676.0
3-Nov 13:30	7.82	234.4	27.97	19.47	671.6
3-Nov 14:00	9.80	256.4	27.03	19.08	648.7
3-Nov 14:30	4.65	192.7	28.13	18.95	609.2
3-Nov 15:00	11.21	274.5	27.62	18.87	545.8
3-Nov 15:30	4.11	274.1	28.27	18.92	474.1
3-Nov 16:00	6.69	288.2	30.76	18.74	385.3
3-Nov 16:30	3.95	234.7	31.22	18.92	290.4
3-Nov 17:00	5.58	242.0	31.74	18.19	188.9
3-Nov 17:30	3.53	235.5	32.83	17.29	75.9
3-Nov 18:00	3.66	218.7	36.32	15.94	2.3
3-Nov 18:30	2.70	210.5	38.75	15.09	-0.1
3-Nov 19:00	6.79	340.8	52.03	14.19	-0.2
3-Nov 19:30	0.48	2.0	52.36	13.54	-0.1
3-Nov 20:00	6.72	323.1	45.76	13.55	-0.1
3-Nov 20:30	4.78	342.1	47.86	13.60	-0.2
3-Nov 21:00	8.09	319.8	53.32	12.95	-0.2

3-Nov 21:30	1.65	1.5	59.75	12.12	-0.1
3-Nov 22:00	3.97	10.1	62.08	11.66	-0.2
3-Nov 22:30	2.31	57.8	61.54	11.37	-0.1
3-Nov 23:00	3.62	321.1	67.72	10.18	-0.1
3-Nov 23:30	1.02	109.7	74.48	9.88	-0.2
4-Nov 0:00	0.00	0.0	75.17	8.99	-0.2
4-Nov 0:30	0.00	0.0	85.22	8.25	-0.2
4-Nov 1:00	3.15	282.1	77.01	8.15	-0.1
4-Nov 1:30	1.00	256.7	82.33	7.50	-0.2
4-Nov 2:00	4.19	290.0	81.50	7.03	-0.2
4-Nov 2:30	1.26	250.3	88.83	5.44	-0.2
4-Nov 3:00	0.00	0.0	89.59	5.59	-0.2
4-Nov 3:30	0.00	0.0	93.27	4.92	-0.2
4-Nov 4:00	2.80	233.2	97.09	3.88	-0.2
4-Nov 4:30	1.86	51.4	104.31	4.16	-0.2
4-Nov 5:00	0.00	0.0	102.94	3.45	-0.2
4-Nov 5:30	3.03	227.9	99.94	3.01	-0.2
4-Nov 6:00	0.00	0.0	102.21	2.97	-0.2
4-Nov 6:30	1.31	231.4	103.26	2.31	-0.2
4-Nov 7:00	3.29	186.9	107.04	0.89	-0.2
4-Nov 7:30	2.40	252.4	107.52	1.08	3.7
4-Nov 8:00	3.46	258.7	105.88	1.34	17.3
4-Nov 8:30	2.43	219.6	100.68	2.56	110.5
4-Nov 9:00	2.72	218.0	89.31	4.90	197.7
4-Nov 9:30	0.72	195.4	85.71	5.56	273.1
4-Nov 10:00	2.29	167.5	80.99	6.95	359.4
4-Nov 10:30	3.17	175.9	75.02	8.81	435.8
4-Nov 11:00	4.12	169.5	67.14	10.96	507.7
4-Nov 11:30	5.60	148.6	59.49	12.46	565.0
4-Nov 12:00	2.24	206.2	49.29	14.24	613.4
4-Nov 12:30	9.72	216.6	41.85	14.96	638.2
4-Nov 13:00	3.31	318.6	38.46	15.97	648.9
4-Nov 13:30	2.38	157.6	37.17	16.71	637.9
4-Nov 14:00	8.33	213.1	33.70	16.49	618.1
4-Nov 14:30	8.07	153.5	32.74	17.00	573.2
4-Nov 15:00	9.23	197.1	33.21	17.22	520.5
4-Nov 15:30	3.60	219.6	34.45	17.61	478.3
4-Nov 16:00	4.21	178.2	36.07	17.27	368.4
4-Nov 16:30	8.59	204.4	37.88	16.55	144.5
4-Nov 17:00	3.27	198.1	40.71	15.94	54.3
4-Nov 17:30	2.66	211.5	43.28	15.41	31.0
4-Nov 18:00	1.99	149.3	46.94	14.60	1.4
4-Nov 18:30	1.44	158.4	51.02	13.68	-0.1
4-Nov 19:00	1.24	167.7	52.42	12.93	-0.1
4-Nov 19:30	1.50	210.1	56.27	12.16	-0.1
4-Nov 20:00	0.00	0.0	62.37	11.05	-0.2
4-Nov 20:30	1.39	300.2	69.78	9.92	-0.1
4-Nov 21:00	11.20	282.2	67.71	9.24	-0.1
4-Nov 21:30	11.77	291.8	85.93	9.97	-0.1
4-Nov 22:00	6.53	311.4	92.05	8.73	-0.2

4-Nov 22:30	2.14	304.4	94.84	8.52	-0.2
4-Nov 23:00	2.18	342.3	94.58	8.21	-0.2
4-Nov 23:30	2.50	312.7	96.06	7.87	-0.2
5-Nov 0:00	2.51	265.6	95.37	7.10	-0.2
5-Nov 0:30	3.03	300.3	89.88	7.66	-0.2
5-Nov 1:00	3.58	237.5	65.10	7.72	-0.2
5-Nov 1:30	3.18	213.9	64.92	7.08	-0.1
5-Nov 2:00	5.68	249.1	65.96	6.83	-0.2
5-Nov 2:30	1.36	208.1	70.40	6.19	-0.1
5-Nov 3:00	5.14	250.1	68.30	6.51	-0.2
5-Nov 3:30	5.20	226.8	70.39	6.07	-0.1
5-Nov 4:00	7.97	243.6	70.63	5.97	-0.2
5-Nov 4:30	6.13	230.0	81.30	5.37	-0.2
5-Nov 5:00	4.68	252.9	80.27	5.48	-0.2
5-Nov 5:30	11.08	297.3	103.92	3.62	-0.2
5-Nov 6:00	9.04	293.8	100.08	3.60	-0.2
5-Nov 6:30	4.89	279.4	100.39	3.46	-0.2
5-Nov 7:00	8.20	250.1	96.75	3.58	-0.2
5-Nov 7:30	12.23	272.5	86.75	3.90	2.9
5-Nov 8:00	4.98	289.4	85.34	3.88	14.4
5-Nov 8:30	11.39	277.5	80.03	4.38	28.4
5-Nov 9:00	10.58	299.4	74.30	5.19	193.0
5-Nov 9:30	16.64	299.2	69.82	5.75	273.3
5-Nov 10:00	6.45	288.1	64.65	6.66	376.3
5-Nov 10:30	16.09	301.9	60.91	6.30	317.0
5-Nov 11:00	9.04	300.7	61.62	6.37	81.4
5-Nov 11:30	13.13	278.2	56.54	6.23	544.6
5-Nov 12:00	22.22	309.8	49.91	6.96	620.6
5-Nov 12:30	17.71	286.9	50.59	6.37	172.8
5-Nov 13:00	14.83	280.3	52.23	6.60	222.2
5-Nov 13:30	12.08	301.3	53.76	6.18	214.7
5-Nov 14:00	17.53	281.3	52.34	6.36	186.6
5-Nov 14:30	13.64	306.0	52.89	6.65	272.6
5-Nov 15:00	11.44	286.9	50.84	7.06	248.8
5-Nov 15:30	10.26	283.9	52.87	6.94	475.6
5-Nov 16:00	10.42	286.2	51.79	7.06	377.6
5-Nov 16:30	13.87	287.8	54.24	6.74	175.4
5-Nov 17:00	20.57	292.0	52.94	6.73	187.9
5-Nov 17:30	16.99	291.9	54.59	6.28	76.1
5-Nov 18:00	19.94	297.3	55.66	5.81	1.5
5-Nov 18:30	7.40	322.5	56.52	5.70	-0.1
5-Nov 19:00	9.40	291.9	56.83	5.60	-0.1
5-Nov 19:30	9.72	311.3	58.75	5.72	-0.2
5-Nov 20:00	9.07	292.5	59.75	5.46	-0.2
5-Nov 20:30	6.71	302.6	61.05	5.28	-0.2
5-Nov 21:00	9.97	331.9	63.53	5.24	-0.1
5-Nov 21:30	3.23	5.0	64.43	5.18	-0.2
5-Nov 22:00	6.67	326.8	67.37	5.05	-0.2
5-Nov 22:30	6.12	313.2	66.43	4.87	-0.2
5-Nov 23:00	4.87	327.3	66.71	5.00	-0.2

5-Nov 23:30	4.35	327.3	66.27	5.21	-0.1
6-Nov 0:00	10.31	303.0	64.78	5.30	-0.2
6-Nov 0:30	15.65	304.5	63.54	5.40	-0.2
6-Nov 1:00	20.32	313.0	61.97	5.44	-0.2
6-Nov 1:30	12.19	304.7	63.83	5.43	-0.2
6-Nov 2:00	6.43	314.3	62.49	5.45	-0.1
6-Nov 2:30	12.15	321.3	61.94	5.46	-0.2
6-Nov 3:00	11.32	286.3	62.45	5.39	-0.2
6-Nov 3:30	7.64	311.5	63.29	5.44	-0.2
6-Nov 4:00	11.43	302.5	61.73	5.30	-0.2
6-Nov 4:30	6.56	300.7	62.26	5.28	-0.1
6-Nov 5:00	16.76	309.8	62.45	5.26	-0.2
6-Nov 5:30	9.73	308.6	62.89	5.16	-0.2
6-Nov 6:00	8.30	310.8	63.42	5.09	-0.2
6-Nov 6:30	9.32	293.9	64.13	5.05	-0.2
6-Nov 7:00	5.66	295.8	64.43	4.80	-0.2
6-Nov 7:30	9.82	307.8	63.96	4.72	2.6
6-Nov 8:00	6.85	281.8	63.57	4.63	18.8
6-Nov 8:30	1.22	259.1	63.29	5.05	44.6
6-Nov 9:00	11.90	292.4	59.88	5.74	200.7
6-Nov 9:30	10.76	296.0	59.04	6.17	292.0

Date	Time	Wind Speed mph	Wind Dir Degree	RH %	AirTemp C	Solar Rad W/m ²
23-May	10:15	6.12	24.0	85.50	12.46	270.3
23-May	10:30	2.23	58.8	85.25	12.69	302.0
23-May	10:45	5.40	353.9	83.68	12.91	260.9
23-May	11:00	8.72	327.9	85.57	12.47	146.1
23-May	11:15	4.59	343.5	85.62	12.56	128.9
23-May	11:30	8.80	330.2	86.71	12.42	203.2
23-May	11:45	7.06	50.8	85.33	12.74	327.4
23-May	12:00	8.38	53.1	82.60	13.23	440.9
23-May	12:15	9.31	38.0	77.38	14.25	812.7
23-May	12:30	6.09	44.9	73.70	14.99	931.7
23-May	12:45	7.25	49.4	75.31	15.06	700.0
23-May	13:00	5.96	57.8	71.49	15.84	1173.9
23-May	13:15	7.06	20.7	69.51	16.60	827.4
23-May	13:30	5.43	57.6	68.22	16.92	645.8
23-May	13:45	7.18	46.5	71.22	16.31	180.1
23-May	14:00	8.00	33.3	72.42	16.13	277.1
23-May	14:15	4.66	34.7	71.94	16.24	261.9
23-May	14:30	3.60	34.6	74.20	15.89	217.3
23-May	14:45	8.26	53.9	72.89	15.95	325.6
23-May	15:00	9.21	35.8	73.01	16.04	1080.1
23-May	15:15	7.96	63.0	70.88	16.22	911.8
23-May	15:30	6.57	68.6	73.07	16.12	292.3
23-May	15:45	5.77	43.7	71.37	16.15	326.1
23-May	16:00	8.41	41.1	70.88	15.99	189.5
23-May	16:15	6.18	43.6	70.27	16.31	361.0
23-May	16:30	6.74	36.9	71.61	16.19	189.7
23-May	16:45	7.30	57.0	74.05	16.00	199.2
23-May	17:00	8.96	57.7	75.25	15.84	137.6
23-May	17:15	6.64	46.9	77.20	15.62	106.9
23-May	17:30	4.22	67.9	79.70	15.52	78.8
23-May	17:45	4.66	44.5	80.10	15.40	48.3
23-May	18:00	3.64	65.4	81.54	15.39	96.6
23-May	18:15	5.68	75.6	82.73	15.07	51.9
23-May	18:30	6.98	79.7	82.90	15.00	34.5
23-May	18:45	5.41	93.1	85.19	14.56	6.1
23-May	19:00	2.51	80.1	88.25	14.22	0.7
23-May	19:15	3.00	72.6	90.73	13.84	0.0
23-May	19:30	0.00	0.0	91.51	13.58	0.0
23-May	19:45	1.35	92.8	93.88	13.12	0.0
23-May	20:00	1.71	62.0	95.00	12.91	0.0
23-May	20:15	1.61	137.2	95.71	12.48	0.0
23-May	20:30	1.24	55.5	97.45	12.08	0.0
23-May	20:45	1.81	56.9	97.36	11.74	0.0
23-May	21:00	0.00	0.0	97.60	11.54	0.0
23-May	21:15	0.00	0.0	97.40	11.69	0.0
23-May	21:30	1.66	74.4	97.88	11.71	0.0
23-May	21:45	0.78	97.8	97.08	11.62	0.0
23-May	22:00	1.99	76.4	97.04	11.80	0.0
23-May	22:15	2.52	324.9	96.70	11.80	0.0
24-May	1:45	0.18	113.4	96.76	11.69	0.0

24-May	2:00	1.38	235.7	96.69	11.75	0.0
24-May	2:15	0.00	0.0	97.34	12.08	0.0
24-May	2:30	0.08	241.6	95.94	12.06	0.0
24-May	2:45	0.21	309.3	98.03	12.05	0.0
24-May	3:00	0.75	115.8	97.60	12.25	0.0
24-May	3:15	0.95	80.8	97.62	12.39	0.0
24-May	3:30	2.15	88.5	97.84	12.37	0.0
24-May	3:45	3.26	127.8	97.34	12.21	0.0
24-May	4:00	2.22	79.8	95.49	12.27	0.0
24-May	4:15	0.00	0.0	96.77	12.11	0.0
24-May	4:30	0.00	0.0	97.96	12.15	0.0
24-May	4:45	2.78	238.4	98.71	11.81	0.0
24-May	5:00	0.00	0.0	98.20	11.80	0.0
24-May	5:15	0.59	222.6	98.60	11.84	0.0
24-May	5:30	1.75	239.3	98.73	11.70	0.0
24-May	5:45	2.46	264.3	98.75	11.72	0.0
24-May	6:00	0.00	0.0	99.28	11.85	0.7
24-May	6:15	0.89	250.3	99.41	11.69	3.9
24-May	6:30	2.33	233.8	99.46	11.74	11.4
24-May	6:45	2.13	238.4	99.52	11.85	24.4
24-May	7:00	1.28	257.5	99.34	11.74	39.7
24-May	7:15	1.86	276.2	98.21	11.87	60.0
24-May	7:30	0.00	0.0	95.15	12.12	87.0
24-May	7:45	1.60	353.2	91.41	12.47	103.3
24-May	8:00	0.00	0.0	90.61	12.52	116.5
24-May	8:15	0.00	0.0	91.65	12.70	127.8
24-May	8:30	3.43	75.8	92.17	12.54	146.8
24-May	8:45	1.67	1.1	90.49	12.68	179.4
24-May	9:00	3.37	291.3	90.73	12.75	209.7
24-May	9:15	2.70	147.9	89.41	12.89	273.6
24-May	9:30	0.91	24.3	83.97	14.11	361.9
24-May	9:45	1.21	111.2	83.23	14.36	417.7
24-May	10:00	1.24	102.1	75.25	15.37	410.9
24-May	10:15	2.13	96.1	72.61	15.69	885.2
24-May	10:30	2.71	113.2	70.05	16.23	911.9
24-May	10:45	3.13	114.0	64.53	17.21	953.9
24-May	11:00	1.85	127.1	59.81	18.17	941.6
24-May	11:15	0.00	0.0	53.62	19.54	999.8
24-May	11:30	5.76	221.8	52.17	19.57	1068.6
24-May	11:45	2.83	108.6	45.56	19.39	1076.9
24-May	12:00	4.48	255.1	42.29	20.67	1123.7
24-May	12:15	0.00	0.0	37.64	21.28	1148.4
24-May	12:30	4.79	254.0	36.86	20.66	1227.6
24-May	12:45	2.94	141.1	40.51	20.71	447.4
24-May	13:00	1.83	264.2	34.74	22.17	1043.2
24-May	13:15	3.90	230.9	35.86	21.98	794.8
24-May	13:30	4.53	137.2	38.82	20.91	269.4
24-May	13:45	5.75	150.9	39.34	21.24	436.6
24-May	14:00	3.78	170.3	42.97	20.79	325.8
24-May	14:15	5.42	200.0	41.46	21.39	1074.2
24-May	14:30	8.27	236.1	40.70	21.87	970.7
24-May	14:45	5.93	176.1	38.91	22.12	934.3

24-May 15:00	8.36	152.2	40.76	21.60	895.6
24-May 15:15	9.51	143.7	41.25	21.08	191.1
24-May 15:30	4.84	141.4	41.51	21.67	559.9
24-May 15:45	5.25	150.1	39.99	21.33	695.4
24-May 16:00	10.62	154.3	39.15	20.90	556.8
24-May 16:15	7.99	171.8	38.25	21.18	265.7
24-May 16:30	8.25	138.4	39.74	20.93	467.5
24-May 16:45	9.27	151.2	41.40	20.96	264.6
24-May 17:00	4.04	156.1	44.30	20.37	109.9
24-May 17:15	3.42	173.3	51.26	19.76	75.1
24-May 17:30	2.09	198.1	53.72	19.59	66.3
24-May 17:45	3.50	115.8	57.57	19.12	75.1
24-May 18:00	1.23	106.8	60.80	18.68	53.9
24-May 18:15	2.19	101.9	63.87	18.14	19.7
24-May 18:30	3.14	72.5	65.59	17.63	4.9
24-May 18:45	2.36	129.5	66.70	17.28	0.6
24-May 19:00	2.37	108.6	68.17	16.86	0.0
24-May 19:15	0.80	91.0	72.97	16.14	0.0
24-May 19:30	4.45	72.4	74.70	15.56	0.0
24-May 19:45	8.67	82.1	77.72	15.51	0.0
24-May 20:00	7.26	93.5	82.17	15.16	0.0
24-May 20:15	8.78	72.3	86.39	14.64	0.0
24-May 20:30	6.64	94.2	86.71	14.72	0.0
24-May 20:45	7.07	72.7	86.92	14.56	0.0
24-May 21:00	9.27	100.4	84.48	14.50	0.0
24-May 21:15	5.80	119.3	85.08	14.37	0.0
24-May 21:30	6.55	111.3	85.19	14.35	0.0
24-May 21:45	4.72	94.5	84.01	14.36	0.0
24-May 22:00	2.36	69.4	84.09	14.28	0.0
25-May 1:45	3.93	197.6	83.95	14.39	0.0
25-May 2:00	7.99	144.9	83.68	14.30	0.0
25-May 2:15	8.01	72.8	84.52	14.12	0.0
25-May 2:30	7.07	88.6	85.37	13.92	0.0
25-May 2:45	4.67	94.7	85.95	13.79	0.0
25-May 3:00	6.88	74.9	86.62	13.66	0.0
25-May 3:15	3.80	82.7	87.17	13.48	0.0
25-May 3:30	5.55	75.7	85.76	13.47	0.0
25-May 3:45	3.62	114.6	86.03	13.38	0.0
25-May 4:00	5.37	101.6	86.17	13.20	0.0
25-May 4:15	4.84	70.8	86.40	12.96	0.0
25-May 4:30	5.11	111.0	85.44	12.69	0.0
25-May 4:45	4.65	101.8	86.42	12.58	0.0
25-May 5:00	4.88	76.5	88.87	12.46	0.0
25-May 5:15	8.62	98.5	88.56	12.29	0.0
25-May 5:30	7.42	82.8	88.38	12.11	0.0
25-May 5:45	15.01	98.0	87.43	11.95	0.8
25-May 6:00	8.93	92.1	88.12	12.00	5.3
25-May 6:15	7.31	85.3	88.09	11.99	19.5
25-May 6:30	7.13	100.6	88.36	12.00	37.8
25-May 6:45	3.60	65.3	87.10	12.20	91.8
25-May 7:00	3.69	69.2	87.93	12.14	70.4
25-May 7:15	2.76	80.2	87.23	12.25	83.3

25-May	7:30	3.87	49.8	86.20	12.38	132.1
25-May	7:45	11.87	119.8	86.63	12.32	142.6
25-May	8:00	3.81	146.8	86.50	12.41	151.1
25-May	8:15	6.41	88.6	87.57	12.53	203.9
25-May	8:30	11.83	119.6	86.76	12.49	226.1
25-May	8:45	10.08	85.7	85.72	12.70	304.9
25-May	9:00	6.07	77.0	83.78	13.10	483.3
25-May	9:15	6.20	79.6	84.21	13.36	338.0
25-May	9:30	6.81	118.8	83.13	13.30	386.1
25-May	9:45	8.35	136.7	76.70	14.49	734.8
25-May	10:00	9.15	107.0	77.65	14.43	485.0
25-May	10:15	12.97	81.0	76.16	15.18	924.0
25-May	10:30	11.27	67.3	77.19	14.72	995.6
25-May	10:45	8.84	74.8	76.18	15.38	566.6
25-May	11:00	12.67	94.5	75.32	15.29	1059.7
25-May	11:15	6.57	69.2	73.90	15.90	1063.1
25-May	11:30	6.00	80.5	70.33	17.34	1128.1
25-May	11:45	7.42	87.4	67.69	17.71	1009.5
25-May	12:00	8.09	71.6	69.56	17.14	733.8
25-May	12:15	12.52	87.7	69.25	17.31	498.8
25-May	12:30	11.49	103.7	67.62	17.34	716.9
25-May	12:45	10.66	110.3	69.07	16.67	382.3
25-May	13:00	10.01	130.3	68.85	16.59	646.4
25-May	13:15	6.18	116.5	70.05	16.47	478.3
25-May	13:30	14.91	82.3	73.03	15.88	726.2
25-May	13:45	8.98	107.8	71.16	16.54	977.7
25-May	14:00	5.14	95.7	71.99	16.76	618.4
25-May	14:15	12.81	123.9	77.52	15.36	397.6
25-May	14:30	11.10	87.8	83.29	14.32	215.3
25-May	14:45	11.90	117.5	85.75	13.93	231.8
25-May	15:00	15.85	109.7	86.99	13.77	132.1
25-May	15:15	4.94	75.2	87.94	13.67	93.1
25-May	15:30	6.95	118.2	89.56	13.24	66.7
25-May	15:45	3.69	72.2	90.46	13.18	69.7
25-May	16:00	6.56	84.0	91.10	13.07	75.7
25-May	16:15	5.53	65.4	91.06	13.21	50.9
25-May	16:30	2.84	172.6	91.27	13.28	28.3
25-May	16:45	6.31	126.4	94.23	12.72	22.9
25-May	17:00	8.17	98.0	95.95	12.42	23.8
25-May	17:15	6.72	117.8	95.80	12.39	24.8
25-May	17:30	7.09	106.2	95.31	12.38	12.5
25-May	17:45	12.66	113.5	95.16	12.25	17.5
25-May	18:00	8.93	150.5	94.89	12.29	9.4
25-May	18:15	4.85	77.0	94.76	12.32	7.5
25-May	18:30	5.55	108.8	94.48	12.45	1.1
25-May	18:45	10.44	73.4	93.89	12.51	0.1
25-May	19:00	8.03	104.5	93.81	12.62	0.0
25-May	19:15	9.07	108.5	93.89	12.58	0.0
25-May	19:30	2.63	110.8	93.92	12.76	0.0
25-May	19:45	9.32	133.3	93.56	13.14	0.0
25-May	20:00	8.04	97.1	93.64	13.21	0.0
25-May	20:15	10.78	118.4	92.74	13.56	0.0

25-May 20:30	7.70	103.9	90.75	13.64	0.0
25-May 20:45	8.27	139.2	90.92	13.46	0.0
25-May 21:00	10.28	146.5	89.53	13.67	0.0
25-May 21:15	6.09	148.7	90.10	13.58	0.0
25-May 21:30	7.88	178.0	89.28	13.71	0.0
25-May 21:45	5.16	187.8	91.60	13.38	0.0
25-May 22:00	2.34	188.5	92.48	13.22	0.0
25-May 22:15	3.81	213.5	93.54	13.05	0.0
26-May 1:45	2.08	196.6	93.48	13.05	0.0
26-May 2:00	1.88	133.7	93.35	13.03	0.0
26-May 2:15	3.63	192.5	93.55	12.96	0.0
26-May 2:30	5.04	170.2	94.59	12.73	0.0
26-May 2:45	9.40	186.2	94.68	12.62	0.0
26-May 3:00	6.15	170.7	92.91	12.78	0.0
26-May 3:15	0.70	195.2	94.53	12.62	0.0
26-May 3:30	6.07	141.3	95.14	12.56	0.0
26-May 3:45	4.86	173.8	94.97	12.60	0.0
26-May 4:00	1.22	173.9	93.91	12.68	0.0
26-May 4:15	0.00	0.0	94.16	12.62	0.0
26-May 4:30	3.66	68.1	94.22	12.67	0.0
26-May 4:45	1.60	136.3	93.36	12.79	0.0
26-May 5:00	0.00	0.0	93.47	12.82	0.0
26-May 5:15	4.07	83.2	93.67	12.83	0.0
26-May 5:30	0.00	0.0	93.85	12.88	0.1
26-May 5:45	0.00	0.0	93.43	12.86	0.7
26-May 6:00	2.59	83.9	94.24	12.87	3.9
26-May 6:15	3.48	73.4	95.21	12.73	7.1
26-May 6:30	1.61	52.2	94.57	12.75	19.7
26-May 6:45	2.94	135.1	93.99	12.87	6.8
26-May 7:00	6.69	151.4	94.74	12.76	8.9
26-May 7:15	3.99	43.8	95.71	12.59	8.4
26-May 7:30	3.16	67.6	96.83	12.53	6.5
26-May 7:45	2.46	211.1	95.20	12.50	11.2
26-May 8:00	0.00	0.0	96.73	12.41	28.8
26-May 8:15	5.04	95.2	94.39	12.44	86.1
26-May 8:30	5.49	127.4	93.63	12.39	108.1
26-May 8:45	4.89	79.5	93.53	12.58	168.7
26-May 9:00	3.12	63.4	93.58	12.82	183.4
26-May 9:15	1.39	99.8	93.08	13.32	332.2
26-May 9:30	3.70	105.7	91.55	13.80	206.1
26-May 9:45	7.98	127.0	89.07	13.76	146.5
26-May 10:00	0.44	90.4	92.09	13.87	116.4
26-May 10:15	2.48	165.1	92.86	13.62	136.8
26-May 10:30	5.37	158.0	91.62	13.52	94.8
26-May 10:45	0.00	0.0	93.45	13.59	106.2
26-May 11:00	2.62	249.6	94.86	13.39	130.1
26-May 11:15	4.01	230.5	95.94	13.34	100.9
26-May 11:30	5.68	220.4	95.02	13.31	157.8
26-May 11:45	4.78	137.8	94.18	13.44	123.1
26-May 12:00	5.52	140.4	93.39	13.67	210.9
26-May 12:15	6.04	126.8	91.12	13.97	165.3
26-May 12:30	4.51	50.2	90.77	13.96	110.0

26-May 12:45	2.57	142.5	87.95	14.11	173.9
26-May 13:00	4.61	183.7	84.70	14.14	119.8
26-May 13:15	2.92	216.2	88.74	14.06	172.6
26-May 13:30	3.05	155.8	86.24	14.01	188.2
26-May 13:45	2.09	127.0	88.25	14.19	223.6
26-May 14:00	3.02	65.7	84.61	14.54	212.0
26-May 14:15	6.28	113.8	89.71	14.32	191.0
26-May 14:30	1.99	64.0	87.47	14.66	313.9
26-May 14:45	3.47	196.5	86.50	15.15	195.4
26-May 15:00	5.95	223.4	87.16	14.94	219.0
26-May 15:15	0.00	0.0	89.32	14.60	98.5
26-May 15:30	3.02	160.4	87.57	14.48	99.2
26-May 15:45	4.12	220.3	92.53	14.33	44.3
26-May 16:00	3.21	226.2	89.98	14.23	82.5
26-May 16:15	5.17	186.3	88.80	14.13	30.2
26-May 16:30	6.95	112.4	88.56	13.98	32.7
26-May 16:45	10.67	80.1	90.06	13.75	20.5
26-May 17:00	8.89	251.4	91.12	13.53	16.5
26-May 17:15	2.50	233.4	94.49	13.25	19.1
26-May 17:30	3.59	92.0	89.04	13.44	15.0
26-May 17:45	4.07	55.3	88.57	13.29	12.2
26-May 18:00	4.04	82.3	88.81	13.15	5.2
26-May 18:15	3.22	171.5	89.54	13.07	2.1
26-May 18:30	4.38	129.8	89.52	13.05	0.2
26-May 18:45	4.57	129.8	90.33	12.97	0.0
26-May 19:00	3.96	128.2	90.70	13.03	0.0
26-May 19:15	3.56	107.7	91.17	13.03	0.0
26-May 19:30	5.29	97.7	90.78	12.99	0.0
26-May 19:45	5.84	132.5	90.24	13.00	0.0
26-May 20:00	1.30	61.4	90.99	12.90	0.0
26-May 20:15	0.00	0.0	93.13	12.66	0.0
26-May 20:30	4.31	85.7	93.34	12.59	0.0
26-May 20:45	2.94	26.2	94.06	12.50	0.0
26-May 21:00	1.15	21.1	94.95	12.47	0.0
26-May 21:15	1.29	329.1	95.35	12.43	0.0
26-May 21:30	3.19	89.3	95.45	12.38	0.0
26-May 21:45	1.51	69.5	96.51	12.39	0.0
26-May 22:00	2.44	112.1	96.86	12.23	0.0
27-May 1:45	0.41	87.4	96.34	12.24	0.0
27-May 2:00	1.88	94.9	97.32	12.21	0.0
27-May 2:15	3.29	91.1	96.31	12.40	0.0
27-May 2:30	4.29	106.8	94.76	12.55	0.0
27-May 2:45	0.00	0.0	96.70	12.40	0.0
27-May 3:00	0.00	0.0	97.68	12.28	0.0
27-May 3:15	0.48	78.7	97.07	12.32	0.0
27-May 3:30	2.91	58.7	98.03	12.32	0.0
27-May 3:45	2.73	62.5	97.10	12.35	0.0
27-May 4:00	3.31	90.2	96.33	12.35	0.0
27-May 4:15	1.19	68.0	94.64	12.43	0.0
27-May 4:30	2.52	333.4	97.14	12.11	0.0
27-May 4:45	1.97	86.8	97.65	11.97	0.0
27-May 5:00	0.00	0.0	98.36	11.92	0.0

27-May	5:15	2.06	112.0	98.18	11.75	0.0
27-May	5:30	3.68	140.4	94.88	12.15	0.1
27-May	5:45	3.45	112.4	96.80	11.88	0.7
27-May	6:00	2.64	85.4	96.80	12.07	2.5
27-May	6:15	1.18	51.0	97.64	11.92	15.7
27-May	6:30	0.00	0.0	96.99	11.98	31.0
27-May	6:45	0.00	0.0	98.30	11.88	49.6
27-May	7:00	0.00	0.0	97.15	12.18	66.1
27-May	7:15	1.85	54.1	96.47	12.26	72.2
27-May	7:30	3.19	65.4	95.57	12.42	67.8
27-May	7:45	0.00	0.0	94.36	12.70	101.1
27-May	8:00	4.64	73.5	92.06	12.87	293.0
27-May	8:15	1.87	48.1	88.75	13.73	295.5
27-May	8:30	1.36	65.4	87.84	14.12	190.8
27-May	8:45	0.00	0.0	87.86	14.37	134.9
27-May	9:00	3.35	222.9	88.82	14.32	301.2
27-May	9:15	3.89	223.5	87.87	14.65	360.8
27-May	9:30	3.84	236.0	83.32	15.26	380.2
27-May	9:45	2.63	178.0	77.61	16.63	553.5
27-May	10:00	3.75	261.3	77.48	16.73	369.9
27-May	10:15	8.09	278.4	81.15	16.17	343.5
27-May	10:30	1.70	163.7	79.37	16.78	445.9
27-May	10:45	3.77	176.8	78.52	16.89	375.5
27-May	11:00	2.58	140.7	79.99	16.63	266.0
27-May	11:15	2.42	182.6	73.88	17.70	831.7
27-May	11:30	2.46	143.3	75.70	17.21	446.1
27-May	11:45	13.34	192.9	73.66	17.11	274.2
27-May	12:00	10.72	198.5	76.17	16.60	235.7
27-May	12:15	9.48	197.8	74.81	16.66	417.1
27-May	12:30	5.00	179.8	76.21	16.83	448.4
27-May	12:45	11.27	112.8	77.14	16.48	770.9
27-May	13:00	7.69	145.5	75.61	16.65	724.2
27-May	13:15	5.90	92.9	75.77	16.87	546.3
27-May	13:30	6.46	141.5	76.26	16.73	106.5
27-May	13:45	6.40	193.3	78.67	16.18	87.2
27-May	14:00	3.14	204.8	87.98	15.67	39.1
27-May	14:15	3.93	268.7	90.82	15.05	16.7
27-May	14:30	1.82	59.6	94.71	14.67	132.5
27-May	14:45	5.08	84.3	93.17	14.93	603.4
27-May	15:00	10.38	103.5	85.30	15.92	738.8
27-May	15:15	4.81	107.8	82.68	16.08	119.5
27-May	15:30	5.28	144.7	89.44	15.36	89.6
27-May	15:45	1.30	66.8	92.58	14.88	66.0
27-May	16:00	12.38	138.9	89.57	14.21	294.4
27-May	16:15	11.48	210.0	88.14	15.11	91.4
27-May	16:30	11.16	224.3	92.35	14.03	61.8
27-May	16:45	8.81	209.1	94.72	13.68	131.1
27-May	17:00	5.67	293.9	95.56	13.52	86.1
27-May	17:15	2.58	345.6	92.77	14.28	228.1
27-May	17:30	0.68	51.4	92.83	14.36	183.2
27-May	17:45	1.46	21.8	87.81	14.74	82.3
27-May	18:00	0.00	0.0	89.11	14.17	17.3

27-May 18:15	2.27	109.2	96.57	13.24	5.8
27-May 18:30	0.00	0.0	97.98	12.81	1.3
27-May 18:45	1.71	104.2	97.91	12.15	0.0
27-May 19:00	3.53	68.3	98.53	11.66	0.0
27-May 19:15	2.36	64.7	99.30	11.54	0.0
27-May 19:30	3.53	70.1	99.49	11.09	0.0
27-May 19:45	4.17	75.3	99.54	11.21	0.0
27-May 20:00	3.73	78.8	99.53	10.81	0.0
27-May 20:15	3.26	63.9	99.64	10.94	0.0
27-May 20:30	5.79	71.2	99.64	10.57	0.0
27-May 20:45	1.92	47.3	99.70	10.70	0.0
27-May 21:00	2.98	62.2	99.73	10.63	0.0
27-May 21:15	3.55	67.5	99.73	10.35	0.0
27-May 21:30	2.26	71.7	99.77	10.54	0.0
27-May 21:45	3.54	69.5	99.78	10.45	0.0
27-May 22:00	3.56	76.2	99.80	10.47	0.0
28-May 1:45	2.92	69.8	99.80	10.41	0.0
28-May 2:00	4.27	69.4	99.81	10.46	0.0
28-May 2:15	2.36	100.5	99.79	10.42	0.0
28-May 2:30	3.00	67.1	99.79	10.48	0.0
28-May 2:45	1.48	98.5	99.77	10.45	0.0
28-May 3:00	1.93	64.5	99.76	10.61	0.0
28-May 3:15	4.03	42.5	99.72	10.55	0.0
28-May 3:30	3.08	63.1	99.69	10.63	0.0
28-May 3:45	3.47	42.8	99.67	10.72	0.0
28-May 4:00	4.73	86.5	99.28	10.79	0.0
28-May 4:15	1.55	16.4	99.73	11.18	0.0
28-May 4:30	2.40	241.2	99.74	11.61	0.0
28-May 4:45	2.42	182.2	99.75	11.86	0.1
28-May 5:00	2.41	271.7	99.73	12.36	0.1
28-May 5:15	2.99	223.5	99.25	12.34	0.0
28-May 5:30	0.00	0.0	99.46	12.11	0.0
28-May 5:45	1.10	112.3	99.57	12.02	0.4
28-May 6:00	5.17	156.5	99.34	11.99	2.6
28-May 6:15	3.24	159.1	98.27	12.02	13.0
28-May 6:30	1.13	65.1	99.01	11.80	54.3
28-May 6:45	0.00	0.0	99.04	11.91	34.0
28-May 7:00	0.00	0.0	99.38	11.91	51.9
28-May 7:15	4.77	222.1	99.45	11.91	84.7
28-May 7:30	5.22	224.5	99.20	12.15	66.6
28-May 7:45	5.34	232.0	98.36	12.35	91.1
28-May 8:00	4.81	223.5	96.53	12.83	278.3
28-May 8:15	6.77	248.6	96.13	12.36	147.3
28-May 8:30	8.60	226.8	90.95	13.07	672.6
28-May 8:45	9.80	270.8	87.73	12.57	281.1
28-May 9:00	8.38	266.1	84.69	12.75	342.5
28-May 9:15	8.90	227.4	83.63	13.33	564.2
28-May 9:30	7.48	260.9	83.43	12.80	105.9
28-May 9:45	13.15	266.4	77.12	13.11	566.2
28-May 10:00	7.29	259.3	77.89	13.37	741.1
28-May 10:15	5.87	240.7	72.62	14.02	508.1
28-May 10:30	4.09	238.8	69.50	14.30	557.1

28-May 10:45	12.61	227.4	62.15	14.82	738.0
28-May 11:00	10.03	229.2	62.95	15.36	874.7
28-May 11:15	13.48	254.2	54.54	15.81	1068.3
28-May 11:30	14.47	232.5	55.74	15.74	239.0
28-May 11:45	10.81	264.7	57.57	15.31	386.7
28-May 12:00	15.19	283.1	54.33	15.97	320.9
28-May 12:15	17.10	254.6	54.95	16.40	1190.8
28-May 12:30	14.72	219.4	55.85	16.39	845.6
28-May 12:45	10.20	248.2	55.87	16.32	350.0
28-May 13:00	14.69	252.6	57.33	15.65	352.5
28-May 13:15	6.87	254.7	57.43	15.95	289.3
28-May 13:30	18.30	271.1	55.86	15.88	309.1
28-May 13:45	12.56	250.0	57.29	15.84	258.1
28-May 14:00	11.79	248.4	58.61	15.63	193.3
28-May 14:15	8.64	236.4	59.93	15.69	289.6
28-May 14:30	8.34	259.1	59.58	15.72	903.3
28-May 14:45	5.63	258.4	61.13	15.54	126.2
28-May 15:00	13.99	271.2	61.49	15.26	57.6
28-May 15:15	8.47	248.3	61.76	15.39	115.0
28-May 15:30	9.64	268.6	58.49	15.65	437.4
28-May 15:45	13.58	256.1	57.60	15.67	103.9
28-May 16:00	3.48	255.5	59.21	16.30	416.9
28-May 16:15	8.12	260.1	61.62	15.28	53.5
28-May 16:30	7.87	244.6	62.51	15.05	142.4
28-May 16:45	10.49	250.9	62.06	15.08	145.3
28-May 17:00	11.09	275.1	62.59	15.09	164.8
28-May 17:15	10.17	268.5	62.05	15.19	122.5
28-May 17:30	7.67	241.0	63.55	15.07	111.7
28-May 17:45	4.43	255.6	64.35	14.93	66.2
28-May 18:00	6.53	247.5	66.23	14.61	51.0
28-May 18:15	6.18	249.2	67.32	14.37	30.3
28-May 18:30	8.24	243.2	66.96	14.21	18.7
28-May 18:45	6.24	242.0	68.48	14.02	9.6
28-May 19:00	2.52	251.5	72.10	13.59	1.9
28-May 19:15	2.07	238.6	76.11	12.83	0.1
28-May 19:30	3.12	253.4	77.05	12.57	0.0
28-May 19:45	1.60	250.1	79.14	12.10	0.0
28-May 20:00	0.74	267.9	90.62	10.87	0.0
28-May 20:15	0.00	0.0	91.03	10.57	0.0
28-May 20:30	1.14	220.7	88.65	10.64	0.0
28-May 20:45	2.43	265.7	85.67	10.91	0.0
28-May 21:00	0.00	0.0	88.89	10.69	0.0
28-May 21:15	1.94	238.9	92.97	9.95	0.0
28-May 21:30	0.00	0.0	90.29	10.20	0.0
28-May 21:45	0.00	0.0	91.82	9.99	0.0
28-May 22:00	1.98	64.6	95.23	9.24	0.0
28-May 22:15	0.00	0.0	97.09	8.86	0.0
29-May 1:30	1.92	29.6	96.49	8.54	0.0
29-May 1:45	2.72	37.5	97.41	8.20	0.0
29-May 2:00	0.00	0.0	96.53	7.93	0.0
29-May 2:15	1.18	57.7	96.10	7.81	0.0
29-May 2:30	0.00	0.0	97.91	7.57	0.0

29-May	2:45	0.00	0.0	97.02	7.34	0.0
29-May	3:00	3.10	62.1	98.69	7.35	0.0
29-May	3:15	1.93	47.6	98.86	7.00	0.0
29-May	3:30	2.76	59.3	99.09	6.81	0.0
29-May	3:45	3.27	25.8	99.16	6.69	0.0
29-May	4:00	2.67	49.5	99.21	6.50	0.0
29-May	4:15	4.94	46.6	99.24	6.32	0.0
29-May	4:30	3.26	36.2	99.37	6.35	0.0
29-May	4:45	2.00	43.3	99.39	6.30	0.0
29-May	5:00	0.00	0.0	99.48	6.54	0.0
29-May	5:15	2.39	49.4	99.25	6.85	0.0
29-May	5:30	2.64	63.8	98.82	6.76	0.0
29-May	5:45	2.02	64.4	98.89	6.92	0.1
29-May	6:00	0.00	0.0	99.13	7.33	2.3
29-May	6:15	0.00	0.0	98.57	7.34	10.9
29-May	6:30	0.33	106.0	98.42	7.57	33.7
29-May	6:45	1.44	81.0	97.78	7.44	69.5
29-May	7:00	0.69	81.8	94.26	8.36	122.4
29-May	7:15	0.00	0.0	93.55	8.52	172.5
29-May	7:30	0.00	0.0	84.32	10.62	227.6
29-May	7:45	0.00	0.0	82.73	11.36	281.9
29-May	8:00	0.00	0.0	79.56	12.65	340.3
29-May	8:15	3.55	220.3	85.16	12.39	395.6
29-May	8:30	6.18	210.8	82.72	13.07	463.4
29-May	8:45	3.62	118.7	80.27	13.95	522.5
29-May	9:00	6.19	239.3	77.48	14.59	567.7
29-May	9:15	6.05	232.0	71.73	15.33	670.7
29-May	9:30	5.82	278.2	67.52	15.77	705.9
29-May	9:45	8.38	272.4	66.15	15.60	798.2
29-May	10:00	9.61	267.2	62.47	16.57	660.0
29-May	10:15	6.94	233.0	64.48	16.00	465.0
29-May	10:30	4.41	291.4	63.53	16.27	436.1
29-May	10:45	8.29	263.4	60.41	17.02	493.6
29-May	11:00	9.65	265.0	62.69	16.88	477.8
29-May	11:15	7.24	311.6	59.69	17.34	333.5
29-May	11:30	5.81	259.3	62.29	17.52	487.6
29-May	11:45	10.37	298.9	64.29	17.02	248.6
29-May	12:00	5.41	288.1	65.41	17.04	143.0
29-May	12:15	8.78	309.1	73.79	15.57	57.7
29-May	12:30	3.32	216.8	85.21	15.08	447.3
29-May	12:45	9.20	285.6	71.87	16.27	716.1
29-May	13:00	3.81	283.6	69.68	16.71	452.4
29-May	13:15	9.88	293.1	61.17	16.87	523.8
29-May	13:30	14.14	308.7	56.56	17.51	1297.9
29-May	13:45	5.17	285.4	58.72	17.32	336.9
29-May	14:00	9.95	288.0	53.17	18.31	1055.5
29-May	14:15	7.92	237.9	49.58	19.23	1021.2
29-May	14:30	4.44	232.6	50.79	18.70	503.2
29-May	14:45	10.58	305.4	52.59	17.82	34.1
29-May	15:00	2.22	71.5	84.32	13.08	83.3
29-May	15:15	0.61	254.2	85.10	13.44	387.7
29-May	15:30	1.01	251.2	84.79	13.80	261.1

29-May 15:45	4.73	218.8	81.63	14.03	325.3
29-May 16:00	2.64	187.2	79.49	15.57	374.2
29-May 16:15	3.34	273.4	80.23	15.13	129.2
29-May 16:30	18.61	318.1	74.09	15.32	102.2
29-May 16:45	3.26	335.6	80.62	14.81	127.1
29-May 17:00	2.93	57.3	81.85	14.77	339.8
29-May 17:15	0.89	18.8	75.40	16.08	311.5
29-May 17:30	5.45	305.9	71.63	16.01	95.0
29-May 17:45	5.71	300.8	71.44	16.03	196.1
29-May 18:00	2.95	274.2	76.37	15.29	60.5
29-May 18:15	3.45	251.9	79.70	14.93	32.0
29-May 18:30	0.00	0.0	83.19	14.76	13.8
29-May 18:45	0.00	0.0	88.01	14.18	11.9
29-May 19:00	0.00	0.0	91.48	13.47	2.5
29-May 19:15	0.95	140.7	93.86	12.98	0.4
29-May 19:30	0.00	0.0	93.89	12.52	0.0
29-May 19:45	2.33	59.1	94.73	12.51	0.0
29-May 20:00	4.90	27.3	91.55	12.47	0.0
29-May 20:15	8.26	34.0	79.39	12.62	0.0
29-May 20:30	7.13	60.6	80.09	12.20	0.0
29-May 20:45	4.26	84.0	83.26	11.74	0.0
29-May 21:00	3.57	101.0	81.71	11.45	0.0
29-May 21:15	3.57	80.6	79.91	11.38	0.0
29-May 21:30	4.36	70.4	80.85	11.20	0.0
29-May 21:45	7.49	49.7	76.03	10.80	0.0
29-May 22:00	4.05	21.4	75.80	10.53	0.0
29-May 22:15	3.04	52.9	74.25	10.45	0.0
30-May 1:30	3.06	43.4	75.16	10.30	0.0
30-May 1:45	4.33	64.6	73.23	10.26	0.0
30-May 2:00	2.71	7.7	74.25	10.02	0.0
30-May 2:15	3.35	54.2	77.55	9.73	0.0
30-May 2:30	1.66	106.0	83.23	9.29	0.0
30-May 2:45	2.09	49.8	88.58	8.52	0.0
30-May 3:00	1.54	227.4	92.24	7.65	0.0
30-May 3:15	1.71	112.5	93.73	7.10	0.0
30-May 3:30	1.65	110.4	95.34	7.09	0.0
30-May 3:45	0.32	84.9	95.19	6.86	0.0
30-May 4:00	0.00	0.0	96.43	6.51	0.0
30-May 4:15	0.28	113.7	97.24	6.04	0.0
30-May 4:30	1.08	115.7	97.31	5.61	0.0
30-May 4:45	2.06	263.4	97.80	5.39	0.0
30-May 5:00	0.00	0.0	96.41	5.17	0.0
30-May 5:15	1.71	254.4	97.02	5.03	0.0
30-May 5:30	0.00	0.0	97.39	4.95	0.0
30-May 5:45	0.00	0.0	97.40	5.15	0.2
30-May 6:00	1.87	61.7	97.71	5.46	3.1
30-May 6:15	0.00	0.0	97.55	5.38	4.3
30-May 6:30	0.00	0.0	96.95	5.69	17.5
30-May 6:45	0.00	0.0	96.46	5.86	24.1
30-May 7:00	0.00	0.0	93.45	6.46	146.5
30-May 7:15	0.90	308.7	89.52	7.28	237.6
30-May 7:30	7.86	314.4	74.58	8.60	344.7

30-May	7:45	6.32	321.1	73.59	8.90	185.8
30-May	8:00	11.68	326.2	69.14	9.13	262.9
30-May	8:15	8.37	338.6	68.24	8.74	215.4
30-May	8:30	7.91	320.0	64.04	9.01	512.8
30-May	8:45	7.83	329.9	57.04	9.63	547.0
30-May	9:00	8.26	330.4	58.95	9.47	634.0
30-May	9:15	12.31	347.4	53.15	10.28	691.2
30-May	9:30	15.09	317.9	56.17	9.43	227.0
30-May	9:45	9.97	311.6	55.56	9.96	840.4
30-May	10:00	15.78	341.3	52.25	10.49	229.4
30-May	10:15	16.44	328.4	47.72	11.21	968.6
30-May	10:30	14.45	306.9	45.92	11.09	997.6
30-May	10:45	15.00	327.6	46.02	10.95	339.1
30-May	11:00	15.13	343.9	42.68	11.16	620.6
30-May	11:15	10.10	308.4	43.65	10.80	1167.9
30-May	11:30	6.55	29.3	43.19	11.65	470.9
30-May	11:45	21.24	324.3	38.28	11.53	1178.4
30-May	12:00	12.70	320.4	38.02	11.93	1303.8
30-May	12:15	15.12	314.7	39.49	11.76	1283.1
30-May	12:30	14.13	329.2	34.75	11.82	1189.6
30-May	12:45	6.09	35.0	36.57	12.57	1170.1
30-May	13:00	11.69	338.7	33.14	12.46	552.0
30-May	13:15	18.74	346.7	30.47	12.54	1147.6
30-May	13:30	14.92	329.2	29.46	13.45	909.4
30-May	13:45	21.19	312.0	28.90	12.82	1137.0
30-May	14:00	12.32	308.7	28.48	13.10	833.5
30-May	14:15	13.79	311.2	27.37	14.16	1133.9
30-May	14:30	10.15	325.1	28.16	14.03	649.7
30-May	14:45	11.69	308.8	27.91	14.07	748.5
30-May	15:00	8.80	323.2	26.45	14.84	967.9
30-May	15:15	20.87	329.7	26.42	14.45	292.3
30-May	15:30	18.38	332.8	24.19	14.71	679.6
30-May	15:45	13.95	287.6	24.99	14.43	163.1
30-May	16:00	11.56	299.8	25.02	14.55	246.6
30-May	16:15	9.72	292.9	26.26	14.56	302.8
30-May	16:30	14.41	317.5	24.95	15.08	539.3
30-May	16:45	10.15	343.5	24.63	15.13	463.1
30-May	17:00	14.64	325.5	24.81	14.92	406.1
30-May	17:15	7.31	8.4	26.68	14.97	326.3
30-May	17:30	9.42	326.4	27.36	14.58	259.2
30-May	17:45	15.95	318.9	27.20	14.16	202.5
30-May	18:00	13.38	329.7	28.24	13.89	149.5
30-May	18:15	12.44	354.5	29.39	13.43	89.8
30-May	18:30	12.37	336.3	30.99	13.02	39.9
30-May	18:45	6.22	333.9	32.20	12.51	13.9
30-May	19:00	13.82	326.4	33.00	11.87	4.7
30-May	19:15	7.74	318.4	35.36	11.46	0.3
30-May	19:30	9.09	309.6	36.38	11.20	0.0
30-May	19:45	7.72	313.4	38.59	10.77	0.0
30-May	20:00	4.77	305.9	40.36	10.29	0.0
30-May	20:15	6.04	288.5	42.98	9.66	0.0
30-May	20:30	4.29	268.7	46.31	9.04	0.0

30-May 20:45	5.49	253.0	48.85	8.39	0.0
30-May 21:00	5.06	262.8	48.15	8.28	0.0
30-May 21:15	4.17	240.8	51.37	7.95	0.0
30-May 21:30	4.64	248.2	51.11	7.78	0.0
30-May 21:45	2.93	261.5	52.98	7.61	0.0
30-May 22:00	4.38	244.2	52.71	7.53	0.0
30-May 22:15	2.37	292.1	53.34	7.38	0.0
31-May 1:15	2.91	275.6	53.23	7.36	0.0
31-May 1:30	2.67	54.7	65.82	6.44	0.0
31-May 1:45	0.00	0.0	70.30	6.18	0.0
31-May 2:00	1.11	263.9	72.03	5.76	0.0
31-May 2:15	0.00	0.0	73.97	5.48	0.0
31-May 2:30	2.88	231.4	77.75	4.63	0.0
31-May 2:45	0.00	0.0	78.08	4.63	0.0
31-May 3:00	0.00	0.0	83.51	4.37	0.0
31-May 3:15	0.00	0.0	82.70	4.09	0.0
31-May 3:30	0.00	0.0	83.52	3.72	0.0
31-May 3:45	0.00	0.0	83.56	3.61	0.0
31-May 4:00	1.38	242.6	88.80	3.31	0.0
31-May 4:15	0.59	275.5	83.25	3.31	0.0
31-May 4:30	0.00	0.0	87.42	3.14	0.0
31-May 4:45	1.83	95.4	93.94	2.60	0.0
31-May 5:00	0.00	0.0	93.90	2.35	0.0
31-May 5:15	1.67	99.6	95.49	2.12	0.0
31-May 5:30	0.00	0.0	94.95	1.79	0.0
31-May 5:45	0.00	0.0	92.56	1.39	0.3
31-May 6:00	0.00	0.0	92.59	1.56	6.2
31-May 6:15	2.42	103.0	97.07	1.39	14.0
31-May 6:30	2.61	108.3	95.95	1.31	34.9
31-May 6:45	0.00	0.0	96.44	1.55	47.7
31-May 7:00	0.00	0.0	90.92	1.93	71.2
31-May 7:15	0.00	0.0	89.57	2.28	101.1
31-May 7:30	1.46	108.9	92.03	2.73	126.2
31-May 7:45	1.62	60.4	90.34	3.33	177.9
31-May 8:00	0.00	0.0	83.12	3.98	217.2
31-May 8:15	5.38	238.1	79.17	4.35	260.4
31-May 8:30	4.62	221.9	77.87	5.21	312.0
31-May 8:45	4.43	221.6	73.32	6.43	367.6
31-May 9:00	2.37	255.5	59.34	7.59	463.8
31-May 9:15	6.70	349.2	55.89	8.05	543.1
31-May 9:30	10.67	325.3	55.62	8.19	611.5
31-May 9:45	3.65	19.3	52.46	8.98	698.8
31-May 10:00	5.91	359.1	50.88	9.40	757.5
31-May 10:15	15.86	319.6	50.97	9.26	828.2
31-May 10:30	11.89	357.6	49.96	9.75	856.3
31-May 10:45	5.55	42.0	46.78	10.78	908.7
31-May 11:00	4.42	42.4	41.73	11.44	947.5
31-May 11:15	8.62	348.1	37.39	11.61	982.4
31-May 11:30	17.48	333.7	34.21	12.46	1020.0
31-May 11:45	15.91	314.8	32.61	12.41	1057.1
31-May 12:00	5.43	329.3	34.05	12.68	1069.7
31-May 12:15	4.95	336.4	31.78	13.16	1070.5

31-May 12:30	9.73	320.7	30.49	13.86	1069.3
31-May 12:45	8.64	353.1	32.25	13.81	1006.5
31-May 13:00	7.10	29.1	31.27	14.43	1052.7
31-May 13:15	6.65	339.4	30.68	14.30	1041.9
31-May 13:30	4.44	31.2	32.38	14.36	993.1
31-May 13:45	2.43	11.8	31.02	15.41	1047.1
31-May 14:00	13.85	345.4	28.58	15.55	1011.0
31-May 14:15	4.10	4.8	30.17	16.29	978.8
31-May 14:30	14.33	348.7	29.22	15.30	950.0
31-May 14:45	7.58	334.5	30.12	16.40	913.6
31-May 15:00	9.35	357.9	31.12	16.31	876.3
31-May 15:15	5.23	329.5	30.05	16.59	812.1
31-May 15:30	8.83	23.8	29.60	16.93	761.1
31-May 15:45	4.62	40.2	29.76	16.85	710.6
31-May 16:00	5.71	37.7	29.98	17.05	662.0
31-May 16:15	8.16	343.8	29.65	17.27	607.9
31-May 16:30	9.30	350.7	30.85	16.91	544.0
31-May 16:45	5.54	336.6	31.50	16.77	474.2
31-May 17:00	9.64	339.0	30.70	16.92	430.9
31-May 17:15	6.79	44.7	30.90	16.75	374.1
31-May 17:30	7.28	26.4	31.26	16.84	319.5
31-May 17:45	5.00	1.1	30.29	16.67	229.9
31-May 18:00	3.98	39.9	32.07	16.06	121.8
31-May 18:15	7.71	2.2	32.53	15.53	66.0
31-May 18:30	6.05	4.8	33.83	15.16	56.1
31-May 18:45	3.60	354.9	36.27	14.72	32.3
31-May 19:00	4.17	23.1	38.57	14.09	13.5
31-May 19:15	2.14	41.1	43.32	13.51	1.6
31-May 19:30	3.11	62.7	52.29	12.32	0.1
31-May 19:45	3.60	67.1	61.02	11.21	0.0
31-May 20:00	3.64	51.4	63.35	10.40	0.0
31-May 20:15	5.36	45.6	63.76	9.94	0.0
31-May 20:30	7.87	61.6	57.63	10.18	0.0
31-May 20:45	6.06	63.8	60.26	9.94	0.0
31-May 21:00	7.74	75.0	56.70	9.96	0.0
31-May 21:15	4.65	63.9	59.35	9.20	0.0
31-May 21:30	2.14	62.1	61.08	8.56	0.0
31-May 21:45	2.34	358.7	63.58	8.34	0.0
31-May 22:00	2.67	90.1	67.34	7.70	0.0
31-May 22:15	0.64	63.2	72.38	7.06	0.0
31-May 22:30	3.95	97.0	76.62	6.41	0.0
31-May 22:45	2.87	101.9	78.23	6.10	0.0
1-Jun 1:30	3.40	91.4	79.63	5.94	0.0
1-Jun 1:45	3.49	96.9	80.85	5.35	0.0
1-Jun 2:00	1.72	81.7	83.22	5.36	0.0
1-Jun 2:15	0.00	0.0	86.39	4.80	0.0
1-Jun 2:30	0.00	0.0	86.48	4.45	0.0
1-Jun 2:45	2.91	89.1	85.20	4.06	0.0
1-Jun 3:00	4.17	99.4	88.10	3.71	0.0
1-Jun 3:15	1.22	128.4	88.32	3.73	0.0
1-Jun 3:30	1.71	100.6	86.11	3.55	0.0
1-Jun 3:45	3.74	69.7	90.95	3.32	0.0

1-Jun 4:00	4.24	65.9	91.93	3.02	0.0
1-Jun 4:15	5.64	75.3	91.39	2.86	0.0
1-Jun 4:30	4.58	69.9	92.44	2.54	0.0
1-Jun 4:45	5.85	69.7	93.36	2.45	0.0
1-Jun 5:00	5.49	83.5	92.96	2.12	0.0
1-Jun 5:15	4.30	83.3	94.02	1.81	0.0
1-Jun 5:30	5.01	88.2	94.99	1.64	0.0
1-Jun 5:45	7.12	75.1	94.52	1.50	0.3
1-Jun 6:00	6.90	72.8	95.54	1.27	2.7
1-Jun 6:15	6.40	67.9	94.74	1.30	13.5
1-Jun 6:30	6.43	70.3	94.68	1.40	24.4
1-Jun 6:45	7.95	72.2	93.15	1.66	73.5
1-Jun 7:00	7.43	75.8	90.94	1.93	157.0
1-Jun 7:15	5.84	67.7	90.32	2.46	232.9
1-Jun 7:30	5.86	73.4	85.68	3.14	265.0
1-Jun 7:45	4.21	74.8	82.75	3.88	305.9
1-Jun 8:00	3.15	74.4	79.07	4.91	252.2
1-Jun 8:15	2.67	59.8	75.67	5.66	213.6
1-Jun 8:30	3.80	59.4	69.01	6.97	424.5
1-Jun 8:45	2.58	67.8	63.19	8.49	418.0
1-Jun 9:00	1.99	33.6	57.54	10.18	478.3
1-Jun 9:15	0.00	0.0	51.98	11.75	550.5
1-Jun 9:30	4.53	150.4	37.05	13.17	424.8
1-Jun 9:45	6.97	204.3	32.81	13.73	755.3
1-Jun 10:00	7.91	132.2	33.59	14.03	853.9
1-Jun 10:15	7.18	163.5	34.28	14.92	738.3
1-Jun 10:30	3.73	245.6	34.37	15.65	843.0
1-Jun 10:45	9.83	201.7	35.70	15.34	911.6
1-Jun 11:00	6.10	189.9	37.00	15.59	362.8
1-Jun 11:15	10.87	203.7	37.68	15.44	426.7
1-Jun 11:30	10.62	150.5	36.80	16.15	775.0
1-Jun 11:45	1.26	283.9	39.11	16.26	319.6
1-Jun 12:00	3.42	228.0	37.83	16.48	273.1
1-Jun 12:15	7.24	227.6	39.48	15.89	132.3
1-Jun 12:30	5.66	225.0	42.50	15.44	208.8
1-Jun 12:45	3.20	155.6	49.45	15.07	175.3
1-Jun 13:00	5.90	157.7	58.61	13.90	152.4
1-Jun 13:15	7.05	203.4	62.03	13.43	114.6
1-Jun 13:30	3.53	239.4	76.63	11.93	89.6
1-Jun 13:45	2.59	99.8	80.24	11.83	75.8
1-Jun 14:00	1.35	61.2	83.27	11.60	59.0
1-Jun 14:15	1.65	171.0	89.21	11.42	68.7
1-Jun 14:30	5.06	113.1	86.51	11.31	122.1
1-Jun 14:45	5.36	181.0	89.02	11.09	156.2
1-Jun 15:00	2.47	213.0	87.28	11.31	197.1
1-Jun 15:15	9.84	182.6	86.44	11.31	205.5
1-Jun 15:30	5.09	206.7	88.08	11.43	157.6
1-Jun 15:45	8.24	178.5	86.12	11.40	131.2
1-Jun 16:00	5.56	145.9	86.37	11.43	60.0
1-Jun 16:15	7.04	76.0	87.09	11.47	56.2
1-Jun 16:30	2.47	191.3	87.82	11.41	26.4
1-Jun 16:45	2.32	77.8	89.85	11.18	34.4

1-Jun 17:00	6.39	122.4	88.85	11.33	30.6
1-Jun 17:15	9.07	161.0	89.78	11.35	10.5
1-Jun 17:30	4.75	128.8	92.41	11.12	10.8
1-Jun 17:45	3.55	185.8	93.99	11.16	8.8
1-Jun 18:00	6.09	173.4	93.23	11.24	7.4
1-Jun 18:15	8.29	141.2	94.75	11.16	5.0
1-Jun 18:30	10.72	182.9	94.31	11.22	2.1
1-Jun 18:45	10.58	145.9	94.03	11.11	2.8
1-Jun 19:00	6.43	163.9	93.62	11.06	0.9
1-Jun 19:15	9.79	143.0	94.18	10.73	0.1
1-Jun 19:30	5.45	121.6	93.38	10.22	0.0
1-Jun 19:45	4.50	85.0	94.11	9.64	0.0
1-Jun 20:00	3.67	58.1	94.74	9.44	0.0
1-Jun 20:15	3.96	74.2	96.11	9.50	0.0
1-Jun 20:30	5.43	76.5	95.57	9.69	0.0
1-Jun 20:45	3.70	77.8	96.71	9.86	0.0
1-Jun 21:00	2.76	109.5	96.19	10.09	0.0
1-Jun 21:15	2.70	91.7	96.83	10.30	0.0
1-Jun 21:30	5.60	69.1	96.73	10.53	0.0
1-Jun 21:45	3.59	44.2	96.90	10.77	0.0
1-Jun 22:00	4.45	103.6	96.68	10.95	0.0
1-Jun 22:15	4.36	93.0	96.40	11.18	0.0
2-Jun 0:45	3.28	51.5	97.19	10.92	0.0
2-Jun 1:00	2.90	66.5	97.98	10.84	0.0
2-Jun 1:15	2.35	59.7	98.37	10.78	0.0
2-Jun 1:30	4.39	71.9	97.97	10.88	0.0
2-Jun 1:45	2.67	52.6	97.96	10.96	0.0
2-Jun 2:00	4.17	72.2	98.19	10.95	0.0
2-Jun 2:15	4.37	58.2	98.01	11.08	0.0
2-Jun 2:30	4.03	56.3	98.01	11.14	0.0
2-Jun 2:45	4.50	52.4	98.06	10.99	0.0
2-Jun 3:00	4.42	49.9	98.22	10.81	0.0
2-Jun 3:15	3.30	65.0	98.48	10.84	0.0
2-Jun 3:30	5.50	57.4	98.58	10.74	0.0
2-Jun 3:45	5.05	71.4	98.76	10.84	0.0
2-Jun 4:00	4.71	63.8	98.41	10.86	0.0
2-Jun 4:15	4.31	75.4	98.40	10.98	0.0
2-Jun 4:30	4.97	71.5	98.46	11.04	0.0
2-Jun 4:45	2.66	56.3	98.92	11.02	0.0
2-Jun 5:00	2.56	338.7	99.16	11.14	0.0
2-Jun 5:15	2.80	56.7	99.27	11.10	0.0
2-Jun 5:30	0.00	0.0	99.43	11.16	0.0
2-Jun 5:45	0.00	0.0	99.49	11.13	0.7
2-Jun 6:00	0.00	0.0	99.55	11.19	4.6
2-Jun 6:15	0.00	0.0	99.59	11.24	12.6
2-Jun 6:30	0.00	0.0	99.60	11.24	14.7
2-Jun 6:45	0.00	0.0	99.63	11.38	14.5
2-Jun 7:00	0.00	0.0	99.65	11.49	16.3
2-Jun 7:15	0.00	0.0	99.65	11.57	34.0
2-Jun 7:30	0.00	0.0	99.66	11.83	58.6
2-Jun 7:45	0.00	0.0	99.61	12.01	65.2
2-Jun 8:00	2.25	229.0	99.58	12.13	60.9

2-Jun 8:15	2.05	245.6	99.59	12.40	75.3
2-Jun 8:30	4.28	227.5	99.55	12.57	76.4
2-Jun 8:45	5.30	229.7	99.39	12.78	178.5
2-Jun 9:00	4.22	218.7	99.03	12.99	112.6
2-Jun 9:15	5.91	212.9	98.86	13.03	113.2
2-Jun 9:30	4.21	228.3	98.36	13.15	171.7
2-Jun 9:45	2.92	225.8	96.40	13.54	337.6
2-Jun 10:00	3.83	224.5	92.65	14.31	488.3
2-Jun 10:15	3.48	204.7	89.00	14.91	870.0
2-Jun 10:30	1.38	10.0	84.73	15.88	779.7
2-Jun 10:45	6.87	271.9	74.63	16.29	1001.1
2-Jun 11:00	1.85	271.5	73.48	16.45	628.1
2-Jun 11:15	6.42	241.9	75.32	16.27	366.0
2-Jun 11:30	9.16	298.6	70.34	16.43	433.3
2-Jun 11:45	4.84	297.3	71.65	16.61	392.2
2-Jun 12:00	4.71	244.4	71.57	16.87	395.1
2-Jun 12:15	7.95	234.6	72.20	16.69	300.0
2-Jun 12:30	5.05	296.5	73.01	16.70	812.3
2-Jun 12:45	3.66	275.1	70.94	16.98	894.0
2-Jun 13:00	5.49	242.5	69.89	17.48	412.0
2-Jun 13:15	5.31	297.6	68.60	17.79	495.6
2-Jun 13:30	5.36	244.2	66.94	18.09	955.1
2-Jun 13:45	4.73	229.1	66.19	18.38	512.5
2-Jun 14:00	3.95	245.4	63.60	19.32	882.1
2-Jun 14:15	3.17	259.1	65.11	19.00	314.9
2-Jun 14:30	10.16	242.1	65.65	18.76	377.6
2-Jun 14:45	8.24	254.6	65.83	18.70	227.1
2-Jun 15:00	2.36	171.1	66.28	18.97	155.3
2-Jun 15:15	5.86	221.4	67.33	18.61	173.0
2-Jun 15:30	7.52	247.3	66.44	19.04	236.8
2-Jun 15:45	6.54	210.7	64.84	19.47	563.7
2-Jun 16:00	7.48	231.6	65.72	19.27	230.3
2-Jun 16:15	7.86	247.2	65.56	19.19	139.4
2-Jun 16:30	9.48	252.3	66.10	18.88	68.6
2-Jun 16:45	4.49	240.4	65.87	19.27	298.7
2-Jun 17:00	5.07	206.6	66.24	19.05	75.9
2-Jun 17:15	4.88	220.1	69.18	18.52	36.2
2-Jun 17:30	2.22	223.1	73.02	18.05	50.2
2-Jun 17:45	2.73	235.6	74.26	17.57	22.4
2-Jun 18:00	1.88	230.4	75.47	17.54	13.6
2-Jun 18:15	0.00	0.0	79.89	17.07	3.8
2-Jun 18:30	0.00	0.0	78.19	17.02	1.6
2-Jun 18:45	0.00	0.0	79.73	16.88	1.4
2-Jun 19:00	0.00	0.0	82.06	16.51	0.2
2-Jun 19:15	1.56	54.4	86.76	15.68	0.0
2-Jun 19:30	1.92	101.8	89.10	15.24	0.0
2-Jun 19:45	2.74	99.0	90.69	14.78	0.0
2-Jun 20:00	1.94	41.4	91.60	14.61	0.0
2-Jun 20:15	2.71	64.9	94.70	14.23	0.0
2-Jun 20:30	0.86	69.9	94.15	13.90	0.0
2-Jun 20:45	2.61	70.0	96.47	13.46	0.0
2-Jun 21:00	2.17	32.0	96.67	13.12	0.0

2-Jun 21:15	1.70	69.2	97.31	12.78	0.0
2-Jun 21:30	2.23	48.2	97.02	12.65	0.0
2-Jun 21:45	2.66	36.3	97.36	12.41	0.0
2-Jun 22:00	1.77	69.9	97.82	12.25	0.0
2-Jun 22:15	1.98	62.3	97.48	12.23	0.0
3-Jun 1:30	3.19	56.1	97.43	12.00	0.0
3-Jun 1:45	2.35	74.3	97.30	12.01	0.0
3-Jun 2:00	2.09	55.3	97.60	11.97	0.0
3-Jun 2:15	12.71	265.7	97.11	12.20	0.0
3-Jun 2:30	4.04	258.6	90.58	13.65	0.0
3-Jun 2:45	0.00	0.0	95.85	13.00	0.0
3-Jun 3:00	0.00	0.0	96.39	12.83	0.0
3-Jun 3:15	1.31	193.5	96.44	12.64	0.0
3-Jun 3:30	4.02	95.6	95.80	12.78	0.0
3-Jun 3:45	3.29	88.4	96.24	12.51	0.0
3-Jun 4:00	2.73	72.4	97.72	12.46	0.0
3-Jun 4:15	1.97	59.5	97.37	12.38	0.0
3-Jun 4:30	4.44	75.7	97.22	12.31	0.0
3-Jun 4:45	2.37	62.9	97.57	12.22	0.0
3-Jun 5:00	2.09	71.7	97.08	12.43	0.0
3-Jun 5:15	13.18	268.0	98.28	12.31	0.0
3-Jun 5:30	2.86	355.7	98.95	12.32	0.0
3-Jun 5:45	1.59	102.7	98.93	12.30	0.6
3-Jun 6:00	3.15	177.8	99.35	12.46	1.0
3-Jun 6:15	2.60	331.6	99.34	12.45	1.7
3-Jun 6:30	0.00	0.0	99.44	12.39	49.4
3-Jun 6:45	4.41	237.0	99.23	12.45	81.6
3-Jun 7:00	4.62	220.7	99.42	12.54	47.3
3-Jun 7:15	4.23	227.1	99.50	12.61	52.3
3-Jun 7:30	4.27	258.1	99.28	12.76	112.7
3-Jun 7:45	2.32	195.7	98.92	12.94	73.2
3-Jun 8:00	3.06	255.7	98.30	13.01	109.8
3-Jun 8:15	5.92	253.4	96.84	12.87	96.3
3-Jun 8:30	4.54	240.2	96.57	13.03	194.4
3-Jun 8:45	5.62	243.0	95.87	12.94	195.7
3-Jun 9:00	5.83	241.0	94.57	12.98	227.9
3-Jun 9:15	7.07	245.1	92.04	13.39	401.8
3-Jun 9:30	5.57	272.5	86.84	14.28	292.7
3-Jun 9:45	10.31	278.6	84.07	14.10	889.2
3-Jun 10:00	10.06	271.8	80.55	14.36	283.5
3-Jun 10:15	11.49	224.5	76.60	15.05	1030.5
3-Jun 10:30	9.92	286.7	68.77	15.65	302.6
3-Jun 10:45	9.99	297.8	68.82	15.51	238.6
3-Jun 11:00	13.17	305.1	67.11	15.60	1244.5
3-Jun 11:15	14.74	255.6	62.54	15.73	262.6
3-Jun 11:30	12.41	259.0	64.53	15.21	267.7
3-Jun 11:45	12.15	235.1	67.82	14.71	167.6
3-Jun 12:00	15.10	279.9	67.47	15.63	548.2
3-Jun 12:15	9.26	224.0	66.69	15.75	427.3
3-Jun 12:30	10.57	276.7	67.65	15.55	207.4
3-Jun 12:45	7.45	245.9	69.70	15.31	171.0
3-Jun 13:00	6.20	248.8	87.75	12.76	102.8

3-Jun 13:15	2.40	259.2	87.40	13.02	283.5
3-Jun 13:30	2.97	197.3	78.76	14.36	423.7
3-Jun 13:45	3.61	260.6	81.90	14.37	106.7
3-Jun 14:00	3.42	273.9	79.18	14.70	282.2
3-Jun 14:15	6.22	234.9	79.36	14.50	87.1
3-Jun 14:30	8.65	237.7	76.48	14.32	126.0
3-Jun 14:45	9.70	236.1	69.17	14.72	444.5
3-Jun 15:00	9.24	243.3	67.54	14.93	138.7
3-Jun 15:15	6.58	246.9	63.65	15.61	781.0
3-Jun 15:30	18.45	266.6	56.50	15.78	730.8
3-Jun 15:45	10.34	259.4	58.44	15.78	86.4
3-Jun 16:00	10.82	252.3	62.71	14.70	93.9
3-Jun 16:15	11.01	260.2	60.14	15.07	493.9
3-Jun 16:30	9.21	274.5	56.34	15.39	334.8
3-Jun 16:45	10.35	241.4	62.53	14.92	360.5
3-Jun 17:00	9.89	236.1	64.52	14.64	222.9
3-Jun 17:15	8.38	251.4	67.48	14.09	56.1
3-Jun 17:30	9.00	243.1	68.64	13.81	19.1
3-Jun 17:45	6.70	253.4	69.68	13.73	54.5
3-Jun 18:00	5.55	246.3	70.91	13.51	14.5
3-Jun 18:15	6.98	254.8	69.68	13.42	3.4
3-Jun 18:30	11.91	259.8	68.07	13.30	0.6
3-Jun 18:45	6.78	248.6	70.97	12.94	0.0
3-Jun 19:00	6.45	275.6	72.75	12.61	0.0
3-Jun 19:15	5.69	239.2	75.67	12.10	0.0
3-Jun 19:30	5.16	235.3	76.47	11.95	0.0
3-Jun 19:45	3.52	230.5	77.53	11.77	0.0
3-Jun 20:00	2.55	210.6	79.46	11.67	0.0
3-Jun 20:15	4.99	232.7	82.07	11.32	0.0
3-Jun 20:30	6.46	235.5	82.46	11.25	0.0
3-Jun 20:45	7.12	248.5	82.02	11.39	0.0
3-Jun 21:00	6.17	246.5	81.69	11.44	0.0
3-Jun 21:15	6.00	243.1	82.79	11.36	0.0
3-Jun 21:30	5.51	265.3	84.60	11.05	0.0
3-Jun 21:45	2.41	276.3	85.64	10.93	0.0
3-Jun 22:00	2.13	250.7	85.82	10.93	0.0
3-Jun 22:15	3.81	262.9	86.32	10.89	0.0
3-Jun 22:30	6.11	233.9	87.32	10.78	0.0
3-Jun 22:45	5.51	230.0	88.61	10.50	0.0
3-Jun 23:00	3.93	249.4	88.85	10.33	0.0
3-Jun 23:15	5.56	240.0	89.50	10.12	0.0
4-Jun 3:15	6.30	245.2	90.74	9.86	0.0
4-Jun 3:30	6.84	267.4	90.05	10.02	0.0
4-Jun 3:45	7.92	270.0	89.54	10.10	0.0
4-Jun 4:00	6.18	280.7	89.93	10.05	0.0
4-Jun 4:15	6.65	275.6	90.38	10.04	0.0
4-Jun 4:30	5.64	246.6	91.50	9.92	0.0
4-Jun 4:45	8.55	242.5	90.77	10.06	0.0
4-Jun 5:00	6.36	289.8	88.24	10.38	0.0
4-Jun 5:15	6.68	239.8	88.24	10.48	0.0
4-Jun 5:30	8.31	235.7	88.17	10.50	0.0
4-Jun 5:45	5.86	249.0	88.68	10.38	0.1

4-Jun 6:00	4.83	252.0	88.80	10.31	1.0
4-Jun 6:15	2.31	260.2	89.63	10.09	4.4
4-Jun 6:30	0.10	0.0	91.05	9.82	13.0
4-Jun 6:45	2.79	275.1	90.22	9.91	26.5
4-Jun 7:00	3.64	247.2	90.91	9.92	16.4
4-Jun 7:15	4.62	266.8	89.80	10.03	30.6
4-Jun 7:30	4.94	232.7	88.75	10.42	79.5
4-Jun 7:45	4.55	216.5	87.28	10.69	98.8
4-Jun 8:00	3.13	252.4	84.81	11.00	90.2
4-Jun 8:15	6.53	276.3	81.90	11.43	140.0
4-Jun 8:30	5.90	284.2	79.82	12.00	214.5
4-Jun 8:45	5.19	296.0	77.30	12.56	249.2
4-Jun 9:00	9.93	289.4	75.70	12.97	236.2
4-Jun 9:15	4.89	256.8	73.38	13.50	342.3
4-Jun 9:30	7.66	322.4	71.04	13.45	298.3
4-Jun 9:45	7.45	334.0	70.03	14.02	296.8
4-Jun 10:00	10.75	298.5	69.58	14.08	303.3
4-Jun 10:15	8.79	245.3	66.52	15.14	720.4
4-Jun 10:30	7.97	287.1	65.41	15.16	393.5
4-Jun 10:45	8.37	275.6	65.52	15.37	693.7
4-Jun 11:00	9.47	273.5	60.39	15.73	460.2
4-Jun 11:15	9.25	289.3	57.85	15.86	390.8
4-Jun 11:30	6.43	242.8	61.85	15.88	237.1
4-Jun 11:45	5.40	313.2	56.69	16.69	555.9
4-Jun 12:00	7.11	303.4	55.72	16.69	622.5
4-Jun 12:15	5.34	249.8	56.72	16.47	340.3
4-Jun 12:30	6.49	233.0	61.84	16.50	473.7
4-Jun 12:45	3.08	243.2	59.27	16.98	313.7
4-Jun 13:00	3.20	247.3	62.27	16.37	249.3
4-Jun 13:15	4.18	299.1	57.56	17.37	289.1
4-Jun 13:30	6.32	300.7	57.17	17.06	273.3
4-Jun 13:45	5.50	254.3	59.60	17.10	226.1
4-Jun 14:00	10.22	279.7	58.16	17.38	136.4
4-Jun 14:15	7.48	259.9	55.43	18.02	542.6
4-Jun 14:30	6.94	263.6	56.75	18.05	345.5
4-Jun 14:45	7.42	272.2	58.55	17.67	324.7
4-Jun 15:00	5.79	223.1	58.37	17.47	211.7
4-Jun 15:15	8.87	357.5	56.72	17.42	142.6
4-Jun 15:30	16.04	317.4	54.33	18.11	281.4
4-Jun 15:45	9.97	304.0	54.91	18.01	290.1
4-Jun 16:00	10.84	295.8	54.97	17.89	304.4
4-Jun 16:15	5.63	288.9	54.40	18.36	403.3
4-Jun 16:30	7.24	295.5	54.96	17.82	203.5
4-Jun 16:45	6.64	289.5	55.89	17.93	200.5
4-Jun 17:00	5.80	331.5	54.56	17.98	255.4
4-Jun 17:15	10.21	304.3	55.63	17.73	355.7
4-Jun 17:30	8.17	306.9	54.40	18.08	289.9
4-Jun 17:45	7.85	334.1	55.00	18.02	172.3
4-Jun 18:00	5.02	299.7	56.55	17.84	67.5
4-Jun 18:15	3.23	251.4	59.52	17.22	73.2
4-Jun 18:30	2.59	276.2	61.36	16.92	38.1
4-Jun 18:45	0.00	0.0	66.47	16.66	17.0

4-Jun 19:00	0.00	0.0	72.76	15.56	4.1
4-Jun 19:15	2.41	87.3	77.79	14.72	1.1
4-Jun 19:30	0.00	0.0	79.91	14.24	0.0
4-Jun 19:45	0.00	0.0	82.23	13.99	0.0
4-Jun 20:00	0.57	56.3	84.70	13.54	0.0
4-Jun 20:15	0.00	0.0	85.62	13.43	0.0
4-Jun 20:30	2.14	81.9	87.74	12.85	0.0
4-Jun 20:45	1.26	83.6	88.87	12.53	0.0
4-Jun 21:00	2.97	80.8	91.12	11.95	0.0
4-Jun 21:15	2.67	79.8	93.09	11.35	0.0
4-Jun 21:30	2.54	74.3	93.54	11.03	0.0
4-Jun 21:45	3.34	72.2	93.81	11.22	0.0
4-Jun 22:00	2.37	64.7	94.79	10.87	0.0
4-Jun 22:15	3.13	64.8	95.17	10.58	0.0
4-Jun 22:30	3.84	86.0	94.87	9.87	0.0
5-Jun 1:45	3.70	81.6	96.93	9.69	0.0
5-Jun 2:00	2.54	84.9	97.21	9.36	0.0
5-Jun 2:15	3.13	70.7	97.63	9.09	0.0
5-Jun 2:30	2.12	78.1	96.57	8.83	0.0
5-Jun 2:45	4.60	56.9	98.01	8.89	0.0
5-Jun 3:00	4.59	59.3	97.34	8.87	0.0
5-Jun 3:15	2.81	85.6	97.20	8.30	0.0
5-Jun 3:30	4.11	62.6	97.56	8.39	0.0
5-Jun 3:45	4.37	58.1	96.70	8.50	0.0
5-Jun 4:00	6.06	51.3	95.23	8.89	0.0
5-Jun 4:15	6.06	41.5	93.44	9.18	0.0
5-Jun 4:30	3.78	56.9	93.85	9.20	0.0
5-Jun 4:45	6.28	79.5	88.61	10.14	0.0
5-Jun 5:00	3.39	32.1	89.47	9.74	0.0
5-Jun 5:15	1.92	45.2	90.80	9.47	0.0
5-Jun 5:30	2.74	58.3	91.91	8.98	0.0
5-Jun 5:45	3.60	50.8	92.05	8.81	0.3
5-Jun 6:00	1.80	55.4	94.61	8.07	2.6
5-Jun 6:15	1.78	68.5	93.84	8.26	10.2
5-Jun 6:30	1.84	54.3	92.67	8.50	40.8
5-Jun 6:45	0.78	98.2	90.33	8.86	88.0
5-Jun 7:00	0.00	0.0	88.95	9.25	132.9
5-Jun 7:15	0.00	0.0	84.50	10.17	183.9
5-Jun 7:30	0.00	0.0	84.83	10.47	238.1
5-Jun 7:45	0.77	83.3	81.23	11.35	288.9
5-Jun 8:00	1.33	72.3	77.30	12.44	344.3
5-Jun 8:15	2.31	78.3	78.35	12.40	407.9
5-Jun 8:30	8.96	34.8	78.09	12.23	486.8
5-Jun 8:45	4.83	29.7	77.29	12.33	540.7
5-Jun 9:00	8.26	28.9	80.22	11.49	469.8
5-Jun 9:15	6.66	42.8	76.62	12.26	681.6
5-Jun 9:30	8.47	29.8	73.83	12.68	719.3
5-Jun 9:45	4.60	26.0	72.80	12.95	772.8
5-Jun 10:00	4.11	52.5	70.20	13.45	819.8
5-Jun 10:15	5.95	37.9	69.06	13.86	866.9
5-Jun 10:30	3.58	44.6	69.45	14.04	846.4
5-Jun 10:45	4.61	346.0	66.50	14.51	934.3

5-Jun 11:00	5.74	53.0	63.84	15.18	966.7
5-Jun 11:15	4.21	37.8	61.93	15.87	996.4
5-Jun 11:30	6.70	2.4	57.36	16.78	1025.3
5-Jun 11:45	6.58	53.0	55.28	17.18	1033.9
5-Jun 12:00	3.96	358.3	53.84	17.59	1028.8
5-Jun 12:15	11.79	289.8	53.41	17.74	1058.6
5-Jun 12:30	9.27	279.2	49.98	18.55	1072.5
5-Jun 12:45	9.45	297.0	52.08	17.96	1076.9
5-Jun 13:00	7.36	305.0	49.42	19.12	1109.5
5-Jun 13:15	6.35	265.5	49.93	19.44	217.0
5-Jun 13:30	5.01	306.5	49.53	19.76	1001.8
5-Jun 13:45	2.18	62.7	47.77	20.15	1093.1
5-Jun 14:00	1.58	358.1	46.78	20.48	793.9
5-Jun 14:15	15.69	333.3	46.86	20.45	1019.0
5-Jun 14:30	10.61	319.9	46.77	20.60	309.0
5-Jun 14:45	5.08	0.4	48.36	20.70	319.4
5-Jun 15:00	6.10	39.7	49.20	20.39	500.2
5-Jun 15:15	3.92	303.4	47.30	21.06	366.3
5-Jun 15:30	5.29	38.5	47.04	21.10	803.2
5-Jun 15:45	5.04	2.6	46.09	21.17	280.0
5-Jun 16:00	10.35	336.5	46.96	21.12	528.6
5-Jun 16:15	8.21	339.7	48.60	20.83	390.1
5-Jun 16:30	6.12	42.9	50.85	20.67	302.1
5-Jun 16:45	2.72	47.2	50.91	20.60	360.2
5-Jun 17:00	3.38	45.5	52.47	20.31	221.6
5-Jun 17:15	5.55	40.1	51.83	20.13	360.4
5-Jun 17:30	7.55	35.1	53.07	19.66	99.8
5-Jun 17:45	2.91	59.3	56.03	19.24	49.4
5-Jun 18:00	6.45	39.6	56.18	18.91	28.5
5-Jun 18:15	3.82	49.8	57.87	18.57	29.4
5-Jun 18:30	6.35	42.1	57.63	18.33	19.5
5-Jun 18:45	6.40	22.7	58.16	18.08	3.6
5-Jun 19:00	2.44	19.0	59.80	17.84	2.6
5-Jun 19:15	3.43	15.0	60.55	17.50	0.4
5-Jun 19:30	2.02	57.0	62.81	17.28	0.0
5-Jun 19:45	0.00	0.0	64.57	17.06	0.0
5-Jun 20:00	1.53	188.5	66.29	16.95	0.0
5-Jun 20:15	1.95	224.6	67.89	16.48	0.0
5-Jun 20:30	3.49	222.4	71.71	15.84	0.0
5-Jun 20:45	3.53	226.8	73.23	15.74	0.0
5-Jun 21:00	0.00	0.0	71.25	15.91	0.0
5-Jun 21:15	2.58	232.8	72.15	15.44	0.0
5-Jun 21:30	0.35	246.6	73.00	15.65	0.0
5-Jun 21:45	0.00	0.0	75.61	15.25	0.0
5-Jun 22:00	0.00	0.0	73.16	15.21	0.0
5-Jun 22:15	2.03	46.3	81.89	14.52	0.0
6-Jun 1:45	2.14	71.3	81.77	14.20	0.0
6-Jun 2:00	2.90	49.6	86.44	13.43	0.0
6-Jun 2:15	1.69	70.4	87.62	13.18	0.0
6-Jun 2:30	0.54	70.5	85.93	13.51	0.0
6-Jun 2:45	1.83	57.6	86.21	13.49	0.0
6-Jun 3:00	3.62	46.1	85.45	13.50	0.0

6-Jun	3:15	0.00	0.0	83.59	13.84	0.0
6-Jun	3:30	1.14	89.9	86.74	13.64	0.0
6-Jun	3:45	3.59	237.3	78.99	14.24	0.0
6-Jun	4:00	1.48	80.6	78.13	14.65	0.0
6-Jun	4:15	1.81	26.3	75.09	14.56	0.0
6-Jun	4:30	0.00	0.0	75.24	14.67	0.0
6-Jun	4:45	1.80	295.1	77.46	14.50	0.0
6-Jun	5:00	2.08	0.1	76.84	14.51	0.0
6-Jun	5:15	1.33	25.5	80.34	14.25	0.0
6-Jun	5:30	2.97	41.2	80.47	14.26	0.0
6-Jun	5:45	7.36	53.8	78.72	14.31	0.0
6-Jun	6:00	4.47	60.0	80.05	14.30	1.6
6-Jun	6:15	3.44	61.9	80.44	14.20	5.9
6-Jun	6:30	4.84	24.0	79.77	14.06	20.7
6-Jun	6:45	1.74	57.7	81.01	13.86	13.6
6-Jun	7:00	1.61	324.7	80.49	14.01	28.5
6-Jun	7:15	4.63	27.3	80.01	14.09	50.2
6-Jun	7:30	0.54	2.5	80.08	14.21	82.4
6-Jun	7:45	3.41	292.9	79.99	14.31	82.5
6-Jun	8:00	4.64	26.8	79.75	14.50	116.8
6-Jun	8:15	5.00	334.4	76.53	14.89	256.0
6-Jun	8:30	8.72	9.3	75.56	15.15	183.7
6-Jun	8:45	4.45	53.8	75.17	15.20	401.2
6-Jun	9:00	3.98	44.4	72.83	15.80	316.3
6-Jun	9:15	5.91	24.2	73.61	15.94	333.5
6-Jun	9:30	4.43	37.6	73.45	15.62	338.4
6-Jun	9:45	7.86	356.2	72.07	15.86	343.6
6-Jun	10:00	1.15	312.1	68.66	16.53	436.9
6-Jun	10:15	4.68	28.3	67.06	16.58	373.4
6-Jun	10:30	3.97	43.8	66.67	16.62	379.7
6-Jun	10:45	5.30	50.8	66.69	16.50	318.2
6-Jun	11:00	1.61	43.0	65.39	16.90	210.0
6-Jun	11:15	1.84	22.8	65.03	17.20	232.0
6-Jun	11:30	0.86	82.3	64.80	17.38	223.5
6-Jun	11:45	7.27	346.7	61.98	17.09	298.8
6-Jun	12:00	4.18	38.7	60.49	17.38	383.2
6-Jun	12:15	1.80	69.3	57.61	18.29	556.0
6-Jun	12:30	4.67	331.6	56.05	18.37	1019.4
6-Jun	12:45	6.68	344.4	53.43	19.05	377.4
6-Jun	13:00	9.76	323.1	47.51	19.39	807.5
6-Jun	13:15	7.59	20.7	45.01	19.59	934.0
6-Jun	13:30	3.54	21.5	50.22	19.45	395.0
6-Jun	13:45	10.01	333.0	48.48	19.60	865.8
6-Jun	14:00	3.93	276.7	50.85	19.81	362.9
6-Jun	14:15	6.96	336.9	51.52	19.54	458.8
6-Jun	14:30	13.46	327.8	47.77	19.90	338.5
6-Jun	14:45	11.74	329.6	49.30	19.65	376.7
6-Jun	15:00	8.04	345.6	46.99	19.85	449.4
6-Jun	15:15	3.77	41.7	47.45	20.13	315.6
6-Jun	15:30	5.19	342.9	46.56	19.87	282.4
6-Jun	15:45	4.08	33.7	46.58	19.64	263.8
6-Jun	16:00	3.39	353.9	48.13	19.74	246.1

6-Jun 16:15	7.44	335.6	47.49	19.56	250.4
6-Jun 16:30	4.54	332.5	48.17	19.58	215.9
6-Jun 16:45	2.67	327.0	49.70	19.44	191.3
6-Jun 17:00	6.46	348.9	48.80	19.39	225.7
6-Jun 17:15	3.78	353.4	50.80	19.55	129.9
6-Jun 17:30	4.47	13.6	52.35	19.19	120.3
6-Jun 17:45	2.68	52.8	53.47	19.05	79.5
6-Jun 18:00	2.72	356.8	54.09	18.82	73.2
6-Jun 18:15	7.90	2.8	54.09	18.48	57.5
6-Jun 18:30	5.35	17.4	54.44	17.99	27.1
6-Jun 18:45	2.05	45.0	57.05	17.55	8.4
6-Jun 19:00	1.88	62.2	59.22	17.13	1.8
6-Jun 19:15	0.00	0.0	62.84	16.51	0.1
6-Jun 19:30	2.20	65.8	66.90	15.69	0.0
6-Jun 19:45	2.66	69.3	72.02	15.03	0.0
6-Jun 20:00	2.85	102.7	73.59	14.51	0.0
6-Jun 20:15	1.31	74.9	75.35	14.21	0.0
6-Jun 20:30	3.29	56.6	77.03	14.04	0.0
6-Jun 20:45	2.06	82.2	77.43	13.80	0.0
6-Jun 21:00	2.29	75.9	77.10	13.83	0.0
6-Jun 21:15	2.34	61.3	78.67	13.70	0.0
6-Jun 21:30	3.25	70.2	79.38	13.52	0.0
6-Jun 21:45	3.71	88.6	80.64	13.10	0.0
6-Jun 22:00	2.42	76.5	81.44	12.78	0.0
6-Jun 22:15	2.96	57.7	84.39	12.16	0.0
7-Jun 1:45	3.54	75.5	86.68	11.62	0.0
7-Jun 2:00	2.88	71.1	89.15	11.21	0.0
7-Jun 2:15	3.59	68.2	89.71	10.85	0.0
7-Jun 2:30	3.08	83.2	90.85	10.25	0.0
7-Jun 2:45	3.10	97.0	90.00	10.02	0.0
7-Jun 3:00	4.54	88.6	91.60	9.79	0.0
7-Jun 3:15	2.94	63.2	88.77	10.00	0.0
7-Jun 3:30	2.80	64.0	89.17	10.09	0.0
7-Jun 3:45	3.07	99.3	89.54	9.82	0.0
7-Jun 4:00	2.42	70.5	88.61	10.09	0.0
7-Jun 4:15	4.96	77.5	89.48	10.03	0.0
7-Jun 4:30	4.35	94.3	89.57	9.78	0.0
7-Jun 4:45	3.18	86.6	86.37	10.05	0.0
7-Jun 5:00	1.16	141.6	81.49	10.55	0.0
7-Jun 5:15	1.78	93.5	74.73	11.26	0.0
7-Jun 5:30	3.48	134.1	80.06	10.76	0.0
7-Jun 5:45	3.58	102.9	82.63	10.34	0.6
7-Jun 6:00	0.48	0.0	82.47	10.22	5.3
7-Jun 6:15	1.10	24.6	85.08	9.96	15.0
7-Jun 6:30	1.30	107.3	82.79	10.11	45.9
7-Jun 6:45	1.51	87.3	82.19	10.49	145.3
7-Jun 7:00	2.38	83.8	82.25	10.94	190.6
7-Jun 7:15	2.90	65.2	75.78	12.23	273.0
7-Jun 7:30	2.77	66.6	70.24	12.96	324.5
7-Jun 7:45	3.05	69.3	66.49	13.73	340.9
7-Jun 8:00	2.09	75.2	62.53	13.86	393.9
7-Jun 8:15	3.41	67.1	58.76	14.83	457.8

7-Jun 8:30	0.24	41.8	53.51	16.32	519.2
7-Jun 8:45	2.42	42.7	53.63	16.41	582.2
7-Jun 9:00	3.55	123.6	55.72	15.94	599.5
7-Jun 9:15	6.00	95.4	54.95	16.31	492.5
7-Jun 9:30	6.69	77.7	51.79	16.96	723.0
7-Jun 9:45	5.00	58.4	50.78	17.07	703.4
7-Jun 10:00	5.05	78.9	48.36	17.00	840.4
7-Jun 10:15	4.88	53.1	47.52	17.71	876.5
7-Jun 10:30	3.91	343.3	45.59	18.26	959.3
7-Jun 10:45	6.56	54.6	44.86	18.80	971.2
7-Jun 11:00	5.47	347.9	47.20	18.48	1037.4
7-Jun 11:15	8.09	337.6	43.57	19.19	1217.1
7-Jun 11:30	4.13	349.5	45.44	18.85	1006.3
7-Jun 11:45	3.19	51.5	48.69	19.05	831.8
7-Jun 12:00	5.79	10.5	47.18	19.20	952.9
7-Jun 12:15	8.99	59.2	46.52	19.56	765.3
7-Jun 12:30	7.84	33.0	46.16	19.75	378.7
7-Jun 12:45	1.44	0.4	43.35	20.37	869.0
7-Jun 13:00	4.11	47.9	42.31	20.15	1278.8
7-Jun 13:15	10.82	330.0	44.15	19.93	1158.8
7-Jun 13:30	7.40	54.8	43.09	20.05	1012.2
7-Jun 13:45	3.47	79.8	41.68	20.59	1144.2
7-Jun 14:00	1.13	60.3	41.92	20.58	781.0
7-Jun 14:15	12.35	332.9	39.39	20.94	912.4
7-Jun 14:30	4.27	343.5	37.28	21.61	1047.6
7-Jun 14:45	6.92	327.8	37.43	21.78	954.7
7-Jun 15:00	8.66	345.5	38.28	21.73	686.4
7-Jun 15:15	8.57	14.2	37.37	21.66	348.6
7-Jun 15:30	10.26	321.4	37.34	21.56	851.3
7-Jun 15:45	3.66	49.0	37.16	21.84	737.7
7-Jun 16:00	6.12	345.6	35.24	22.10	618.0
7-Jun 16:15	3.96	8.2	34.54	22.58	588.1
7-Jun 16:30	4.62	303.5	38.51	21.77	488.2
7-Jun 16:45	8.68	322.2	34.71	22.08	423.4
7-Jun 17:00	8.56	331.8	33.00	21.99	359.8
7-Jun 17:15	11.22	350.8	33.49	21.94	271.8
7-Jun 17:30	5.26	353.8	35.15	21.90	206.2
7-Jun 17:45	6.51	21.0	34.23	21.80	142.3
7-Jun 18:00	4.23	343.2	37.19	20.89	79.0
7-Jun 18:15	3.24	353.6	39.45	20.37	30.1
7-Jun 18:30	5.97	5.2	41.98	19.54	16.3
7-Jun 18:45	2.45	38.0	47.61	18.88	8.1
7-Jun 19:00	1.80	46.7	53.28	17.70	1.6
7-Jun 19:15	3.07	58.3	62.75	16.45	0.1
7-Jun 19:30	3.23	52.1	66.72	15.47	0.0
7-Jun 19:45	2.18	59.3	68.81	14.98	0.0
7-Jun 20:00	4.01	49.4	69.08	14.25	0.0
7-Jun 20:15	3.79	71.3	73.69	13.74	0.0
7-Jun 20:30	3.86	84.3	77.44	12.96	0.0
7-Jun 20:45	2.78	70.1	77.76	12.78	0.0
7-Jun 21:00	3.44	72.7	77.01	12.70	0.0
7-Jun 21:15	3.66	89.0	77.08	12.16	0.0

7-Jun 21:30	3.04	87.4	78.28	11.98	0.0
7-Jun 21:45	2.06	72.9	76.87	11.80	0.0
7-Jun 22:00	3.22	91.2	78.33	11.39	0.0
7-Jun 22:15	2.36	86.3	79.83	10.59	0.0
8-Jun 1:45	2.86	85.3	80.92	10.08	0.0
8-Jun 2:00	2.63	74.5	83.28	10.00	0.0
8-Jun 2:15	2.81	94.7	85.55	9.64	0.0
8-Jun 2:30	3.38	63.0	90.57	9.27	0.0
8-Jun 2:45	3.22	65.6	91.33	9.02	0.0
8-Jun 3:00	2.94	90.5	89.78	8.22	0.0
8-Jun 3:15	3.40	69.4	92.44	8.28	0.0
8-Jun 3:30	3.12	89.8	91.81	7.81	0.0
8-Jun 3:45	3.60	92.4	93.02	7.59	0.0
8-Jun 4:00	3.44	78.6	94.26	7.38	0.0
8-Jun 4:15	3.86	58.8	95.14	7.36	0.0
8-Jun 4:30	2.98	71.6	93.80	6.97	0.0
8-Jun 4:45	3.43	93.3	92.10	6.61	0.0
8-Jun 5:00	2.47	81.0	93.88	6.62	0.0
8-Jun 5:15	2.81	91.7	93.27	6.32	0.0
8-Jun 5:30	2.84	78.6	92.30	6.15	0.0
8-Jun 5:45	3.86	57.4	94.65	6.24	0.3
8-Jun 6:00	4.34	74.5	94.10	6.08	3.0
8-Jun 6:15	3.80	76.0	95.79	6.15	7.6
8-Jun 6:30	2.85	63.7	94.08	5.93	12.6
8-Jun 6:45	2.36	69.0	93.55	5.88	20.5
8-Jun 7:00	3.58	56.7	94.92	6.10	35.6
8-Jun 7:15	4.29	73.9	93.15	6.40	132.3
8-Jun 7:30	3.65	54.5	88.72	7.20	269.2
8-Jun 7:45	2.47	66.5	85.20	8.14	318.0
8-Jun 8:00	2.33	61.0	80.68	9.19	374.4
8-Jun 8:15	1.79	63.5	76.53	10.71	432.7
8-Jun 8:30	1.04	83.4	73.63	11.74	492.6
8-Jun 8:45	0.00	0.0	67.68	13.54	557.6
8-Jun 9:00	0.76	116.5	60.07	15.21	618.1
8-Jun 9:15	2.27	201.7	61.74	15.27	676.6
8-Jun 9:30	0.00	0.0	50.05	17.62	733.4
8-Jun 9:45	2.27	131.3	50.17	17.92	789.5
8-Jun 10:00	2.52	32.0	37.94	19.44	789.0
8-Jun 10:15	6.54	44.6	39.91	19.26	786.6
8-Jun 10:30	5.25	18.4	40.48	19.18	935.2
8-Jun 10:45	6.07	40.3	39.21	19.56	984.9
8-Jun 11:00	7.79	56.1	31.85	19.25	1009.8
8-Jun 11:15	7.20	7.5	26.37	19.87	986.4
8-Jun 11:30	11.27	54.8	26.78	19.61	1006.3
8-Jun 11:45	7.85	59.6	28.19	19.49	1057.1
8-Jun 12:00	6.80	344.5	28.59	20.20	1091.0
8-Jun 12:15	11.29	352.6	25.67	20.55	1022.6
8-Jun 12:30	9.16	321.3	24.95	20.95	1098.8
8-Jun 12:45	6.67	7.7	27.05	20.91	1061.7
8-Jun 13:00	9.21	347.1	28.58	21.07	1018.0
8-Jun 13:15	3.49	33.2	29.03	20.90	1063.2
8-Jun 13:30	9.43	27.1	26.56	21.64	1005.5

8-Jun 13:45	16.63	310.4	26.58	21.28	997.2
8-Jun 14:00	15.16	349.0	26.50	21.67	999.2
8-Jun 14:15	5.21	353.6	27.04	22.03	975.9
8-Jun 14:30	5.97	17.8	28.44	21.86	953.8
8-Jun 14:45	9.70	328.3	27.66	21.73	890.3
8-Jun 15:00	6.97	30.1	27.67	22.17	849.1
8-Jun 15:15	12.90	334.0	26.69	22.47	746.6
8-Jun 15:30	10.10	1.7	27.79	22.27	680.8
8-Jun 15:45	4.09	354.6	26.19	22.35	668.2
8-Jun 16:00	4.29	59.0	27.83	22.66	558.0
8-Jun 16:15	7.10	20.0	26.49	22.33	490.4
8-Jun 16:30	15.13	337.0	26.12	22.27	438.6
8-Jun 16:45	2.66	26.1	26.56	22.59	360.0
8-Jun 17:00	7.15	30.1	26.95	22.31	294.0
8-Jun 17:15	13.90	14.7	26.55	22.01	232.2
8-Jun 17:30	5.59	36.1	28.10	21.77	173.7
8-Jun 17:45	4.55	43.5	28.39	21.45	120.4
8-Jun 18:00	4.12	34.7	28.41	21.16	62.4
8-Jun 18:15	7.05	29.6	28.97	20.84	26.6
8-Jun 18:30	4.42	14.6	30.45	20.20	18.3
8-Jun 18:45	2.65	38.1	32.64	19.62	9.8
8-Jun 19:00	0.50	97.7	45.13	17.67	2.7
8-Jun 19:15	1.51	71.9	51.57	16.07	0.2
8-Jun 19:30	2.70	73.2	57.20	14.61	0.0
8-Jun 19:45	4.23	58.2	55.73	14.36	0.0
8-Jun 20:00	3.79	55.3	60.08	13.36	0.0
8-Jun 20:15	3.68	62.9	62.84	12.69	0.0
8-Jun 20:30	3.42	64.5	68.82	12.13	0.0
8-Jun 20:45	4.05	55.0	70.99	11.51	0.0
8-Jun 21:00	3.46	70.4	72.98	11.06	0.0
8-Jun 21:15	4.96	59.1	73.95	10.70	0.0
8-Jun 21:30	4.48	53.5	78.35	9.91	0.0
8-Jun 21:45	5.28	56.5	75.05	9.98	0.0
8-Jun 22:00	4.18	57.0	80.34	9.42	0.0
8-Jun 22:15	4.62	46.8	78.19	9.20	0.0
9-Jun 1:45	3.70	70.9	78.44	8.73	0.0
9-Jun 2:00	5.80	52.0	81.86	8.34	0.0
9-Jun 2:15	5.39	57.8	83.78	8.13	0.0
9-Jun 2:30	5.50	55.8	84.95	7.91	0.0
9-Jun 2:45	5.82	50.9	84.45	7.71	0.0
9-Jun 3:00	3.73	72.4	86.73	7.49	0.0
9-Jun 3:15	4.73	85.4	89.14	6.87	0.0
9-Jun 3:30	4.85	85.0	90.32	6.66	0.0
9-Jun 3:45	3.74	72.4	89.78	6.79	0.0
9-Jun 4:00	3.03	69.0	89.61	6.67	0.0
9-Jun 4:15	3.61	67.3	90.90	6.53	0.0
9-Jun 4:30	5.26	60.4	87.59	6.44	0.0
9-Jun 4:45	5.06	58.0	89.31	6.07	0.0
9-Jun 5:00	3.49	54.4	91.34	6.07	0.0
9-Jun 5:15	5.27	55.0	93.35	5.49	0.0
9-Jun 5:30	4.15	63.2	90.45	5.72	0.0
9-Jun 5:45	3.63	61.0	90.83	5.68	0.1

9-Jun 6:00	1.83	58.8	90.77	5.28	2.4
9-Jun 6:15	4.20	61.2	90.75	5.21	8.8
9-Jun 6:30	5.22	55.4	90.91	5.53	41.1
9-Jun 6:45	4.09	63.6	91.58	5.30	83.4
9-Jun 7:00	5.39	56.6	86.79	5.85	148.9
9-Jun 7:15	3.94	57.4	86.61	6.32	175.6
9-Jun 7:30	4.37	53.1	84.08	6.51	257.0
9-Jun 7:45	4.07	51.0	80.58	7.55	350.0
9-Jun 8:00	3.49	43.7	77.63	8.40	170.6
9-Jun 8:15	2.90	44.7	72.14	10.15	426.2
9-Jun 8:30	1.16	69.4	72.62	10.96	430.6
9-Jun 8:45	0.00	0.0	63.63	13.36	575.7
9-Jun 9:00	3.08	187.5	60.83	14.01	609.4
9-Jun 9:15	4.55	213.7	60.73	14.77	700.6
9-Jun 9:30	5.87	216.9	57.99	15.64	727.2
9-Jun 9:45	5.25	219.0	55.58	16.91	801.5
9-Jun 10:00	2.67	262.2	49.49	18.31	862.4
9-Jun 10:15	4.16	247.6	44.66	18.82	905.4
9-Jun 10:30	2.01	153.8	43.49	19.35	597.5
9-Jun 10:45	1.58	193.5	45.89	19.55	996.3
9-Jun 11:00	8.75	285.7	43.56	19.86	854.6
9-Jun 11:15	3.59	43.9	34.68	20.84	996.8
9-Jun 11:30	3.57	12.9	32.63	20.98	1065.0
9-Jun 11:45	13.29	324.0	31.73	20.67	759.8
9-Jun 12:00	8.48	36.6	31.28	21.53	1149.4
9-Jun 12:15	6.81	8.4	31.24	21.12	907.9
9-Jun 12:30	3.75	292.5	31.22	21.64	1124.6
9-Jun 12:45	15.24	338.7	33.02	21.23	1239.6
9-Jun 13:00	5.69	335.1	31.20	21.64	1216.0
9-Jun 13:15	5.24	329.3	32.53	21.19	1157.6
9-Jun 13:30	5.13	6.5	38.19	21.25	1091.4
9-Jun 13:45	3.29	63.3	35.93	22.09	1043.3
9-Jun 14:00	7.02	45.4	30.56	22.16	700.7
9-Jun 14:15	4.52	17.2	31.42	22.46	1017.5
9-Jun 14:30	2.35	41.7	30.09	22.33	912.2
9-Jun 14:45	5.63	47.2	29.61	22.65	939.5
9-Jun 15:00	5.95	350.2	30.38	22.48	765.5
9-Jun 15:15	0.56	341.9	29.67	22.83	686.3
9-Jun 15:30	5.29	285.4	28.47	22.99	720.5
9-Jun 15:45	5.39	33.3	29.49	22.62	672.1
9-Jun 16:00	5.02	328.6	29.39	22.53	347.1
9-Jun 16:15	3.44	45.0	28.01	22.92	330.4
9-Jun 16:30	5.36	20.4	29.75	22.60	208.8
9-Jun 16:45	7.41	341.2	31.55	22.29	373.9
9-Jun 17:00	8.93	334.5	31.02	22.10	306.8
9-Jun 17:15	5.72	27.8	30.40	22.50	240.1
9-Jun 17:30	3.03	34.8	30.02	22.13	187.0
9-Jun 17:45	3.52	11.5	30.64	22.02	148.2
9-Jun 18:00	3.60	342.1	30.54	21.77	67.4
9-Jun 18:15	4.54	12.9	31.55	21.19	29.6
9-Jun 18:30	3.78	12.7	31.80	20.81	20.7
9-Jun 18:45	0.23	57.8	39.69	20.01	12.8

9-Jun 19:00	1.40	59.3	50.32	17.72	3.6
9-Jun 19:15	2.54	82.8	57.55	16.15	0.4
9-Jun 19:30	3.46	75.7	62.67	14.87	0.0
9-Jun 19:45	2.17	88.1	64.16	14.05	0.0
9-Jun 20:00	2.90	79.6	65.83	13.56	0.0
9-Jun 20:15	3.65	87.6	69.06	12.85	0.0
9-Jun 20:30	3.31	92.0	71.58	12.30	0.0
9-Jun 20:45	4.31	82.3	72.70	11.87	0.0
9-Jun 21:00	3.19	79.2	74.99	11.26	0.0
9-Jun 21:15	3.88	94.0	76.71	10.82	0.0
9-Jun 21:30	4.89	85.3	79.32	10.49	0.0
9-Jun 21:45	5.61	71.9	82.76	10.04	0.0
9-Jun 22:00	6.04	79.7	84.34	9.51	0.0
9-Jun 22:15	5.97	82.1	85.26	9.15	0.0
10-Jun 1:30	5.50	86.8	88.14	8.82	0.0
10-Jun 1:45	4.99	76.2	90.28	8.54	0.0
10-Jun 2:00	6.17	77.0	89.54	8.40	0.0
10-Jun 2:15	5.86	78.7	90.56	8.17	0.0
10-Jun 2:30	7.26	76.8	90.25	8.19	0.0
10-Jun 2:45	6.15	75.6	91.27	8.09	0.0
10-Jun 3:00	6.53	79.1	90.57	7.84	0.0
10-Jun 3:15	5.10	83.1	90.65	7.89	0.0
10-Jun 3:30	4.45	80.5	91.96	7.49	0.0
10-Jun 3:45	6.92	71.3	92.32	7.38	0.0
10-Jun 4:00	6.52	72.6	92.74	7.22	0.0
10-Jun 4:15	6.70	69.9	92.42	7.06	0.0
10-Jun 4:30	7.16	74.6	93.62	6.94	0.0
10-Jun 4:45	6.52	72.0	93.73	6.74	0.0
10-Jun 5:00	4.58	68.7	93.74	6.67	0.0
10-Jun 5:15	6.27	69.1	94.60	6.34	0.0
10-Jun 5:30	7.45	69.8	94.41	6.23	0.0
10-Jun 5:45	6.78	73.7	94.19	6.02	0.8
10-Jun 6:00	5.94	70.1	94.85	5.85	5.4
10-Jun 6:15	6.92	75.0	94.12	5.77	20.8
10-Jun 6:30	7.19	75.7	93.11	5.73	70.0
10-Jun 6:45	6.85	71.6	92.62	5.89	118.0
10-Jun 7:00	5.72	60.7	89.67	6.43	173.0
10-Jun 7:15	5.25	56.0	87.48	7.15	238.4
10-Jun 7:30	4.56	61.4	85.79	7.90	304.7
10-Jun 7:45	5.07	49.8	82.39	8.78	349.0
10-Jun 8:00	3.06	43.9	79.80	9.95	431.5
10-Jun 8:15	2.39	64.7	75.06	11.20	491.2
10-Jun 8:30	0.00	0.0	67.31	13.15	550.8
10-Jun 8:45	1.21	93.7	60.31	15.78	615.4
10-Jun 9:00	0.00	0.0	59.33	16.09	658.9
10-Jun 9:15	6.27	226.3	57.24	16.54	715.6
10-Jun 9:30	8.92	271.4	51.35	17.54	715.0
10-Jun 9:45	5.05	233.6	51.57	18.20	272.2
10-Jun 10:00	7.57	220.7	49.10	19.14	908.6
10-Jun 10:15	15.23	297.8	45.79	19.14	1012.6
10-Jun 10:30	13.49	280.6	47.28	19.11	1112.9
10-Jun 10:45	5.57	263.7	46.80	19.32	367.3

10-Jun 11:00	9.57	261.4	47.56	19.09	444.5
10-Jun 11:15	8.44	264.0	49.43	18.82	367.3
10-Jun 11:30	1.51	117.3	49.35	19.41	414.5
10-Jun 11:45	5.36	286.1	46.59	19.55	439.4
10-Jun 12:00	7.34	223.3	46.41	20.34	381.0
10-Jun 12:15	8.71	254.1	50.03	19.10	216.1
10-Jun 12:30	6.13	268.5	49.73	19.93	597.3
10-Jun 12:45	6.33	292.1	46.30	20.32	1059.2
10-Jun 13:00	8.64	250.3	44.37	20.70	1044.4
10-Jun 13:15	4.24	234.7	43.88	21.22	580.1
10-Jun 13:30	14.98	283.3	42.54	21.39	716.8
10-Jun 13:45	11.46	272.6	44.46	21.71	982.5
10-Jun 14:00	9.32	249.2	45.68	21.25	487.9
10-Jun 14:15	12.67	244.4	46.12	21.40	859.3
10-Jun 14:30	11.68	273.6	45.09	21.44	831.5
10-Jun 14:45	9.29	212.5	44.90	21.84	846.7
10-Jun 15:00	9.41	262.2	45.27	21.92	209.8
10-Jun 15:15	3.17	224.3	44.54	22.29	807.1
10-Jun 15:30	3.73	346.7	39.90	22.82	730.7
10-Jun 15:45	4.82	309.2	43.51	22.45	335.1
10-Jun 16:00	3.94	232.9	43.27	22.82	479.0
10-Jun 16:15	1.56	22.4	42.18	22.98	281.8
10-Jun 16:30	5.10	281.5	43.93	22.23	185.3
10-Jun 16:45	2.69	248.6	44.33	22.68	388.3
10-Jun 17:00	8.40	244.9	44.04	22.46	269.0
10-Jun 17:15	5.25	237.1	44.71	22.40	195.4
10-Jun 17:30	3.46	258.6	47.04	22.00	88.4
10-Jun 17:45	2.36	250.5	47.50	21.92	87.8
10-Jun 18:00	3.57	225.6	49.19	21.75	33.4
10-Jun 18:15	1.13	123.6	56.83	20.55	28.0
10-Jun 18:30	0.00	0.0	61.74	19.96	13.0
10-Jun 18:45	1.52	60.5	68.32	18.60	4.3
10-Jun 19:00	2.94	77.1	70.44	17.87	0.8
10-Jun 19:15	3.20	61.9	72.94	17.14	0.0
10-Jun 19:30	4.06	103.2	75.65	16.56	0.0
10-Jun 19:45	3.88	66.7	77.22	16.27	0.0
10-Jun 20:00	3.12	69.6	80.29	15.63	0.0
10-Jun 20:15	3.18	70.5	82.62	15.01	0.0
10-Jun 20:30	3.19	74.2	84.22	14.62	0.0
10-Jun 20:45	5.05	76.5	86.93	13.96	0.0
10-Jun 21:00	4.66	77.5	88.21	13.69	0.0
10-Jun 21:15	5.39	68.8	88.99	13.44	0.0
10-Jun 21:30	4.26	71.9	90.45	13.29	0.0
10-Jun 21:45	4.75	66.5	89.87	13.25	0.0
10-Jun 22:00	5.11	74.4	89.90	13.10	0.0
10-Jun 22:15	3.86	70.8	91.05	13.06	0.0
11-Jun 2:00	4.61	64.4	91.14	12.90	0.0
11-Jun 2:15	4.32	60.2	91.12	12.80	0.0
11-Jun 2:30	5.08	57.0	91.17	12.65	0.0
11-Jun 2:45	5.29	63.3	92.34	12.47	0.0
11-Jun 3:00	6.66	70.1	92.64	12.24	0.0
11-Jun 3:15	4.22	56.8	92.95	12.32	0.0

11-Jun 3:30	4.39	66.3	92.66	12.41	0.0
11-Jun 3:45	4.14	65.3	92.30	12.37	0.0
11-Jun 4:00	4.84	57.4	91.51	12.39	0.0
11-Jun 4:15	4.69	62.3	90.84	12.48	0.0
11-Jun 4:30	3.53	54.9	92.01	12.19	0.0
11-Jun 4:45	4.10	56.1	91.22	12.37	0.0
11-Jun 5:00	3.80	63.9	91.46	12.43	0.0
11-Jun 5:15	3.87	58.4	90.58	12.45	0.0
11-Jun 5:30	4.25	52.8	90.70	12.56	0.0
11-Jun 5:45	1.83	61.3	91.43	12.63	0.1
11-Jun 6:00	1.97	70.6	90.69	12.66	0.4
11-Jun 6:15	3.16	55.4	90.31	12.70	2.2
11-Jun 6:30	4.05	43.3	90.71	12.65	5.4
11-Jun 6:45	4.10	57.0	90.93	12.79	10.6
11-Jun 7:00	4.07	58.6	89.46	12.96	25.6
11-Jun 7:15	1.10	67.7	90.72	12.99	34.0
11-Jun 7:30	1.55	62.3	90.30	13.11	55.0
11-Jun 7:45	3.82	21.0	88.64	13.43	126.4
11-Jun 8:00	0.34	83.4	85.18	14.42	270.5
11-Jun 8:15	0.48	93.8	84.93	14.83	107.2
11-Jun 8:30	0.00	0.0	82.03	15.47	112.3
11-Jun 8:45	0.00	0.0	81.96	15.70	84.2
11-Jun 9:00	1.40	51.1	84.54	15.58	75.4
11-Jun 9:15	0.00	0.0	83.88	15.79	110.1
11-Jun 9:30	0.00	0.0	82.85	16.11	120.2
11-Jun 9:45	0.00	0.0	83.02	16.42	122.2
11-Jun 10:00	1.55	74.3	82.90	16.47	116.6
11-Jun 10:15	1.13	83.7	80.41	17.43	389.4
11-Jun 10:30	0.00	0.0	76.42	18.41	218.9
11-Jun 10:45	2.58	209.2	73.00	18.95	339.9
11-Jun 11:00	3.72	180.1	65.56	20.27	367.9
11-Jun 11:15	7.97	206.6	64.25	20.64	458.7
11-Jun 11:30	9.89	233.1	61.81	21.35	449.2
11-Jun 11:45	6.90	224.4	56.65	22.79	673.7
11-Jun 12:00	14.14	220.3	51.84	22.86	577.4
11-Jun 12:15	12.52	216.6	49.54	23.20	492.5
11-Jun 12:30	9.79	203.9	50.57	23.43	607.0
11-Jun 12:45	4.80	250.3	49.08	24.00	1111.0
11-Jun 13:00	5.63	181.1	47.40	24.53	356.3
11-Jun 13:15	13.42	229.0	45.83	24.58	999.4
11-Jun 13:30	12.61	222.4	46.58	24.52	311.0
11-Jun 13:45	9.14	247.8	45.71	24.75	889.1
11-Jun 14:00	13.45	230.9	47.52	24.27	241.3
11-Jun 14:15	9.62	194.5	45.61	24.88	280.9
11-Jun 14:30	8.53	239.7	45.71	24.30	118.9
11-Jun 14:45	6.43	230.9	47.02	23.71	50.4
11-Jun 15:00	4.27	213.8	47.88	23.59	115.2
11-Jun 15:15	2.09	251.5	50.26	23.26	82.7
11-Jun 15:30	4.26	226.3	50.68	23.37	121.9
11-Jun 15:45	4.82	237.9	55.74	23.17	220.0
11-Jun 16:00	4.76	219.2	55.07	23.36	170.0
11-Jun 16:15	3.02	255.2	53.98	23.25	72.8

11-Jun 16:30	3.00	226.8	53.08	23.43	462.6
11-Jun 16:45	11.82	235.6	51.79	24.00	267.1
11-Jun 17:00	8.75	236.0	51.53	24.00	239.3
11-Jun 17:15	5.63	256.7	53.85	23.73	75.0
11-Jun 17:30	6.49	246.6	54.49	23.47	44.7
11-Jun 17:45	6.09	229.1	57.71	23.05	48.8
11-Jun 18:00	4.50	243.9	56.40	23.23	38.7
11-Jun 18:15	2.36	242.9	59.16	22.75	27.8
11-Jun 18:30	2.48	171.0	69.87	21.99	5.3
11-Jun 18:45	0.00	0.0	76.91	20.67	0.8
11-Jun 19:00	0.00	0.0	83.04	20.51	0.1
11-Jun 19:15	0.00	0.0	88.65	19.58	0.0
11-Jun 19:30	6.68	354.4	85.29	19.26	0.0
11-Jun 19:45	3.14	125.7	94.45	18.00	0.0
11-Jun 20:00	0.00	0.0	95.26	18.03	0.0
11-Jun 20:15	2.62	56.4	96.88	17.63	0.0
11-Jun 20:30	2.32	86.9	97.82	17.29	0.0
11-Jun 20:45	0.00	0.0	98.23	16.92	0.0
11-Jun 21:00	0.00	0.0	98.50	16.70	0.0
11-Jun 21:15	0.00	0.0	98.61	16.25	0.0
11-Jun 21:30	3.87	56.4	98.86	16.00	0.0
11-Jun 21:45	3.17	50.3	99.15	15.60	0.0
11-Jun 22:00	1.50	68.2	99.27	15.39	0.0
12-Jun 2:00	1.69	62.6	99.35	15.08	0.0
12-Jun 2:15	5.26	242.4	99.45	14.85	0.0
12-Jun 2:30	0.00	0.0	99.58	14.72	0.0
12-Jun 2:45	2.24	92.4	99.67	14.51	0.0
12-Jun 3:00	1.85	79.7	99.74	14.47	0.0
12-Jun 3:15	2.71	165.0	99.80	14.86	0.0
12-Jun 3:30	3.21	150.7	99.85	14.75	0.0
12-Jun 3:45	1.72	145.4	99.88	14.71	0.0
12-Jun 4:00	1.27	64.0	99.90	14.52	0.0
12-Jun 4:15	2.00	71.2	99.91	13.83	0.0
12-Jun 4:30	2.65	227.3	99.93	13.66	0.0
12-Jun 4:45	2.85	232.0	99.96	13.60	0.0
12-Jun 5:00	1.98	88.5	99.97	13.30	0.0
12-Jun 5:15	2.73	46.9	99.98	12.85	0.0
12-Jun 5:30	2.76	63.7	100.01	12.46	0.0
12-Jun 5:45	2.60	58.7	100.04	12.33	0.2
12-Jun 6:00	1.92	76.2	100.07	12.29	3.4
12-Jun 6:15	2.43	71.3	100.09	12.15	8.1
12-Jun 6:30	2.00	38.6	100.09	12.20	17.3
12-Jun 6:45	0.00	0.0	100.10	12.33	43.6
12-Jun 7:00	2.08	27.7	100.09	12.47	64.1
12-Jun 7:15	3.75	40.2	100.07	13.23	70.9
12-Jun 7:30	3.79	26.1	99.99	14.30	120.0
12-Jun 7:45	3.35	245.4	99.86	13.42	137.3
12-Jun 8:00	2.44	214.0	99.42	13.92	243.4
12-Jun 8:15	3.59	217.8	98.22	14.44	272.7
12-Jun 8:30	2.36	222.8	98.71	14.64	151.7
12-Jun 8:45	2.20	226.6	96.64	15.51	307.5
12-Jun 9:00	4.17	333.5	95.80	15.88	318.2

12-Jun 9:15	1.97	349.6	89.52	17.43	794.9
12-Jun 9:30	2.02	265.0	85.15	17.21	847.5
12-Jun 9:45	2.24	126.3	79.00	18.47	512.4
12-Jun 10:00	2.31	299.2	75.33	19.40	1043.7
12-Jun 10:15	7.62	296.4	73.99	19.41	867.4
12-Jun 10:30	3.69	249.0	73.24	19.98	888.5
12-Jun 10:45	5.78	260.7	72.80	20.44	1013.8
12-Jun 11:00	4.70	228.2	71.45	20.83	1062.0
12-Jun 11:15	7.13	228.7	68.27	21.30	387.6
12-Jun 11:30	5.70	221.1	68.35	21.27	1104.9
12-Jun 11:45	6.20	253.7	61.66	22.74	1084.4
12-Jun 12:00	3.56	221.9	64.30	22.35	1061.1
12-Jun 12:15	7.36	205.2	62.29	22.45	1095.1
12-Jun 12:30	7.17	223.0	58.70	23.25	1047.6
12-Jun 12:45	7.11	235.4	54.32	23.44	1045.5
12-Jun 13:00	6.46	232.7	51.00	24.77	1025.7
12-Jun 13:15	8.48	243.1	48.51	25.23	1023.9
12-Jun 13:30	4.85	280.0	48.86	24.71	956.8
12-Jun 13:45	7.81	257.8	47.68	25.04	943.3
12-Jun 14:00	9.63	276.5	45.95	25.69	911.3
12-Jun 14:15	8.83	260.0	49.52	25.56	861.7
12-Jun 14:30	12.75	240.8	50.43	25.30	813.9
12-Jun 14:45	13.48	299.6	50.09	25.91	773.3
12-Jun 15:00	5.15	269.7	50.69	25.75	693.6
12-Jun 15:15	7.11	256.7	49.31	25.75	634.3
12-Jun 15:30	3.79	259.2	47.16	26.70	593.6
12-Jun 15:45	3.36	210.3	48.44	26.57	497.1
12-Jun 16:00	4.50	278.4	47.97	27.00	456.6
12-Jun 16:15	6.33	274.3	47.92	26.55	424.4
12-Jun 16:30	3.02	312.5	50.63	26.55	150.0
12-Jun 16:45	0.00	0.0	53.39	26.43	105.5
12-Jun 17:00	1.91	85.4	61.13	25.40	55.0
12-Jun 17:15	1.36	116.1	63.76	24.65	72.1
12-Jun 17:30	0.59	129.4	66.99	24.42	72.2
12-Jun 17:45	0.00	0.0	70.00	24.12	29.7
12-Jun 18:00	1.57	60.6	72.30	23.56	21.4
12-Jun 18:15	2.73	96.4	75.27	23.02	17.7
12-Jun 18:30	0.80	48.2	75.32	22.61	13.4
12-Jun 18:45	4.32	95.6	76.08	22.46	4.4
12-Jun 19:00	3.06	60.6	78.16	22.01	1.2
12-Jun 19:15	2.23	39.2	81.94	21.55	0.2
12-Jun 19:30	1.60	6.5	85.99	21.14	0.0
12-Jun 19:45	0.51	66.4	90.92	20.40	0.0
12-Jun 20:00	2.39	235.8	96.02	20.02	0.0
12-Jun 20:15	0.00	0.0	95.05	19.77	0.0
12-Jun 20:30	0.00	0.0	95.56	19.58	0.0
12-Jun 20:45	0.00	0.0	96.50	19.50	0.0
12-Jun 21:00	0.12	81.0	96.55	19.56	0.0
12-Jun 21:15	0.00	0.0	96.90	19.28	0.0
12-Jun 21:30	0.00	0.0	96.76	19.16	0.0
12-Jun 21:45	1.98	67.2	97.42	19.04	0.0
12-Jun 22:00	0.00	0.0	97.48	18.79	0.0

12-Jun 22:15	1.54	249.1	97.81	18.75	0.0
12-Jun 22:30	0.00	0.0	97.42	18.86	0.0
13-Jun 1:45	4.22	20.0	97.26	18.82	0.0
13-Jun 2:00	1.78	86.8	97.02	18.57	0.0
13-Jun 2:15	0.00	0.0	97.10	18.51	0.0
13-Jun 2:30	0.00	0.0	96.52	18.31	0.0
13-Jun 2:45	0.16	99.7	96.43	18.03	0.0
13-Jun 3:00	0.00	0.0	96.57	17.83	0.0
13-Jun 3:15	2.10	71.1	98.17	17.66	0.0
13-Jun 3:30	0.00	0.0	98.33	17.43	0.0
13-Jun 3:45	0.00	0.0	98.50	17.39	0.0
13-Jun 4:00	2.24	236.6	98.19	17.24	0.0
13-Jun 4:15	0.00	0.0	98.57	16.71	0.0
13-Jun 4:30	1.61	127.5	98.98	16.65	0.0
13-Jun 4:45	0.00	0.0	99.04	16.32	0.0
13-Jun 5:00	0.00	0.0	99.16	16.57	0.0
13-Jun 5:15	0.00	0.0	99.00	16.65	0.0
13-Jun 5:30	0.00	0.0	98.95	16.63	0.0
13-Jun 5:45	0.00	0.0	99.14	16.72	0.1
13-Jun 6:00	0.00	0.0	99.31	16.77	1.8
13-Jun 6:15	0.00	0.0	99.29	16.46	8.6
13-Jun 6:30	1.23	40.0	99.37	16.17	22.8
13-Jun 6:45	1.58	48.0	99.43	16.24	28.0
13-Jun 7:00	0.00	0.0	99.47	16.19	33.9
13-Jun 7:15	0.00	0.0	99.59	16.54	49.0
13-Jun 7:30	1.66	14.8	99.54	16.88	67.9
13-Jun 7:45	2.91	49.7	99.33	17.17	177.0
13-Jun 8:00	0.00	0.0	99.08	17.53	177.9
13-Jun 8:15	0.00	0.0	95.16	18.92	265.7
13-Jun 8:30	0.00	0.0	88.00	20.07	219.4
13-Jun 8:45	1.25	63.3	84.00	20.92	481.3
13-Jun 9:00	3.38	37.3	80.91	21.68	650.1
13-Jun 9:15	4.30	61.7	78.32	21.90	425.5
13-Jun 9:30	3.74	42.6	77.42	22.17	459.8
13-Jun 9:45	4.06	68.8	74.95	23.00	855.1
13-Jun 10:00	5.57	36.5	71.94	23.74	913.9
13-Jun 10:15	3.78	61.6	70.60	23.63	891.1
13-Jun 10:30	6.45	79.7	68.86	24.14	963.2
13-Jun 10:45	4.11	93.3	68.99	24.44	738.2
13-Jun 11:00	6.96	106.9	67.18	24.47	570.1
13-Jun 11:15	6.06	87.1	65.99	24.80	314.2
13-Jun 11:30	5.58	66.6	62.22	25.79	369.7
13-Jun 11:45	5.84	39.4	58.03	25.91	832.8
13-Jun 12:00	4.72	67.2	57.10	26.71	1126.2
13-Jun 12:15	2.63	56.2	54.36	27.28	1116.3
13-Jun 12:30	5.27	94.1	53.16	26.98	1122.5
13-Jun 12:45	4.46	41.6	51.12	27.55	843.4
13-Jun 13:00	4.42	51.8	50.44	27.77	1084.9
13-Jun 13:15	3.94	70.1	52.46	27.61	1062.7
13-Jun 13:30	2.29	354.5	48.16	28.72	986.1
13-Jun 13:45	2.29	51.6	50.09	28.53	977.9
13-Jun 14:00	6.49	106.9	53.06	27.88	254.4

13-Jun 14:15	3.87	140.5	49.17	28.22	941.2
13-Jun 14:30	3.36	65.1	47.42	29.15	236.1
13-Jun 14:45	4.97	116.9	51.00	27.87	417.9
13-Jun 15:00	0.92	44.4	47.50	28.95	582.2
13-Jun 15:15	4.88	74.7	45.84	28.59	736.5
13-Jun 15:30	2.00	80.9	43.97	28.87	732.2
13-Jun 15:45	6.41	102.4	51.89	27.96	177.3
13-Jun 16:00	5.18	104.8	50.12	28.28	547.5
13-Jun 16:15	1.94	101.9	48.16	28.57	476.4
13-Jun 16:30	5.95	63.1	52.11	27.94	192.6
13-Jun 16:45	5.71	76.3	52.11	28.14	412.6
13-Jun 17:00	4.28	54.7	50.88	28.61	349.3
13-Jun 17:15	3.62	62.3	50.12	28.54	165.8
13-Jun 17:30	5.48	104.9	52.16	27.96	110.1
13-Jun 17:45	4.11	125.9	52.27	27.77	169.2
13-Jun 18:00	3.46	109.3	53.19	27.68	141.6
13-Jun 18:15	2.75	110.3	57.35	27.60	103.2
13-Jun 18:30	3.53	115.8	60.91	26.98	72.3
13-Jun 18:45	3.42	114.3	62.41	26.84	49.6
13-Jun 19:00	2.34	110.1	71.42	25.33	29.6
13-Jun 19:15	1.98	110.1	76.06	24.40	15.8
13-Jun 19:30	1.44	84.9	79.50	23.47	6.3
13-Jun 19:45	2.07	74.7	82.02	22.80	1.4
13-Jun 20:00	2.30	64.3	84.79	22.36	0.1
13-Jun 20:15	2.13	84.9	87.53	21.53	0.0
13-Jun 20:30	2.99	64.6	88.45	21.09	0.0
13-Jun 20:45	3.79	59.7	90.02	20.68	0.0
13-Jun 21:00	3.51	60.6	91.21	20.29	0.0
13-Jun 21:15	4.17	57.0	92.00	19.95	0.0
13-Jun 21:30	4.54	62.3	93.10	19.65	0.0
13-Jun 21:45	3.99	55.0	94.16	19.30	0.0
13-Jun 22:00	3.81	71.8	95.42	18.95	0.0
13-Jun 22:15	4.41	76.4	94.56	18.86	0.0
13-Jun 22:30	3.44	69.2	96.09	18.62	0.0
14-Jun 1:30	3.44	58.4	95.83	18.46	0.0
14-Jun 1:45	3.42	56.6	96.08	18.18	0.0
14-Jun 2:00	3.85	75.3	96.99	17.93	0.0
14-Jun 2:15	3.41	75.5	95.56	17.80	0.0
14-Jun 2:30	4.01	71.7	96.82	17.59	0.0
14-Jun 2:45	3.78	64.1	96.67	17.75	0.0
14-Jun 3:00	3.49	71.5	96.14	17.91	0.0
14-Jun 3:15	3.79	62.2	95.85	17.95	0.0
14-Jun 3:30	4.30	57.6	95.86	18.07	0.0
14-Jun 3:45	3.38	66.4	96.01	18.15	0.0
14-Jun 4:00	2.25	59.7	96.25	18.23	0.0
14-Jun 4:15	1.81	61.4	96.66	18.30	0.0
14-Jun 4:30	2.79	67.1	98.49	18.40	0.0
14-Jun 4:45	1.40	243.0	98.87	18.45	0.0
14-Jun 5:00	1.78	37.9	99.10	18.77	0.0
14-Jun 5:15	1.50	93.5	99.32	18.75	0.0
14-Jun 5:30	2.44	60.1	99.35	18.76	0.0
14-Jun 5:45	2.37	30.2	99.38	18.71	0.1

14-Jun 6:00	1.84	63.4	99.42	18.66	1.9
14-Jun 6:15	2.04	51.7	99.43	18.61	3.5
14-Jun 6:30	2.21	70.9	99.44	18.76	8.1
14-Jun 6:45	4.97	71.3	99.44	18.74	22.8
14-Jun 7:00	3.93	50.5	99.44	18.81	27.1
14-Jun 7:15	4.02	61.3	99.43	18.81	46.0
14-Jun 7:30	3.90	55.5	99.41	18.80	71.3
14-Jun 7:45	4.81	82.2	99.37	18.86	115.0
14-Jun 8:00	3.29	58.8	99.32	18.93	111.8
14-Jun 8:15	1.84	77.2	99.22	19.02	159.4
14-Jun 8:30	3.10	63.3	98.93	19.31	251.3
14-Jun 8:45	3.50	67.3	96.79	20.15	632.1
14-Jun 9:00	3.06	46.9	91.63	21.32	650.5
14-Jun 9:15	4.08	52.1	81.26	22.75	713.5
14-Jun 9:30	3.83	42.1	74.53	24.12	765.1
14-Jun 9:45	4.16	41.6	70.14	24.86	820.6
14-Jun 10:00	3.76	69.1	66.48	25.77	870.8
14-Jun 10:15	2.16	177.4	61.24	26.41	909.5
14-Jun 10:30	3.89	67.6	57.03	26.74	922.3
14-Jun 10:45	3.38	82.2	57.57	26.93	1008.3
14-Jun 11:00	6.62	340.1	50.67	27.85	1033.7
14-Jun 11:15	1.40	27.4	48.74	28.08	1055.2
14-Jun 11:30	1.14	82.6	46.46	28.63	978.2
14-Jun 11:45	2.61	220.4	59.81	27.58	268.4
14-Jun 12:00	4.82	275.7	62.68	27.00	303.1
14-Jun 12:15	0.70	143.3	56.40	27.94	269.4
14-Jun 12:30	2.97	34.1	54.69	27.68	529.7
14-Jun 12:45	0.00	0.0	53.23	28.29	254.0
14-Jun 13:00	4.35	255.1	49.31	29.18	1070.2
14-Jun 13:15	5.64	140.7	44.31	28.14	308.9
14-Jun 13:30	6.82	113.7	43.75	28.85	229.4
14-Jun 13:45	4.08	196.7	44.10	28.92	1014.8
14-Jun 14:00	6.11	103.7	42.21	28.80	947.0
14-Jun 14:15	6.28	142.2	44.33	28.97	885.9
14-Jun 14:30	3.15	63.0	44.29	28.96	892.7
14-Jun 14:45	3.47	103.9	42.39	29.09	852.6
14-Jun 15:00	8.18	118.8	42.78	28.96	770.5
14-Jun 15:15	3.26	87.9	40.01	29.14	753.5
14-Jun 15:30	4.01	96.0	39.72	29.75	599.8
14-Jun 15:45	1.05	126.8	46.59	28.54	387.1
14-Jun 16:00	4.90	173.9	45.40	29.45	614.5
14-Jun 16:15	4.13	133.9	47.49	29.10	406.6
14-Jun 16:30	9.46	138.6	47.98	28.82	471.3
14-Jun 16:45	8.84	143.8	49.13	28.61	401.6
14-Jun 17:00	5.59	176.6	50.98	28.45	358.8
14-Jun 17:15	1.43	264.4	52.72	28.60	315.1
14-Jun 17:30	2.35	192.5	55.43	28.08	238.9
14-Jun 17:45	0.00	0.0	56.51	28.33	237.0
14-Jun 18:00	5.45	178.2	60.91	27.37	183.5
14-Jun 18:15	5.72	133.5	63.84	26.75	146.5
14-Jun 18:30	3.97	168.0	64.40	26.70	93.4
14-Jun 18:45	1.25	201.6	65.90	26.35	65.1

14-Jun 19:00	6.16	177.5	67.26	25.97	43.9
14-Jun 19:15	4.30	175.0	69.86	25.52	25.7
14-Jun 19:30	2.76	128.2	72.54	25.03	13.0
14-Jun 19:45	3.50	178.7	77.26	24.20	3.8
14-Jun 20:00	1.50	131.3	79.01	23.89	0.5
14-Jun 20:15	2.73	109.4	83.35	23.07	0.0
14-Jun 20:30	3.44	103.7	84.92	22.66	0.0
14-Jun 20:45	0.00	0.0	86.29	22.29	0.0
14-Jun 21:00	1.86	70.9	88.67	21.81	0.0
14-Jun 21:15	1.70	51.4	90.32	21.61	0.0
14-Jun 21:30	2.35	49.3	91.04	21.37	0.0
14-Jun 21:45	1.10	84.5	90.37	21.55	0.0
14-Jun 22:00	1.51	96.1	91.31	21.52	0.0
14-Jun 22:15	3.52	156.8	91.05	21.58	0.0
14-Jun 22:30	1.80	113.3	91.72	21.39	0.0
15-Jun 1:15	2.37	92.5	92.49	21.13	0.0
15-Jun 1:30	3.47	127.1	91.20	21.10	0.0
15-Jun 1:45	1.72	117.2	91.61	20.91	0.0
15-Jun 2:00	1.07	91.0	91.87	20.81	0.0
15-Jun 2:15	0.00	0.0	92.53	20.52	0.0
15-Jun 2:30	0.00	0.0	91.88	20.15	0.0
15-Jun 2:45	0.00	0.0	95.12	19.72	0.0
15-Jun 3:00	1.51	62.8	95.05	19.35	0.0
15-Jun 3:15	0.07	43.4	96.83	18.99	0.0
15-Jun 3:30	2.06	49.4	97.08	18.94	0.0
15-Jun 3:45	2.36	40.2	97.72	18.65	0.0
15-Jun 4:00	1.69	67.8	97.35	18.49	0.0
15-Jun 4:15	1.52	39.1	96.63	18.46	0.0
15-Jun 4:30	2.19	23.3	97.50	18.43	0.0
15-Jun 4:45	2.24	24.6	97.72	18.05	0.0
15-Jun 5:00	2.35	36.8	97.98	18.07	0.0
15-Jun 5:15	1.79	76.7	97.25	17.80	0.0
15-Jun 5:30	2.22	44.9	98.25	17.48	0.0
15-Jun 5:45	2.51	55.6	98.56	17.34	0.6
15-Jun 6:00	4.73	73.1	98.92	17.01	3.9
15-Jun 6:15	4.05	76.5	99.28	17.18	11.1
15-Jun 6:30	3.79	70.7	99.32	17.21	23.3
15-Jun 6:45	4.07	79.1	99.31	16.99	45.1
15-Jun 7:00	3.41	71.7	99.35	17.21	78.5
15-Jun 7:15	2.62	71.1	99.30	17.36	97.0
15-Jun 7:30	4.35	73.9	99.30	17.72	108.8
15-Jun 7:45	4.73	85.4	99.30	18.09	102.9
15-Jun 8:00	4.62	53.0	99.19	18.67	165.3
15-Jun 8:15	3.17	70.3	98.91	19.02	192.8
15-Jun 8:30	1.78	69.5	97.75	19.97	403.1
15-Jun 8:45	3.08	65.7	94.12	20.97	623.1
15-Jun 9:00	4.69	55.9	86.47	22.20	684.5
15-Jun 9:15	3.25	133.8	74.46	23.01	611.4
15-Jun 9:30	5.86	86.0	71.57	23.75	363.1
15-Jun 9:45	2.32	96.2	66.93	24.09	702.4
15-Jun 10:00	5.21	135.0	63.03	24.72	722.9
15-Jun 10:15	4.15	102.7	62.54	24.95	487.6

15-Jun 10:30	3.25	115.5	62.70	25.07	1004.8
15-Jun 10:45	4.63	179.9	61.35	25.30	1113.6
15-Jun 11:00	9.42	207.9	64.14	24.82	1140.8
15-Jun 11:15	7.15	150.4	61.35	25.59	369.9
15-Jun 11:30	5.58	179.8	60.27	25.86	1123.0
15-Jun 11:45	7.08	154.5	63.16	24.97	954.8
15-Jun 12:00	8.05	220.2	61.19	25.37	1145.4
15-Jun 12:15	10.26	176.0	60.10	25.31	1198.6
15-Jun 12:30	3.18	114.0	60.26	25.28	321.2
15-Jun 12:45	4.56	165.0	58.30	25.97	1167.6
15-Jun 13:00	7.26	141.3	60.21	25.57	277.8
15-Jun 13:15	8.58	181.2	54.17	26.27	1023.3
15-Jun 13:30	5.72	139.0	58.04	25.91	288.2
15-Jun 13:45	3.54	219.2	58.17	26.26	1045.6
15-Jun 14:00	6.83	129.7	59.13	26.28	1001.4
15-Jun 14:15	8.46	216.6	56.45	26.83	978.8
15-Jun 14:30	1.83	131.6	52.07	28.29	970.8
15-Jun 14:45	5.53	120.2	57.65	27.03	854.2
15-Jun 15:00	7.97	145.5	58.86	26.71	200.0
15-Jun 15:15	5.13	176.0	57.28	27.09	575.2
15-Jun 15:30	7.20	172.6	57.32	26.98	605.4
15-Jun 15:45	6.52	107.5	61.21	26.05	122.5
15-Jun 16:00	8.21	193.0	59.39	26.55	505.8
15-Jun 16:15	6.81	153.4	59.47	26.52	317.5
15-Jun 16:30	3.52	140.2	60.53	26.24	120.2
15-Jun 16:45	9.47	222.8	61.44	26.24	130.6
15-Jun 17:00	5.36	147.1	60.44	26.22	135.7
15-Jun 17:15	3.67	221.8	63.71	26.19	263.2
15-Jun 17:30	2.65	152.6	64.26	25.88	69.1
15-Jun 17:45	3.85	201.6	78.56	24.21	15.9
15-Jun 18:00	4.38	196.1	94.22	21.33	14.8
15-Jun 18:15	2.96	99.9	93.36	21.05	18.8
15-Jun 18:30	4.43	100.3	92.94	21.15	18.4
15-Jun 18:45	2.30	115.6	92.32	21.22	7.8
15-Jun 19:00	2.90	82.4	92.45	20.95	2.1
15-Jun 19:15	3.10	92.7	90.24	21.02	0.2
15-Jun 19:30	2.67	102.5	90.99	20.80	0.0
15-Jun 19:45	0.00	0.0	93.07	20.67	0.0
15-Jun 20:00	1.03	80.4	95.71	20.36	0.0
15-Jun 20:15	0.88	81.0	96.03	20.33	0.0
15-Jun 20:30	1.60	49.3	96.08	20.26	0.0
15-Jun 20:45	2.52	42.9	96.56	19.94	0.0
15-Jun 21:00	0.76	29.2	97.01	19.87	0.0
15-Jun 21:15	1.90	43.4	97.06	19.82	0.0
15-Jun 21:30	0.00	0.0	96.81	19.90	0.0
15-Jun 21:45	1.43	77.8	96.79	19.96	0.0
15-Jun 22:00	0.00	0.0	97.05	19.93	0.0
15-Jun 22:15	2.43	63.6	97.46	19.76	0.0
16-Jun 2:00	0.77	36.1	97.63	19.81	0.0
16-Jun 2:15	0.45	38.2	97.51	20.00	0.0
16-Jun 2:30	0.00	0.0	97.16	20.02	0.0
16-Jun 2:45	1.37	94.1	96.87	20.04	0.0

16-Jun	3:00	0.00	0.0	95.17	20.03	0.0
16-Jun	3:15	0.00	0.0	96.86	19.82	0.0
16-Jun	3:30	1.55	102.6	97.27	19.77	0.0
16-Jun	3:45	0.10	56.1	97.68	19.86	0.0
16-Jun	4:00	0.00	0.0	97.58	19.90	0.0
16-Jun	4:15	0.00	0.0	97.05	20.02	0.0
16-Jun	4:30	1.12	116.5	96.56	20.03	0.0
16-Jun	4:45	2.46	149.8	92.74	20.40	0.0
16-Jun	5:00	5.34	135.7	92.03	20.35	0.0
16-Jun	5:15	2.48	101.5	94.23	19.92	0.0
16-Jun	5:30	3.26	92.1	94.91	19.68	0.0
16-Jun	5:45	3.46	113.1	94.04	19.58	0.4
16-Jun	6:00	4.50	25.4	96.51	19.24	3.4
16-Jun	6:15	0.00	0.0	96.53	19.24	13.0
16-Jun	6:30	0.00	0.0	97.17	18.78	26.1
16-Jun	6:45	0.00	0.0	96.17	18.81	72.5
16-Jun	7:00	0.14	77.8	97.32	18.83	52.5
16-Jun	7:15	1.89	41.7	96.65	19.14	27.9
16-Jun	7:30	2.68	44.2	95.81	19.56	143.7
16-Jun	7:45	3.33	53.4	94.41	19.89	76.1
16-Jun	8:00	2.19	59.5	93.70	20.11	83.5
16-Jun	8:15	1.30	74.9	91.31	20.52	167.6
16-Jun	8:30	3.53	41.3	90.41	20.87	151.0
16-Jun	8:45	3.43	68.2	89.41	21.13	167.9
16-Jun	9:00	5.76	75.8	87.76	21.42	263.1
16-Jun	9:15	3.59	56.8	87.78	21.48	121.0
16-Jun	9:30	4.16	119.5	86.85	21.75	316.9
16-Jun	9:45	4.29	116.3	85.00	22.17	221.8
16-Jun	10:00	5.22	64.7	82.85	22.63	318.8
16-Jun	10:15	5.29	84.4	84.54	22.36	364.3
16-Jun	10:30	7.28	77.1	80.95	23.09	472.7
16-Jun	10:45	6.28	62.0	78.81	23.45	469.7
16-Jun	11:00	7.18	118.6	77.93	23.45	472.9
16-Jun	11:15	3.05	79.7	75.43	24.47	402.2
16-Jun	11:30	6.95	74.7	73.46	24.32	437.5
16-Jun	11:45	4.40	88.5	75.05	24.04	442.4
16-Jun	12:00	3.83	67.5	74.24	24.52	303.4
16-Jun	12:15	2.36	47.3	71.94	24.85	236.7
16-Jun	12:30	2.64	61.1	69.36	25.30	294.2
16-Jun	12:45	1.28	110.8	67.37	25.62	474.9
16-Jun	13:00	6.38	103.4	66.23	25.66	495.7
16-Jun	13:15	4.97	97.4	64.66	25.99	468.2
16-Jun	13:30	4.11	125.9	67.47	25.43	159.0
16-Jun	13:45	5.60	97.8	68.99	25.13	149.2
16-Jun	14:00	3.51	121.1	71.02	25.07	109.6
16-Jun	14:15	0.87	167.9	68.63	25.36	177.0
16-Jun	14:30	2.76	177.1	80.31	24.37	99.0
16-Jun	14:45	0.83	148.3	83.13	23.71	65.3
16-Jun	15:00	3.27	158.7	91.58	22.79	45.6
16-Jun	15:15	3.55	100.1	94.19	21.60	43.3
16-Jun	15:30	1.88	67.3	93.44	21.44	72.6
16-Jun	15:45	2.53	249.7	95.49	21.61	32.4

16-Jun 16:00	5.42	262.8	94.77	21.24	81.8
16-Jun 16:15	2.20	223.4	96.66	21.14	95.1
16-Jun 16:30	0.00	0.0	95.21	21.45	78.8
16-Jun 16:45	1.31	284.9	94.71	21.42	62.0
16-Jun 17:00	1.46	352.1	94.38	21.48	26.4
16-Jun 17:15	0.08	243.4	95.92	21.47	9.7
16-Jun 17:30	2.72	41.4	95.80	21.16	8.9
16-Jun 17:45	3.54	38.3	96.72	21.16	7.1
16-Jun 18:00	5.88	56.1	95.88	21.12	3.9
16-Jun 18:15	4.55	217.7	97.13	21.00	0.1
16-Jun 18:30	4.74	352.5	98.52	20.33	0.3
16-Jun 18:45	1.74	54.3	98.86	19.93	0.2
16-Jun 19:00	4.89	38.9	99.07	19.80	0.0
16-Jun 19:15	2.97	32.9	99.09	19.27	0.0
16-Jun 19:30	2.83	18.9	99.24	19.51	0.0
16-Jun 19:45	2.84	345.8	99.30	19.46	0.0
16-Jun 20:00	4.82	64.4	98.92	19.19	0.0
16-Jun 20:15	3.70	23.0	99.08	18.82	0.0
16-Jun 20:30	3.56	65.3	99.22	18.82	0.0
17-Jun 3:45	9.06	65.6	99.02	18.58	0.0
17-Jun 4:00	4.81	70.9	98.97	18.39	0.0
17-Jun 4:15	5.10	66.7	99.12	18.35	0.0
17-Jun 4:30	4.71	76.7	99.27	18.40	0.0
17-Jun 4:45	5.68	28.1	99.36	18.47	0.0
17-Jun 5:00	8.54	36.5	98.96	17.97	0.0
17-Jun 5:15	9.60	32.2	98.93	17.97	0.0
17-Jun 5:30	7.39	17.8	99.01	17.87	0.0
17-Jun 5:45	8.31	27.8	98.65	17.55	0.6
17-Jun 6:00	7.05	53.2	98.47	17.15	0.0
17-Jun 6:15	9.24	40.2	98.74	16.96	0.2
17-Jun 6:30	8.05	35.2	98.10	16.78	0.4
17-Jun 6:45	11.12	31.7	97.60	16.50	0.5
17-Jun 7:00	8.91	36.7	97.16	16.48	0.3
17-Jun 7:15	3.64	70.0	97.98	16.54	0.4
17-Jun 7:30	5.69	22.9	97.73	16.36	0.4
17-Jun 7:45	6.37	12.2	97.18	16.51	0.6
17-Jun 8:00	8.98	46.5	95.77	16.32	0.5
17-Jun 8:15	7.09	73.2	95.75	16.32	0.4
17-Jun 8:30	4.37	58.7	96.16	15.99	0.4
17-Jun 8:45	6.32	57.9	95.17	15.76	0.3
17-Jun 9:00	2.03	309.1	96.61	15.42	0.3
17-Jun 9:15	5.44	30.0	94.93	15.60	0.3
17-Jun 9:30	14.41	37.3	92.99	15.63	0.5
17-Jun 9:45	8.82	47.1	94.54	15.65	2.8
17-Jun 10:00	7.35	48.7	95.88	15.78	15.2
17-Jun 10:15	4.88	11.6	96.62	15.99	32.0
17-Jun 10:30	5.16	50.4	96.06	16.36	40.9
17-Jun 10:45	7.47	51.6	94.50	16.44	40.6
17-Jun 11:00	9.92	2.5	94.76	16.43	52.2
17-Jun 11:15	6.39	51.4	94.41	16.58	82.3
17-Jun 11:30	8.38	52.1	92.87	16.73	128.9
17-Jun 11:45	6.94	30.2	92.80	16.87	147.5

17-Jun 12:00	7.62	18.6	91.26	17.10	164.8
17-Jun 12:15	4.90	41.8	90.87	17.21	200.2
17-Jun 12:30	6.86	63.1	90.42	17.43	253.8
17-Jun 12:45	6.73	41.7	87.33	17.59	290.2
17-Jun 13:00	7.58	45.3	84.25	17.92	501.4
17-Jun 13:15	9.55	48.0	80.01	18.50	530.7
17-Jun 13:30	9.30	18.0	80.16	18.60	363.8
17-Jun 13:45	6.27	56.5	78.75	18.45	274.2
17-Jun 14:00	6.30	24.2	78.70	18.48	247.8
17-Jun 14:15	3.76	13.1	77.06	18.54	290.7
17-Jun 14:30	6.84	46.2	75.88	19.30	431.6
17-Jun 14:45	6.32	342.7	70.25	19.85	439.6
17-Jun 15:00	6.94	355.3	65.15	21.13	1136.3
17-Jun 15:15	7.67	353.9	60.98	21.71	1061.2
17-Jun 15:30	16.34	332.4	53.64	22.07	1064.2
17-Jun 15:45	6.48	30.8	54.92	22.98	1086.3
17-Jun 16:00	5.51	5.8	49.29	23.33	946.7
17-Jun 16:15	10.21	16.8	50.23	23.29	940.9
17-Jun 16:30	8.59	28.3	50.74	23.52	1008.1
17-Jun 16:45	9.16	3.9	47.84	23.84	988.6
17-Jun 17:00	15.72	317.4	46.29	24.32	956.0
17-Jun 17:15	9.16	345.1	45.53	24.59	923.4
17-Jun 17:30	4.39	36.4	45.68	25.16	887.3
17-Jun 17:45	6.89	38.3	44.63	25.18	848.5
17-Jun 18:00	5.51	18.4	45.87	25.28	789.6
17-Jun 18:15	6.76	1.6	45.79	25.53	750.5
17-Jun 18:30	7.93	343.7	45.07	25.74	701.9
17-Jun 18:45	6.87	57.8	46.33	25.78	647.7
17-Jun 19:00	10.14	331.1	45.72	25.75	583.8
17-Jun 19:15	6.35	9.1	46.38	25.96	530.0
17-Jun 19:30	5.72	25.3	49.05	25.43	255.9
17-Jun 19:45	2.72	43.0	48.27	25.60	481.2
17-Jun 20:00	2.54	19.2	48.55	25.71	396.1
17-Jun 20:15	7.79	344.7	47.27	25.56	323.9
17-Jun 20:30	14.78	315.6	48.46	25.16	247.1
17-Jun 20:45	3.45	16.4	52.28	24.73	63.6
17-Jun 21:00	10.72	338.1	53.78	24.66	155.7
17-Jun 21:15	5.89	354.1	52.51	24.27	92.4
17-Jun 21:30	5.86	344.5	54.33	23.80	51.3
17-Jun 21:45	3.79	357.1	56.50	23.36	23.5
17-Jun 22:00	2.40	20.8	58.49	22.76	12.4
17-Jun 22:15	4.33	12.6	60.68	22.18	3.5
17-Jun 22:30	2.42	20.5	63.16	21.70	0.3
17-Jun 22:45	2.75	336.6	65.57	21.21	0.0
17-Jun 23:00	1.19	32.5	67.75	20.75	0.0
17-Jun 23:15	3.18	358.2	69.22	20.35	0.0
17-Jun 23:30	3.31	322.9	70.01	20.02	0.0
17-Jun 23:45	3.96	328.8	71.71	19.67	0.0
18-Jun 0:00	1.95	327.6	73.69	19.34	0.0
18-Jun 0:15	2.26	301.5	74.71	19.05	0.0
18-Jun 0:30	3.29	0.3	75.85	18.69	0.0
18-Jun 0:45	0.88	46.2	79.55	18.14	0.0

18-Jun 1:00	1.36	75.7	83.34	17.67	0.0
18-Jun 1:15	0.00	0.0	89.77	17.04	0.0
18-Jun 1:30	0.00	0.0	90.07	16.89	0.0
18-Jun 1:45	0.00	0.0	90.24	16.62	0.0
18-Jun 2:00	0.00	0.0	87.90	16.37	0.0
18-Jun 2:15	0.00	0.0	90.68	15.97	0.0
18-Jun 2:30	0.00	0.0	91.74	15.49	0.0
18-Jun 2:45	0.00	0.0	90.72	15.70	0.0
18-Jun 3:00	0.00	0.0	93.58	15.29	0.0
18-Jun 3:15	0.76	113.0	95.23	14.88	0.0
18-Jun 3:30	2.02	103.4	96.69	14.69	0.0
18-Jun 3:45	0.00	0.0	96.50	14.66	0.0
18-Jun 4:00	1.21	29.5	96.61	14.59	0.0
18-Jun 4:15	2.41	24.1	96.84	14.38	0.0
18-Jun 4:30	0.17	41.1	97.15	13.99	0.0
18-Jun 4:45	1.76	212.1	96.96	13.76	0.0
18-Jun 5:00	0.75	274.1	97.67	13.52	0.0
18-Jun 5:15	0.00	0.0	96.40	13.66	0.0
18-Jun 5:30	3.34	313.2	79.78	15.15	0.0
18-Jun 5:45	0.00	0.0	77.47	15.60	0.6
18-Jun 6:00	4.78	9.0	68.07	15.87	5.0
18-Jun 6:15	2.47	4.7	69.43	15.84	34.3
18-Jun 6:30	3.63	6.0	65.64	16.05	84.8
18-Jun 6:45	5.97	346.8	66.70	16.19	140.5
18-Jun 7:00	7.40	12.0	65.27	16.64	201.6
18-Jun 7:15	6.25	15.3	60.98	17.21	266.1
18-Jun 7:30	7.94	51.2	62.60	17.47	330.7
18-Jun 7:45	6.93	37.4	58.69	17.83	395.4
18-Jun 8:00	8.89	46.5	58.06	18.08	458.6
18-Jun 8:15	11.24	51.7	57.37	18.30	484.5
18-Jun 8:30	8.27	44.4	57.68	18.52	546.3
18-Jun 8:45	7.57	66.6	56.44	18.66	602.5
18-Jun 9:00	9.78	63.5	53.19	18.98	656.5
18-Jun 9:15	11.72	21.9	52.00	19.31	705.9
18-Jun 9:30	8.01	46.2	54.50	19.55	753.8
18-Jun 9:45	9.71	5.4	54.29	19.76	801.1
18-Jun 10:00	7.30	17.5	53.44	19.88	850.7
18-Jun 10:15	7.15	33.8	51.69	20.45	886.5
18-Jun 10:30	8.15	58.9	50.69	20.70	919.3
18-Jun 10:45	4.12	8.9	51.46	21.05	946.3
18-Jun 11:00	7.43	44.4	49.07	21.48	974.4
18-Jun 11:15	13.07	325.4	49.63	21.56	986.9
18-Jun 11:30	13.05	330.2	48.74	21.72	997.4
18-Jun 11:45	11.85	333.2	48.14	22.05	978.9
18-Jun 12:00	7.84	56.5	48.01	22.09	1013.0
18-Jun 12:15	4.74	4.9	47.32	22.65	1029.0
18-Jun 12:30	4.01	320.8	41.94	23.40	1042.1
18-Jun 12:45	10.86	335.6	42.32	23.32	1015.7
18-Jun 13:00	6.80	47.8	41.74	23.82	1012.9
18-Jun 13:15	7.93	65.0	39.20	23.65	952.4
18-Jun 13:30	3.79	68.8	41.61	24.19	957.8
18-Jun 13:45	5.74	59.3	42.45	24.14	916.0

18-Jun 14:00	4.17	39.9	43.10	24.07	889.6
18-Jun 14:15	3.45	65.2	41.28	24.54	844.6
18-Jun 14:30	8.23	3.7	39.51	25.05	810.0
18-Jun 14:45	5.82	60.7	39.89	24.94	760.4
18-Jun 15:00	7.78	58.3	38.43	24.74	718.1
18-Jun 15:15	4.47	303.7	39.12	25.41	657.4
18-Jun 15:30	2.99	20.7	39.19	25.39	612.5
18-Jun 15:45	1.75	101.4	39.77	25.28	552.9
18-Jun 16:00	1.80	330.8	37.83	26.31	506.4
18-Jun 16:15	2.65	330.2	36.69	26.73	454.0
18-Jun 16:30	6.30	278.8	38.87	26.08	400.8
18-Jun 16:45	4.41	280.0	39.37	26.43	341.3
18-Jun 17:00	1.47	10.8	38.71	26.72	295.7
18-Jun 17:15	3.93	317.0	40.15	26.24	239.8
18-Jun 17:30	2.78	283.7	43.51	25.86	198.3
18-Jun 17:45	2.91	299.0	41.25	25.89	143.1
18-Jun 18:00	2.90	250.6	43.39	25.63	101.3
18-Jun 18:15	2.43	258.8	50.21	25.08	58.3
18-Jun 18:30	1.08	250.5	51.98	24.76	30.4
18-Jun 18:45	0.00	0.0	60.20	23.89	18.3
18-Jun 19:00	2.85	94.1	71.07	21.68	8.7
18-Jun 19:15	2.93	86.9	77.21	20.65	1.2
18-Jun 19:30	3.43	84.3	79.46	19.88	0.0
18-Jun 19:45	3.38	79.7	82.80	19.25	0.0
18-Jun 20:00	2.43	91.6	84.14	18.70	0.0
18-Jun 20:15	3.51	85.2	86.72	18.00	0.0
18-Jun 20:30	4.13	94.0	86.83	17.64	0.0
18-Jun 20:45	2.62	69.1	87.94	17.25	0.0
18-Jun 21:00	3.14	64.4	91.11	16.85	0.0
18-Jun 21:15	4.15	47.4	90.35	16.73	0.0
18-Jun 21:30	3.61	64.0	91.43	16.41	0.0
18-Jun 21:45	4.07	55.3	92.51	16.20	0.0
18-Jun 22:00	4.63	54.3	92.08	16.07	0.0
18-Jun 22:15	3.35	65.5	93.51	15.71	0.0
19-Jun 1:45	4.87	74.4	94.90	15.19	0.0
19-Jun 2:00	4.77	60.7	95.21	15.07	0.0
19-Jun 2:15	5.52	75.2	95.27	14.91	0.0
19-Jun 2:30	4.68	58.8	94.73	14.89	0.0
19-Jun 2:45	5.23	65.5	94.89	14.67	0.0
19-Jun 3:00	4.30	53.3	95.82	14.40	0.0
19-Jun 3:15	4.59	76.0	95.96	14.47	0.0
19-Jun 3:30	3.95	61.0	96.43	14.25	0.0
19-Jun 3:45	4.66	51.5	96.65	14.04	0.0
19-Jun 4:00	3.35	57.7	95.58	13.88	0.0
19-Jun 4:15	4.91	70.4	96.46	13.77	0.0
19-Jun 4:30	4.38	74.9	96.42	13.83	0.0
19-Jun 4:45	4.29	55.1	96.24	13.58	0.0
19-Jun 5:00	5.46	70.8	96.26	13.51	0.0
19-Jun 5:15	5.35	57.1	96.16	13.22	0.0
19-Jun 5:30	4.18	65.0	95.73	13.25	0.0
19-Jun 5:45	4.66	56.7	96.76	13.12	0.6
19-Jun 6:00	5.37	54.3	95.60	12.97	4.7

19-Jun 6:15	4.20	50.5	95.79	12.73	29.4
19-Jun 6:30	4.93	72.5	95.89	12.99	90.0
19-Jun 6:45	3.62	54.6	94.34	13.06	59.9
19-Jun 7:00	5.16	70.9	93.63	13.06	103.1
19-Jun 7:15	4.62	69.9	93.96	13.16	71.8
19-Jun 7:30	5.23	67.8	91.84	13.52	232.7
19-Jun 7:45	3.65	63.9	90.41	14.24	261.6
19-Jun 8:00	4.00	43.0	86.74	15.42	360.2
19-Jun 8:15	2.36	55.5	83.75	16.48	483.2
19-Jun 8:30	1.47	85.0	79.90	18.12	544.4
19-Jun 8:45	0.00	0.0	69.79	20.43	601.2
19-Jun 9:00	2.10	220.3	67.16	21.76	657.3
19-Jun 9:15	2.04	229.2	64.07	22.72	707.1
19-Jun 9:30	2.53	233.6	62.32	23.15	755.6
19-Jun 9:45	2.86	192.6	60.26	23.75	797.9
19-Jun 10:00	4.18	224.9	58.20	23.84	843.9
19-Jun 10:15	2.85	233.8	55.75	24.87	888.4
19-Jun 10:30	3.76	223.9	53.93	24.96	914.8
19-Jun 10:45	6.54	242.8	48.31	25.64	950.9
19-Jun 11:00	1.91	186.2	46.02	25.95	973.5
19-Jun 11:15	10.77	221.0	45.20	26.13	983.7
19-Jun 11:30	6.80	239.7	41.88	26.58	987.7
19-Jun 11:45	13.06	223.7	40.34	26.73	1010.9
19-Jun 12:00	6.24	233.5	40.49	27.08	1011.8
19-Jun 12:15	11.79	221.5	40.39	27.12	1017.6
19-Jun 12:30	4.42	176.6	43.01	27.26	1000.4
19-Jun 12:45	11.64	191.8	43.82	27.15	991.8
19-Jun 13:00	5.42	259.7	39.88	27.90	977.3
19-Jun 13:15	2.84	214.4	40.03	28.21	963.9
19-Jun 13:30	13.84	230.3	41.15	27.76	929.7
19-Jun 13:45	11.19	209.2	40.97	28.03	903.6
19-Jun 14:00	6.03	200.6	42.97	28.59	861.7
19-Jun 14:15	9.17	234.8	43.06	28.22	828.1
19-Jun 14:30	7.61	204.5	42.81	27.90	810.9
19-Jun 14:45	12.50	227.7	40.71	28.45	765.9
19-Jun 15:00	6.21	198.2	40.17	28.67	720.8
19-Jun 15:15	11.06	198.5	43.92	28.26	675.4
19-Jun 15:30	12.30	211.1	45.37	28.31	620.1
19-Jun 15:45	7.51	188.2	44.11	28.35	575.0
19-Jun 16:00	7.86	211.5	44.28	28.29	528.8
19-Jun 16:15	8.40	233.1	43.76	28.47	484.0
19-Jun 16:30	6.35	222.6	42.59	28.18	430.2
19-Jun 16:45	7.45	187.1	43.17	28.13	378.6
19-Jun 17:00	7.73	209.6	41.51	28.07	331.6
19-Jun 17:15	7.94	208.3	41.20	28.11	276.4
19-Jun 17:30	7.15	224.5	41.58	27.98	228.1
19-Jun 17:45	12.54	214.8	42.70	27.55	181.4
19-Jun 18:00	6.10	213.3	43.65	27.47	139.2
19-Jun 18:15	9.58	223.5	45.81	27.02	86.4
19-Jun 18:30	6.78	248.9	47.75	26.84	46.5
19-Jun 18:45	2.91	220.8	48.82	26.68	25.8
19-Jun 19:00	7.25	217.7	53.27	25.82	18.3

19-Jun 19:15	5.45	224.0	55.99	25.30	9.7
19-Jun 19:30	4.69	203.7	58.83	24.63	1.8
19-Jun 19:45	2.15	168.1	60.85	24.12	0.1
19-Jun 20:00	0.00	0.0	65.21	23.24	0.0
19-Jun 20:15	0.00	0.0	70.41	22.38	0.0
19-Jun 20:30	1.59	106.9	75.06	21.39	0.0
19-Jun 20:45	1.88	80.4	79.49	20.44	0.0
19-Jun 21:00	1.56	93.4	84.19	19.66	0.0
19-Jun 21:15	0.00	0.0	84.95	19.36	0.0
19-Jun 21:30	1.96	81.4	86.72	18.94	0.0
19-Jun 21:45	3.11	87.4	88.98	18.39	0.0
19-Jun 22:00	1.87	67.4	89.57	18.17	0.0
19-Jun 22:15	2.34	72.2	91.74	17.86	0.0
19-Jun 22:30	1.47	92.4	92.43	17.64	0.0
20-Jun 1:45	2.01	89.4	93.90	17.44	0.0
20-Jun 2:00	1.56	83.4	93.78	17.42	0.0
20-Jun 2:15	2.02	103.3	93.32	17.50	0.0
20-Jun 2:30	2.06	90.5	94.74	17.31	0.0
20-Jun 2:45	1.49	97.0	94.92	17.23	0.0
20-Jun 3:00	0.75	107.7	94.98	17.27	0.0
20-Jun 3:15	1.91	106.2	94.75	17.32	0.0
20-Jun 3:30	1.45	103.7	95.06	17.01	0.0
20-Jun 3:45	1.67	63.9	95.07	16.72	0.0
20-Jun 4:00	2.17	69.7	96.61	16.59	0.0
20-Jun 4:15	1.27	51.4	96.00	16.41	0.0
20-Jun 4:30	1.31	64.4	96.28	16.28	0.0
20-Jun 4:45	1.70	64.8	96.55	15.98	0.0
20-Jun 5:00	2.16	67.4	96.60	15.86	0.0
20-Jun 5:15	1.85	77.6	96.60	15.72	0.0
20-Jun 5:30	2.24	53.6	97.00	15.55	0.0
20-Jun 5:45	2.86	58.1	97.10	15.47	0.1
20-Jun 6:00	3.32	38.7	97.00	15.34	1.7
20-Jun 6:15	3.27	44.6	96.95	15.24	9.4
20-Jun 6:30	3.44	56.1	96.74	15.31	36.3
20-Jun 6:45	3.34	46.3	96.08	15.24	25.2
20-Jun 7:00	3.76	47.0	95.19	15.73	138.0
20-Jun 7:15	3.14	77.3	93.25	16.20	201.4
20-Jun 7:30	2.73	43.0	89.51	17.06	259.2
20-Jun 7:45	2.13	31.7	85.59	17.88	318.9
20-Jun 8:00	0.00	0.0	82.43	18.87	369.7
20-Jun 8:15	0.68	77.7	77.47	20.28	436.2
20-Jun 8:30	0.00	0.0	73.67	21.40	501.4
20-Jun 8:45	0.00	0.0	70.66	22.52	564.1
20-Jun 9:00	2.06	151.2	74.52	22.52	612.7
20-Jun 9:15	4.49	180.3	70.92	23.15	671.6
20-Jun 9:30	2.10	157.7	65.73	24.51	719.8
20-Jun 9:45	2.06	193.6	65.86	24.55	765.7
20-Jun 10:00	4.05	204.9	64.88	25.01	816.5
20-Jun 10:15	0.90	235.1	59.68	26.35	867.5
20-Jun 10:30	4.42	213.6	59.74	26.15	842.8
20-Jun 10:45	2.60	206.8	53.42	27.04	921.9
20-Jun 11:00	2.36	183.0	49.15	27.57	940.7

20-Jun 11:15	8.78	250.1	46.17	27.44	974.1
20-Jun 11:30	9.70	278.2	46.63	27.58	970.0
20-Jun 11:45	4.43	300.4	46.55	27.93	973.7
20-Jun 12:00	4.34	240.4	46.64	28.22	958.4
20-Jun 12:15	5.21	230.2	43.15	28.50	1002.9
20-Jun 12:30	10.43	274.1	43.41	28.79	1009.5
20-Jun 12:45	10.13	216.5	43.67	28.65	999.4
20-Jun 13:00	8.11	246.7	42.54	28.87	1007.1
20-Jun 13:15	8.05	289.8	44.22	29.02	1009.6
20-Jun 13:30	4.02	266.1	46.80	28.96	568.6
20-Jun 13:45	8.29	299.5	44.82	28.84	442.5
20-Jun 14:00	5.06	255.4	42.92	29.62	941.8
20-Jun 14:15	4.51	259.4	38.17	29.91	933.7
20-Jun 14:30	9.00	292.8	39.80	29.90	722.9
20-Jun 14:45	4.09	284.9	43.24	29.46	483.6
20-Jun 15:00	7.61	259.5	43.96	28.95	488.6
20-Jun 15:15	8.01	291.5	44.93	29.25	361.8
20-Jun 15:30	18.18	360.0	51.75	26.89	208.0
20-Jun 15:45	20.37	336.9	61.06	22.89	59.5
20-Jun 16:00	15.41	340.9	64.37	21.86	11.3
20-Jun 16:15	5.31	345.1	62.56	21.39	6.9
20-Jun 16:30	5.38	275.5	73.08	20.27	6.7
20-Jun 16:45	3.16	54.3	83.54	19.17	7.8
20-Jun 17:00	4.85	136.2	80.17	19.37	10.8
20-Jun 17:15	2.74	73.2	91.54	18.43	28.3
20-Jun 17:30	1.93	66.3	89.92	18.68	123.7
20-Jun 17:45	0.00	0.0	88.26	19.06	96.8
20-Jun 18:00	4.48	31.8	87.98	19.26	203.7
20-Jun 18:15	1.46	39.4	85.47	19.86	185.1
20-Jun 18:30	2.86	65.8	87.28	19.64	87.6
20-Jun 18:45	3.06	39.8	83.76	19.40	23.2
20-Jun 19:00	1.70	42.0	87.34	19.04	8.4
20-Jun 19:15	0.91	47.8	90.78	19.08	3.5
20-Jun 19:30	1.33	116.3	90.67	18.72	0.6
20-Jun 19:45	1.50	125.7	93.81	18.42	0.0
20-Jun 20:00	3.02	273.6	95.39	17.94	0.0
20-Jun 20:15	0.00	0.0	97.17	17.88	0.0
20-Jun 20:30	0.00	0.0	97.48	18.09	0.0
20-Jun 20:45	2.86	65.5	95.89	18.28	0.0
20-Jun 21:00	3.20	60.5	94.36	18.35	0.0
20-Jun 21:15	3.80	232.6	95.34	18.24	0.0
20-Jun 21:30	0.00	0.0	91.69	18.35	0.0
20-Jun 21:45	2.00	200.4	93.99	18.14	0.0
20-Jun 22:00	0.00	0.0	95.51	18.03	0.0
20-Jun 22:15	1.23	105.1	97.14	17.83	0.0
21-Jun 1:30	4.29	205.5	98.02	17.49	0.0
21-Jun 1:45	0.00	0.0	98.26	17.65	0.0
21-Jun 2:00	0.36	109.7	97.65	17.63	0.0
21-Jun 2:15	2.05	93.9	97.69	17.69	0.0
21-Jun 2:30	2.65	123.6	97.51	17.50	0.0
21-Jun 2:45	4.32	278.0	97.65	17.57	0.0
21-Jun 3:00	0.00	0.0	98.23	17.41	0.0

21-Jun	3:15	0.00	0.0	98.29	17.46	0.0
21-Jun	3:30	5.70	92.0	96.82	17.31	0.0
21-Jun	3:45	3.00	72.8	97.65	17.40	0.0
21-Jun	4:00	2.82	88.9	97.82	17.19	0.0
21-Jun	4:15	3.42	69.5	97.54	17.29	0.0
21-Jun	4:30	8.14	78.9	97.31	17.09	0.0
21-Jun	4:45	4.36	65.5	97.01	17.26	0.0
21-Jun	5:00	4.89	69.0	95.96	17.24	0.0
21-Jun	5:15	5.06	79.2	95.94	17.31	0.0
21-Jun	5:30	5.52	55.5	95.63	17.23	0.0
21-Jun	5:45	5.83	75.7	95.72	17.36	0.7
21-Jun	6:00	6.08	60.2	94.38	17.53	2.6
21-Jun	6:15	4.65	60.7	93.39	17.52	10.3
21-Jun	6:30	2.02	96.1	93.11	17.50	20.9
21-Jun	6:45	2.16	190.8	93.53	17.50	39.3
21-Jun	7:00	4.01	217.8	96.52	17.01	41.0
21-Jun	7:15	2.97	95.2	88.22	17.66	50.2
21-Jun	7:30	2.69	53.7	88.36	17.66	68.9
21-Jun	7:45	2.86	38.5	87.19	17.98	168.2
21-Jun	8:00	0.00	0.0	83.59	18.54	149.8
21-Jun	8:15	4.49	57.3	85.63	18.68	213.2
21-Jun	8:30	6.37	95.1	85.49	18.45	167.3
21-Jun	8:45	2.89	42.5	86.41	18.52	193.5
21-Jun	9:00	7.33	79.0	85.07	18.57	276.8
21-Jun	9:15	3.32	76.5	83.14	19.09	574.9
21-Jun	9:30	10.00	99.0	82.21	19.19	342.0
21-Jun	9:45	8.45	75.8	81.21	19.28	387.2
21-Jun	10:00	4.97	61.6	80.32	19.85	358.2
21-Jun	10:15	3.04	71.7	82.33	19.78	187.1
21-Jun	10:30	3.90	68.5	81.81	19.84	160.0
21-Jun	10:45	4.71	70.6	83.71	19.79	147.3
21-Jun	11:00	3.12	73.5	85.80	19.76	140.7
21-Jun	11:15	0.00	0.0	87.01	20.39	245.4
21-Jun	11:30	6.23	159.0	81.29	20.24	359.0
21-Jun	11:45	9.01	134.4	80.31	20.07	466.2
21-Jun	12:00	5.07	110.5	78.99	20.47	459.1
21-Jun	12:15	3.86	110.6	75.20	21.48	898.5
21-Jun	12:30	3.67	91.1	71.18	21.83	535.8
21-Jun	12:45	8.60	187.5	71.72	21.60	524.3
21-Jun	13:00	6.18	172.5	70.98	21.88	560.2
21-Jun	13:15	7.28	138.6	69.54	22.42	330.8
21-Jun	13:30	4.48	135.9	69.94	22.22	709.6
21-Jun	13:45	2.44	173.0	67.77	22.80	742.1
21-Jun	14:00	4.15	152.8	66.89	22.69	791.8
21-Jun	14:15	9.33	133.1	68.65	22.86	532.2
21-Jun	14:30	4.95	173.1	68.31	22.99	421.2
21-Jun	14:45	6.99	100.0	67.98	23.04	279.6
21-Jun	15:00	7.56	101.7	69.39	22.66	196.8
21-Jun	15:15	8.40	147.5	70.63	22.39	227.7
21-Jun	15:30	4.73	143.8	72.65	22.52	290.6
21-Jun	15:45	6.16	132.8	75.61	21.97	406.9
21-Jun	16:00	11.29	137.2	77.05	21.70	291.7

21-Jun 16:15	10.22	122.5	79.30	21.36	159.5
21-Jun 16:30	6.69	104.8	80.64	21.13	98.0
21-Jun 16:45	6.85	106.4	81.68	20.81	154.6
21-Jun 17:00	10.29	116.5	83.29	20.47	68.4
21-Jun 17:15	6.68	96.7	84.54	20.28	20.9
21-Jun 17:30	9.02	81.1	84.89	20.22	14.8
21-Jun 17:45	7.32	102.4	86.60	19.92	33.8
21-Jun 18:00	4.74	71.7	87.20	19.96	10.6
21-Jun 18:15	8.34	105.2	90.17	19.38	3.1
21-Jun 18:30	10.90	123.1	92.84	18.94	1.0
21-Jun 18:45	3.41	87.4	92.77	18.93	0.1
21-Jun 19:00	4.82	129.7	90.12	19.22	0.0
21-Jun 19:15	3.65	115.8	88.98	19.26	0.0
21-Jun 19:30	5.82	130.4	89.58	19.15	0.0
21-Jun 19:45	5.06	109.5	89.85	19.06	0.0
21-Jun 20:00	2.95	118.9	89.59	18.96	0.0
21-Jun 20:15	5.49	102.1	88.58	18.88	0.0
21-Jun 20:30	6.13	78.2	87.21	18.85	0.0
21-Jun 20:45	8.09	111.1	89.36	18.55	0.0
21-Jun 21:00	7.55	120.5	92.01	18.10	0.0
21-Jun 21:15	4.94	100.1	92.46	17.84	0.0
21-Jun 21:30	6.46	112.0	91.04	17.97	0.0
21-Jun 21:45	8.50	110.4	91.32	18.00	0.0
21-Jun 22:00	4.35	124.0	92.04	17.93	0.0
22-Jun 2:15	12.10	112.3	92.98	17.83	0.0
22-Jun 2:30	5.50	122.0	92.97	17.87	0.0
22-Jun 2:45	3.09	136.8	92.78	18.04	0.0
22-Jun 3:00	5.68	134.7	94.03	17.91	0.0
22-Jun 3:15	4.75	89.5	95.72	17.70	0.0
22-Jun 3:30	4.36	141.0	96.58	17.71	0.0
22-Jun 3:45	3.73	98.8	96.89	17.63	0.0
22-Jun 4:00	5.74	118.6	97.46	17.68	0.0
22-Jun 4:15	4.44	117.8	97.10	17.88	0.0
22-Jun 4:30	3.01	173.8	96.92	17.99	0.0
22-Jun 4:45	3.65	157.2	95.09	18.37	0.0
22-Jun 5:00	4.80	123.0	94.58	18.64	0.0
22-Jun 5:15	7.31	210.6	93.35	18.85	0.0
22-Jun 5:30	6.34	161.5	92.55	18.92	0.0
22-Jun 5:45	3.46	216.3	92.69	18.96	0.1
22-Jun 6:00	6.25	153.2	91.81	19.04	0.5
22-Jun 6:15	6.01	189.4	90.99	19.08	2.9
22-Jun 6:30	7.35	174.5	90.92	19.07	14.7
22-Jun 6:45	1.88	204.7	91.00	19.02	10.3
22-Jun 7:00	3.58	192.3	90.71	18.98	8.7
22-Jun 7:15	1.71	174.3	90.31	18.95	31.3
22-Jun 7:30	3.75	165.2	90.38	18.93	32.0
22-Jun 7:45	6.25	199.4	89.56	18.99	112.0
22-Jun 8:00	2.86	228.6	90.07	18.97	24.6
22-Jun 8:15	5.22	174.5	90.76	18.77	104.1
22-Jun 8:30	7.18	156.2	93.46	18.46	95.6
22-Jun 8:45	4.97	152.1	92.81	18.72	170.2
22-Jun 9:00	8.00	148.0	91.53	18.88	119.9

22-Jun 9:15	6.04	144.5	90.54	19.02	160.7
22-Jun 9:30	4.01	151.2	89.97	19.33	102.0
22-Jun 9:45	9.16	150.4	88.71	19.41	154.3
22-Jun 10:00	4.70	151.5	88.39	19.53	137.9
22-Jun 10:15	1.00	206.1	87.64	19.78	290.2
22-Jun 10:30	9.31	157.4	86.66	20.01	342.0
22-Jun 10:45	5.74	160.3	85.21	20.28	425.5
22-Jun 11:00	11.74	167.3	82.46	20.86	439.6
22-Jun 11:15	10.17	192.4	82.17	20.99	367.2
22-Jun 11:30	5.47	199.9	82.08	21.09	297.0
22-Jun 11:45	10.60	162.7	83.13	20.87	240.2
22-Jun 12:00	6.33	156.4	84.24	20.83	106.3
22-Jun 12:15	5.27	197.4	85.10	20.63	53.2
22-Jun 12:30	4.61	179.2	85.99	20.47	76.7
22-Jun 12:45	7.96	148.9	85.28	20.53	201.0
22-Jun 13:00	5.60	180.1	83.51	21.04	244.4
22-Jun 13:15	2.94	147.3	88.36	20.68	87.8
22-Jun 13:30	6.63	157.3	89.29	20.15	87.2
22-Jun 13:45	3.21	164.2	88.91	20.04	102.1
22-Jun 14:00	6.42	145.4	84.31	20.11	141.7
22-Jun 14:15	0.12	171.7	86.27	20.19	163.5
22-Jun 14:30	4.86	166.9	82.07	20.43	743.8
22-Jun 14:45	5.68	138.9	75.15	21.47	556.9
22-Jun 15:00	5.91	149.3	67.81	21.86	455.8
22-Jun 15:15	1.59	185.4	66.83	22.28	377.1
22-Jun 15:30	1.98	250.0	66.05	22.34	140.3
22-Jun 15:45	2.55	184.4	68.87	21.90	79.9
22-Jun 16:00	1.82	156.4	69.44	21.59	86.1
22-Jun 16:15	3.81	188.9	72.71	21.23	137.5
22-Jun 16:30	1.45	273.2	74.28	21.20	101.0
22-Jun 16:45	0.00	0.0	77.15	21.08	56.4
22-Jun 17:00	4.68	169.9	80.38	20.88	42.0
22-Jun 17:15	8.47	199.5	83.07	20.66	24.3
22-Jun 17:30	5.97	235.2	87.88	20.08	39.1
22-Jun 17:45	2.41	212.6	92.74	19.72	34.9
22-Jun 18:00	2.49	179.1	93.12	19.65	67.3
22-Jun 18:15	2.22	242.2	91.39	19.66	24.9
22-Jun 18:30	2.11	153.8	91.28	19.67	6.3
22-Jun 18:45	1.36	26.6	91.49	19.52	2.0
22-Jun 19:00	1.93	71.2	91.94	19.74	0.4
22-Jun 19:15	2.89	125.9	92.27	19.72	0.0
22-Jun 19:30	0.80	86.6	91.77	19.82	0.0
22-Jun 19:45	0.75	153.4	91.66	19.74	0.0
22-Jun 20:00	3.34	164.2	90.80	19.90	0.0
22-Jun 20:15	2.79	118.9	90.48	19.94	0.0
22-Jun 20:30	7.51	164.7	90.41	19.87	0.0
22-Jun 20:45	4.49	150.7	91.10	19.76	0.0
22-Jun 21:00	4.81	179.3	91.56	19.68	0.0
22-Jun 21:15	1.73	172.2	91.74	19.62	0.0
22-Jun 21:30	2.06	73.3	91.75	19.50	0.0
22-Jun 21:45	1.92	78.9	92.63	19.28	0.0
22-Jun 22:00	4.85	150.4	91.37	19.40	0.0

23-Jun	2:00	4.17	161.1	90.65	19.51	0.0
23-Jun	2:15	1.17	128.8	91.52	19.41	0.0
23-Jun	2:30	1.32	91.5	91.82	19.31	0.0
23-Jun	2:45	2.50	101.2	92.69	19.17	0.0
23-Jun	3:00	1.42	28.1	93.15	19.03	0.0
23-Jun	3:15	4.74	144.3	93.42	18.99	0.0
23-Jun	3:30	3.47	91.9	94.40	18.86	0.0
23-Jun	3:45	3.46	102.4	95.63	18.75	0.0
23-Jun	4:00	1.70	91.8	95.85	18.79	0.0
23-Jun	4:15	2.56	81.9	94.93	18.93	0.0
23-Jun	4:30	2.74	86.5	95.17	19.01	0.0
23-Jun	4:45	5.20	120.4	95.46	18.94	0.0
23-Jun	5:00	5.66	95.4	96.19	18.87	0.0
23-Jun	5:15	1.48	91.8	95.44	18.96	0.0
23-Jun	5:30	2.91	98.3	94.80	18.99	0.0
23-Jun	5:45	5.01	190.3	94.91	18.89	0.1
23-Jun	6:00	2.00	88.5	95.34	18.76	1.5
23-Jun	6:15	5.48	101.9	94.61	18.82	4.5
23-Jun	6:30	5.36	99.7	95.26	18.75	14.0
23-Jun	6:45	9.48	110.8	94.74	18.82	17.5
23-Jun	7:00	7.32	121.3	95.00	18.75	21.8
23-Jun	7:15	5.35	100.9	95.73	18.68	40.3
23-Jun	7:30	3.20	109.7	94.81	18.87	31.6
23-Jun	7:45	5.66	102.5	94.95	18.91	50.6
23-Jun	8:00	6.51	111.6	94.35	19.16	62.9
23-Jun	8:15	5.27	86.0	93.80	19.26	62.6
23-Jun	8:30	7.71	143.9	93.84	19.27	81.8
23-Jun	8:45	6.74	174.2	92.86	19.52	77.2
23-Jun	9:00	3.90	187.2	93.60	19.50	109.0
23-Jun	9:15	5.81	205.0	92.02	19.87	180.3
23-Jun	9:30	2.62	141.2	89.44	20.67	470.5
23-Jun	9:45	10.19	171.9	87.28	20.92	844.3
23-Jun	10:00	9.56	175.5	84.35	21.29	344.6
23-Jun	10:15	3.43	185.0	85.77	21.16	286.0
23-Jun	10:30	4.38	206.7	83.71	21.57	256.3
23-Jun	10:45	6.51	216.5	82.64	21.83	527.8
23-Jun	11:00	13.66	237.6	78.13	22.25	431.1
23-Jun	11:15	8.33	232.4	79.19	22.08	390.8
23-Jun	11:30	4.69	245.4	77.27	22.52	497.7
23-Jun	11:45	9.46	223.5	76.68	22.41	461.8
23-Jun	12:00	5.35	248.5	74.36	23.03	453.4
23-Jun	12:15	6.91	193.3	75.46	22.72	261.9
23-Jun	12:30	10.58	224.1	75.86	22.53	242.9
23-Jun	12:45	7.05	235.0	85.85	21.13	229.2
23-Jun	13:00	11.01	238.1	81.95	21.56	455.1
23-Jun	13:15	11.73	244.6	80.52	21.52	201.3
23-Jun	13:30	9.22	229.5	76.58	22.61	910.0
23-Jun	13:45	11.93	284.2	80.21	21.79	149.5
23-Jun	14:00	6.89	257.5	90.90	19.98	186.6
23-Jun	14:15	4.63	265.6	90.97	20.05	142.6
23-Jun	14:30	6.01	239.3	92.00	19.20	61.8
23-Jun	14:45	7.90	343.1	94.33	18.27	18.2

23-Jun 15:00	6.68	360.0	94.39	16.51	76.7
23-Jun 15:15	6.03	53.6	94.38	16.29	188.8
23-Jun 15:30	2.99	40.2	92.93	16.59	211.7
23-Jun 15:45	8.40	33.5	91.67	16.37	70.3
23-Jun 16:00	5.67	47.2	93.23	15.91	47.3
23-Jun 16:15	3.93	37.3	94.71	15.62	25.8
23-Jun 16:30	0.48	47.0	94.74	15.69	25.8
23-Jun 16:45	7.69	322.0	92.62	15.57	22.0
23-Jun 17:00	3.63	37.8	93.67	15.33	45.2
23-Jun 17:15	2.70	36.3	93.10	15.44	26.2
23-Jun 17:30	2.62	289.4	92.71	15.44	17.7
23-Jun 17:45	5.13	310.9	92.22	15.38	12.8
23-Jun 18:00	5.02	336.3	91.89	15.38	23.3
23-Jun 18:15	3.92	10.6	92.18	15.26	12.3
23-Jun 18:30	4.37	34.2	92.87	15.01	10.0
23-Jun 18:45	2.34	51.6	93.84	14.92	1.0
23-Jun 19:00	3.26	348.2	91.14	14.67	0.1
23-Jun 19:15	5.49	7.8	91.77	14.22	0.0
23-Jun 19:30	6.74	58.0	93.40	14.17	0.0
23-Jun 19:45	7.47	34.3	92.97	13.80	0.0
23-Jun 20:00	5.99	45.6	93.16	13.91	0.0
23-Jun 20:15	5.58	59.4	92.39	13.86	0.0
23-Jun 20:30	6.09	36.3	92.33	13.78	0.0
23-Jun 20:45	8.67	46.6	90.15	14.00	0.0
23-Jun 21:00	7.75	34.6	92.07	13.74	0.0
23-Jun 21:15	5.95	57.6	92.63	13.84	0.0
23-Jun 21:30	6.47	43.5	91.47	13.65	0.0
23-Jun 21:45	5.42	48.4	91.56	13.65	0.0
23-Jun 22:00	4.65	37.9	91.91	13.70	0.0
24-Jun 1:45	3.90	63.1	92.35	13.74	0.0
24-Jun 2:00	3.75	13.8	91.72	13.64	0.0
24-Jun 2:15	4.38	55.7	91.18	13.57	0.0
24-Jun 2:30	3.24	62.4	91.36	13.78	0.0
24-Jun 2:45	3.93	341.0	92.32	13.54	0.0
24-Jun 3:00	5.14	1.0	93.32	13.39	0.0
24-Jun 3:15	6.24	10.8	93.30	13.30	0.0
24-Jun 3:30	4.43	33.9	93.76	13.25	0.0
24-Jun 3:45	7.48	342.2	93.10	13.18	0.0
24-Jun 4:00	2.32	332.1	92.99	13.15	0.0
24-Jun 4:15	4.26	0.7	92.27	13.16	0.0
24-Jun 4:30	4.22	23.6	90.97	13.20	0.0
24-Jun 4:45	6.83	346.6	90.90	13.23	0.0
24-Jun 5:00	4.94	345.5	91.05	13.17	0.0
24-Jun 5:15	3.80	51.0	91.99	13.16	0.0
24-Jun 5:30	4.81	45.5	91.38	13.21	0.0
24-Jun 5:45	6.72	20.0	91.64	13.02	0.2
24-Jun 6:00	5.12	38.7	92.78	12.96	1.3
24-Jun 6:15	3.79	358.3	93.75	12.86	4.3
24-Jun 6:30	5.36	20.3	93.82	12.81	4.8
24-Jun 6:45	6.16	51.5	94.12	12.70	19.0
24-Jun 7:00	6.97	18.9	92.93	12.78	19.4
24-Jun 7:15	7.18	40.8	92.10	12.86	31.2

24-Jun 7:30	5.43	64.5	86.19	13.79	413.2
24-Jun 7:45	6.05	59.8	82.18	14.58	462.3
24-Jun 8:00	8.08	50.2	81.94	14.42	414.7
24-Jun 8:15	12.32	48.0	79.11	14.72	519.4
24-Jun 8:30	14.33	30.0	77.25	15.08	416.0
24-Jun 8:45	9.56	37.4	77.62	15.15	252.3
24-Jun 9:00	8.42	58.7	75.46	15.44	611.8
24-Jun 9:15	12.05	47.2	73.05	15.92	975.7
24-Jun 9:30	9.39	30.7	71.04	16.54	618.2
24-Jun 9:45	9.86	51.3	69.74	16.87	1000.1
24-Jun 10:00	9.35	49.2	68.27	17.39	364.0
24-Jun 10:15	7.34	5.2	68.55	17.67	434.1
24-Jun 10:30	7.74	46.9	67.95	17.81	1037.6
24-Jun 10:45	1.84	21.6	68.85	18.28	744.1
24-Jun 11:00	10.93	7.6	66.96	18.17	983.9
24-Jun 11:15	4.87	359.3	66.48	18.41	956.6
24-Jun 11:30	7.30	51.1	64.34	19.17	770.5
24-Jun 11:45	6.30	19.2	63.23	19.49	530.4
24-Jun 12:00	9.62	356.0	61.12	19.82	508.3
24-Jun 12:15	8.75	37.2	58.37	19.70	540.2
24-Jun 12:30	11.11	333.5	58.35	19.95	542.3
24-Jun 12:45	9.26	54.0	55.90	20.33	1036.3
24-Jun 13:00	11.93	346.2	54.97	20.98	1028.7
24-Jun 13:15	10.74	347.3	56.97	20.77	892.3
24-Jun 13:30	4.61	2.9	58.74	20.43	428.6
24-Jun 13:45	6.76	15.9	56.23	21.31	906.3
24-Jun 14:00	6.25	340.3	56.97	21.06	643.8
24-Jun 14:15	5.94	54.5	54.95	21.59	366.5
24-Jun 14:30	6.38	48.6	53.54	21.44	201.1
24-Jun 14:45	1.48	352.5	50.08	22.09	754.1
24-Jun 15:00	7.87	327.4	48.71	22.42	699.0
24-Jun 15:15	6.88	21.7	48.21	22.68	624.7
24-Jun 15:30	9.38	32.8	45.48	22.18	564.6
24-Jun 15:45	9.47	346.6	48.93	22.27	532.3
24-Jun 16:00	1.65	48.2	48.88	22.88	471.1
24-Jun 16:15	3.07	51.5	52.33	22.25	363.7
24-Jun 16:30	3.56	13.0	52.70	22.06	234.2
24-Jun 16:45	3.79	48.8	56.85	21.89	95.7
24-Jun 17:00	2.47	46.0	53.74	22.22	214.3
24-Jun 17:15	2.01	23.3	55.33	21.97	33.0
24-Jun 17:30	3.72	12.1	58.26	21.30	94.3
24-Jun 17:45	3.83	30.7	59.91	21.19	55.4
24-Jun 18:00	3.17	31.6	63.44	20.96	34.4
24-Jun 18:15	0.00	0.0	65.81	20.58	39.5
24-Jun 18:30	0.70	92.7	74.85	19.57	17.1
24-Jun 18:45	1.80	98.8	80.17	18.15	2.3
24-Jun 19:00	1.72	68.6	84.09	17.29	0.0
24-Jun 19:15	1.07	51.9	85.15	16.71	0.0
24-Jun 19:30	2.61	63.1	88.26	16.20	0.0
24-Jun 19:45	1.74	85.1	90.66	15.36	0.0
24-Jun 20:00	1.84	86.4	89.81	15.18	0.0
24-Jun 20:15	4.11	64.7	91.94	14.85	0.0

24-Jun 20:30	4.74	63.3	92.20	14.63	0.0
24-Jun 20:45	5.35	67.8	94.26	14.14	0.0
24-Jun 21:00	3.75	96.5	92.36	13.95	0.0
24-Jun 21:15	4.06	89.5	92.40	13.63	0.0
24-Jun 21:30	3.76	96.7	92.10	13.55	0.0
24-Jun 21:45	5.88	72.3	94.50	13.05	0.0
24-Jun 22:00	5.43	54.3	95.84	12.75	0.0
25-Jun 2:00	3.69	97.0	95.52	12.55	0.0
25-Jun 2:15	4.39	77.6	96.00	12.39	0.0
25-Jun 2:30	4.13	65.7	96.65	12.35	0.0
25-Jun 2:45	3.99	79.0	96.70	12.03	0.0
25-Jun 3:00	3.11	76.3	96.92	11.75	0.0
25-Jun 3:15	4.83	81.8	97.41	11.41	0.0
25-Jun 3:30	5.17	72.1	97.38	11.29	0.0
25-Jun 3:45	4.35	79.6	97.15	11.10	0.0
25-Jun 4:00	5.06	69.0	97.32	10.95	0.0
25-Jun 4:15	3.37	67.5	97.31	10.84	0.0
25-Jun 4:30	5.54	75.5	97.11	10.76	0.0
25-Jun 4:45	4.15	60.9	97.37	10.63	0.0
25-Jun 5:00	2.76	90.4	96.88	10.23	0.0
25-Jun 5:15	2.92	91.4	97.70	10.01	0.0
25-Jun 5:30	2.47	93.5	96.83	9.80	0.0
25-Jun 5:45	2.81	77.1	96.82	9.86	0.4
25-Jun 6:00	1.96	64.2	97.09	9.72	3.2
25-Jun 6:15	1.18	82.9	96.55	9.72	22.7
25-Jun 6:30	1.42	50.6	94.45	10.06	88.8
25-Jun 6:45	2.72	59.2	93.60	10.55	138.0
25-Jun 7:00	2.06	40.2	91.39	11.31	187.0
25-Jun 7:15	0.07	64.1	87.21	12.21	246.6
25-Jun 7:30	1.26	77.1	81.16	13.90	307.2
25-Jun 7:45	0.00	0.0	71.49	16.45	374.9
25-Jun 8:00	0.87	68.2	77.25	15.89	436.7
25-Jun 8:15	0.00	0.0	73.61	17.19	498.4
25-Jun 8:30	1.85	130.3	76.72	17.45	558.6
25-Jun 8:45	0.67	84.6	66.85	19.42	617.0
25-Jun 9:00	5.52	54.8	63.24	19.63	670.0
25-Jun 9:15	7.82	47.9	56.85	19.94	718.4
25-Jun 9:30	10.48	53.9	58.44	20.10	766.9
25-Jun 9:45	8.16	47.5	57.03	20.14	810.4
25-Jun 10:00	10.63	59.2	57.00	20.43	853.4
25-Jun 10:15	10.67	45.5	57.04	20.72	890.8
25-Jun 10:30	8.96	48.2	56.49	20.89	927.0
25-Jun 10:45	8.50	43.4	56.42	21.31	954.2
25-Jun 11:00	5.24	19.4	58.02	22.09	976.6
25-Jun 11:15	7.11	44.5	55.64	22.05	1043.6
25-Jun 11:30	5.65	39.7	55.28	22.18	1075.5
25-Jun 11:45	4.86	47.5	55.32	22.33	1091.2
25-Jun 12:00	6.51	54.6	52.53	22.88	1105.4
25-Jun 12:15	5.91	54.9	53.06	22.98	235.4
25-Jun 12:30	6.75	57.1	52.32	23.17	668.6
25-Jun 12:45	9.29	95.7	48.08	23.38	1152.6
25-Jun 13:00	4.15	64.7	52.76	23.20	419.5

25-Jun 13:15	3.69	320.0	45.94	24.65	1086.0
25-Jun 13:30	8.72	44.4	48.15	24.31	996.3
25-Jun 13:45	6.99	53.0	44.67	23.59	340.0
25-Jun 14:00	2.22	7.2	45.64	24.46	960.6
25-Jun 14:15	3.68	62.0	44.26	24.94	987.3
25-Jun 14:30	0.00	0.0	42.00	25.63	305.3
25-Jun 14:45	3.18	61.7	46.46	24.35	242.4
25-Jun 15:00	4.59	65.9	46.34	24.45	210.4
25-Jun 15:15	3.57	57.7	44.87	25.14	833.6
25-Jun 15:30	4.16	34.1	46.00	24.92	188.5
25-Jun 15:45	4.17	14.1	53.46	24.23	262.6
25-Jun 16:00	3.39	336.5	51.24	24.48	476.6
25-Jun 16:15	6.59	340.4	46.78	25.44	419.9
25-Jun 16:30	4.42	302.1	47.16	25.17	382.9
25-Jun 16:45	3.32	40.9	44.25	25.87	432.7
25-Jun 17:00	4.36	359.2	48.05	25.19	168.4
25-Jun 17:15	2.48	8.1	49.38	24.89	175.1
25-Jun 17:30	6.10	15.4	49.89	24.30	86.3
25-Jun 17:45	2.82	358.1	51.61	24.12	90.4
25-Jun 18:00	2.71	22.0	53.26	24.15	74.2
25-Jun 18:15	3.61	13.4	54.80	23.77	29.2
25-Jun 18:30	3.38	30.6	58.04	23.18	14.6
25-Jun 18:45	1.99	105.1	72.18	21.26	5.3
25-Jun 19:00	0.60	99.4	77.03	20.16	0.9
25-Jun 19:15	2.26	83.9	79.40	19.36	0.0
25-Jun 19:30	3.08	91.8	80.78	18.67	0.0
25-Jun 19:45	3.07	88.4	80.94	18.15	0.0
25-Jun 20:00	4.21	76.1	83.45	17.45	0.0
25-Jun 20:15	3.82	70.7	87.95	17.01	0.0
25-Jun 20:30	3.18	95.3	88.78	16.32	0.0
25-Jun 20:45	3.13	102.9	89.58	15.86	0.0
25-Jun 21:00	4.13	84.0	91.71	15.53	0.0
25-Jun 21:15	3.46	93.4	91.72	15.33	0.0
25-Jun 21:30	4.91	72.2	93.65	15.03	0.0
25-Jun 21:45	5.27	78.1	94.26	14.82	0.0
25-Jun 22:00	4.31	84.4	94.74	14.44	0.0
25-Jun 22:15	4.98	81.3	95.17	14.27	0.0
26-Jun 2:15	5.08	78.3	95.54	14.10	0.0
26-Jun 2:30	4.01	86.3	94.92	14.00	0.0
26-Jun 2:45	3.92	84.0	95.57	13.75	0.0
26-Jun 3:00	4.81	88.1	95.93	13.70	0.0
26-Jun 3:15	4.97	70.4	96.68	13.43	0.0
26-Jun 3:30	4.10	64.9	96.32	13.44	0.0
26-Jun 3:45	4.37	53.9	96.03	13.46	0.0
26-Jun 4:00	2.68	58.9	95.96	13.36	0.0
26-Jun 4:15	4.11	79.4	96.47	13.04	0.0
26-Jun 4:30	5.31	70.1	96.59	12.87	0.0
26-Jun 4:45	4.83	67.0	96.46	12.83	0.0
26-Jun 5:00	5.65	76.4	97.24	12.71	0.0
26-Jun 5:15	4.34	69.9	96.65	12.76	0.0
26-Jun 5:30	4.29	53.7	96.52	12.64	0.0
26-Jun 5:45	3.84	57.2	96.67	12.69	0.3

26-Jun	6:00	3.51	68.6	96.31	12.69	3.2
26-Jun	6:15	4.32	70.0	95.71	12.31	19.5
26-Jun	6:30	3.61	78.5	95.36	12.43	72.6
26-Jun	6:45	6.23	74.2	93.51	12.61	123.3
26-Jun	7:00	4.07	71.3	92.47	13.06	143.8
26-Jun	7:15	4.15	86.6	91.55	13.13	195.0
26-Jun	7:30	2.66	72.5	88.52	13.99	283.6
26-Jun	7:45	3.55	87.1	88.07	14.58	359.6
26-Jun	8:00	2.75	53.1	84.82	15.58	344.5
26-Jun	8:15	1.70	98.5	79.90	17.05	447.1
26-Jun	8:30	1.98	70.7	78.33	18.08	483.6
26-Jun	8:45	0.00	0.0	71.64	20.00	603.5
26-Jun	9:00	0.54	109.9	70.65	20.71	661.5
26-Jun	9:15	0.34	123.8	65.96	22.39	717.8
26-Jun	9:30	1.13	255.3	66.68	22.65	771.8
26-Jun	9:45	2.30	195.4	60.91	23.87	769.3
26-Jun	10:00	0.00	0.0	51.77	25.17	940.2
26-Jun	10:15	1.52	41.7	42.48	26.58	496.6
26-Jun	10:30	3.91	291.7	53.97	24.84	337.0
26-Jun	10:45	0.88	354.2	50.47	24.75	254.9
26-Jun	11:00	0.00	0.0	46.93	25.31	838.0
26-Jun	11:15	1.28	59.8	48.01	25.56	697.7
26-Jun	11:30	4.65	51.4	39.57	25.93	1016.8
26-Jun	11:45	5.07	82.5	40.29	25.90	1091.8
26-Jun	12:00	2.96	86.4	37.67	26.41	1078.3
26-Jun	12:15	2.73	61.2	37.53	26.02	1064.4
26-Jun	12:30	3.06	13.2	39.89	26.85	1089.6
26-Jun	12:45	4.11	49.6	38.66	26.61	1084.3
26-Jun	13:00	4.43	52.7	37.41	26.80	729.3
26-Jun	13:15	5.28	95.8	36.80	26.65	1039.8
26-Jun	13:30	5.11	69.5	36.13	26.83	1001.0
26-Jun	13:45	4.72	102.3	36.68	26.43	954.3
26-Jun	14:00	7.85	320.0	33.10	27.37	906.9
26-Jun	14:15	3.35	345.7	31.87	27.31	862.4
26-Jun	14:30	2.82	56.4	31.78	27.80	840.2
26-Jun	14:45	4.94	313.7	31.07	28.38	804.6
26-Jun	15:00	2.71	271.7	34.50	27.40	747.8
26-Jun	15:15	4.67	353.5	35.06	27.80	706.7
26-Jun	15:30	6.56	300.7	34.95	28.29	666.2
26-Jun	15:45	5.75	313.2	37.15	28.06	622.0
26-Jun	16:00	4.37	300.3	36.67	28.28	592.1
26-Jun	16:15	3.08	275.0	37.84	28.35	486.1
26-Jun	16:30	4.23	240.9	40.06	27.90	424.5
26-Jun	16:45	4.70	299.5	41.66	27.42	365.6
26-Jun	17:00	3.09	310.2	44.09	26.90	213.4
26-Jun	17:15	3.67	316.4	42.18	27.54	270.6
26-Jun	17:30	5.90	310.6	43.09	27.39	225.0
26-Jun	17:45	4.11	284.7	46.13	27.03	182.3
26-Jun	18:00	0.69	288.0	47.05	26.87	133.6
26-Jun	18:15	2.76	263.3	47.44	26.88	84.2
26-Jun	18:30	0.08	271.1	50.12	26.60	47.9
26-Jun	18:45	2.08	246.0	53.78	25.69	27.9

26-Jun 19:00	2.85	264.9	58.97	24.80	23.2
26-Jun 19:15	0.00	0.0	62.39	24.30	13.5
26-Jun 19:30	0.00	0.0	67.16	23.53	4.0
26-Jun 19:45	0.24	115.5	70.70	22.61	0.8
26-Jun 20:00	0.00	0.0	73.33	21.97	0.0
26-Jun 20:15	0.00	0.0	75.20	21.51	0.0
26-Jun 20:30	2.52	85.7	76.95	20.86	0.0
26-Jun 20:45	2.05	58.5	80.85	20.11	0.0
26-Jun 21:00	3.50	46.7	83.34	19.62	0.0
26-Jun 21:15	2.25	76.5	85.95	19.16	0.0
26-Jun 21:30	3.06	66.6	87.57	18.59	0.0
26-Jun 21:45	3.86	75.8	87.83	17.93	0.0
26-Jun 22:00	3.65	62.2	90.75	17.71	0.0
26-Jun 22:15	3.42	61.7	91.69	17.32	0.0
27-Jun 1:30	4.02	70.7	92.50	17.04	0.0
27-Jun 1:45	3.89	56.8	93.52	16.70	0.0
27-Jun 2:00	5.01	69.3	93.99	16.36	0.0
27-Jun 2:15	4.86	81.2	94.09	16.12	0.0
27-Jun 2:30	4.83	75.2	94.52	15.87	0.0
27-Jun 2:45	5.05	78.1	94.96	15.80	0.0
27-Jun 3:00	4.51	76.3	94.84	15.49	0.0
27-Jun 3:15	4.07	70.5	95.98	15.36	0.0
27-Jun 3:30	5.67	78.8	95.59	14.99	0.0
27-Jun 3:45	4.38	81.6	95.57	14.84	0.0
27-Jun 4:00	5.18	72.3	96.06	14.70	0.0
27-Jun 4:15	5.84	68.6	96.19	14.51	0.0
27-Jun 4:30	5.48	73.1	96.00	14.45	0.0
27-Jun 4:45	6.04	75.1	96.44	14.21	0.0
27-Jun 5:00	4.74	82.2	96.62	13.96	0.0
27-Jun 5:15	3.92	67.7	96.83	13.90	0.0
27-Jun 5:30	4.70	73.2	96.93	13.71	0.0
27-Jun 5:45	5.30	69.9	96.19	13.73	0.1
27-Jun 6:00	4.16	66.7	96.36	13.70	1.4
27-Jun 6:15	3.99	62.4	96.19	13.60	6.6
27-Jun 6:30	4.12	60.1	95.88	13.48	31.9
27-Jun 6:45	3.47	60.9	94.71	13.64	80.8
27-Jun 7:00	4.09	56.7	93.44	13.87	132.0
27-Jun 7:15	3.85	60.4	90.91	14.41	185.7
27-Jun 7:30	4.28	53.2	89.98	14.89	243.6
27-Jun 7:45	3.58	44.5	87.27	15.70	305.8
27-Jun 8:00	2.03	50.8	84.15	16.83	374.0
27-Jun 8:15	1.24	44.4	77.98	18.71	447.6
27-Jun 8:30	0.00	0.0	73.64	20.17	521.7
27-Jun 8:45	0.00	0.0	71.03	21.26	577.3
27-Jun 9:00	1.57	163.2	71.67	21.67	628.0
27-Jun 9:15	3.24	228.2	69.88	22.44	678.1
27-Jun 9:30	2.97	176.3	68.92	23.00	725.5
27-Jun 9:45	1.34	132.0	66.06	23.98	765.3
27-Jun 10:00	3.51	210.8	62.30	24.78	810.9
27-Jun 10:15	0.00	0.0	57.77	25.74	854.5
27-Jun 10:30	4.75	353.4	47.67	26.69	879.5
27-Jun 10:45	6.01	357.8	47.95	26.39	916.0

27-Jun 11:00	4.30	321.1	47.84	27.30	907.4
27-Jun 11:15	5.57	351.1	45.51	27.55	945.4
27-Jun 11:30	7.53	348.9	43.72	27.54	733.4
27-Jun 11:45	6.44	296.1	46.10	27.91	1048.9
27-Jun 12:00	1.96	239.9	46.35	27.12	1077.8
27-Jun 12:15	8.56	329.6	49.26	27.36	346.5
27-Jun 12:30	4.15	353.0	49.97	27.61	413.5
27-Jun 12:45	6.69	350.8	52.64	27.14	392.6
27-Jun 13:00	3.20	49.3	52.83	27.06	709.4
27-Jun 13:15	0.83	87.6	53.31	27.44	314.9
27-Jun 13:30	3.90	26.3	55.94	27.19	155.1
27-Jun 13:45	4.79	58.7	57.60	26.31	688.8
27-Jun 14:00	6.37	44.1	54.55	26.84	658.5
27-Jun 14:15	3.64	55.2	52.60	27.50	795.8
27-Jun 14:30	5.54	38.3	51.86	27.67	383.4
27-Jun 14:45	4.32	340.5	52.54	27.46	487.1
27-Jun 15:00	3.65	353.4	54.17	27.46	219.5
27-Jun 15:15	2.21	322.1	54.17	27.73	428.1
27-Jun 15:30	0.00	0.0	51.72	28.26	226.9
27-Jun 15:45	4.35	287.2	50.60	28.77	516.8
27-Jun 16:00	5.91	281.1	53.05	27.92	209.5
27-Jun 16:15	2.37	265.5	54.25	27.71	214.4
27-Jun 16:30	2.12	243.3	58.04	27.51	224.8
27-Jun 16:45	2.87	268.2	52.09	28.61	394.9
27-Jun 17:00	3.07	255.0	54.26	28.03	314.2
27-Jun 17:15	4.87	256.0	57.49	27.51	291.1
27-Jun 17:30	4.15	281.7	55.56	27.92	241.7
27-Jun 17:45	1.22	252.3	56.61	27.73	178.0
27-Jun 18:00	5.72	241.0	61.79	26.86	133.8
27-Jun 18:15	5.48	239.3	62.07	26.79	98.7
27-Jun 18:30	5.16	244.5	66.27	26.51	61.0
27-Jun 18:45	2.57	250.1	68.66	26.25	43.1
27-Jun 19:00	2.25	246.6	69.26	26.04	29.9
27-Jun 19:15	0.05	181.0	72.27	25.60	14.9
27-Jun 19:30	1.36	80.3	77.80	24.46	4.8
27-Jun 19:45	3.59	57.5	83.46	23.19	0.8
27-Jun 20:00	0.59	89.5	83.74	22.74	0.0
27-Jun 20:15	2.57	42.8	85.77	22.24	0.0
27-Jun 20:30	2.69	40.7	86.14	22.03	0.0
27-Jun 20:45	1.20	43.9	86.79	21.75	0.0
27-Jun 21:00	1.71	54.7	87.41	21.50	0.0
27-Jun 21:15	1.59	68.8	87.78	21.08	0.0
27-Jun 21:30	2.01	77.6	90.03	20.62	0.0
27-Jun 21:45	1.49	95.3	90.93	20.09	0.0
27-Jun 22:00	1.02	68.3	91.46	19.91	0.0
27-Jun 22:15	1.74	74.3	92.00	19.50	0.0
27-Jun 22:30	2.53	90.5	92.40	19.05	0.0
28-Jun 1:30	1.17	58.0	93.48	18.92	0.0
28-Jun 1:45	1.29	111.5	91.37	18.56	0.0
28-Jun 2:00	2.15	106.1	92.87	18.03	0.0
28-Jun 2:15	0.00	0.0	93.03	18.09	0.0
28-Jun 2:30	1.75	87.3	94.63	17.84	0.0

28-Jun	2:45	2.67	86.7	94.73	17.40	0.0
28-Jun	3:00	1.38	79.9	96.16	17.25	0.0
28-Jun	3:15	2.49	71.6	94.90	17.04	0.0
28-Jun	3:30	2.89	88.4	94.56	16.63	0.0
28-Jun	3:45	1.51	81.5	95.10	16.65	0.0
28-Jun	4:00	2.99	85.6	96.03	16.47	0.0
28-Jun	4:15	3.89	74.4	96.18	16.31	0.0
28-Jun	4:30	3.40	57.9	96.48	16.21	0.0
28-Jun	4:45	1.94	76.2	96.79	15.99	0.0
28-Jun	5:00	2.37	80.5	96.71	15.88	0.0
28-Jun	5:15	1.97	70.8	96.73	15.71	0.0
28-Jun	5:30	3.28	82.4	96.11	15.37	0.0
28-Jun	5:45	3.60	87.3	96.35	15.16	1.3
28-Jun	6:00	2.63	90.2	96.80	15.08	7.0
28-Jun	6:15	3.11	82.0	97.07	15.08	22.3
28-Jun	6:30	3.87	80.1	96.13	15.10	52.5
28-Jun	6:45	3.19	78.9	94.07	15.46	99.3
28-Jun	7:00	2.28	86.7	92.14	16.06	159.1
28-Jun	7:15	2.51	70.5	89.53	16.93	229.0
28-Jun	7:30	1.81	47.7	86.67	17.50	296.8
28-Jun	7:45	1.88	58.1	82.45	18.86	368.4
28-Jun	8:00	0.00	0.0	78.12	20.14	433.5
28-Jun	8:15	0.00	0.0	73.06	21.94	500.1
28-Jun	8:30	0.95	156.9	79.31	21.69	557.1
28-Jun	8:45	3.34	190.7	79.05	22.05	601.9
28-Jun	9:00	2.73	216.2	73.47	23.40	651.8
28-Jun	9:15	0.86	50.2	67.70	24.74	704.0
28-Jun	9:30	2.56	13.5	58.15	25.74	756.6
28-Jun	9:45	8.05	12.3	55.07	25.92	812.9
28-Jun	10:00	1.43	222.6	54.11	26.79	853.4
28-Jun	10:15	2.88	356.3	54.35	26.38	876.0
28-Jun	10:30	4.09	349.2	55.57	26.41	912.2
28-Jun	10:45	5.84	8.5	55.84	26.27	945.8
28-Jun	11:00	12.18	340.9	53.49	26.53	1001.6
28-Jun	11:15	7.52	4.0	54.30	26.87	966.8
28-Jun	11:30	8.40	329.6	50.23	27.06	489.3
28-Jun	11:45	14.37	344.4	48.17	26.86	981.4
28-Jun	12:00	1.04	21.5	47.50	27.65	997.3
28-Jun	12:15	13.75	339.1	45.75	27.30	971.2
28-Jun	12:30	12.35	344.1	36.03	27.95	983.2
28-Jun	12:45	9.03	9.3	32.97	28.38	974.9
28-Jun	13:00	14.63	325.4	35.04	27.93	970.2
28-Jun	13:15	7.54	319.9	32.74	28.62	946.4
28-Jun	13:30	7.51	57.5	41.86	28.10	841.7
28-Jun	13:45	10.09	54.5	44.02	27.86	864.6
28-Jun	14:00	4.31	66.0	44.75	28.04	832.2
28-Jun	14:15	4.54	44.0	45.29	28.29	800.3
28-Jun	14:30	8.89	341.6	44.33	28.49	786.1
28-Jun	14:45	6.10	47.2	47.04	28.32	490.8
28-Jun	15:00	5.02	44.1	46.83	28.39	695.5
28-Jun	15:15	4.06	25.9	46.36	28.31	533.4
28-Jun	15:30	14.93	327.8	46.06	28.59	531.7

28-Jun 15:45	12.58	331.6	46.30	28.52	470.5
28-Jun 16:00	3.11	32.1	48.38	28.77	478.5
28-Jun 16:15	7.94	21.4	51.01	28.25	448.4
28-Jun 16:30	6.00	48.5	52.85	27.89	350.8
28-Jun 16:45	5.25	19.8	54.01	27.37	252.5
28-Jun 17:00	2.00	15.5	53.38	27.50	226.6
28-Jun 17:15	5.09	43.9	54.94	27.18	243.0
28-Jun 17:30	5.58	41.5	57.38	26.98	124.6
28-Jun 17:45	3.50	27.1	60.30	26.84	142.8
28-Jun 18:00	1.72	36.5	60.87	26.99	88.1
28-Jun 18:15	4.31	10.9	59.97	26.71	53.1
28-Jun 18:30	4.21	27.9	62.56	26.31	37.0
28-Jun 18:45	2.45	56.2	67.83	25.74	23.1
28-Jun 19:00	2.44	53.9	75.20	24.83	7.6
28-Jun 19:15	2.47	52.1	77.82	24.09	1.6
28-Jun 19:30	2.56	57.4	82.33	23.10	0.2
28-Jun 19:45	2.41	67.0	84.43	22.59	0.0
28-Jun 20:00	3.20	65.2	85.48	22.06	0.0
28-Jun 20:15	2.17	65.1	86.18	21.70	0.0
28-Jun 20:30	2.75	95.3	85.26	21.48	0.0
28-Jun 20:45	2.01	49.2	85.41	21.26	0.0
28-Jun 21:00	1.93	83.3	86.61	20.86	0.0
28-Jun 21:15	1.81	75.7	86.17	20.67	0.0
28-Jun 21:30	2.98	68.6	89.06	20.37	0.0
28-Jun 21:45	3.22	50.5	90.77	20.02	0.0
28-Jun 22:00	3.22	57.8	92.26	19.62	0.0
28-Jun 22:15	1.73	215.9	91.53	19.60	0.0
29-Jun 1:45	0.00	0.0	89.42	19.36	0.0
29-Jun 2:00	2.84	108.9	91.13	18.86	0.0
29-Jun 2:15	0.00	0.0	93.16	18.73	0.0
29-Jun 2:30	2.28	84.3	91.34	18.59	0.0
29-Jun 2:45	1.97	64.9	92.95	18.26	0.0
29-Jun 3:00	3.26	67.1	93.95	18.01	0.0
29-Jun 3:15	3.02	58.5	95.50	17.80	0.0
29-Jun 3:30	1.43	80.6	95.11	17.63	0.0
29-Jun 3:45	0.00	0.0	91.82	17.70	0.0
29-Jun 4:00	2.20	92.9	93.62	17.36	0.0
29-Jun 4:15	0.82	72.2	94.98	17.34	0.0
29-Jun 4:30	2.20	104.7	93.92	16.97	0.0
29-Jun 4:45	2.12	95.0	95.89	16.88	0.0
29-Jun 5:00	2.78	94.3	96.15	16.78	0.0
29-Jun 5:15	1.28	62.1	94.71	16.82	0.0
29-Jun 5:30	1.30	138.4	94.54	16.69	0.0
29-Jun 5:45	1.26	85.7	94.26	16.47	0.5
29-Jun 6:00	0.40	71.2	95.31	16.50	4.1
29-Jun 6:15	3.90	81.4	96.50	16.21	13.9
29-Jun 6:30	2.70	68.5	95.68	16.15	47.3
29-Jun 6:45	2.68	61.8	93.68	16.27	97.3
29-Jun 7:00	2.85	53.9	92.31	16.91	163.1
29-Jun 7:15	2.82	48.6	91.59	17.23	214.8
29-Jun 7:30	2.08	62.3	88.87	18.03	260.4
29-Jun 7:45	2.53	60.0	86.88	18.73	328.3

29-Jun 8:00	2.05	63.7	84.88	19.60	384.5
29-Jun 8:15	0.00	0.0	77.36	21.65	455.8
29-Jun 8:30	0.00	0.0	72.85	23.05	528.2
29-Jun 8:45	0.00	0.0	69.74	24.33	581.5
29-Jun 9:00	0.00	0.0	63.51	25.91	637.4
29-Jun 9:15	0.00	0.0	58.41	26.72	676.0
29-Jun 9:30	1.73	56.5	58.48	26.52	753.4
29-Jun 9:45	0.67	126.3	58.66	26.27	696.7
29-Jun 10:00	1.61	137.8	61.93	26.12	628.1
29-Jun 10:15	2.67	177.7	64.74	26.06	439.3
29-Jun 10:30	3.34	208.8	65.63	25.92	569.8
29-Jun 10:45	4.72	228.6	61.42	26.85	819.1
29-Jun 11:00	8.98	281.6	57.58	26.96	753.0
29-Jun 11:15	2.03	232.1	57.99	26.85	550.7
29-Jun 11:30	3.27	150.9	58.44	27.02	947.1
29-Jun 11:45	10.09	224.0	60.38	26.60	925.5
29-Jun 12:00	4.28	249.5	56.23	27.18	902.9
29-Jun 12:15	6.73	191.3	50.93	28.06	938.6
29-Jun 12:30	4.65	214.7	57.56	27.90	446.0
29-Jun 12:45	2.32	149.7	59.78	27.44	724.6
29-Jun 13:00	3.36	250.0	59.26	28.06	351.8
29-Jun 13:15	1.37	194.4	58.85	27.89	800.9
29-Jun 13:30	0.98	156.2	57.32	28.10	248.4
29-Jun 13:45	3.71	155.5	58.41	27.93	642.9
29-Jun 14:00	4.88	178.0	56.64	28.18	348.5
29-Jun 14:15	6.30	221.7	55.55	28.33	619.0
29-Jun 14:30	2.95	251.6	57.18	27.92	427.5
29-Jun 14:45	5.56	215.0	54.68	28.32	693.0
29-Jun 15:00	10.99	281.4	50.83	28.47	656.3
29-Jun 15:15	5.73	218.0	51.47	28.61	616.1
29-Jun 15:30	8.41	210.0	56.44	28.67	436.4
29-Jun 15:45	9.18	233.6	61.39	27.78	461.7
29-Jun 16:00	2.89	267.2	58.23	28.78	491.5
29-Jun 16:15	6.47	266.3	50.08	29.05	453.4
29-Jun 16:30	1.72	203.2	58.45	28.79	396.0
29-Jun 16:45	4.97	232.3	58.06	28.99	288.9
29-Jun 17:00	3.19	212.5	59.88	28.50	213.8
29-Jun 17:15	5.84	218.9	64.35	27.43	177.0
29-Jun 17:30	3.36	212.4	61.19	28.11	185.6
29-Jun 17:45	5.41	217.6	61.82	27.93	135.0
29-Jun 18:00	3.37	216.5	65.80	27.41	97.2
29-Jun 18:15	1.97	213.1	66.22	27.48	89.3
29-Jun 18:30	2.20	201.9	69.96	26.84	60.0
29-Jun 18:45	0.00	0.0	72.75	26.47	45.7
29-Jun 19:00	0.58	207.3	74.38	26.12	28.5
29-Jun 19:15	0.00	0.0	72.87	25.99	14.1
29-Jun 19:30	2.11	80.6	79.51	24.56	4.7
29-Jun 19:45	0.99	46.8	82.09	24.08	0.7
29-Jun 20:00	2.32	89.9	86.37	23.18	0.0
29-Jun 20:15	2.24	52.9	88.70	22.87	0.0
29-Jun 20:30	4.28	86.8	88.89	22.27	0.0
29-Jun 20:45	2.24	63.9	90.84	21.85	0.0

29-Jun 21:00	1.55	55.3	91.46	21.58	0.0
29-Jun 21:15	1.88	63.5	92.38	21.26	0.0
29-Jun 21:30	1.95	69.8	92.12	20.89	0.0
29-Jun 21:45	1.70	61.3	93.13	20.59	0.0
29-Jun 22:00	1.74	74.5	93.26	20.37	0.0
29-Jun 22:15	1.16	59.4	93.18	20.18	0.0
29-Jun 22:30	2.35	83.2	93.86	19.91	0.0
30-Jun 1:45	2.39	73.7	93.83	19.76	0.0
30-Jun 2:00	2.12	83.3	94.56	19.45	0.0
30-Jun 2:15	2.05	82.8	94.17	19.42	0.0
30-Jun 2:30	2.11	70.3	95.12	19.06	0.0
30-Jun 2:45	2.13	76.9	94.35	19.16	0.0
30-Jun 3:00	2.73	79.2	95.46	19.00	0.0
30-Jun 3:15	2.03	64.1	94.96	18.97	0.0
30-Jun 3:30	2.94	59.1	94.66	18.83	0.0
30-Jun 3:45	1.92	54.8	95.37	18.69	0.0
30-Jun 4:00	2.04	74.8	95.14	18.62	0.0
30-Jun 4:15	2.07	63.6	95.44	18.57	0.0
30-Jun 4:30	3.89	50.1	95.21	18.41	0.0
30-Jun 4:45	4.05	56.2	95.89	18.26	0.0
30-Jun 5:00	3.07	53.0	96.01	18.24	0.0
30-Jun 5:15	4.69	77.7	96.76	18.00	0.0
30-Jun 5:30	2.56	78.6	97.40	17.79	0.0
30-Jun 5:45	2.87	63.6	98.20	17.85	0.2
30-Jun 6:00	3.48	38.9	98.05	17.42	2.1
30-Jun 6:15	1.94	45.1	97.39	17.44	9.0
30-Jun 6:30	3.01	57.5	97.41	17.44	29.4
30-Jun 6:45	2.20	57.9	95.51	17.45	57.8
30-Jun 7:00	2.36	61.6	93.80	17.83	96.6
30-Jun 7:15	2.37	66.7	92.75	18.19	138.2
30-Jun 7:30	2.66	52.4	89.99	18.75	209.4
30-Jun 7:45	1.73	73.0	89.25	19.13	234.7
30-Jun 8:00	0.54	64.1	86.12	20.09	296.4
30-Jun 8:15	0.00	0.0	82.71	21.19	356.1
30-Jun 8:30	0.00	0.0	77.77	22.66	443.8
30-Jun 8:45	1.23	168.4	76.94	23.25	500.3
30-Jun 9:00	5.05	220.6	74.47	23.84	555.8
30-Jun 9:15	2.74	154.6	74.06	24.12	607.3
30-Jun 9:30	1.55	242.7	68.96	25.36	687.9
30-Jun 9:45	3.05	231.7	70.63	25.16	737.4
30-Jun 10:00	3.53	254.2	67.56	25.68	728.7
30-Jun 10:15	8.51	210.4	65.43	26.20	866.2
30-Jun 10:30	9.15	223.7	66.11	26.42	700.1
30-Jun 10:45	7.04	262.1	64.85	26.86	1106.0
30-Jun 11:00	9.55	255.7	62.64	26.91	596.8
30-Jun 11:15	7.65	235.3	64.52	26.56	519.7
30-Jun 11:30	10.90	286.5	61.46	27.14	498.5
30-Jun 11:45	9.27	241.9	60.24	27.53	996.2
30-Jun 12:00	8.94	243.0	59.54	27.57	925.5
30-Jun 12:15	10.52	256.3	59.34	27.57	726.1
30-Jun 12:30	12.59	263.2	60.01	27.18	402.0
30-Jun 12:45	9.80	253.1	61.27	27.14	548.9

30-Jun	13:00	12.43	243.5	60.80	27.13	735.6
30-Jun	13:15	12.15	222.8	60.19	27.75	687.1
30-Jun	13:30	9.29	275.7	57.21	27.91	873.9
30-Jun	13:45	9.58	259.7	53.91	28.21	849.0
30-Jun	14:00	13.00	248.7	56.88	28.22	497.8
30-Jun	14:15	14.97	253.6	55.07	28.17	829.0
30-Jun	14:30	11.14	232.9	52.67	28.44	781.5
30-Jun	14:45	13.20	268.9	52.22	28.20	781.4
30-Jun	15:00	6.59	257.8	51.59	28.26	705.0
30-Jun	15:15	12.46	251.7	46.26	28.16	662.7
30-Jun	15:30	6.14	270.7	44.12	28.38	614.0
30-Jun	15:45	12.22	245.7	45.36	28.02	552.6
30-Jun	16:00	11.89	246.7	47.78	27.97	560.3
30-Jun	16:15	7.60	247.9	47.90	27.52	469.4
30-Jun	16:30	11.65	253.9	50.82	26.98	245.9
30-Jun	16:45	9.84	238.3	52.94	26.77	356.6
30-Jun	17:00	7.51	245.2	56.13	26.57	226.0
30-Jun	17:15	8.97	248.1	56.12	26.83	257.3
30-Jun	17:30	8.36	240.3	58.36	26.41	186.0
30-Jun	17:45	6.93	247.5	59.74	26.24	149.5
30-Jun	18:00	9.35	259.0	60.61	26.08	58.9
30-Jun	18:15	5.55	245.8	63.98	25.43	21.3
30-Jun	18:30	6.89	242.3	66.36	24.93	13.3
30-Jun	18:45	1.08	251.5	67.47	24.89	10.1
30-Jun	19:00	3.81	232.5	68.88	24.56	4.2
30-Jun	19:15	2.29	256.0	70.71	24.28	0.8
30-Jun	19:30	6.96	312.3	69.23	24.04	0.0
30-Jun	19:45	11.01	235.6	80.52	22.44	0.0
30-Jun	20:00	2.76	182.3	91.30	21.09	0.0
30-Jun	20:15	3.69	231.1	91.55	20.69	0.0
30-Jun	20:30	5.06	230.6	92.79	20.58	0.0
30-Jun	20:45	2.22	334.7	92.53	20.36	0.0
30-Jun	21:00	2.66	199.9	95.62	20.11	0.0
30-Jun	21:15	3.27	220.8	93.31	19.96	0.0
30-Jun	21:30	2.73	201.3	94.64	20.00	0.0
30-Jun	21:45	3.16	283.1	91.10	20.12	0.0
30-Jun	22:00	2.23	238.0	92.46	19.79	0.0
30-Jun	22:15	1.69	239.1	94.16	19.81	0.0
1-Jul	1:45	2.07	230.7	93.20	19.81	0.0
1-Jul	2:00	4.31	243.2	95.41	19.35	0.0
1-Jul	2:15	4.57	218.7	95.06	19.28	0.0
1-Jul	2:30	2.53	220.1	94.70	19.33	0.0
1-Jul	2:45	3.94	241.1	94.38	19.31	0.0
1-Jul	3:00	1.95	241.3	94.26	19.38	0.0
1-Jul	3:15	2.27	243.4	93.57	19.42	0.0
1-Jul	3:30	2.66	238.5	94.17	19.23	0.0
1-Jul	3:45	2.14	218.2	95.42	19.20	0.0
1-Jul	4:00	3.77	229.6	94.56	19.22	0.0
1-Jul	4:15	2.62	224.5	95.42	19.12	0.0
1-Jul	4:30	3.65	240.7	94.53	19.21	0.0
1-Jul	4:45	4.09	226.3	94.15	19.31	0.0
1-Jul	5:00	2.89	231.5	94.60	19.24	0.0

1-Jul 5:15	2.53	237.4	95.81	19.00	0.0
1-Jul 5:30	4.62	226.4	95.94	18.95	0.0
1-Jul 5:45	6.29	232.3	96.13	18.89	0.2
1-Jul 6:00	3.19	231.3	95.64	18.97	1.5
1-Jul 6:15	0.88	265.9	94.99	19.12	4.4
1-Jul 6:30	1.55	261.0	93.12	19.34	15.4
1-Jul 6:45	0.00	0.0	95.11	19.11	99.8
1-Jul 7:00	0.93	242.0	90.38	20.02	156.2
1-Jul 7:15	2.21	222.9	88.60	20.33	187.2
1-Jul 7:30	2.66	216.3	89.35	20.40	217.0
1-Jul 7:45	2.18	209.1	86.27	20.86	289.8
1-Jul 8:00	5.10	207.1	86.46	21.01	292.5
1-Jul 8:15	4.92	229.6	84.89	21.31	379.0
1-Jul 8:30	5.81	228.5	84.01	21.98	231.1
1-Jul 8:45	1.13	135.3	83.63	22.24	421.9
1-Jul 9:00	3.97	249.8	85.85	22.16	186.9
1-Jul 9:15	5.58	226.3	86.90	21.75	131.3
1-Jul 9:30	1.80	214.4	86.52	21.98	209.1
1-Jul 9:45	8.09	241.9	85.59	22.15	257.7
1-Jul 10:00	8.17	255.5	82.58	22.73	246.7
1-Jul 10:15	5.77	227.1	80.24	23.26	279.2
1-Jul 10:30	7.22	221.8	76.74	24.13	771.1
1-Jul 10:45	9.71	218.3	75.59	24.15	303.6
1-Jul 11:00	10.36	231.5	76.34	24.04	193.9
1-Jul 11:15	10.62	232.0	75.53	23.96	202.0
1-Jul 11:30	12.41	221.6	67.45	25.08	988.4
1-Jul 11:45	9.76	239.2	68.17	25.49	701.2
1-Jul 12:00	8.79	251.8	72.75	24.42	114.0
1-Jul 12:15	8.02	227.1	96.02	18.35	111.4
1-Jul 12:30	6.01	210.9	94.94	18.38	323.1
1-Jul 12:45	1.35	141.9	88.49	20.22	892.4
1-Jul 13:00	4.05	208.9	81.78	22.10	850.3
1-Jul 13:15	4.87	253.6	80.38	23.26	848.0
1-Jul 13:30	6.48	223.2	75.18	25.01	593.9
1-Jul 13:45	11.36	244.4	70.73	25.39	484.9
1-Jul 14:00	5.58	267.2	72.88	25.19	284.9
1-Jul 14:15	9.67	7.3	77.14	19.73	8.0
1-Jul 14:30	3.03	323.2	89.66	17.98	7.2
1-Jul 14:45	5.70	326.9	96.04	17.14	11.2
1-Jul 15:00	0.00	0.0	97.69	17.60	6.6
1-Jul 15:15	3.64	234.2	97.11	17.48	23.8
1-Jul 15:30	4.23	239.5	97.28	17.48	12.9
1-Jul 15:45	5.78	227.9	97.72	17.51	13.6
1-Jul 16:00	3.36	213.6	97.31	17.56	19.4
1-Jul 16:15	4.22	244.6	96.85	17.40	35.3
1-Jul 16:30	5.19	228.6	97.40	17.43	92.1
1-Jul 16:45	4.72	221.4	97.63	17.58	53.8
1-Jul 17:00	2.72	185.1	97.57	18.05	68.1
1-Jul 17:15	6.20	211.7	97.44	18.07	42.4
1-Jul 17:30	6.51	225.9	97.38	18.08	24.5
1-Jul 17:45	5.46	236.3	97.38	18.29	17.2
1-Jul 18:00	5.36	230.5	97.52	18.26	11.5

1-Jul 18:15	7.81	242.2	97.44	18.32	20.3
1-Jul 18:30	5.14	205.0	97.45	18.39	15.0
1-Jul 18:45	4.60	263.3	97.43	18.25	2.3
1-Jul 19:00	3.54	245.0	97.54	18.27	2.1
1-Jul 19:15	8.44	237.2	97.71	18.22	0.4
1-Jul 19:30	4.95	278.4	97.32	18.25	0.0
1-Jul 19:45	8.93	339.8	88.32	17.28	0.0
1-Jul 20:00	9.01	35.4	82.73	15.49	0.0
1-Jul 20:15	1.73	49.7	85.87	14.68	0.0
1-Jul 20:30	0.81	285.1	88.32	14.11	0.0
1-Jul 20:45	5.31	25.2	84.10	13.60	0.0
1-Jul 21:00	3.60	25.8	78.39	13.28	0.0
1-Jul 21:15	6.07	320.5	71.16	13.12	0.0
1-Jul 21:30	4.48	226.5	75.81	12.43	0.0
1-Jul 21:45	2.02	266.1	80.74	11.95	0.0
1-Jul 22:00	3.19	347.4	73.75	11.91	0.0
1-Jul 22:15	8.17	13.3	70.25	11.85	0.0
2-Jul 1:45	8.05	35.5	67.29	11.62	0.0
2-Jul 2:00	4.40	13.4	66.95	11.23	0.0
2-Jul 2:15	5.60	325.1	65.20	11.22	0.0
2-Jul 2:30	5.08	316.1	64.50	11.16	0.0
2-Jul 2:45	7.18	329.4	62.49	11.04	0.0
2-Jul 3:00	10.59	327.6	62.29	10.67	0.0
2-Jul 3:15	2.57	311.0	65.71	10.32	0.0
2-Jul 3:30	3.00	321.9	68.02	10.25	0.0
2-Jul 3:45	5.82	6.9	66.70	10.42	0.0
2-Jul 4:00	3.38	351.2	67.36	10.09	0.0
2-Jul 4:15	5.77	349.5	67.22	9.87	0.0
2-Jul 4:30	9.80	345.5	64.14	9.77	0.0
2-Jul 4:45	8.97	333.9	62.91	9.63	0.0
2-Jul 5:00	16.11	332.6	62.07	9.56	0.0
2-Jul 5:15	4.60	306.0	64.32	9.29	0.0
2-Jul 5:30	13.05	334.2	63.91	9.26	0.0
2-Jul 5:45	11.05	324.9	64.96	9.17	1.1
2-Jul 6:00	9.85	327.4	65.54	9.00	5.4
2-Jul 6:15	3.43	43.0	66.75	8.96	15.6
2-Jul 6:30	14.20	337.8	65.23	9.18	85.4
2-Jul 6:45	17.40	342.4	64.64	9.42	192.5
2-Jul 7:00	5.43	352.3	65.19	9.63	216.9
2-Jul 7:15	7.17	334.9	63.35	9.39	227.8
2-Jul 7:30	8.58	329.4	63.70	9.36	73.3
2-Jul 7:45	10.03	330.4	63.92	9.51	338.1
2-Jul 8:00	19.02	339.4	61.78	9.80	454.9
2-Jul 8:15	8.29	357.5	64.91	9.53	285.3
2-Jul 8:30	8.92	3.7	61.23	10.45	696.1
2-Jul 8:45	16.98	346.7	59.78	10.01	472.3
2-Jul 9:00	16.13	26.8	59.24	10.39	701.8
2-Jul 9:15	8.88	50.4	60.02	11.04	759.5
2-Jul 9:30	10.81	356.6	59.31	10.75	552.2
2-Jul 9:45	4.76	29.2	58.83	11.02	866.7
2-Jul 10:00	10.00	10.8	53.69	12.08	872.0
2-Jul 10:15	12.90	2.6	53.84	12.13	902.8

2-Jul 10:30	8.63	44.5	54.45	12.95	894.9
2-Jul 10:45	13.08	330.4	55.78	12.19	1059.7
2-Jul 11:00	7.52	25.6	53.20	13.01	998.1
2-Jul 11:15	7.76	58.1	50.60	13.68	1005.5
2-Jul 11:30	9.84	349.7	47.71	14.38	1019.1
2-Jul 11:45	16.00	333.9	47.99	14.18	1027.9
2-Jul 12:00	16.06	334.0	45.80	14.74	1059.7
2-Jul 12:15	8.12	44.0	48.71	15.03	1044.8
2-Jul 12:30	4.32	44.0	48.74	15.24	1027.7
2-Jul 12:45	7.91	52.8	48.09	15.51	1067.8
2-Jul 13:00	6.79	359.0	49.47	15.69	1007.5
2-Jul 13:15	11.15	338.6	44.07	15.82	999.2
2-Jul 13:30	12.80	24.2	44.47	15.86	959.0
2-Jul 13:45	10.78	16.3	41.95	16.41	947.6
2-Jul 14:00	9.73	34.1	45.46	16.77	891.8
2-Jul 14:15	12.93	333.2	43.50	16.71	876.9
2-Jul 14:30	12.94	339.3	43.33	16.87	839.2
2-Jul 14:45	8.74	22.1	44.93	17.21	791.4
2-Jul 15:00	10.62	51.2	42.91	17.30	743.0
2-Jul 15:15	9.04	28.2	42.38	17.57	692.5
2-Jul 15:30	4.68	39.7	42.59	17.76	638.2
2-Jul 15:45	9.96	2.4	41.49	17.71	583.4
2-Jul 16:00	7.21	18.7	40.65	17.85	529.7
2-Jul 16:15	8.45	25.6	41.92	17.74	469.0
2-Jul 16:30	9.79	28.1	41.64	17.77	411.8
2-Jul 16:45	6.37	331.7	40.77	17.92	353.2
2-Jul 17:00	7.57	21.1	42.54	17.93	292.7
2-Jul 17:15	4.51	34.2	43.15	17.71	236.2
2-Jul 17:30	9.62	339.3	42.64	17.84	184.1
2-Jul 17:45	6.08	327.9	44.08	17.88	132.2
2-Jul 18:00	3.57	32.3	44.14	17.68	71.3
2-Jul 18:15	3.60	344.9	44.64	17.74	30.1
2-Jul 18:30	3.29	347.9	46.59	17.25	18.2
2-Jul 18:45	0.00	0.0	49.22	16.92	12.3
2-Jul 19:00	0.00	0.0	65.73	15.05	5.4
2-Jul 19:15	1.14	77.3	75.26	13.46	0.9
2-Jul 19:30	3.44	98.2	81.08	12.05	0.0
2-Jul 19:45	2.16	84.8	83.36	11.49	0.0
2-Jul 20:00	3.62	94.7	85.00	10.62	0.0
2-Jul 20:15	3.32	67.8	87.62	10.43	0.0
2-Jul 20:30	4.93	85.2	89.89	9.54	0.0
2-Jul 20:45	7.37	73.7	90.40	9.47	0.0
2-Jul 21:00	5.70	88.9	91.95	8.68	0.0
2-Jul 21:15	6.33	79.5	92.65	8.58	0.0
2-Jul 21:30	5.39	76.5	94.08	8.41	0.0
2-Jul 21:45	6.13	89.8	93.51	8.16	0.0
2-Jul 22:00	6.60	74.7	94.61	8.00	0.0
2-Jul 22:15	6.79	75.9	94.98	7.47	0.0
2-Jul 22:30	6.67	81.6	95.03	7.69	0.0
3-Jul 1:30	5.60	87.4	95.02	7.32	0.0
3-Jul 1:45	5.74	90.0	94.79	7.25	0.0
3-Jul 2:00	4.16	91.0	96.45	7.25	0.0

3-Jul	2:15	3.01	69.5	97.08	7.22	0.0
3-Jul	2:30	4.44	69.4	96.39	6.90	0.0
3-Jul	2:45	7.08	75.9	95.74	6.61	0.0
3-Jul	3:00	6.76	83.1	96.98	6.62	0.0
3-Jul	3:15	6.24	91.7	95.85	6.32	0.0
3-Jul	3:30	6.76	79.3	96.76	6.24	0.0
3-Jul	3:45	6.52	75.0	96.79	6.01	0.0
3-Jul	4:00	6.79	72.1	95.99	5.72	0.0
3-Jul	4:15	7.51	76.8	96.96	5.63	0.0
3-Jul	4:30	6.85	72.9	96.32	5.53	0.0
3-Jul	4:45	6.56	83.3	97.37	5.81	0.0
3-Jul	5:00	6.42	84.5	96.92	5.38	0.0
3-Jul	5:15	5.71	92.4	96.50	4.99	0.0
3-Jul	5:30	7.34	78.1	97.08	5.07	0.0
3-Jul	5:45	4.79	78.1	96.91	4.88	1.0
3-Jul	6:00	5.33	70.0	96.95	4.61	4.8
3-Jul	6:15	5.74	70.9	96.83	4.46	15.9
3-Jul	6:30	6.23	78.7	95.12	4.74	128.0
3-Jul	6:45	7.34	77.9	93.76	4.87	166.2
3-Jul	7:00	4.70	74.3	91.00	5.54	216.1
3-Jul	7:15	4.91	71.4	92.51	5.99	268.3
3-Jul	7:30	4.50	64.3	89.22	6.82	322.9
3-Jul	7:45	4.91	80.7	86.43	7.65	386.4
3-Jul	8:00	2.30	58.1	86.04	8.43	440.6
3-Jul	8:15	2.92	69.0	83.85	9.53	501.7
3-Jul	8:30	2.88	81.0	79.67	10.89	545.7
3-Jul	8:45	0.00	0.0	72.05	13.00	614.9
3-Jul	9:00	0.42	244.3	66.80	14.89	666.3
3-Jul	9:15	2.00	212.2	59.34	16.14	712.7
3-Jul	9:30	7.91	213.1	54.80	16.52	755.4
3-Jul	9:45	7.58	220.0	53.13	16.96	730.7
3-Jul	10:00	2.51	169.3	53.65	17.42	837.3
3-Jul	10:15	9.86	224.5	51.62	17.96	878.9
3-Jul	10:30	8.63	233.5	51.18	17.99	910.1
3-Jul	10:45	5.01	236.9	47.67	18.95	931.5
3-Jul	11:00	8.39	218.1	46.01	18.80	965.5
3-Jul	11:15	7.49	215.7	46.11	18.99	986.3
3-Jul	11:30	9.60	219.6	47.35	19.51	990.7
3-Jul	11:45	9.70	227.5	49.04	19.33	988.8
3-Jul	12:00	7.83	137.3	44.12	20.01	1147.9
3-Jul	12:15	11.08	214.5	45.79	19.84	1078.3
3-Jul	12:30	8.82	214.2	47.06	19.93	1023.8
3-Jul	12:45	8.75	219.8	46.44	20.48	960.0
3-Jul	13:00	5.52	204.8	47.68	20.85	958.8
3-Jul	13:15	5.81	165.4	48.21	20.58	687.2
3-Jul	13:30	18.87	210.8	48.22	20.81	801.1
3-Jul	13:45	4.92	246.8	50.62	20.97	311.0
3-Jul	14:00	13.18	233.8	51.16	20.64	305.2
3-Jul	14:15	10.86	200.1	52.39	20.58	207.4
3-Jul	14:30	5.49	186.7	56.02	20.33	158.7
3-Jul	14:45	3.19	207.3	57.44	19.99	153.7
3-Jul	15:00	1.04	258.4	59.38	20.17	276.1

3-Jul 15:15	3.18	203.2	56.41	20.88	518.2
3-Jul 15:30	7.43	234.9	54.75	21.37	414.7
3-Jul 15:45	3.86	210.2	55.63	20.97	363.3
3-Jul 16:00	4.73	177.1	56.34	20.89	229.0
3-Jul 16:15	2.59	202.3	56.55	20.91	204.0
3-Jul 16:30	8.39	216.7	57.19	20.57	235.2
3-Jul 16:45	9.44	222.6	57.50	20.37	156.8
3-Jul 17:00	8.61	229.2	59.17	20.24	140.7
3-Jul 17:15	5.12	235.6	59.20	20.40	120.8
3-Jul 17:30	6.49	229.3	59.52	20.28	98.2
3-Jul 17:45	2.87	172.8	60.80	20.05	54.2
3-Jul 18:00	5.53	220.0	62.92	19.78	39.8
3-Jul 18:15	1.46	159.3	65.14	19.60	32.8
3-Jul 18:30	3.32	179.2	68.70	19.01	42.1
3-Jul 18:45	3.05	196.3	70.71	18.83	13.4
3-Jul 19:00	0.43	239.9	73.25	18.53	2.5
3-Jul 19:15	4.08	227.6	77.74	17.80	0.3
3-Jul 19:30	0.00	0.0	78.46	17.82	0.0
3-Jul 19:45	1.01	255.2	82.77	17.08	0.0
3-Jul 20:00	0.00	0.0	83.08	17.07	0.0
3-Jul 20:15	3.45	105.8	87.83	16.69	0.0
3-Jul 20:30	2.57	96.2	87.55	16.30	0.0
3-Jul 20:45	0.00	0.0	89.38	16.14	0.0
3-Jul 21:00	1.12	167.9	88.41	16.27	0.0
3-Jul 21:15	0.00	0.0	86.56	16.71	0.0
3-Jul 21:30	1.91	118.2	90.81	16.00	0.0
3-Jul 21:45	3.43	81.2	90.05	16.00	0.0
3-Jul 22:00	0.97	98.6	92.16	15.76	0.0
3-Jul 22:15	1.42	63.8	92.87	15.72	0.0
4-Jul 1:45	1.30	34.1	93.18	15.59	0.0
4-Jul 2:00	1.90	97.5	94.24	15.55	0.0
4-Jul 2:15	1.62	39.5	95.23	15.55	0.0
4-Jul 2:30	2.17	93.4	95.86	15.52	0.0
4-Jul 2:45	0.00	0.0	96.02	15.59	0.0
4-Jul 3:00	0.00	0.0	95.91	15.69	0.0
4-Jul 3:15	1.48	254.2	94.12	15.79	0.0
4-Jul 3:30	2.67	245.7	92.96	16.02	0.0
4-Jul 3:45	4.77	235.0	94.84	15.88	0.0
4-Jul 4:00	2.82	302.1	95.30	16.05	0.0
4-Jul 4:15	1.32	184.6	95.43	16.24	0.0
4-Jul 4:30	0.00	0.0	95.86	16.09	0.0
4-Jul 4:45	1.34	186.2	95.60	16.04	0.0
4-Jul 5:00	0.94	45.7	96.78	15.92	0.0
4-Jul 5:15	2.19	87.6	97.02	15.88	0.0
4-Jul 5:30	3.28	90.3	97.26	15.81	0.0
4-Jul 5:45	0.84	331.0	97.84	15.83	1.4
4-Jul 6:00	4.10	56.4	97.31	15.89	6.8
4-Jul 6:15	0.00	0.0	97.59	15.74	15.0
4-Jul 6:30	1.26	213.5	98.16	15.65	22.9
4-Jul 6:45	0.56	220.5	98.28	15.51	69.7
4-Jul 7:00	2.64	232.6	98.42	15.71	51.3
4-Jul 7:15	0.00	0.0	98.38	16.07	64.9

4-Jul 7:30	4.90	252.4	97.12	16.45	100.4
4-Jul 7:45	2.71	247.5	95.51	16.78	109.7
4-Jul 8:00	1.54	210.6	95.30	16.91	128.0
4-Jul 8:15	1.78	154.7	93.25	17.39	290.0
4-Jul 8:30	4.17	213.6	93.40	17.57	143.9
4-Jul 8:45	6.00	244.5	93.53	17.59	97.1
4-Jul 9:00	5.22	239.7	94.29	17.44	84.6
4-Jul 9:15	3.88	240.9	90.85	17.97	278.3
4-Jul 9:30	8.39	216.0	89.15	18.14	308.6
4-Jul 9:45	1.13	143.6	83.00	19.43	630.5
4-Jul 10:00	6.20	231.0	82.38	19.75	454.3
4-Jul 10:15	5.04	166.2	84.97	19.34	266.8
4-Jul 10:30	6.02	211.9	84.08	19.83	591.7
4-Jul 10:45	7.96	172.9	79.18	20.65	508.5
4-Jul 11:00	2.49	198.4	78.72	21.07	434.4
4-Jul 11:15	6.70	201.6	78.00	21.12	621.6
4-Jul 11:30	3.88	153.9	76.94	21.51	479.1
4-Jul 11:45	7.20	214.1	76.28	21.52	430.5
4-Jul 12:00	7.54	233.7	72.40	22.51	590.0
4-Jul 12:15	2.52	188.4	69.32	22.63	407.6
4-Jul 12:30	10.09	173.3	71.66	22.47	557.2
4-Jul 12:45	10.88	195.8	71.78	22.38	507.0
4-Jul 13:00	3.37	229.4	69.59	23.15	388.4
4-Jul 13:15	6.29	233.4	71.41	22.83	490.5
4-Jul 13:30	6.44	209.7	71.12	23.13	319.6
4-Jul 13:45	2.55	184.4	69.76	23.33	246.7
4-Jul 14:00	9.36	230.4	68.98	23.47	382.0
4-Jul 14:15	6.13	222.8	71.40	23.16	147.5
4-Jul 14:30	6.72	226.6	71.28	23.46	395.8
4-Jul 14:45	5.15	231.3	67.80	24.04	374.6
4-Jul 15:00	10.83	232.4	66.31	24.18	687.4
4-Jul 15:15	7.74	223.1	67.50	24.24	185.1
4-Jul 15:30	5.36	231.0	69.76	23.98	216.9
4-Jul 15:45	8.20	228.1	69.35	23.94	163.2
4-Jul 16:00	3.82	197.2	71.42	23.59	125.2
4-Jul 16:15	2.74	217.1	72.55	23.43	72.5
4-Jul 16:30	2.93	227.1	74.11	23.26	19.2
4-Jul 16:45	1.65	170.9	76.11	22.99	21.4
4-Jul 17:00	13.37	303.9	86.79	19.89	3.1
4-Jul 17:15	0.00	0.0	96.21	18.27	4.1
4-Jul 17:30	1.96	209.7	97.33	18.08	4.2
4-Jul 17:45	1.44	221.1	97.76	17.83	6.0
4-Jul 18:00	0.89	208.6	98.28	18.05	3.8
4-Jul 18:15	0.00	0.0	98.17	17.68	3.8
4-Jul 18:30	0.00	0.0	98.32	17.88	0.8
4-Jul 18:45	1.03	103.3	98.14	17.79	0.1
4-Jul 19:00	0.00	0.0	98.08	17.74	0.0
4-Jul 19:15	0.00	0.0	98.42	17.81	0.0
4-Jul 19:30	1.87	108.2	98.74	17.81	0.0
4-Jul 19:45	1.30	85.6	98.67	17.70	0.0
4-Jul 20:00	1.65	312.1	98.56	17.85	0.0
4-Jul 20:15	4.40	73.8	98.42	17.61	0.0

4-Jul 20:30	3.62	85.3	98.24	17.61	0.0
4-Jul 20:45	0.00	0.0	98.38	17.72	0.0
4-Jul 21:00	0.10	244.2	98.55	17.76	0.0
4-Jul 21:15	0.00	0.0	98.55	17.59	0.0
4-Jul 21:30	0.00	0.0	98.84	17.52	0.0
4-Jul 21:45	3.85	234.7	98.98	17.15	0.0
4-Jul 22:00	2.31	257.1	99.04	17.24	0.0
5-Jul 1:45	2.37	236.2	99.12	17.06	0.0
5-Jul 2:00	2.21	260.6	99.19	17.03	0.0
5-Jul 2:15	0.00	0.0	99.24	17.17	0.0
5-Jul 2:30	2.94	242.0	99.27	17.23	0.0
5-Jul 2:45	5.48	240.4	99.29	17.13	0.0
5-Jul 3:00	6.26	238.5	99.31	17.14	0.0
5-Jul 3:15	5.78	243.9	99.31	17.16	0.0
5-Jul 3:30	5.66	250.7	99.30	17.25	0.0
5-Jul 3:45	4.34	211.9	99.30	17.25	0.0
5-Jul 4:00	4.35	202.4	99.30	17.31	0.0
5-Jul 4:15	2.73	227.9	99.30	17.23	0.0
5-Jul 4:30	5.11	217.8	99.30	17.18	0.0
5-Jul 4:45	4.87	235.7	99.30	17.13	0.0
5-Jul 5:00	3.94	220.4	99.30	17.09	0.0
5-Jul 5:15	0.12	161.1	99.29	17.13	0.0
5-Jul 5:30	2.40	236.0	99.28	17.06	0.0
5-Jul 5:45	2.12	235.0	99.25	17.12	0.3
5-Jul 6:00	1.67	250.6	99.22	17.13	2.0
5-Jul 6:15	1.60	211.1	99.22	17.03	9.9
5-Jul 6:30	3.53	228.0	99.22	17.10	10.2
5-Jul 6:45	2.01	248.9	99.18	17.10	16.7
5-Jul 7:00	2.85	232.1	99.15	17.16	32.6
5-Jul 7:15	1.63	234.3	99.05	17.30	78.1
5-Jul 7:30	4.01	236.5	98.74	17.48	148.1
5-Jul 7:45	0.20	128.3	98.54	17.68	64.6
5-Jul 8:00	1.78	210.5	98.29	17.78	84.6
5-Jul 8:15	3.79	257.4	97.41	17.97	110.6
5-Jul 8:30	5.09	238.7	95.52	18.24	153.9
5-Jul 8:45	6.45	255.8	93.86	18.63	200.9
5-Jul 9:00	7.76	271.8	91.76	18.77	204.8
5-Jul 9:15	5.49	263.1	90.59	19.23	356.2
5-Jul 9:30	8.42	298.4	86.41	20.08	868.9
5-Jul 9:45	7.74	263.7	84.37	20.39	595.1
5-Jul 10:00	8.83	273.1	81.55	20.80	981.8
5-Jul 10:15	6.60	259.9	77.87	21.52	549.0
5-Jul 10:30	9.68	237.2	72.36	21.81	824.2
5-Jul 10:45	9.09	282.9	68.86	21.80	815.9
5-Jul 11:00	12.18	262.9	63.78	22.48	1068.5
5-Jul 11:15	9.92	267.5	61.33	22.43	822.4
5-Jul 11:30	11.25	242.8	62.01	22.56	1014.0
5-Jul 11:45	9.93	266.2	63.18	22.48	419.3
5-Jul 12:00	13.23	268.1	57.78	23.02	995.7
5-Jul 12:15	10.30	248.6	58.58	23.32	368.7
5-Jul 12:30	13.45	225.7	53.01	23.82	859.2
5-Jul 12:45	8.06	224.0	56.50	23.73	636.7

5-Jul 13:00	16.03	238.1	47.22	23.87	1074.9
5-Jul 13:15	12.57	271.3	47.69	23.91	949.6
5-Jul 13:30	12.29	239.3	46.06	24.64	1027.6
5-Jul 13:45	1.56	86.5	54.38	24.54	236.4
5-Jul 14:00	2.30	58.1	58.07	23.81	889.7
5-Jul 14:15	5.97	254.3	52.32	24.13	805.4
5-Jul 14:30	10.44	269.3	50.36	24.29	329.4
5-Jul 14:45	8.88	200.3	47.76	24.76	759.7
5-Jul 15:00	10.72	258.2	47.60	23.89	767.9
5-Jul 15:15	9.86	269.3	44.01	24.19	194.8
5-Jul 15:30	12.70	52.9	61.02	19.69	438.4
5-Jul 15:45	6.31	56.7	63.62	19.03	176.5
5-Jul 16:00	9.15	81.0	66.82	18.46	78.6
5-Jul 16:15	4.27	59.1	68.83	18.46	67.3
5-Jul 16:30	2.13	56.2	68.30	18.49	32.7
5-Jul 16:45	2.62	262.0	78.19	17.55	25.3
5-Jul 17:00	1.87	13.6	73.08	18.11	15.4
5-Jul 17:15	1.53	210.9	82.26	17.03	18.8
5-Jul 17:30	2.59	314.7	81.90	17.41	18.3
5-Jul 17:45	1.35	90.3	85.86	17.26	25.2
5-Jul 18:00	1.56	237.5	86.47	16.88	22.4
5-Jul 18:15	3.41	237.0	86.61	16.87	9.7
5-Jul 18:30	1.13	237.8	90.11	16.53	2.2
5-Jul 18:45	4.03	283.4	91.64	16.27	0.7
5-Jul 19:00	2.62	53.3	92.34	16.30	0.0
5-Jul 19:15	1.59	237.9	89.95	16.56	0.0
5-Jul 19:30	0.21	108.1	91.17	16.47	0.0
5-Jul 19:45	0.10	106.6	92.28	16.17	0.0
5-Jul 20:00	1.07	166.4	93.07	15.72	0.0
5-Jul 20:15	1.36	86.8	93.70	15.10	0.0
5-Jul 20:30	0.00	0.0	93.11	14.93	0.0
5-Jul 20:45	1.08	98.7	92.40	14.74	0.0
5-Jul 21:00	0.00	0.0	94.84	14.41	0.0
5-Jul 21:15	0.00	0.0	94.22	14.22	0.0
5-Jul 21:30	0.19	248.7	95.78	13.92	0.0
5-Jul 21:45	3.13	240.9	96.12	13.79	0.0
6-Jul 1:45	2.78	242.7	92.51	13.85	0.0
6-Jul 2:00	6.05	337.8	88.00	14.22	0.0
6-Jul 2:15	9.83	15.1	81.94	14.24	0.0
6-Jul 2:30	4.62	79.8	81.75	13.95	0.0
6-Jul 2:45	2.86	39.9	80.22	13.24	0.0
6-Jul 3:00	1.14	72.3	79.68	12.88	0.0
6-Jul 3:15	1.95	132.3	79.78	12.46	0.0
6-Jul 3:30	1.32	313.2	79.52	12.01	0.0
6-Jul 3:45	0.00	0.0	77.71	11.55	0.0
6-Jul 4:00	2.74	312.9	81.61	10.91	0.0
6-Jul 4:15	2.48	236.2	88.93	10.59	0.0
6-Jul 4:30	2.71	253.2	92.95	9.69	0.0
6-Jul 4:45	2.06	268.0	91.23	9.54	0.0
6-Jul 5:00	0.00	0.0	92.66	9.38	0.0
6-Jul 5:15	1.44	89.1	94.05	9.01	0.0
6-Jul 5:30	0.00	0.0	93.67	8.91	0.0

6-Jul	5:45	0.99	28.2	92.59	8.64	0.4
6-Jul	6:00	2.40	242.5	94.20	8.41	3.6
6-Jul	6:15	2.65	277.0	91.82	8.67	17.3
6-Jul	6:30	5.17	250.6	89.17	9.11	94.9
6-Jul	6:45	5.00	303.8	80.35	10.73	148.9
6-Jul	7:00	4.89	259.7	81.69	10.76	192.5
6-Jul	7:15	6.38	277.0	79.14	11.65	251.9
6-Jul	7:30	6.25	300.7	72.64	12.77	314.9
6-Jul	7:45	6.44	280.9	72.48	13.02	376.2
6-Jul	8:00	5.89	332.9	66.40	13.60	436.2
6-Jul	8:15	9.15	334.1	64.89	13.67	497.9
6-Jul	8:30	7.93	326.7	62.81	13.89	554.2
6-Jul	8:45	7.93	352.0	61.80	13.94	627.7
6-Jul	9:00	16.13	332.4	61.59	14.09	746.8
6-Jul	9:15	10.50	319.0	60.88	13.81	825.6
6-Jul	9:30	8.84	336.5	60.14	14.29	549.1
6-Jul	9:45	11.76	294.9	61.97	13.54	242.7
6-Jul	10:00	12.89	327.8	56.95	14.97	932.9
6-Jul	10:15	11.93	311.2	57.13	14.47	257.4
6-Jul	10:30	6.57	329.9	55.85	15.51	847.1
6-Jul	10:45	15.09	346.6	51.23	15.81	909.4
6-Jul	11:00	7.21	329.2	55.84	15.46	1091.7
6-Jul	11:15	6.47	283.0	54.16	15.87	523.5
6-Jul	11:30	9.51	322.1	54.17	15.92	415.2
6-Jul	11:45	6.68	3.1	53.82	16.10	436.9
6-Jul	12:00	8.34	321.7	53.42	16.71	353.3
6-Jul	12:15	4.29	357.5	54.31	16.48	323.8
6-Jul	12:30	12.61	343.8	52.30	16.65	439.9
6-Jul	12:45	6.87	33.7	53.00	17.02	586.2
6-Jul	13:00	9.83	324.4	53.81	16.88	776.6
6-Jul	13:15	5.70	353.8	50.88	17.38	1161.3
6-Jul	13:30	1.21	77.2	49.75	18.76	1104.4
6-Jul	13:45	8.44	10.2	49.73	18.19	774.4
6-Jul	14:00	12.25	357.0	49.70	18.04	823.1
6-Jul	14:15	10.85	2.3	48.16	18.16	649.8
6-Jul	14:30	4.04	38.4	51.72	18.12	773.6
6-Jul	14:45	8.06	7.1	51.32	18.13	325.1
6-Jul	15:00	5.47	279.1	50.02	18.32	457.9
6-Jul	15:15	10.50	338.0	49.49	18.20	288.6
6-Jul	15:30	10.30	343.4	50.47	18.30	445.7
6-Jul	15:45	3.89	306.0	49.80	18.52	255.9
6-Jul	16:00	6.84	311.6	51.22	18.55	398.2
6-Jul	16:15	7.80	321.9	50.28	19.06	459.8
6-Jul	16:30	12.29	312.3	47.80	19.18	384.3
6-Jul	16:45	10.14	335.2	48.35	19.08	320.3
6-Jul	17:00	2.29	32.2	49.97	19.15	244.6
6-Jul	17:15	3.82	55.8	51.80	19.00	189.6
6-Jul	17:30	5.16	25.2	52.74	18.51	146.5
6-Jul	17:45	4.04	12.7	53.98	18.54	81.2
6-Jul	18:00	3.87	22.0	54.36	18.38	43.9
6-Jul	18:15	3.33	354.4	56.40	17.97	26.0
6-Jul	18:30	3.60	40.2	64.01	17.08	13.6

6-Jul 18:45	2.11	64.6	71.09	16.07	7.2
6-Jul 19:00	1.41	76.9	78.85	14.86	1.9
6-Jul 19:15	2.30	90.4	82.56	13.95	0.1
6-Jul 19:30	3.36	81.2	85.17	13.15	0.0
6-Jul 19:45	5.38	102.9	86.94	12.37	0.0
6-Jul 20:00	3.70	85.8	88.39	12.01	0.0
6-Jul 20:15	4.87	74.0	92.41	11.63	0.0
6-Jul 20:30	4.83	102.8	92.10	11.06	0.0
6-Jul 20:45	4.29	93.2	92.79	10.72	0.0
6-Jul 21:00	4.72	84.8	92.86	10.60	0.0
6-Jul 21:15	5.25	71.8	94.66	10.12	0.0
6-Jul 21:30	4.51	80.7	94.61	9.85	0.0
6-Jul 21:45	5.06	82.3	95.21	9.38	0.0
6-Jul 22:00	6.05	81.3	95.06	9.33	0.0
6-Jul 22:15	5.43	75.0	95.80	9.08	0.0
6-Jul 22:30	6.09	90.5	95.70	8.89	0.0
7-Jul 1:45	3.71	80.4	96.35	8.70	0.0
7-Jul 2:00	5.11	81.1	96.02	8.60	0.0
7-Jul 2:15	4.06	65.5	97.09	8.47	0.0
7-Jul 2:30	4.09	59.9	96.29	8.47	0.0
7-Jul 2:45	7.03	71.2	96.33	8.36	0.0
7-Jul 3:00	4.48	69.6	96.91	8.34	0.0
7-Jul 3:15	5.88	67.6	97.12	8.27	0.0
7-Jul 3:30	6.70	79.0	97.13	8.03	0.0
7-Jul 3:45	5.53	71.8	96.97	7.92	0.0
7-Jul 4:00	7.79	79.2	97.07	7.68	0.0
7-Jul 4:15	7.80	74.6	96.42	7.63	0.0
7-Jul 4:30	6.77	75.8	96.42	7.59	0.0
7-Jul 4:45	7.64	78.8	96.75	7.27	0.0
7-Jul 5:00	7.00	75.8	96.78	7.16	0.0
7-Jul 5:15	6.99	74.6	97.07	7.04	0.0
7-Jul 5:30	7.41	75.9	97.09	6.87	0.0
7-Jul 5:45	5.74	66.9	97.22	6.74	0.6
7-Jul 6:00	5.38	67.7	97.55	6.64	2.7
7-Jul 6:15	5.64	81.1	97.46	6.44	9.7
7-Jul 6:30	6.33	74.9	96.02	6.34	71.1
7-Jul 6:45	4.81	76.1	94.74	6.62	170.1
7-Jul 7:00	4.96	71.4	93.54	7.22	212.1
7-Jul 7:15	4.87	61.0	91.52	7.51	270.6
7-Jul 7:30	2.45	68.2	90.41	8.30	271.5
7-Jul 7:45	2.01	77.6	85.74	9.39	381.4
7-Jul 8:00	2.53	60.6	84.04	10.35	465.8
7-Jul 8:15	2.08	64.9	80.17	11.58	551.7
7-Jul 8:30	2.48	58.4	78.04	12.76	562.5
7-Jul 8:45	1.61	112.2	77.55	13.87	609.9
7-Jul 9:00	2.02	187.9	68.26	15.59	598.6
7-Jul 9:15	1.64	140.7	63.85	16.70	729.7
7-Jul 9:30	1.62	203.9	64.92	17.21	762.1
7-Jul 9:45	2.33	221.6	59.12	18.34	647.7
7-Jul 10:00	2.41	201.6	58.82	18.44	689.1
7-Jul 10:15	2.26	209.9	57.46	19.17	892.7
7-Jul 10:30	0.79	252.5	52.09	20.25	922.3

7-Jul 10:45	4.04	170.8	48.14	21.01	939.2
7-Jul 11:00	6.05	264.3	41.97	21.33	961.5
7-Jul 11:15	8.20	277.4	40.60	21.36	850.9
7-Jul 11:30	9.08	228.5	35.54	21.82	1012.9
7-Jul 11:45	7.71	236.4	36.65	22.19	988.7
7-Jul 12:00	4.90	206.4	35.95	22.56	1012.2
7-Jul 12:15	5.10	210.7	38.59	22.75	1046.5
7-Jul 12:30	8.54	279.6	40.03	22.54	1032.8
7-Jul 12:45	3.64	290.0	38.65	22.81	1168.6
7-Jul 13:00	9.59	214.8	43.03	22.56	198.9
7-Jul 13:15	5.84	193.6	41.41	23.54	1019.3
7-Jul 13:30	11.41	223.5	41.13	23.39	909.8
7-Jul 13:45	8.04	230.1	40.23	22.82	257.6
7-Jul 14:00	10.26	207.2	36.47	23.15	790.1
7-Jul 14:15	8.82	229.7	36.10	23.08	805.5
7-Jul 14:30	13.60	220.8	36.14	23.45	767.4
7-Jul 14:45	5.23	162.5	39.07	23.53	738.7
7-Jul 15:00	11.29	210.4	38.72	23.84	692.2
7-Jul 15:15	6.25	226.8	37.09	23.75	623.5
7-Jul 15:30	13.45	222.0	37.62	23.37	583.1
7-Jul 15:45	11.91	226.3	37.81	23.64	264.6
7-Jul 16:00	12.17	220.9	39.33	23.33	535.1
7-Jul 16:15	5.83	215.1	39.71	24.02	497.6
7-Jul 16:30	5.22	254.0	42.32	23.53	136.5
7-Jul 16:45	9.44	245.6	43.39	23.04	145.0
7-Jul 17:00	6.47	217.7	44.83	22.65	155.0
7-Jul 17:15	3.93	229.0	46.73	23.02	114.2
7-Jul 17:30	6.74	229.3	49.77	22.39	142.6
7-Jul 17:45	4.55	200.4	52.40	22.24	86.3
7-Jul 18:00	6.55	201.1	54.51	21.98	70.2
7-Jul 18:15	6.26	228.8	56.10	21.81	43.2
7-Jul 18:30	4.94	224.3	57.16	21.63	31.7
7-Jul 18:45	3.24	229.9	59.82	21.09	2.0
7-Jul 19:00	3.69	228.7	60.02	20.96	0.3
7-Jul 19:15	3.09	207.2	60.68	20.80	0.0
7-Jul 19:30	4.05	226.3	60.90	20.75	0.0
7-Jul 19:45	2.43	152.7	60.86	20.74	0.0
7-Jul 20:00	8.61	229.5	60.77	20.67	0.0
7-Jul 20:15	4.83	240.8	62.56	20.48	0.0
7-Jul 20:30	1.45	219.1	63.97	20.29	0.0
7-Jul 20:45	2.37	232.4	66.64	19.85	0.0
7-Jul 21:00	0.00	0.0	71.70	19.81	0.0
7-Jul 21:15	0.00	0.0	83.17	18.77	0.0
7-Jul 21:30	1.99	88.0	89.99	17.52	0.0
7-Jul 21:45	2.46	81.8	91.98	17.25	0.0
7-Jul 22:00	1.98	46.1	92.75	17.09	0.0
7-Jul 22:15	3.14	28.3	91.38	16.97	0.0
8-Jul 1:45	2.52	45.9	94.63	16.82	0.0
8-Jul 2:00	1.57	113.1	95.49	16.61	0.0
8-Jul 2:15	0.69	62.9	95.87	16.74	0.0
8-Jul 2:30	2.43	67.0	96.16	16.57	0.0
8-Jul 2:45	0.00	0.0	95.76	16.73	0.0

8-Jul 3:00	1.16	69.5	96.72	16.74	0.0
8-Jul 3:15	2.21	117.4	95.82	16.72	0.0
8-Jul 3:30	1.14	129.1	96.01	16.74	0.0
8-Jul 3:45	0.00	0.0	95.97	16.86	0.0
8-Jul 4:00	0.00	0.0	93.83	17.01	0.0
8-Jul 4:15	1.91	254.9	91.14	17.24	0.0
8-Jul 4:30	0.00	0.0	93.70	17.32	0.0
8-Jul 4:45	0.00	0.0	90.93	17.42	0.0
8-Jul 5:00	0.00	0.0	95.24	17.08	0.0
8-Jul 5:15	2.34	110.3	93.86	17.08	0.0
8-Jul 5:30	3.12	113.7	93.37	16.82	0.0
8-Jul 5:45	0.76	126.5	92.34	16.98	0.2
8-Jul 6:00	0.00	0.0	93.03	16.90	0.5
8-Jul 6:15	2.74	96.0	95.38	16.74	3.2
8-Jul 6:30	1.82	79.5	95.24	16.67	13.1
8-Jul 6:45	0.88	187.3	96.69	16.77	7.7
8-Jul 7:00	0.65	85.9	96.31	16.66	12.0
8-Jul 7:15	3.89	168.5	95.33	16.83	14.5
8-Jul 7:30	1.42	216.0	96.33	16.89	28.1
8-Jul 7:45	1.67	246.7	95.87	16.90	25.6
8-Jul 8:00	2.69	231.7	96.42	17.01	82.2
8-Jul 8:15	2.39	206.6	94.92	17.32	128.7
8-Jul 8:30	5.69	201.2	93.12	17.64	144.5
8-Jul 8:45	2.58	225.5	93.66	17.80	100.5
8-Jul 9:00	2.30	246.2	93.75	17.76	103.8
8-Jul 9:15	2.76	227.4	93.35	17.77	87.6
8-Jul 9:30	5.78	234.2	93.43	17.74	107.5
8-Jul 9:45	5.28	217.0	93.96	17.70	104.9
8-Jul 10:00	5.50	215.2	94.71	17.54	71.1
8-Jul 10:15	3.38	213.1	95.12	17.66	82.4
8-Jul 10:30	3.55	195.3	94.37	17.74	106.2
8-Jul 10:45	6.34	234.9	94.53	17.74	146.3
8-Jul 11:00	7.13	219.8	94.05	17.93	197.6
8-Jul 11:15	2.71	178.8	93.54	18.19	201.6
8-Jul 11:30	4.74	241.4	93.27	18.26	167.4
8-Jul 11:45	4.25	219.7	92.52	18.54	253.0
8-Jul 12:00	3.57	235.1	91.09	18.77	364.4
8-Jul 12:15	4.14	209.1	88.41	19.50	251.9
8-Jul 12:30	6.22	222.2	88.61	19.63	262.3
8-Jul 12:45	6.07	227.6	84.22	20.45	337.9
8-Jul 13:00	1.62	240.6	84.19	20.66	427.2
8-Jul 13:15	2.14	272.0	85.05	20.57	223.6
8-Jul 13:30	1.82	214.1	84.35	20.93	250.3
8-Jul 13:45	4.78	233.6	86.89	20.55	310.2
8-Jul 14:00	3.75	291.3	83.36	21.12	340.9
8-Jul 14:15	7.13	230.7	84.26	21.21	450.1
8-Jul 14:30	8.33	294.7	79.52	21.71	354.2
8-Jul 14:45	3.22	241.1	82.18	21.61	339.8
8-Jul 15:00	7.44	229.8	84.33	21.23	208.5
8-Jul 15:15	5.88	219.6	82.83	21.45	424.2
8-Jul 15:30	6.73	226.4	79.86	21.99	235.8
8-Jul 15:45	3.73	204.4	80.77	21.97	247.5

8-Jul 16:00	3.71	191.7	79.59	22.25	319.7
8-Jul 16:15	5.50	228.2	81.66	21.88	109.6
8-Jul 16:30	5.37	225.2	81.49	21.92	115.3
8-Jul 16:45	2.38	214.0	80.00	22.46	95.0
8-Jul 17:00	1.31	231.3	80.79	22.52	74.9
8-Jul 17:15	1.97	251.8	82.53	22.29	28.8
8-Jul 17:30	0.12	125.6	82.82	22.28	54.1
8-Jul 17:45	2.88	219.0	85.24	22.06	25.3
8-Jul 18:00	4.20	237.4	83.92	21.78	21.6
8-Jul 18:15	1.93	204.3	86.21	21.54	11.1
8-Jul 18:30	3.38	194.9	88.57	21.25	4.4
8-Jul 18:45	2.46	230.9	91.66	20.66	0.9
8-Jul 19:00	2.85	274.6	92.54	20.44	0.0
8-Jul 19:15	0.00	0.0	93.13	20.31	0.0
8-Jul 19:30	0.00	0.0	94.40	20.02	0.0
8-Jul 19:45	0.70	39.1	96.04	19.73	0.0
8-Jul 20:00	2.01	227.5	95.25	19.89	0.0
8-Jul 20:15	0.63	209.2	96.00	19.54	0.0
8-Jul 20:30	7.21	344.6	92.27	20.23	0.0
8-Jul 20:45	1.81	23.6	91.75	20.07	0.0
8-Jul 21:00	3.49	110.5	91.32	20.00	0.0
8-Jul 21:15	1.31	17.9	92.92	19.38	0.0
8-Jul 21:30	0.88	84.3	93.76	19.07	0.0
8-Jul 21:45	0.00	0.0	96.12	18.53	0.0
8-Jul 22:00	0.00	0.0	96.98	17.83	0.0
9-Jul 2:00	2.00	228.6	97.96	17.41	0.0
9-Jul 2:15	0.00	0.0	98.35	17.23	0.0
9-Jul 2:30	0.00	0.0	98.56	16.96	0.0
9-Jul 2:45	1.51	7.3	98.69	16.44	0.0
9-Jul 3:00	0.00	0.0	98.90	15.99	0.0
9-Jul 3:15	1.90	90.1	99.00	15.90	0.0
9-Jul 3:30	2.21	59.7	99.15	15.75	0.0
9-Jul 3:45	2.70	38.7	99.21	15.55	0.0
9-Jul 4:00	2.05	60.5	99.27	15.30	0.0
9-Jul 4:15	0.00	0.0	99.31	15.06	0.0
9-Jul 4:30	2.84	96.0	99.35	14.96	0.0
9-Jul 4:45	0.00	0.0	99.39	15.15	0.0
9-Jul 5:00	0.00	0.0	99.39	15.69	0.0
9-Jul 5:15	2.66	228.3	99.38	16.19	0.0
9-Jul 5:30	2.99	251.0	99.38	16.11	0.0
9-Jul 5:45	0.00	0.0	99.39	15.96	0.5
9-Jul 6:00	2.23	84.2	99.40	15.59	2.3
9-Jul 6:15	0.00	0.0	99.41	15.96	7.5
9-Jul 6:30	0.00	0.0	99.42	15.76	20.2
9-Jul 6:45	0.00	0.0	99.41	15.90	27.5
9-Jul 7:00	0.00	0.0	99.41	16.02	47.2
9-Jul 7:15	0.00	0.0	99.37	16.33	124.9
9-Jul 7:30	0.00	0.0	99.22	17.09	173.1
9-Jul 7:45	1.50	188.9	98.99	17.46	477.9
9-Jul 8:00	3.27	221.9	98.13	17.63	421.2
9-Jul 8:15	4.67	227.9	97.34	17.79	464.9
9-Jul 8:30	5.19	228.6	97.07	17.66	426.7

9-Jul 8:45	5.60	218.1	96.41	18.18	637.3
9-Jul 9:00	5.30	217.0	95.09	18.47	686.4
9-Jul 9:15	5.10	214.7	91.37	19.26	726.3
9-Jul 9:30	5.18	202.8	86.62	20.02	770.8
9-Jul 9:45	1.94	215.4	77.17	21.50	805.0
9-Jul 10:00	3.38	202.4	73.63	22.41	850.1
9-Jul 10:15	1.97	162.6	67.30	23.39	887.4
9-Jul 10:30	5.17	349.8	49.24	24.76	927.4
9-Jul 10:45	5.13	52.6	47.56	25.37	953.2
9-Jul 11:00	5.93	32.0	48.44	25.20	963.9
9-Jul 11:15	6.41	53.4	43.62	25.58	984.5
9-Jul 11:30	8.84	344.5	42.44	25.98	969.7
9-Jul 11:45	7.23	356.3	42.06	25.78	995.1
9-Jul 12:00	4.81	51.7	43.02	26.26	1009.4
9-Jul 12:15	7.00	22.4	42.02	26.05	948.5
9-Jul 12:30	4.48	49.5	44.10	26.65	914.6
9-Jul 12:45	9.46	310.3	42.41	26.81	972.6
9-Jul 13:00	4.96	352.1	44.65	27.08	956.9
9-Jul 13:15	4.13	345.2	41.98	27.77	956.1
9-Jul 13:30	5.92	339.4	42.54	27.60	966.9
9-Jul 13:45	11.62	320.7	42.93	27.42	703.2
9-Jul 14:00	2.75	236.8	48.87	27.18	254.4
9-Jul 14:15	9.23	306.9	47.85	27.36	800.3
9-Jul 14:30	4.43	300.4	49.71	27.61	754.9
9-Jul 14:45	11.19	264.9	52.32	27.05	722.1
9-Jul 15:00	7.65	244.9	50.59	27.31	694.4
9-Jul 15:15	13.46	237.6	53.97	26.58	128.3
9-Jul 15:30	7.34	315.9	70.28	25.11	163.9
9-Jul 15:45	3.86	265.9	65.36	25.63	598.9
9-Jul 16:00	8.76	291.7	57.74	26.35	441.2
9-Jul 16:15	3.26	341.0	55.91	26.95	212.7
9-Jul 16:30	1.99	339.4	54.04	27.56	318.6
9-Jul 16:45	5.58	310.3	53.98	27.13	263.7
9-Jul 17:00	2.43	302.5	54.72	27.32	224.0
9-Jul 17:15	3.65	316.5	52.80	27.59	197.2
9-Jul 17:30	2.79	307.9	58.21	26.42	39.7
9-Jul 17:45	2.37	242.0	64.10	25.40	56.0
9-Jul 18:00	1.66	277.0	58.26	26.31	84.2
9-Jul 18:15	0.50	261.2	61.94	26.36	33.4
9-Jul 18:30	0.00	0.0	72.07	25.24	14.8
9-Jul 18:45	0.00	0.0	76.89	23.87	5.7
9-Jul 19:00	0.00	0.0	80.94	22.84	1.3
9-Jul 19:15	0.00	0.0	84.72	21.92	0.0
9-Jul 19:30	1.25	96.0	87.93	20.89	0.0
9-Jul 19:45	1.55	73.8	88.44	20.54	0.0
9-Jul 20:00	2.41	68.3	91.79	19.83	0.0
9-Jul 20:15	2.86	55.8	92.04	19.46	0.0
9-Jul 20:30	3.32	65.1	92.39	19.17	0.0
9-Jul 20:45	2.63	81.1	92.53	18.50	0.0
9-Jul 21:00	0.45	83.6	92.38	18.33	0.0
9-Jul 21:15	1.98	72.0	90.53	18.16	0.0
9-Jul 21:30	1.20	116.1	92.19	18.05	0.0

9-Jul 21:45	2.38	85.7	91.26	17.79	0.0
9-Jul 22:00	2.92	76.9	91.13	17.68	0.0
9-Jul 22:15	3.80	87.9	91.00	17.34	0.0
10-Jul 1:45	3.48	77.3	91.53	16.89	0.0
10-Jul 2:00	3.22	70.4	93.52	16.63	0.0
10-Jul 2:15	3.36	78.7	92.18	16.52	0.0
10-Jul 2:30	3.47	80.2	92.88	16.20	0.0
10-Jul 2:45	2.60	72.5	94.73	16.27	0.0
10-Jul 3:00	3.33	64.5	95.00	16.09	0.0
10-Jul 3:15	3.44	55.5	95.05	15.92	0.0
10-Jul 3:30	3.36	54.8	94.81	15.63	0.0
10-Jul 3:45	2.29	68.1	94.54	15.41	0.0
10-Jul 4:00	4.28	71.3	95.44	15.37	0.0
10-Jul 4:15	4.05	72.8	96.28	15.07	0.0
10-Jul 4:30	3.86	71.9	96.05	14.99	0.0
10-Jul 4:45	3.53	67.3	96.58	14.84	0.0
10-Jul 5:00	4.02	64.0	96.09	14.59	0.0
10-Jul 5:15	4.43	72.0	96.53	14.35	0.0
10-Jul 5:30	3.78	63.0	97.01	14.29	0.0
10-Jul 5:45	3.94	63.5	97.04	14.15	1.3
10-Jul 6:00	3.56	68.6	97.26	13.88	6.9
10-Jul 6:15	3.52	60.1	96.66	13.88	50.4
10-Jul 6:30	3.32	57.4	95.03	14.09	97.7
10-Jul 6:45	3.86	66.1	94.73	14.27	78.0
10-Jul 7:00	2.53	50.6	94.75	14.33	65.4
10-Jul 7:15	2.71	58.9	94.60	14.62	96.1
10-Jul 7:30	2.40	65.6	94.41	14.92	125.1
10-Jul 7:45	1.54	66.4	92.18	15.62	404.3
10-Jul 8:00	0.00	0.0	82.02	17.80	463.5
10-Jul 8:15	0.00	0.0	79.75	19.06	520.1
10-Jul 8:30	0.00	0.0	75.52	19.91	543.2
10-Jul 8:45	2.52	237.2	74.86	20.55	248.1
10-Jul 9:00	4.74	221.6	74.96	20.82	351.9
10-Jul 9:15	3.66	185.8	71.78	21.78	713.0
10-Jul 9:30	4.45	221.1	69.34	22.70	757.7
10-Jul 9:45	9.98	221.9	67.91	23.25	860.2
10-Jul 10:00	5.30	228.5	68.77	23.21	313.6
10-Jul 10:15	11.30	281.8	65.46	23.77	1008.1
10-Jul 10:30	9.04	252.3	65.66	23.83	564.0
10-Jul 10:45	6.84	263.2	64.77	24.38	517.2
10-Jul 11:00	8.27	284.5	63.67	24.49	544.1
10-Jul 11:15	5.90	248.8	62.99	24.49	1045.4
10-Jul 11:30	11.61	276.2	60.03	24.40	355.6
10-Jul 11:45	7.58	263.1	56.53	24.79	1026.0
10-Jul 12:00	16.16	278.8	54.93	25.10	389.4
10-Jul 12:15	10.32	246.7	52.71	25.38	539.8
10-Jul 12:30	6.83	258.2	58.54	24.05	247.5
10-Jul 12:45	4.27	229.9	62.63	23.42	162.9
10-Jul 13:00	5.99	220.0	60.94	23.51	347.5
10-Jul 13:15	7.40	239.6	64.09	23.28	223.0
10-Jul 13:30	7.95	233.7	67.44	22.80	194.1
10-Jul 13:45	5.91	227.6	65.53	23.23	417.4

10-Jul 14:00	4.77	196.1	62.47	24.23	529.8
10-Jul 14:15	9.68	228.8	62.74	24.40	861.1
10-Jul 14:30	10.10	243.8	57.55	25.24	805.3
10-Jul 14:45	7.61	231.2	57.29	25.88	704.5
10-Jul 15:00	10.67	251.0	52.74	26.00	501.5
10-Jul 15:15	7.71	264.7	55.76	25.35	150.7
10-Jul 15:30	7.45	39.9	70.98	22.03	43.4
10-Jul 15:45	8.71	333.7	79.46	19.31	7.4
10-Jul 16:00	5.25	234.1	92.42	17.64	72.7
10-Jul 16:15	0.00	0.0	94.71	17.88	129.3
10-Jul 16:30	1.21	15.2	92.55	18.82	131.9
10-Jul 16:45	3.53	231.4	88.92	18.93	345.3
10-Jul 17:00	2.40	235.3	90.42	19.29	214.0
10-Jul 17:15	2.04	223.0	86.16	20.59	161.5
10-Jul 17:30	0.00	0.0	84.60	20.41	97.4
10-Jul 17:45	0.81	179.4	83.25	21.10	52.3
10-Jul 18:00	0.55	281.0	86.50	20.67	29.5
10-Jul 18:15	1.85	212.2	90.40	19.76	15.2
10-Jul 18:30	0.00	0.0	91.30	19.41	6.6
10-Jul 18:45	0.00	0.0	92.46	19.15	1.6
10-Jul 19:00	0.14	83.6	93.86	18.65	0.1
10-Jul 19:15	2.58	92.7	96.61	18.27	0.0
10-Jul 19:30	0.00	0.0	96.80	17.87	0.0
10-Jul 19:45	1.32	74.7	96.32	17.53	0.0
10-Jul 20:00	1.43	80.7	96.38	17.52	0.0
10-Jul 20:15	3.17	101.5	96.52	17.18	0.0
10-Jul 20:30	2.82	79.3	97.99	17.15	0.0
10-Jul 20:45	2.50	47.1	98.44	16.79	0.0
10-Jul 21:00	2.66	90.0	98.75	16.39	0.0
10-Jul 21:15	2.27	61.6	99.02	16.43	0.0
10-Jul 21:30	2.50	78.1	99.16	16.12	0.0
10-Jul 21:45	2.39	95.0	99.07	15.82	0.0
10-Jul 22:00	3.14	84.1	99.20	15.78	0.0
10-Jul 22:15	2.20	91.0	99.22	15.42	0.0
11-Jul 1:45	3.22	85.8	99.25	15.30	0.0
11-Jul 2:00	3.26	94.3	99.29	15.15	0.0
11-Jul 2:15	2.28	79.5	99.28	14.71	0.0
11-Jul 2:30	3.53	75.1	99.35	14.83	0.0
11-Jul 2:45	2.39	86.5	99.36	14.38	0.0
11-Jul 3:00	4.14	77.4	99.41	14.56	0.0
11-Jul 3:15	3.07	63.1	99.43	14.54	0.0
11-Jul 3:30	3.82	70.6	99.44	14.42	0.0
11-Jul 3:45	5.34	76.4	99.45	14.07	0.0
11-Jul 4:00	2.71	63.3	99.48	14.21	0.0
11-Jul 4:15	4.81	63.4	99.49	14.08	0.0
11-Jul 4:30	4.62	72.2	99.51	14.00	0.0
11-Jul 4:45	4.40	60.9	99.51	14.15	0.0
11-Jul 5:00	4.56	58.2	99.52	13.95	0.0
11-Jul 5:15	6.19	54.9	99.52	14.06	0.0
11-Jul 5:30	9.34	269.0	99.49	15.22	0.0
11-Jul 5:45	9.92	352.0	99.45	15.48	0.1
11-Jul 6:00	4.32	41.5	99.34	15.47	0.2

11-Jul 6:15	1.98	213.5	99.20	15.28	1.0
11-Jul 6:30	3.99	80.5	98.99	15.16	9.6
11-Jul 6:45	3.14	62.7	98.83	15.15	44.3
11-Jul 7:00	5.99	75.9	97.53	14.84	98.7
11-Jul 7:15	8.00	35.4	97.18	14.95	261.2
11-Jul 7:30	4.37	61.4	97.05	15.00	227.7
11-Jul 7:45	4.77	44.4	95.67	15.56	189.9
11-Jul 8:00	5.53	55.4	93.48	16.22	507.9
11-Jul 8:15	5.60	58.2	91.98	16.60	559.3
11-Jul 8:30	5.98	36.0	89.68	17.34	641.2
11-Jul 8:45	3.61	53.4	87.07	17.78	702.2
11-Jul 9:00	6.86	330.6	84.31	18.39	512.1
11-Jul 9:15	3.28	11.3	83.68	18.99	746.3
11-Jul 9:30	8.29	344.4	76.81	18.99	1004.8
11-Jul 9:45	10.35	337.6	77.90	18.53	516.5
11-Jul 10:00	8.92	315.3	77.09	18.53	451.6
11-Jul 10:15	3.29	282.1	75.68	19.01	872.4
11-Jul 10:30	5.12	19.3	73.12	19.97	358.7
11-Jul 10:45	8.15	348.5	73.28	19.48	253.7
11-Jul 11:00	7.70	331.7	67.53	20.16	1010.3
11-Jul 11:15	7.56	356.3	63.01	19.95	1064.9
11-Jul 11:30	7.04	53.7	62.51	20.45	669.2
11-Jul 11:45	10.56	354.6	56.32	20.84	1044.7
11-Jul 12:00	11.57	346.2	53.16	21.43	1046.1
11-Jul 12:15	4.99	17.5	50.52	22.07	683.6
11-Jul 12:30	5.58	44.2	54.44	21.11	515.2
11-Jul 12:45	15.79	311.3	47.52	21.19	1007.4
11-Jul 13:00	8.00	32.1	59.28	20.53	344.9
11-Jul 13:15	6.45	349.5	51.86	21.20	933.9
11-Jul 13:30	12.57	317.6	49.61	21.55	955.3
11-Jul 13:45	8.79	19.2	51.53	21.53	258.2
11-Jul 14:00	10.44	331.7	44.00	22.25	868.0
11-Jul 14:15	17.69	296.2	43.25	22.19	909.2
11-Jul 14:30	1.36	27.6	44.79	22.24	252.8
11-Jul 14:45	14.88	341.7	48.79	21.84	219.1
11-Jul 15:00	7.31	343.0	48.00	22.00	661.2
11-Jul 15:15	10.19	327.5	48.22	21.80	556.0
11-Jul 15:30	9.80	334.5	41.44	22.60	402.7
11-Jul 15:45	12.95	306.1	41.99	22.43	459.9
11-Jul 16:00	7.77	325.4	44.66	22.52	446.3
11-Jul 16:15	12.35	332.3	46.76	22.22	318.9
11-Jul 16:30	15.50	327.2	46.01	21.28	109.2
11-Jul 16:45	9.53	341.0	47.36	21.46	213.9
11-Jul 17:00	4.74	336.5	49.07	21.27	158.0
11-Jul 17:15	3.55	352.6	49.45	21.05	46.6
11-Jul 17:30	7.42	320.7	51.02	20.74	54.0
11-Jul 17:45	2.63	351.9	54.55	20.14	24.2
11-Jul 18:00	1.10	359.6	57.32	20.14	35.8
11-Jul 18:15	1.30	351.3	59.39	19.39	7.9
11-Jul 18:30	3.81	354.6	62.02	18.54	2.0
11-Jul 18:45	3.00	3.4	65.00	17.83	0.2
11-Jul 19:00	1.94	9.5	67.30	17.30	0.0

11-Jul 19:15	2.05	102.7	81.55	16.02	0.0
11-Jul 19:30	1.48	67.6	80.31	15.73	0.0
11-Jul 19:45	2.13	91.0	83.97	15.24	0.0
11-Jul 20:00	1.44	104.6	88.42	14.43	0.0
11-Jul 20:15	0.00	0.0	87.22	14.31	0.0
11-Jul 20:30	1.91	113.4	90.12	14.00	0.0
11-Jul 20:45	1.01	121.8	91.51	13.51	0.0
11-Jul 21:00	0.00	0.0	89.36	13.25	0.0
11-Jul 21:15	1.94	108.2	90.21	12.81	0.0
11-Jul 21:30	2.01	102.4	90.93	12.63	0.0
11-Jul 21:45	0.00	0.0	90.80	12.43	0.0
11-Jul 22:00	1.58	96.0	89.67	12.66	0.0
12-Jul 2:00	2.43	105.8	92.19	12.53	0.0
12-Jul 2:15	0.00	0.0	93.68	12.41	0.0
12-Jul 2:30	0.00	0.0	92.43	12.25	0.0
12-Jul 2:45	0.00	0.0	92.40	12.28	0.0
12-Jul 3:00	0.00	0.0	91.28	12.45	0.0
12-Jul 3:15	0.96	239.5	91.53	12.34	0.0
12-Jul 3:30	0.50	243.4	93.26	11.92	0.0
12-Jul 3:45	0.00	0.0	91.42	11.94	0.0
12-Jul 4:00	0.00	0.0	92.13	11.60	0.0
12-Jul 4:15	0.00	0.0	92.36	11.59	0.0
12-Jul 4:30	0.00	0.0	93.19	11.13	0.0
12-Jul 4:45	0.00	0.0	92.16	11.12	0.0
12-Jul 5:00	0.00	0.0	95.73	11.19	0.0
12-Jul 5:15	0.00	0.0	94.59	11.01	0.0
12-Jul 5:30	0.00	0.0	95.43	10.84	0.0
12-Jul 5:45	0.00	0.0	96.95	10.67	0.2
12-Jul 6:00	0.00	0.0	95.57	10.61	1.4
12-Jul 6:15	1.49	258.3	95.41	10.56	6.4
12-Jul 6:30	0.00	0.0	94.18	10.70	18.5
12-Jul 6:45	0.00	0.0	91.79	11.06	91.7
12-Jul 7:00	0.00	0.0	87.50	12.07	182.6
12-Jul 7:15	3.73	289.3	89.67	12.35	238.7
12-Jul 7:30	4.29	304.4	82.74	13.95	297.6
12-Jul 7:45	5.99	280.5	82.81	14.06	355.8
12-Jul 8:00	5.76	278.6	80.61	14.56	417.3
12-Jul 8:15	5.77	279.1	80.65	14.76	478.3
12-Jul 8:30	4.46	279.7	78.99	15.39	538.7
12-Jul 8:45	5.56	239.8	76.65	15.76	614.7
12-Jul 9:00	9.87	303.2	74.55	15.89	94.0
12-Jul 9:15	5.51	303.9	71.84	16.59	712.2
12-Jul 9:30	9.51	319.1	67.75	16.77	775.6
12-Jul 9:45	5.38	350.8	67.47	17.09	890.5
12-Jul 10:00	13.42	331.1	66.93	17.36	989.4
12-Jul 10:15	3.74	328.9	64.44	18.20	914.8
12-Jul 10:30	8.52	310.3	63.37	17.71	271.2
12-Jul 10:45	15.83	314.4	60.47	17.98	785.3
12-Jul 11:00	4.11	272.4	56.30	19.05	275.1
12-Jul 11:15	13.63	329.5	53.63	18.45	394.0
12-Jul 11:30	7.12	12.9	53.02	19.18	1299.4
12-Jul 11:45	16.62	331.9	50.51	18.82	340.6

12-Jul 12:00	7.57	340.8	53.34	18.93	394.3
12-Jul 12:15	8.35	299.3	54.42	19.02	545.9
12-Jul 12:30	8.65	311.4	53.39	18.87	384.1
12-Jul 12:45	10.59	284.7	53.90	18.70	326.3
12-Jul 13:00	7.73	291.0	53.27	19.54	416.5
12-Jul 13:15	5.48	288.3	56.86	18.85	232.2
12-Jul 13:30	14.41	247.0	54.07	19.26	1108.4
12-Jul 13:45	7.95	253.4	57.07	19.37	514.6
12-Jul 14:00	13.32	298.9	53.76	19.38	478.0
12-Jul 14:15	7.87	249.3	55.14	19.80	898.3
12-Jul 14:30	7.77	278.3	54.82	19.47	231.6
12-Jul 14:45	4.35	249.6	57.73	19.77	149.5
12-Jul 15:00	3.90	322.3	56.89	19.42	115.2
12-Jul 15:15	3.96	360.0	52.48	19.98	231.4
12-Jul 15:30	2.13	306.7	50.68	20.40	180.8
12-Jul 15:45	6.13	298.2	55.29	19.32	135.6
12-Jul 16:00	3.67	258.4	58.74	19.17	278.5
12-Jul 16:15	7.12	235.8	58.03	19.29	112.8
12-Jul 16:30	5.82	300.8	56.80	19.46	310.6
12-Jul 16:45	3.24	293.4	55.93	19.70	424.3
12-Jul 17:00	3.30	305.2	56.89	19.81	85.4
12-Jul 17:15	3.77	244.9	61.30	19.44	90.0
12-Jul 17:30	3.63	283.3	55.63	20.31	181.6
12-Jul 17:45	9.89	333.6	54.43	19.53	146.5
12-Jul 18:00	2.61	2.2	53.62	20.29	57.6
12-Jul 18:15	2.54	20.3	54.87	19.74	46.9
12-Jul 18:30	5.00	357.5	55.70	19.22	20.6
12-Jul 18:45	1.66	22.4	56.48	18.73	12.6
12-Jul 19:00	5.17	10.3	60.92	17.65	4.7
12-Jul 19:15	2.71	29.3	72.53	16.60	0.8
12-Jul 19:30	1.87	97.8	77.54	15.47	0.0
12-Jul 19:45	1.75	112.0	78.85	14.86	0.0
12-Jul 20:00	1.06	22.0	82.76	14.07	0.0
12-Jul 20:15	1.54	87.1	85.31	13.51	0.0
12-Jul 20:30	1.61	98.3	86.17	12.91	0.0
12-Jul 20:45	3.28	78.6	90.96	12.43	0.0
12-Jul 21:00	2.24	77.4	90.59	11.87	0.0
12-Jul 21:15	2.69	97.5	92.99	11.43	0.0
12-Jul 21:30	2.68	89.9	92.54	11.15	0.0
12-Jul 21:45	2.01	80.4	92.55	10.88	0.0
12-Jul 22:00	0.27	52.9	92.23	10.87	0.0
12-Jul 22:15	1.26	103.8	91.51	10.69	0.0
12-Jul 22:30	0.00	0.0	92.53	10.50	0.0
13-Jul 1:45	1.37	119.6	91.04	10.37	0.0
13-Jul 2:00	0.25	114.5	94.37	10.07	0.0
13-Jul 2:15	2.82	102.2	91.64	9.64	0.0
13-Jul 2:30	1.82	74.8	93.37	9.31	0.0
13-Jul 2:45	0.00	0.0	94.49	9.68	0.0
13-Jul 3:00	0.00	0.0	94.02	9.11	0.0
13-Jul 3:15	1.86	92.0	94.34	8.68	0.0
13-Jul 3:30	1.21	87.2	95.87	8.77	0.0
13-Jul 3:45	2.27	88.7	96.06	8.51	0.0

13-Jul 4:00	2.13	78.5	96.51	8.39	0.0
13-Jul 4:15	2.35	96.0	96.58	8.32	0.0
13-Jul 4:30	1.78	67.0	97.28	8.24	0.0
13-Jul 4:45	2.08	84.5	98.07	8.29	0.0
13-Jul 5:00	3.08	94.2	97.93	8.13	0.0
13-Jul 5:15	2.74	101.4	97.25	7.88	0.0
13-Jul 5:30	2.69	79.5	97.57	7.95	0.0
13-Jul 5:45	2.34	84.1	97.44	7.90	0.1
13-Jul 6:00	3.81	86.5	97.84	7.77	1.1
13-Jul 6:15	2.20	79.5	97.90	7.71	5.8
13-Jul 6:30	3.26	68.9	96.30	7.51	30.8
13-Jul 6:45	3.69	61.2	98.20	7.89	19.0
13-Jul 7:00	3.37	66.7	95.71	8.28	153.1
13-Jul 7:15	1.40	53.7	92.46	9.09	196.7
13-Jul 7:30	2.60	69.1	92.45	9.71	248.4
13-Jul 7:45	2.09	65.8	89.12	10.63	320.1
13-Jul 8:00	1.15	78.8	83.55	12.41	385.5
13-Jul 8:15	0.00	0.0	78.78	13.86	451.5
13-Jul 8:30	2.56	204.5	75.44	14.76	514.0
13-Jul 8:45	1.13	198.1	76.75	14.73	574.4
13-Jul 9:00	3.41	190.2	77.25	14.88	627.2
13-Jul 9:15	0.52	118.5	71.90	16.34	689.4
13-Jul 9:30	3.64	221.3	72.10	16.50	744.1
13-Jul 9:45	5.34	259.7	66.20	17.46	967.8
13-Jul 10:00	1.68	30.6	64.14	17.37	263.5
13-Jul 10:15	7.27	48.2	62.32	17.30	450.6
13-Jul 10:30	3.02	11.2	63.57	17.34	342.7
13-Jul 10:45	7.44	343.1	62.17	17.39	258.1
13-Jul 11:00	4.20	63.9	60.95	18.30	526.0
13-Jul 11:15	7.34	19.1	57.31	18.16	1045.0
13-Jul 11:30	2.71	340.7	58.99	18.27	236.2
13-Jul 11:45	2.32	325.6	60.69	18.71	441.6
13-Jul 12:00	2.58	299.5	63.67	17.96	179.5
13-Jul 12:15	3.54	297.3	63.23	18.09	192.1
13-Jul 12:30	2.29	3.4	61.05	18.14	187.5
13-Jul 12:45	3.40	341.8	60.45	18.25	390.6
13-Jul 13:00	3.56	272.6	62.87	18.10	186.8
13-Jul 13:15	3.76	248.5	71.18	17.50	78.5
13-Jul 13:30	3.43	238.1	75.52	17.01	123.5
13-Jul 13:45	3.08	193.9	70.15	17.78	353.2
13-Jul 14:00	4.63	212.7	69.13	18.11	414.2
13-Jul 14:15	5.05	240.1	67.64	18.20	234.3
13-Jul 14:30	5.26	245.9	70.19	18.05	245.2
13-Jul 14:45	5.41	248.8	64.97	18.47	544.6
13-Jul 15:00	3.50	222.7	58.32	19.51	438.2
13-Jul 15:15	6.90	211.7	57.18	19.83	871.9
13-Jul 15:30	4.86	238.3	57.49	19.85	652.6
13-Jul 15:45	6.22	272.0	57.40	19.82	187.3
13-Jul 16:00	3.20	246.7	61.79	18.87	73.8
13-Jul 16:15	4.14	264.1	66.58	18.33	46.5
13-Jul 16:30	2.54	230.5	68.94	18.29	163.9
13-Jul 16:45	4.21	268.1	67.23	18.49	147.6

13-Jul 17:00	1.75	245.0	66.60	18.74	198.2
13-Jul 17:15	2.52	202.4	62.64	19.91	266.0
13-Jul 17:30	10.27	279.9	62.69	19.17	116.1
13-Jul 17:45	5.29	323.1	61.09	19.44	139.6
13-Jul 18:00	4.60	285.6	61.35	19.44	78.1
13-Jul 18:15	3.62	290.3	61.48	19.29	36.0
13-Jul 18:30	1.60	278.6	63.50	19.31	23.7
13-Jul 18:45	0.76	302.0	65.25	18.90	15.6
13-Jul 19:00	0.00	0.0	69.48	18.06	9.2
13-Jul 19:15	0.00	0.0	78.84	16.86	2.2
13-Jul 19:30	1.65	133.0	82.89	15.75	0.2
13-Jul 19:45	0.31	106.8	88.61	14.72	0.0
13-Jul 20:00	0.50	120.9	89.58	14.43	0.0
13-Jul 20:15	0.67	318.4	90.04	14.03	0.0
13-Jul 20:30	1.75	97.4	93.32	13.59	0.0
13-Jul 20:45	0.00	0.0	91.13	13.32	0.0
13-Jul 21:00	0.32	60.0	91.18	12.96	0.0
13-Jul 21:15	2.16	84.9	95.72	12.42	0.0
13-Jul 21:30	1.86	75.3	94.85	11.98	0.0
13-Jul 21:45	1.39	95.0	94.51	11.71	0.0
13-Jul 22:00	2.67	101.4	95.91	11.48	0.0
13-Jul 22:15	1.85	102.3	95.56	11.11	0.0
13-Jul 22:30	2.07	99.8	96.06	10.96	0.0
14-Jul 1:30	1.24	80.5	97.02	10.97	0.0
14-Jul 1:45	2.14	101.3	96.41	10.74	0.0
14-Jul 2:00	3.03	100.6	95.85	10.34	0.0
14-Jul 2:15	2.01	91.2	96.99	10.40	0.0
14-Jul 2:30	3.10	84.5	96.33	10.42	0.0
14-Jul 2:45	2.67	99.8	96.15	10.53	0.0
14-Jul 3:00	2.52	90.7	95.73	10.73	0.0
14-Jul 3:15	2.22	58.3	95.83	10.75	0.0
14-Jul 3:30	2.16	60.1	96.52	10.70	0.0
14-Jul 3:45	1.66	69.7	95.94	10.55	0.0
14-Jul 4:00	3.22	94.5	96.12	10.31	0.0
14-Jul 4:15	1.25	99.0	96.99	10.32	0.0
14-Jul 4:30	1.63	113.7	96.94	10.28	0.0
14-Jul 4:45	1.91	82.2	97.46	10.16	0.0
14-Jul 5:00	1.89	94.8	97.36	10.00	0.0
14-Jul 5:15	1.41	87.0	97.78	9.90	0.0
14-Jul 5:30	2.15	115.2	97.76	9.86	0.0
14-Jul 5:45	0.00	0.0	97.71	9.83	0.4
14-Jul 6:00	2.07	107.8	97.56	9.81	2.9
14-Jul 6:15	2.62	118.4	97.07	9.59	12.6
14-Jul 6:30	0.00	0.0	96.69	9.68	42.4
14-Jul 6:45	0.80	92.3	94.55	10.55	149.7
14-Jul 7:00	0.53	105.5	89.62	11.47	221.6
14-Jul 7:15	2.25	279.6	89.47	12.92	264.8
14-Jul 7:30	2.05	270.4	85.38	14.22	360.8
14-Jul 7:45	10.20	308.1	82.58	14.94	477.8
14-Jul 8:00	7.88	282.3	82.89	14.94	441.2
14-Jul 8:15	7.43	316.3	80.34	15.36	538.4
14-Jul 8:30	5.76	326.8	75.98	15.97	574.3

14-Jul 8:45	6.27	315.7	73.53	16.87	246.6
14-Jul 9:00	2.41	27.0	70.18	17.35	820.4
14-Jul 9:15	6.66	338.8	66.54	17.68	284.6
14-Jul 9:30	4.33	5.8	68.57	17.74	902.2
14-Jul 9:45	8.00	338.4	68.04	17.50	553.5
14-Jul 10:00	4.60	341.6	67.99	18.15	213.1
14-Jul 10:15	5.53	14.8	66.68	18.56	979.3
14-Jul 10:30	9.85	337.2	64.68	18.62	965.1
14-Jul 10:45	8.20	311.0	63.18	19.18	369.7
14-Jul 11:00	9.68	332.2	64.87	18.98	277.8
14-Jul 11:15	4.94	295.4	63.33	19.56	831.7
14-Jul 11:30	4.92	35.7	61.78	19.81	1020.3
14-Jul 11:45	6.12	59.3	55.16	20.69	1079.5
14-Jul 12:00	5.48	50.0	59.40	20.10	345.8
14-Jul 12:15	3.71	58.4	61.93	20.05	834.4
14-Jul 12:30	2.92	356.3	54.49	21.26	1182.3
14-Jul 12:45	7.11	9.3	57.33	20.57	377.4
14-Jul 13:00	11.38	0.3	53.91	20.70	1095.9
14-Jul 13:15	9.65	357.6	53.63	21.13	1044.5
14-Jul 13:30	0.34	106.7	53.25	21.39	547.4
14-Jul 13:45	2.25	359.2	55.66	21.29	312.1
14-Jul 14:00	6.92	352.3	57.10	20.46	329.2
14-Jul 14:15	12.38	320.3	49.43	21.55	1024.3
14-Jul 14:30	8.06	2.6	57.12	20.34	319.7
14-Jul 14:45	6.04	303.2	52.91	21.28	868.4
14-Jul 15:00	5.28	39.2	59.62	20.06	213.3
14-Jul 15:15	5.14	62.7	57.58	20.14	547.0
14-Jul 15:30	2.44	356.8	58.12	20.32	142.7
14-Jul 15:45	4.73	47.8	59.29	20.08	551.1
14-Jul 16:00	8.32	32.8	59.19	20.02	331.5
14-Jul 16:15	5.94	28.1	58.44	20.34	155.1
14-Jul 16:30	4.71	34.7	58.47	19.98	396.6
14-Jul 16:45	16.34	339.2	53.83	20.48	346.9
14-Jul 17:00	15.29	336.8	52.49	20.74	314.9
14-Jul 17:15	7.78	3.9	53.58	20.79	262.2
14-Jul 17:30	13.96	334.1	54.39	20.63	229.2
14-Jul 17:45	3.44	25.4	58.68	20.07	79.4
14-Jul 18:00	6.04	3.5	61.24	19.30	70.9
14-Jul 18:15	3.16	357.8	60.93	19.64	40.8
14-Jul 18:30	2.51	33.6	62.31	19.38	26.4
14-Jul 18:45	2.71	33.0	65.66	18.54	13.6
14-Jul 19:00	4.99	344.9	67.82	17.94	5.7
14-Jul 19:15	2.75	328.7	69.88	17.53	0.8
14-Jul 19:30	2.20	346.8	71.78	17.13	0.0
14-Jul 19:45	2.83	358.0	73.70	16.61	0.0
14-Jul 20:00	1.03	79.4	80.05	16.10	0.0
14-Jul 20:15	1.94	98.3	83.59	15.34	0.0
14-Jul 20:30	2.83	58.4	86.68	14.80	0.0
14-Jul 20:45	0.99	94.6	86.41	14.46	0.0
14-Jul 21:00	1.45	69.0	87.56	14.08	0.0
14-Jul 21:15	2.20	62.3	91.35	13.87	0.0
14-Jul 21:30	2.14	34.8	90.81	13.42	0.0

14-Jul 21:45	3.05	99.0	94.56	12.84	0.0
14-Jul 22:00	0.95	101.3	93.85	12.79	0.0
14-Jul 22:15	0.00	0.0	93.54	12.61	0.0
14-Jul 22:30	0.00	0.0	92.48	12.53	0.0
15-Jul 1:45	1.73	94.8	94.84	12.17	0.0
15-Jul 2:00	0.90	86.8	92.99	11.97	0.0
15-Jul 2:15	1.33	105.2	93.10	11.98	0.0
15-Jul 2:30	0.73	102.8	92.34	11.93	0.0
15-Jul 2:45	2.07	102.1	94.15	11.47	0.0
15-Jul 3:00	1.54	52.9	95.07	11.32	0.0
15-Jul 3:15	2.26	89.6	95.58	10.97	0.0
15-Jul 3:30	1.90	90.0	94.95	10.91	0.0
15-Jul 3:45	0.99	98.1	96.21	10.92	0.0
15-Jul 4:00	1.58	112.8	95.64	11.03	0.0
15-Jul 4:15	2.35	107.7	94.45	10.60	0.0
15-Jul 4:30	0.85	100.5	96.82	10.71	0.0
15-Jul 4:45	1.26	115.3	95.86	10.61	0.0
15-Jul 5:00	1.57	69.8	96.26	10.41	0.0
15-Jul 5:15	1.03	107.8	96.65	10.43	0.0
15-Jul 5:30	0.00	0.0	97.30	10.47	0.0
15-Jul 5:45	0.00	0.0	96.19	10.16	0.3
15-Jul 6:00	1.09	90.8	96.67	10.18	3.0
15-Jul 6:15	1.61	110.1	97.02	10.25	10.7
15-Jul 6:30	2.68	106.2	96.57	10.20	71.7
15-Jul 6:45	0.00	0.0	93.38	10.78	137.3
15-Jul 7:00	1.75	91.5	90.97	11.59	176.0
15-Jul 7:15	0.00	0.0	86.23	12.84	244.3
15-Jul 7:30	0.00	0.0	80.44	14.18	307.5
15-Jul 7:45	0.17	108.6	82.57	14.34	342.7
15-Jul 8:00	0.00	0.0	80.05	15.32	355.0
15-Jul 8:15	0.00	0.0	81.34	15.53	230.2
15-Jul 8:30	0.00	0.0	80.49	15.78	558.9
15-Jul 8:45	1.85	132.2	75.06	17.28	614.6
15-Jul 9:00	1.40	61.8	72.67	17.96	661.4
15-Jul 9:15	6.11	55.8	67.41	18.81	718.7
15-Jul 9:30	6.80	46.7	64.86	19.07	767.3
15-Jul 9:45	1.05	49.7	61.93	20.08	811.2
15-Jul 10:00	5.87	55.8	55.03	20.09	854.8
15-Jul 10:15	1.53	36.7	53.94	20.73	893.2
15-Jul 10:30	6.18	36.4	51.28	21.41	940.9
15-Jul 10:45	4.17	67.4	52.95	21.21	975.4
15-Jul 11:00	6.45	62.1	49.91	21.41	1014.9
15-Jul 11:15	8.59	60.6	48.84	21.55	1031.9
15-Jul 11:30	2.48	22.7	47.93	22.36	1127.3
15-Jul 11:45	5.00	22.4	49.31	22.39	719.1
15-Jul 12:00	10.45	37.9	49.80	22.09	409.9
15-Jul 12:15	4.45	60.2	50.57	22.48	1111.7
15-Jul 12:30	6.42	69.3	47.99	22.79	1008.2
15-Jul 12:45	7.17	337.3	47.49	22.76	314.6
15-Jul 13:00	2.36	347.9	46.29	23.23	678.4
15-Jul 13:15	4.71	25.7	51.74	22.74	278.1
15-Jul 13:30	4.95	351.1	52.97	22.38	250.2

15-Jul 13:45	10.23	270.5	61.28	21.59	280.0
15-Jul 14:00	5.08	251.3	70.28	20.52	247.8
15-Jul 14:15	10.26	261.3	71.22	20.76	394.4
15-Jul 14:30	7.33	244.9	66.71	21.20	504.1
15-Jul 14:45	7.35	226.9	64.62	21.10	278.0
15-Jul 15:00	4.65	214.1	63.99	20.96	225.2
15-Jul 15:15	6.80	229.7	60.52	21.39	593.2
15-Jul 15:30	7.33	233.5	56.89	22.98	542.8
15-Jul 15:45	10.96	237.2	55.90	22.57	467.8
15-Jul 16:00	9.82	276.5	54.87	22.70	414.0
15-Jul 16:15	2.69	239.7	57.58	22.53	358.4
15-Jul 16:30	3.23	219.6	59.22	22.65	137.7
15-Jul 16:45	3.27	266.7	60.95	22.21	225.5
15-Jul 17:00	2.95	278.9	62.45	22.49	160.0
15-Jul 17:15	3.46	244.7	63.39	22.62	145.2
15-Jul 17:30	3.32	245.5	66.01	22.29	71.6
15-Jul 17:45	3.49	253.8	69.99	21.81	23.9
15-Jul 18:00	0.00	0.0	72.27	21.58	22.0
15-Jul 18:15	0.00	0.0	77.00	20.80	18.5
15-Jul 18:30	2.00	61.4	80.92	19.74	6.2
15-Jul 18:45	2.50	68.2	82.11	18.92	0.8
15-Jul 19:00	0.00	0.0	85.35	18.49	0.1
15-Jul 19:15	3.56	63.0	87.83	17.77	0.0
15-Jul 19:30	3.19	81.8	89.45	17.16	0.0
15-Jul 19:45	2.79	64.6	89.33	16.82	0.0
15-Jul 20:00	3.62	82.2	91.35	16.28	0.0
15-Jul 20:15	3.65	58.2	92.23	15.86	0.0
15-Jul 20:30	2.84	78.0	91.46	15.86	0.0
15-Jul 20:45	3.68	55.5	92.12	15.61	0.0
15-Jul 21:00	3.36	89.6	92.47	15.44	0.0
15-Jul 21:15	3.63	59.7	93.09	15.38	0.0
15-Jul 21:30	3.29	70.1	94.25	15.09	0.0
15-Jul 21:45	3.92	68.7	94.08	14.84	0.0
15-Jul 22:00	3.56	67.7	95.18	14.55	0.0
16-Jul 1:45	5.13	72.3	95.32	14.30	0.0
16-Jul 2:00	4.71	79.4	95.20	13.93	0.0
16-Jul 2:15	3.91	93.3	95.82	13.87	0.0
16-Jul 2:30	5.37	78.2	96.45	13.81	0.0
16-Jul 2:45	5.34	84.5	96.67	13.52	0.0
16-Jul 3:00	4.59	91.8	96.21	13.34	0.0
16-Jul 3:15	4.04	84.9	96.31	13.08	0.0
16-Jul 3:30	4.88	85.4	96.88	12.87	0.0
16-Jul 3:45	6.01	74.9	97.30	12.84	0.0
16-Jul 4:00	3.51	88.1	96.87	12.58	0.0
16-Jul 4:15	3.55	91.9	96.64	12.57	0.0
16-Jul 4:30	4.36	88.2	96.62	12.35	0.0
16-Jul 4:45	3.27	96.0	96.54	12.19	0.0
16-Jul 5:00	3.94	91.7	96.61	12.04	0.0
16-Jul 5:15	3.74	79.1	96.62	12.12	0.0
16-Jul 5:30	4.64	75.0	97.13	11.88	0.0
16-Jul 5:45	5.32	83.2	96.73	11.66	0.7
16-Jul 6:00	3.99	82.7	97.06	11.49	4.8

16-Jul 6:15	4.62	82.6	96.94	11.28	39.8
16-Jul 6:30	4.52	82.7	96.03	11.23	105.0
16-Jul 6:45	6.46	68.8	94.83	11.62	170.4
16-Jul 7:00	5.80	82.2	93.67	11.82	219.0
16-Jul 7:15	4.43	67.5	91.61	12.65	277.0
16-Jul 7:30	3.46	68.4	88.47	13.32	337.5
16-Jul 7:45	2.40	62.1	85.87	14.18	399.1
16-Jul 8:00	4.25	50.1	84.76	14.92	462.7
16-Jul 8:15	2.93	55.0	82.25	15.98	526.3
16-Jul 8:30	1.98	60.2	76.88	17.46	586.6
16-Jul 8:45	0.00	0.0	69.65	19.49	639.9
16-Jul 9:00	0.00	0.0	60.08	20.96	692.0
16-Jul 9:15	0.39	219.4	56.28	21.96	738.5
16-Jul 9:30	4.59	216.5	63.74	21.39	775.9
16-Jul 9:45	2.17	116.8	58.16	22.58	821.7
16-Jul 10:00	0.43	135.1	53.12	23.46	867.8
16-Jul 10:15	5.69	221.7	55.72	23.05	892.0
16-Jul 10:30	4.96	222.0	50.87	23.40	943.0
16-Jul 10:45	2.84	150.7	46.21	24.18	947.1
16-Jul 11:00	8.16	273.4	49.53	24.23	1006.4
16-Jul 11:15	10.87	293.4	49.70	23.75	1055.4
16-Jul 11:30	10.37	248.4	50.21	23.67	1043.7
16-Jul 11:45	5.70	283.1	48.49	24.12	773.3
16-Jul 12:00	7.93	280.2	47.22	24.09	1015.4
16-Jul 12:15	13.58	300.4	47.03	24.10	872.3
16-Jul 12:30	7.13	260.0	48.02	24.52	891.0
16-Jul 12:45	7.38	235.0	47.65	25.06	988.5
16-Jul 13:00	10.60	254.4	46.97	24.86	945.6
16-Jul 13:15	11.22	300.4	44.52	25.00	809.4
16-Jul 13:30	9.91	267.2	46.31	25.42	904.0
16-Jul 13:45	8.67	206.3	44.66	25.59	808.7
16-Jul 14:00	9.81	231.4	47.77	25.25	811.2
16-Jul 14:15	5.95	247.2	48.55	25.48	812.2
16-Jul 14:30	10.55	234.5	51.68	25.02	554.5
16-Jul 14:45	11.57	269.8	53.40	24.02	239.6
16-Jul 15:00	8.08	273.1	54.97	23.70	277.1
16-Jul 15:15	3.75	237.6	55.83	24.36	281.9
16-Jul 15:30	6.51	291.5	54.89	23.80	232.0
16-Jul 15:45	5.14	241.3	53.30	24.57	465.8
16-Jul 16:00	3.75	237.3	57.98	23.57	94.6
16-Jul 16:15	7.74	294.4	54.97	24.26	324.4
16-Jul 16:30	8.43	250.2	56.17	24.06	221.6
16-Jul 16:45	11.14	265.8	58.63	23.88	183.4
16-Jul 17:00	4.02	240.3	58.37	24.19	159.2
16-Jul 17:15	7.88	261.1	59.98	23.35	52.7
16-Jul 17:30	3.75	247.8	61.28	23.04	56.7
16-Jul 17:45	5.03	271.3	60.83	22.96	37.7
16-Jul 18:00	1.76	248.7	62.78	22.61	29.9
16-Jul 18:15	3.50	225.1	64.39	22.07	6.9
16-Jul 18:30	0.22	243.6	63.56	22.08	1.4
16-Jul 18:45	3.18	240.9	66.17	21.59	0.0
16-Jul 19:00	2.10	229.4	67.93	21.44	0.0

16-Jul 19:15	1.56	234.1	66.33	21.52	0.0
16-Jul 19:30	0.78	248.2	68.71	21.08	0.0
16-Jul 19:45	3.32	251.3	74.28	20.13	0.0
16-Jul 20:00	3.09	235.8	73.22	20.45	0.0
16-Jul 20:15	2.11	199.4	73.56	20.30	0.0
16-Jul 20:30	1.48	135.4	73.10	20.37	0.0
16-Jul 20:45	0.00	0.0	74.22	20.10	0.0
16-Jul 21:00	2.59	241.9	75.81	19.86	0.0
16-Jul 21:15	1.74	202.5	79.36	19.33	0.0
16-Jul 21:30	1.43	55.9	78.82	19.40	0.0
16-Jul 21:45	0.00	0.0	81.99	19.06	0.0
16-Jul 22:00	2.21	62.4	82.31	19.03	0.0
16-Jul 22:15	0.00	0.0	83.16	18.82	0.0
17-Jul 1:30	1.41	87.7	83.72	18.64	0.0
17-Jul 1:45	0.00	0.0	84.05	18.50	0.0
17-Jul 2:00	0.55	133.0	83.86	18.49	0.0
17-Jul 2:15	2.20	114.5	86.14	18.20	0.0
17-Jul 2:30	0.10	119.9	86.64	18.05	0.0
17-Jul 2:45	0.00	0.0	88.03	17.70	0.0
17-Jul 3:00	3.12	242.8	88.42	17.56	0.0
17-Jul 3:15	1.94	193.5	88.21	17.54	0.0
17-Jul 3:30	0.81	311.9	87.26	17.66	0.0
17-Jul 3:45	0.00	0.0	88.81	17.71	0.0
17-Jul 4:00	0.62	223.4	90.56	17.43	0.0
17-Jul 4:15	0.00	0.0	90.01	17.44	0.0
17-Jul 4:30	1.30	36.3	91.49	17.48	0.0
17-Jul 4:45	0.00	0.0	91.73	17.46	0.0
17-Jul 5:00	2.47	93.8	90.73	17.36	0.0
17-Jul 5:15	0.00	0.0	91.65	17.39	0.0
17-Jul 5:30	0.00	0.0	93.65	17.03	0.0
17-Jul 5:45	1.31	147.0	93.66	16.95	0.6
17-Jul 6:00	0.00	0.0	93.15	16.89	1.4
17-Jul 6:15	1.88	197.8	94.15	16.86	1.7
17-Jul 6:30	2.43	97.3	94.80	16.86	5.2
17-Jul 6:45	1.58	205.1	97.00	17.06	5.7
17-Jul 7:00	1.55	216.9	96.81	17.20	6.9
17-Jul 7:15	0.00	0.0	96.57	17.35	5.4
17-Jul 7:30	2.10	231.6	97.23	17.33	26.9
17-Jul 7:45	0.00	0.0	95.20	17.82	61.9
17-Jul 8:00	2.97	255.5	95.72	17.78	125.1
17-Jul 8:15	3.15	231.5	95.78	18.19	189.6
17-Jul 8:30	2.39	224.8	94.47	18.59	162.7
17-Jul 8:45	2.67	250.5	92.34	18.98	382.7
17-Jul 9:00	2.93	225.9	88.68	19.82	576.2
17-Jul 9:15	3.57	201.9	85.69	20.48	603.3
17-Jul 9:30	3.13	15.8	83.85	21.00	260.0
17-Jul 9:45	3.76	250.2	82.93	21.23	337.5
17-Jul 10:00	2.63	235.5	78.44	22.20	644.8
17-Jul 10:15	4.13	240.2	77.69	22.32	532.3
17-Jul 10:30	4.73	286.3	73.29	22.72	671.1
17-Jul 10:45	4.26	308.7	71.75	22.96	624.8
17-Jul 11:00	10.68	304.3	68.05	23.03	793.4

17-Jul 11:15	3.93	32.3	69.43	23.27	458.2
17-Jul 11:30	9.87	343.6	66.14	23.36	381.0
17-Jul 11:45	2.83	29.2	66.43	23.71	671.9
17-Jul 12:00	0.00	0.0	62.52	24.53	460.1
17-Jul 12:15	1.91	70.5	65.59	23.94	394.4
17-Jul 12:30	3.08	205.8	66.64	23.98	661.3
17-Jul 12:45	3.30	273.9	67.10	24.20	343.8
17-Jul 13:00	7.22	291.9	65.66	24.68	563.2
17-Jul 13:15	3.62	266.2	65.27	24.91	653.3
17-Jul 13:30	4.93	281.7	63.49	25.13	592.1
17-Jul 13:45	5.38	274.4	61.51	25.11	428.0
17-Jul 14:00	5.74	255.5	63.48	25.38	339.2
17-Jul 14:15	3.35	282.1	64.05	25.20	312.3
17-Jul 14:30	3.04	322.6	60.94	25.30	432.9
17-Jul 14:45	0.37	141.9	59.72	26.09	671.5
17-Jul 15:00	0.87	118.7	55.56	27.44	672.6
17-Jul 15:15	0.96	293.7	55.67	27.40	602.9
17-Jul 15:30	2.53	219.0	60.32	26.47	561.9
17-Jul 15:45	4.18	69.0	60.17	26.19	366.2
17-Jul 16:00	3.01	64.9	63.30	25.91	293.9
17-Jul 16:15	2.61	66.7	65.12	25.17	153.1
17-Jul 16:30	3.72	8.7	69.28	24.62	65.2
17-Jul 16:45	2.62	68.6	73.58	23.58	24.7
17-Jul 17:00	2.64	72.2	82.66	22.39	8.9
17-Jul 17:15	3.13	130.5	77.46	21.29	4.3
17-Jul 17:30	15.37	276.2	84.00	19.75	0.6
17-Jul 17:45	6.21	15.0	93.02	17.06	2.0
17-Jul 18:00	5.60	65.7	93.20	17.22	4.1
17-Jul 18:15	3.72	95.6	91.76	17.03	6.1
17-Jul 18:30	2.84	71.1	93.56	17.08	1.1
17-Jul 18:45	0.60	85.4	94.91	17.06	0.0
17-Jul 19:00	4.52	92.6	91.42	17.04	0.0
17-Jul 19:15	6.33	80.1	94.84	16.82	0.0
17-Jul 19:30	4.94	236.7	96.79	16.78	0.0
17-Jul 19:45	2.00	239.8	97.04	16.78	0.0
17-Jul 20:00	3.11	122.8	97.08	16.65	0.0
17-Jul 20:15	4.25	65.8	96.03	16.73	0.0
17-Jul 20:30	3.37	91.6	96.14	16.74	0.0
17-Jul 20:45	3.73	71.8	96.08	17.02	0.0
17-Jul 21:00	2.57	89.0	96.55	16.56	0.0
17-Jul 21:15	0.00	0.0	94.43	16.61	0.0
17-Jul 21:30	4.94	84.2	94.40	16.72	0.0
17-Jul 21:45	2.39	65.2	95.38	16.59	0.0
17-Jul 22:00	3.46	45.5	94.35	16.81	0.0
17-Jul 22:15	4.59	77.8	94.04	16.86	0.0
18-Jul 1:45	3.11	67.9	95.64	16.70	0.0
18-Jul 2:00	0.00	0.0	95.83	16.76	0.0
18-Jul 2:15	3.52	79.8	95.25	16.69	0.0
18-Jul 2:30	1.70	101.7	96.74	16.61	0.0
18-Jul 2:45	5.23	61.5	95.43	16.71	0.0
18-Jul 3:00	4.62	55.6	94.81	16.66	0.0
18-Jul 3:15	4.51	63.7	95.45	16.72	0.0

18-Jul	3:30	5.38	79.8	93.93	16.78	0.0
18-Jul	3:45	2.40	79.0	95.52	16.75	0.0
18-Jul	4:00	1.56	68.5	94.82	16.73	0.0
18-Jul	4:15	2.76	224.1	96.34	16.52	0.0
18-Jul	4:30	1.87	283.2	97.93	16.20	0.0
18-Jul	4:45	0.00	0.0	98.17	16.25	0.0
18-Jul	5:00	0.00	0.0	97.82	16.25	0.0
18-Jul	5:15	0.00	0.0	97.29	16.19	0.0
18-Jul	5:30	2.81	48.1	97.84	16.27	0.0
18-Jul	5:45	6.46	78.2	96.68	16.36	1.3
18-Jul	6:00	4.97	73.0	96.15	16.55	3.8
18-Jul	6:15	3.55	95.1	96.22	16.43	11.0
18-Jul	6:30	2.00	106.6	96.15	16.54	38.7
18-Jul	6:45	2.80	73.0	96.09	16.79	75.2
18-Jul	7:00	4.23	79.7	96.10	16.93	59.1
18-Jul	7:15	3.93	64.1	93.64	17.47	96.5
18-Jul	7:30	4.99	71.8	93.50	17.64	120.0
18-Jul	7:45	4.09	77.7	93.40	17.78	96.9
18-Jul	8:00	1.50	88.4	93.30	18.04	83.2
18-Jul	8:15	2.46	72.9	93.30	18.18	91.4
18-Jul	8:30	3.41	62.7	93.12	18.43	98.9
18-Jul	8:45	5.62	108.3	91.65	18.83	105.7
18-Jul	9:00	6.04	81.3	88.73	19.29	225.5
18-Jul	9:15	4.21	83.4	89.59	19.27	133.5
18-Jul	9:30	4.79	93.4	88.96	19.31	130.9
18-Jul	9:45	2.56	60.0	89.03	19.51	138.5
18-Jul	10:00	6.38	59.4	87.47	19.72	192.2
18-Jul	10:15	6.56	104.8	88.75	19.50	174.9
18-Jul	10:30	3.77	73.6	83.78	20.72	632.6
18-Jul	10:45	6.10	80.0	81.20	20.93	893.6
18-Jul	11:00	4.37	105.6	77.99	21.20	555.5
18-Jul	11:15	6.27	72.3	76.29	21.52	356.4
18-Jul	11:30	4.11	104.1	74.60	21.66	951.5
18-Jul	11:45	6.78	100.6	73.48	22.31	368.8
18-Jul	12:00	4.17	92.8	68.51	22.62	1032.2
18-Jul	12:15	3.88	176.6	67.34	22.85	1055.5
18-Jul	12:30	5.04	56.3	66.11	23.26	418.5
18-Jul	12:45	8.67	114.8	61.03	23.73	1025.8
18-Jul	13:00	4.96	65.0	60.42	24.25	1001.5
18-Jul	13:15	2.54	105.1	57.13	25.03	336.9
18-Jul	13:30	4.28	104.5	61.53	23.83	256.4
18-Jul	13:45	3.37	122.4	53.52	24.83	831.3
18-Jul	14:00	6.94	52.9	51.19	25.43	822.3
18-Jul	14:15	4.39	63.9	52.48	25.73	344.9
18-Jul	14:30	9.54	77.8	59.01	24.42	153.3
18-Jul	14:45	2.94	62.6	61.92	24.20	204.2
18-Jul	15:00	2.20	67.9	58.98	24.56	302.9
18-Jul	15:15	8.86	92.5	53.38	25.06	493.9
18-Jul	15:30	4.31	66.0	59.77	24.66	117.1
18-Jul	15:45	4.72	80.0	62.72	24.07	102.6
18-Jul	16:00	4.72	116.8	60.40	24.13	368.6
18-Jul	16:15	7.00	145.8	61.61	24.32	145.3

18-Jul 16:30	4.90	133.1	64.86	23.70	82.3
18-Jul 16:45	3.80	84.5	67.21	23.37	209.0
18-Jul 17:00	3.16	112.3	65.09	23.82	87.9
18-Jul 17:15	4.77	108.3	64.88	23.57	99.6
18-Jul 17:30	2.88	139.2	66.59	23.22	58.2
18-Jul 17:45	3.25	139.8	70.89	22.84	19.7
18-Jul 18:00	1.81	112.7	76.01	21.98	21.6
18-Jul 18:15	4.60	173.7	79.55	21.53	8.3
18-Jul 18:30	1.80	168.3	82.32	20.94	1.5
18-Jul 18:45	0.00	0.0	85.07	20.36	0.2
18-Jul 19:00	3.56	60.4	89.26	19.86	0.0
18-Jul 19:15	0.00	0.0	90.08	19.46	0.0
18-Jul 19:30	0.00	0.0	91.11	19.11	0.0
18-Jul 19:45	2.31	69.4	93.16	18.77	0.0
18-Jul 20:00	1.70	53.3	93.54	18.47	0.0
18-Jul 20:15	2.51	43.1	94.98	18.19	0.0
18-Jul 20:30	0.00	0.0	95.89	17.81	0.0
18-Jul 20:45	2.30	99.7	95.34	17.60	0.0
18-Jul 21:00	2.86	68.5	96.15	17.43	0.0
18-Jul 21:15	1.84	79.1	97.09	17.19	0.0
18-Jul 21:30	1.57	84.0	96.50	16.71	0.0
18-Jul 21:45	1.76	69.4	96.35	16.49	0.0
18-Jul 22:00	2.59	94.2	97.60	16.15	0.0
19-Jul 2:00	1.58	112.9	98.46	16.27	0.0
19-Jul 2:15	2.40	71.6	98.71	16.20	0.0
19-Jul 2:30	4.06	79.9	98.83	15.85	0.0
19-Jul 2:45	3.38	87.8	98.84	16.08	0.0
19-Jul 3:00	0.00	0.0	98.95	16.30	0.0
19-Jul 3:15	2.79	97.5	98.94	16.22	0.0
19-Jul 3:30	4.69	77.0	98.98	16.19	0.0
19-Jul 3:45	2.83	92.4	99.00	16.00	0.0
19-Jul 4:00	3.45	75.7	99.03	16.33	0.0
19-Jul 4:15	2.69	47.4	99.03	16.40	0.0
19-Jul 4:30	5.15	77.8	99.04	16.58	0.0
19-Jul 4:45	5.35	76.6	99.04	16.45	0.0
19-Jul 5:00	4.85	76.6	99.05	16.28	0.0
19-Jul 5:15	3.43	78.5	99.07	16.22	0.0
19-Jul 5:30	4.14	85.7	99.08	16.17	0.0
19-Jul 5:45	2.91	96.6	99.09	16.09	0.1
19-Jul 6:00	2.84	45.6	99.09	16.23	1.3
19-Jul 6:15	1.82	83.2	98.98	16.18	10.0
19-Jul 6:30	0.00	0.0	98.65	16.09	30.3
19-Jul 6:45	3.22	94.2	97.57	16.06	141.0
19-Jul 7:00	4.35	59.2	93.27	16.50	195.9
19-Jul 7:15	6.78	78.8	89.01	16.78	360.4
19-Jul 7:30	6.80	67.5	85.40	17.39	493.8
19-Jul 7:45	6.29	65.3	81.95	17.77	424.3
19-Jul 8:00	4.78	73.1	77.29	18.52	440.1
19-Jul 8:15	7.56	57.6	75.29	18.81	531.0
19-Jul 8:30	6.24	61.8	75.37	18.98	378.2
19-Jul 8:45	5.50	72.0	74.65	19.08	340.4
19-Jul 9:00	4.47	61.4	72.63	19.25	400.1

19-Jul 9:15	3.22	65.9	68.40	20.09	725.2
19-Jul 9:30	5.48	83.0	65.67	20.32	826.4
19-Jul 9:45	7.96	81.8	64.60	20.96	860.7
19-Jul 10:00	5.77	99.7	60.56	21.65	895.4
19-Jul 10:15	2.92	90.1	58.71	21.92	931.1
19-Jul 10:30	6.96	85.3	57.90	22.51	943.6
19-Jul 10:45	4.45	84.3	58.93	22.48	911.4
19-Jul 11:00	2.74	84.2	57.30	22.89	1025.6
19-Jul 11:15	5.62	81.3	58.49	22.41	298.0
19-Jul 11:30	6.16	63.0	59.82	22.78	835.2
19-Jul 11:45	5.31	62.3	53.73	23.41	1024.1
19-Jul 12:00	3.92	94.9	54.91	23.62	1126.6
19-Jul 12:15	3.69	109.2	54.85	23.67	227.4
19-Jul 12:30	12.41	83.5	55.40	23.51	459.9
19-Jul 12:45	8.35	91.0	56.20	23.15	890.6
19-Jul 13:00	4.73	64.1	53.67	24.00	285.0
19-Jul 13:15	8.83	71.6	59.09	22.80	296.4
19-Jul 13:30	6.36	93.8	56.45	23.31	252.6
19-Jul 13:45	3.72	95.7	50.25	24.06	877.7
19-Jul 14:00	6.86	101.8	51.82	23.88	441.9
19-Jul 14:15	7.59	81.9	53.83	23.88	415.2
19-Jul 14:30	2.03	129.4	53.91	23.92	219.6
19-Jul 14:45	5.39	113.3	51.02	24.57	689.3
19-Jul 15:00	7.34	147.1	53.51	24.27	538.5
19-Jul 15:15	1.88	214.9	48.57	24.82	534.6
19-Jul 15:30	2.80	178.9	48.15	24.84	539.7
19-Jul 15:45	6.85	109.4	55.34	23.73	87.3
19-Jul 16:00	5.33	128.5	57.32	23.20	146.6
19-Jul 16:15	2.52	188.2	55.44	23.70	250.5
19-Jul 16:30	2.06	167.2	53.16	23.81	108.5
19-Jul 16:45	4.54	91.0	58.71	22.77	51.7
19-Jul 17:00	3.71	106.3	59.95	22.64	89.8
19-Jul 17:15	5.52	147.9	60.28	22.44	48.3
19-Jul 17:30	2.11	94.7	65.97	21.91	47.1
19-Jul 17:45	3.01	107.0	66.21	21.57	22.5
19-Jul 18:00	3.10	97.2	70.49	21.24	6.8
19-Jul 18:15	3.64	110.5	70.34	20.70	2.7
19-Jul 18:30	2.82	125.8	71.52	20.45	0.7
19-Jul 18:45	2.49	128.4	72.42	20.03	0.0
19-Jul 19:00	1.46	118.3	77.16	19.26	0.0
19-Jul 19:15	2.37	80.1	81.21	18.64	0.0
19-Jul 19:30	2.69	89.8	83.60	18.13	0.0
19-Jul 19:45	3.04	62.2	87.03	17.59	0.0
19-Jul 20:00	1.89	106.0	85.47	17.50	0.0
19-Jul 20:15	2.00	72.7	87.54	17.46	0.0
19-Jul 20:30	2.39	60.6	88.88	17.24	0.0
19-Jul 20:45	0.37	74.6	89.86	17.17	0.0
19-Jul 21:00	4.41	73.0	89.39	17.00	0.0
19-Jul 21:15	2.59	62.3	90.26	16.68	0.0
19-Jul 21:30	2.05	64.5	90.57	16.54	0.0
19-Jul 21:45	2.86	103.8	92.09	15.87	0.0
19-Jul 22:00	2.89	99.4	92.53	15.70	0.0

19-Jul 22:15	4.27	84.3	94.63	15.19	0.0
20-Jul 2:00	3.17	80.9	94.93	15.00	0.0
20-Jul 2:15	3.43	92.4	95.85	14.62	0.0
20-Jul 2:30	4.36	70.8	96.34	14.45	0.0
20-Jul 2:45	5.33	75.2	97.18	14.08	0.0
20-Jul 3:00	4.27	84.3	96.63	13.88	0.0
20-Jul 3:15	4.11	89.2	96.81	13.70	0.0
20-Jul 3:30	3.64	97.1	96.83	13.51	0.0
20-Jul 3:45	3.46	93.2	97.24	13.32	0.0
20-Jul 4:00	4.53	70.1	97.98	13.20	0.0
20-Jul 4:15	4.13	86.0	97.83	12.91	0.0
20-Jul 4:30	4.81	81.1	97.97	12.93	0.0
20-Jul 4:45	5.84	76.6	98.10	12.46	0.0
20-Jul 5:00	5.87	73.6	98.72	12.31	0.0
20-Jul 5:15	5.57	85.3	98.89	11.97	0.0
20-Jul 5:30	5.28	74.8	99.16	11.91	0.2
20-Jul 5:45	4.39	90.0	99.21	11.72	2.0
20-Jul 6:00	4.11	63.7	99.16	11.70	8.6
20-Jul 6:15	5.16	71.0	99.16	11.52	22.1
20-Jul 6:30	5.87	71.0	99.14	11.42	61.1
20-Jul 6:45	3.79	63.9	99.21	11.51	68.6
20-Jul 7:00	6.02	82.4	98.93	11.38	124.7
20-Jul 7:15	6.58	75.4	98.72	11.82	234.2
20-Jul 7:30	5.13	73.7	98.42	12.32	294.9
20-Jul 7:45	3.58	66.7	97.91	13.00	349.4
20-Jul 8:00	4.09	76.0	96.09	14.24	496.2
20-Jul 8:15	3.16	43.2	90.64	15.81	562.7
20-Jul 8:30	3.03	53.1	82.19	17.41	621.5
20-Jul 8:45	3.24	58.4	76.41	18.95	683.1
20-Jul 9:00	2.93	67.3	71.40	19.84	182.0
20-Jul 9:15	2.11	141.1	61.86	20.22	795.8
20-Jul 9:30	6.39	82.9	64.34	20.11	835.2
20-Jul 9:45	2.92	94.5	58.17	20.64	873.5
20-Jul 10:00	6.17	98.1	54.88	20.94	912.4
20-Jul 10:15	9.08	100.9	44.31	21.68	942.5
20-Jul 10:30	6.96	85.0	42.54	21.92	964.3
20-Jul 10:45	10.68	80.2	33.86	22.44	981.7
20-Jul 11:00	10.23	24.7	30.77	22.81	1000.3
20-Jul 11:15	2.70	61.3	30.60	23.24	1001.9
20-Jul 11:30	4.82	65.9	34.68	23.27	998.7
20-Jul 11:45	3.56	52.5	37.73	23.33	1002.1
20-Jul 12:00	5.93	49.7	39.45	23.34	1004.6
20-Jul 12:15	2.58	124.8	34.04	23.68	980.8
20-Jul 12:30	7.12	87.3	35.64	23.55	976.2
20-Jul 12:45	4.69	47.7	33.02	23.75	937.3
20-Jul 13:00	4.38	37.0	32.91	23.98	895.0
20-Jul 13:15	9.09	124.0	31.49	24.11	887.8
20-Jul 13:30	9.41	118.0	25.84	24.12	861.5
20-Jul 13:45	8.20	151.7	27.34	24.29	813.1
20-Jul 14:00	6.30	77.7	29.39	24.01	761.3
20-Jul 14:15	5.62	108.4	30.69	24.03	708.6
20-Jul 14:30	1.54	48.1	30.51	24.70	655.2

20-Jul 14:45	7.83	154.6	30.21	24.45	600.7
20-Jul 15:00	4.27	57.7	32.80	24.71	538.9
20-Jul 15:15	6.74	144.0	29.88	24.63	480.6
20-Jul 15:30	5.39	93.9	33.07	24.23	423.9
20-Jul 15:45	5.63	120.4	32.95	24.21	358.8
20-Jul 16:00	4.60	133.2	33.05	25.04	299.0
20-Jul 16:15	4.44	166.3	35.55	24.40	239.3
20-Jul 16:30	4.95	112.2	38.67	24.13	186.1
20-Jul 16:45	3.13	136.3	39.82	24.09	130.0
20-Jul 17:00	3.20	173.2	42.32	23.97	70.6
20-Jul 17:15	2.75	170.6	44.67	23.87	29.5
20-Jul 17:30	3.72	169.0	45.53	23.24	23.7
20-Jul 17:45	3.67	126.0	51.74	22.42	17.1
20-Jul 18:00	2.66	151.3	52.18	22.23	9.5
20-Jul 18:15	1.68	222.0	57.38	20.98	2.4
20-Jul 18:30	3.10	101.1	69.19	18.91	0.2
20-Jul 18:45	3.59	115.9	67.82	18.47	0.0
20-Jul 19:00	2.53	120.3	73.61	17.30	0.0
20-Jul 19:15	4.07	42.0	79.94	16.85	0.0
20-Jul 19:30	2.37	74.3	81.58	16.45	0.0
20-Jul 19:45	3.04	68.4	84.41	15.67	0.0
20-Jul 20:00	2.22	68.0	85.05	15.23	0.0
20-Jul 20:15	4.28	94.0	85.29	14.55	0.0
20-Jul 20:30	3.44	81.1	85.60	14.31	0.0
20-Jul 20:45	3.44	76.6	87.97	13.74	0.0
20-Jul 21:00	3.94	65.4	90.05	13.64	0.0
20-Jul 21:15	3.51	73.0	91.13	13.34	0.0
20-Jul 21:30	4.39	82.4	91.74	12.68	0.0
20-Jul 21:45	4.31	61.5	91.19	12.60	0.0
20-Jul 22:00	4.79	61.6	92.39	12.19	0.0
20-Jul 22:15	6.06	71.4	93.96	11.82	0.0
21-Jul 1:45	5.61	71.7	94.31	11.75	0.0
21-Jul 2:00	4.45	84.0	94.18	11.33	0.0
21-Jul 2:15	5.68	61.7	94.31	11.24	0.0
21-Jul 2:30	5.81	57.8	93.79	11.05	0.0
21-Jul 2:45	5.63	82.6	95.01	10.49	0.0
21-Jul 3:00	4.58	87.6	94.23	10.48	0.0
21-Jul 3:15	6.76	75.1	95.48	10.31	0.0
21-Jul 3:30	5.59	58.9	95.65	10.15	0.0
21-Jul 3:45	5.38	85.4	95.61	9.90	0.0
21-Jul 4:00	4.40	73.9	95.14	9.87	0.0
21-Jul 4:15	4.35	76.2	95.96	9.46	0.0
21-Jul 4:30	4.75	69.0	96.21	9.59	0.0
21-Jul 4:45	5.73	56.2	95.89	9.18	0.0
21-Jul 5:00	6.24	74.7	96.09	9.06	0.0
21-Jul 5:15	5.73	62.8	96.07	8.93	0.0
21-Jul 5:30	7.37	77.0	95.56	8.81	1.0
21-Jul 5:45	5.76	59.6	95.55	8.80	5.3
21-Jul 6:00	5.57	55.8	95.44	8.68	47.0
21-Jul 6:15	8.21	71.1	94.22	8.78	106.6
21-Jul 6:30	7.89	72.4	92.96	9.04	164.8
21-Jul 6:45	7.79	77.0	92.08	9.39	224.2

21-Jul 7:00	6.48	69.1	91.85	10.14	281.6
21-Jul 7:15	4.91	57.5	87.79	11.09	342.8
21-Jul 7:30	5.47	65.8	85.94	11.75	406.2
21-Jul 7:45	4.85	54.8	83.95	12.75	449.7
21-Jul 8:00	4.44	29.4	80.58	14.18	534.5
21-Jul 8:15	0.55	66.1	74.85	16.19	604.5
21-Jul 8:30	0.00	0.0	66.27	19.06	653.9
21-Jul 8:45	4.30	207.5	66.53	19.18	705.9
21-Jul 9:00	4.54	208.5	67.39	19.28	751.0
21-Jul 9:15	1.65	204.1	61.29	20.93	800.3
21-Jul 9:30	3.47	228.5	59.84	21.38	841.9
21-Jul 9:45	6.04	281.1	57.63	21.89	876.6
21-Jul 10:00	2.90	283.9	44.48	22.14	904.4
21-Jul 10:15	5.43	223.7	47.02	22.81	930.0
21-Jul 10:30	0.00	0.0	40.90	23.82	957.7
21-Jul 10:45	0.76	197.5	42.73	23.60	970.8
21-Jul 11:00	9.98	218.9	44.00	23.37	940.5
21-Jul 11:15	1.90	52.3	40.46	24.51	984.4
21-Jul 11:30	5.19	217.7	42.09	23.83	980.5
21-Jul 11:45	7.62	221.8	41.55	23.98	979.0
21-Jul 12:00	4.31	189.6	41.43	24.82	987.4
21-Jul 12:15	0.00	0.0	39.86	25.27	960.4
21-Jul 12:30	1.80	222.9	38.49	24.74	932.6
21-Jul 12:45	5.41	234.4	39.08	24.88	850.4
21-Jul 13:00	11.80	218.7	33.58	25.22	881.8
21-Jul 13:15	3.11	265.5	34.55	25.10	419.9
21-Jul 13:30	8.73	231.3	32.20	25.46	843.1
21-Jul 13:45	0.00	0.0	31.09	26.00	726.7
21-Jul 14:00	6.41	217.9	32.53	26.24	749.2
21-Jul 14:15	1.91	125.6	30.93	26.55	703.5
21-Jul 14:30	6.27	272.8	31.45	26.35	648.5
21-Jul 14:45	4.22	234.4	32.20	25.95	606.6
21-Jul 15:00	4.75	215.8	27.83	26.14	508.0
21-Jul 15:15	2.00	146.3	28.60	26.58	399.7
21-Jul 15:30	3.37	202.7	31.44	26.33	336.7
21-Jul 15:45	6.70	236.2	33.10	25.75	466.5
21-Jul 16:00	1.69	62.6	32.21	26.18	399.6
21-Jul 16:15	5.61	222.7	31.82	26.60	303.7
21-Jul 16:30	2.78	157.6	34.98	26.15	133.9
21-Jul 16:45	3.74	237.4	38.33	25.22	81.6
21-Jul 17:00	4.46	197.3	39.65	24.88	104.3
21-Jul 17:15	4.46	232.3	42.51	24.81	122.4
21-Jul 17:30	4.15	212.2	44.95	24.28	69.9
21-Jul 17:45	0.44	236.4	48.90	23.75	34.0
21-Jul 18:00	0.36	189.3	53.71	22.96	14.9
21-Jul 18:15	2.96	79.1	62.19	21.37	5.6
21-Jul 18:30	1.68	84.8	69.07	20.01	0.6
21-Jul 18:45	3.81	75.7	75.21	18.22	0.0
21-Jul 19:00	2.59	84.7	77.75	17.79	0.0
21-Jul 19:15	3.31	74.5	79.87	17.19	0.0
21-Jul 19:30	3.48	77.2	80.43	16.52	0.0
21-Jul 19:45	4.09	88.6	81.30	16.44	0.0

21-Jul 20:00	4.64	82.7	84.79	15.82	0.0
21-Jul 20:15	4.43	70.1	84.45	15.73	0.0
21-Jul 20:30	5.64	55.4	84.24	15.13	0.0
21-Jul 20:45	3.91	85.2	86.27	14.54	0.0
21-Jul 21:00	4.90	80.7	88.51	14.17	0.0
21-Jul 21:15	6.08	75.7	89.98	13.92	0.0
21-Jul 21:30	5.11	86.9	91.58	13.47	0.0
21-Jul 21:45	4.76	66.7	92.02	13.47	0.0
21-Jul 22:00	6.68	76.3	93.02	13.02	0.0
21-Jul 22:15	4.75	66.8	93.42	13.00	0.0
22-Jul 1:45	2.40	68.3	90.50	12.91	0.0
22-Jul 2:00	3.89	77.0	93.43	12.64	0.0
22-Jul 2:15	5.45	52.0	94.02	12.46	0.0
22-Jul 2:30	5.24	77.3	94.37	12.19	0.0
22-Jul 2:45	5.50	52.7	93.92	11.99	0.0
22-Jul 3:00	5.20	68.7	93.80	11.98	0.0
22-Jul 3:15	5.15	71.4	94.76	11.95	0.0
22-Jul 3:30	5.02	58.0	94.23	11.61	0.0
22-Jul 3:45	5.06	71.0	94.30	11.56	0.0
22-Jul 4:00	6.07	72.1	93.82	11.64	0.0
22-Jul 4:15	3.90	59.1	93.33	11.73	0.0
22-Jul 4:30	4.95	46.1	94.47	11.37	0.0
22-Jul 4:45	4.82	60.8	94.64	11.09	0.0
22-Jul 5:00	5.63	61.2	94.77	10.96	0.0
22-Jul 5:15	5.47	55.6	95.22	10.76	0.0
22-Jul 5:30	7.28	74.6	95.27	10.61	0.2
22-Jul 5:45	5.29	57.3	94.92	10.56	1.5
22-Jul 6:00	6.58	70.9	95.43	10.43	8.8
22-Jul 6:15	7.65	73.4	94.84	10.38	58.0
22-Jul 6:30	6.31	74.3	93.57	10.60	122.5
22-Jul 6:45	5.48	65.0	92.59	10.90	179.3
22-Jul 7:00	6.65	74.3	92.33	11.19	187.2
22-Jul 7:15	4.71	67.9	89.77	11.76	311.7
22-Jul 7:30	5.03	50.9	86.56	12.79	371.9
22-Jul 7:45	4.23	65.4	85.61	13.49	435.7
22-Jul 8:00	3.72	71.3	83.23	14.40	499.0
22-Jul 8:15	2.44	66.9	76.61	16.20	560.7
22-Jul 8:30	0.00	0.0	68.36	18.27	618.6
22-Jul 8:45	2.02	219.5	63.25	20.12	677.8
22-Jul 9:00	2.13	213.4	61.71	20.56	725.4
22-Jul 9:15	6.10	267.5	59.14	21.12	769.8
22-Jul 9:30	4.93	278.2	58.83	21.20	812.6
22-Jul 9:45	0.00	0.0	54.19	23.10	857.6
22-Jul 10:00	7.30	243.3	53.70	23.04	903.0
22-Jul 10:15	2.72	274.7	50.50	23.49	1003.2
22-Jul 10:30	7.55	231.0	43.43	23.96	975.0
22-Jul 10:45	14.30	221.2	43.50	23.48	946.0
22-Jul 11:00	7.47	217.9	38.65	24.09	883.8
22-Jul 11:15	6.69	248.4	38.96	24.13	828.3
22-Jul 11:30	9.26	214.8	38.46	24.35	867.2
22-Jul 11:45	3.67	205.2	35.23	25.31	1061.8
22-Jul 12:00	6.43	191.3	36.41	25.10	1084.9

22-Jul 12:15	7.18	210.9	37.14	25.08	1109.0
22-Jul 12:30	4.25	233.9	35.49	25.57	737.6
22-Jul 12:45	12.56	213.7	33.07	25.76	997.4
22-Jul 13:00	6.54	196.8	34.72	25.97	921.8
22-Jul 13:15	4.30	232.1	35.53	26.50	891.1
22-Jul 13:30	6.89	212.0	32.62	26.29	853.1
22-Jul 13:45	8.65	223.8	32.85	26.30	799.5
22-Jul 14:00	2.13	196.4	35.58	26.04	743.0
22-Jul 14:15	7.10	230.6	36.40	26.57	749.3
22-Jul 14:30	2.64	152.4	38.33	26.03	619.5
22-Jul 14:45	4.46	227.1	35.88	26.29	662.5
22-Jul 15:00	8.18	208.5	36.71	26.43	753.7
22-Jul 15:15	7.92	221.9	37.63	25.87	318.1
22-Jul 15:30	6.98	196.4	36.92	25.52	273.3
22-Jul 15:45	5.33	181.0	38.58	25.51	251.3
22-Jul 16:00	5.81	232.4	38.52	25.77	202.9
22-Jul 16:15	4.61	202.8	38.74	25.40	335.0
22-Jul 16:30	4.00	197.9	37.35	25.58	171.9
22-Jul 16:45	3.91	234.3	38.91	25.45	110.7
22-Jul 17:00	4.15	217.9	41.69	24.83	74.6
22-Jul 17:15	4.53	214.8	42.12	24.78	90.0
22-Jul 17:30	3.19	180.7	45.91	24.14	51.3
22-Jul 17:45	4.21	222.7	46.60	23.85	24.7
22-Jul 18:00	1.89	132.8	49.02	23.56	18.9
22-Jul 18:15	3.51	176.9	50.48	23.06	4.1
22-Jul 18:30	2.39	104.7	59.97	21.24	0.4
22-Jul 18:45	2.20	96.2	68.94	20.14	0.0
22-Jul 19:00	2.18	49.9	71.36	19.54	0.0
22-Jul 19:15	2.63	52.8	74.58	18.75	0.0
22-Jul 19:30	3.20	82.8	78.72	17.92	0.0
22-Jul 19:45	3.40	63.3	78.85	17.75	0.0
22-Jul 20:00	4.09	56.9	80.24	17.18	0.0
22-Jul 20:15	3.43	29.6	81.76	16.86	0.0
22-Jul 20:30	3.40	63.5	81.71	16.90	0.0
22-Jul 20:45	2.27	71.4	82.65	16.45	0.0
22-Jul 21:00	2.80	66.7	85.60	16.02	0.0
22-Jul 21:15	3.85	49.3	86.69	15.57	0.0
22-Jul 21:30	4.01	40.7	86.42	15.39	0.0
22-Jul 21:45	2.77	53.2	86.53	15.21	0.0
22-Jul 22:00	3.09	59.5	86.48	15.20	0.0
22-Jul 22:15	4.44	58.7	89.19	14.70	0.0
23-Jul 2:00	2.44	61.1	88.26	14.70	0.0
23-Jul 2:15	3.86	63.3	86.18	14.64	0.0
23-Jul 2:30	2.70	61.8	88.81	14.42	0.0
23-Jul 2:45	3.12	71.0	88.62	14.49	0.0
23-Jul 3:00	3.42	52.6	89.49	14.17	0.0
23-Jul 3:15	3.70	46.5	89.22	14.03	0.0
23-Jul 3:30	2.83	72.3	91.55	13.85	0.0
23-Jul 3:45	2.95	66.9	92.15	13.71	0.0
23-Jul 4:00	3.26	65.5	91.54	13.71	0.0
23-Jul 4:15	3.88	64.5	91.30	13.64	0.0
23-Jul 4:30	3.54	68.8	93.22	13.52	0.0

23-Jul 4:45	3.07	56.0	93.30	13.37	0.0
23-Jul 5:00	3.24	53.3	93.81	13.43	0.0
23-Jul 5:15	2.95	48.6	93.54	13.25	0.0
23-Jul 5:30	3.50	57.8	93.66	13.26	0.1
23-Jul 5:45	2.69	68.2	94.98	13.25	1.7
23-Jul 6:00	2.57	65.8	94.14	13.34	8.2
23-Jul 6:15	3.06	58.7	94.10	13.30	30.6
23-Jul 6:30	3.41	62.7	92.36	13.64	67.5
23-Jul 6:45	3.55	42.3	92.28	14.01	119.0
23-Jul 7:00	3.79	57.3	90.99	14.40	176.9
23-Jul 7:15	3.07	43.2	87.96	15.09	234.6
23-Jul 7:30	3.29	45.1	86.55	15.83	294.7
23-Jul 7:45	1.43	51.4	82.59	16.69	365.3
23-Jul 8:00	0.00	0.0	76.81	18.43	439.7
23-Jul 8:15	0.00	0.0	77.06	18.62	468.7
23-Jul 8:30	0.00	0.0	70.47	20.51	524.5
23-Jul 8:45	0.00	0.0	68.73	21.87	583.5
23-Jul 9:00	3.76	209.9	68.93	21.99	628.8
23-Jul 9:15	3.08	215.6	66.60	22.58	678.8
23-Jul 9:30	2.20	285.8	63.87	23.53	740.0
23-Jul 9:45	6.35	296.2	63.36	23.37	773.8
23-Jul 10:00	3.79	210.0	61.33	23.93	811.9
23-Jul 10:15	3.25	248.5	58.24	24.85	837.6
23-Jul 10:30	4.89	221.1	58.30	25.23	870.1
23-Jul 10:45	6.00	232.7	52.65	26.91	895.2
23-Jul 11:00	3.30	226.5	55.21	26.60	911.5
23-Jul 11:15	3.28	175.3	50.79	27.41	914.6
23-Jul 11:30	3.76	226.1	49.42	27.71	921.4
23-Jul 11:45	10.13	281.8	49.77	27.58	942.2
23-Jul 12:00	5.48	226.6	50.60	28.11	915.4
23-Jul 12:15	8.51	278.0	50.98	27.86	1017.6
23-Jul 12:30	6.14	215.4	52.43	28.23	964.6
23-Jul 12:45	4.63	228.9	51.96	28.58	981.4
23-Jul 13:00	2.89	185.3	51.03	28.74	441.8
23-Jul 13:15	9.79	229.2	53.76	28.06	293.1
23-Jul 13:30	3.91	181.1	54.65	28.45	503.9
23-Jul 13:45	4.66	256.5	51.37	28.67	230.4
23-Jul 14:00	8.33	218.5	50.80	28.40	801.9
23-Jul 14:15	8.51	226.0	47.47	28.69	371.1
23-Jul 14:30	10.24	218.3	47.47	28.83	618.1
23-Jul 14:45	5.98	226.2	48.54	29.33	654.5
23-Jul 15:00	7.82	229.6	45.74	29.20	584.6
23-Jul 15:15	3.41	206.3	47.26	29.33	546.8
23-Jul 15:30	10.54	209.7	46.43	29.20	485.6
23-Jul 15:45	6.48	212.6	46.17	29.24	418.0
23-Jul 16:00	6.23	196.1	46.57	28.94	385.1
23-Jul 16:15	8.26	218.4	45.90	29.11	335.6
23-Jul 16:30	6.11	242.8	47.41	29.12	285.5
23-Jul 16:45	3.31	187.0	48.61	28.79	230.6
23-Jul 17:00	2.04	196.0	49.18	28.84	205.0
23-Jul 17:15	7.49	210.1	50.14	28.59	161.5
23-Jul 17:30	6.62	224.1	51.84	28.26	114.9

23-Jul 17:45	5.14	248.3	52.40	28.35	81.0
23-Jul 18:00	6.33	218.2	55.61	27.81	51.2
23-Jul 18:15	5.27	203.5	57.04	27.61	37.3
23-Jul 18:30	1.03	149.9	59.82	27.06	25.1
23-Jul 18:45	4.52	221.8	61.20	26.41	7.9
23-Jul 19:00	4.66	212.2	62.40	26.01	3.2
23-Jul 19:15	3.32	231.4	64.87	25.44	0.3
23-Jul 19:30	0.00	0.0	66.46	24.89	0.0
23-Jul 19:45	5.22	183.8	68.08	24.44	0.0
23-Jul 20:00	2.54	189.1	74.37	23.43	0.0
23-Jul 20:15	2.21	176.9	78.10	22.92	0.0
23-Jul 20:30	1.11	162.5	74.68	23.32	0.0
23-Jul 20:45	0.00	0.0	83.08	21.89	0.0
23-Jul 21:00	2.03	130.9	82.80	21.70	0.0
23-Jul 21:15	1.91	99.0	86.22	21.04	0.0
23-Jul 21:30	1.32	83.5	88.14	20.50	0.0
23-Jul 21:45	1.04	88.8	90.36	19.91	0.0
23-Jul 22:00	1.28	91.7	89.69	19.92	0.0
23-Jul 22:15	0.89	67.6	91.86	19.45	0.0
23-Jul 22:30	1.88	82.4	92.25	19.20	0.0
24-Jul 1:45	2.02	106.0	92.64	19.12	0.0
24-Jul 2:00	1.61	110.4	92.74	18.86	0.0
24-Jul 2:15	0.00	0.0	92.60	18.89	0.0
24-Jul 2:30	1.89	103.3	93.87	18.65	0.0
24-Jul 2:45	2.37	95.1	93.44	18.61	0.0
24-Jul 3:00	1.65	80.7	93.75	18.57	0.0
24-Jul 3:15	1.85	73.0	93.55	18.39	0.0
24-Jul 3:30	0.00	0.0	92.06	18.83	0.0
24-Jul 3:45	1.34	104.6	92.66	18.79	0.0
24-Jul 4:00	2.08	75.7	94.15	18.60	0.0
24-Jul 4:15	2.01	68.2	94.51	18.30	0.0
24-Jul 4:30	2.05	89.4	95.36	18.05	0.0
24-Jul 4:45	2.58	57.1	95.29	18.01	0.0
24-Jul 5:00	1.97	66.5	95.52	17.78	0.0
24-Jul 5:15	1.52	79.9	95.92	17.63	0.0
24-Jul 5:30	1.88	75.2	95.76	17.61	0.0
24-Jul 5:45	1.68	45.4	96.10	17.38	0.0
24-Jul 6:00	2.70	60.4	96.19	17.33	2.7
24-Jul 6:15	2.76	58.1	96.33	17.23	8.6
24-Jul 6:30	2.37	54.8	95.90	17.20	25.0
24-Jul 6:45	1.32	55.8	95.01	17.51	67.4
24-Jul 7:00	1.62	58.6	93.48	17.66	108.7
24-Jul 7:15	1.51	49.8	92.86	17.73	118.6
24-Jul 7:30	2.04	38.6	90.44	18.40	172.8
24-Jul 7:45	0.00	0.0	86.79	19.45	268.3
24-Jul 8:00	0.00	0.0	80.13	21.05	340.7
24-Jul 8:15	0.00	0.0	70.75	23.46	409.9
24-Jul 8:30	0.00	0.0	72.83	23.75	466.3
24-Jul 8:45	4.25	223.8	82.00	22.87	539.7
24-Jul 9:00	1.86	178.1	76.85	24.37	628.0
24-Jul 9:15	1.21	267.9	73.53	25.28	626.7
24-Jul 9:30	3.33	220.9	74.41	25.14	705.6

24-Jul 9:45	4.25	206.3	72.81	25.60	773.0
24-Jul 10:00	5.87	272.5	68.23	26.18	845.3
24-Jul 10:15	6.53	250.5	65.58	27.08	837.6
24-Jul 10:30	3.02	182.1	63.68	27.45	874.8
24-Jul 10:45	5.46	233.0	62.48	27.88	893.8
24-Jul 11:00	9.09	247.7	61.59	28.15	939.7
24-Jul 11:15	9.59	224.5	61.13	28.12	937.3
24-Jul 11:30	14.47	272.0	55.02	28.68	967.5
24-Jul 11:45	10.63	237.7	53.87	28.73	966.5
24-Jul 12:00	17.46	273.2	53.24	28.62	968.9
24-Jul 12:15	13.66	234.5	50.20	29.07	950.5
24-Jul 12:30	7.31	192.8	48.14	29.97	946.1
24-Jul 12:45	12.81	255.4	47.39	29.85	950.6
24-Jul 13:00	19.80	239.0	46.16	29.92	985.6
24-Jul 13:15	10.37	221.2	46.47	29.80	350.5
24-Jul 13:30	10.54	230.9	44.53	30.41	973.5
24-Jul 13:45	15.15	284.9	47.24	30.23	897.4
24-Jul 14:00	12.70	293.1	49.23	29.75	852.5
24-Jul 14:15	7.25	224.4	44.83	30.18	845.2
24-Jul 14:30	9.98	215.7	41.28	30.44	760.4
24-Jul 14:45	7.67	244.1	43.89	30.72	731.7
24-Jul 15:00	17.18	249.7	41.59	30.61	704.4
24-Jul 15:15	5.88	236.2	41.79	31.20	561.0
24-Jul 15:30	8.88	260.2	42.78	30.73	641.2
24-Jul 15:45	11.12	241.1	42.71	30.97	617.0
24-Jul 16:00	5.66	245.0	45.65	30.74	448.0
24-Jul 16:15	13.28	241.1	46.68	30.24	138.4
24-Jul 16:30	12.49	221.7	45.42	30.19	409.9
24-Jul 16:45	9.75	242.2	46.59	30.18	140.7
24-Jul 17:00	7.30	234.7	45.12	30.25	226.5
24-Jul 17:15	9.62	241.8	47.13	29.70	193.0
24-Jul 17:30	4.78	237.4	48.12	30.10	192.4
24-Jul 17:45	0.73	226.1	49.43	30.26	169.1
24-Jul 18:00	6.31	240.2	49.07	29.95	137.5
24-Jul 18:15	5.91	233.4	49.68	29.73	89.0
24-Jul 18:30	1.68	186.7	51.15	29.81	53.7
24-Jul 18:45	0.64	188.5	52.62	29.42	26.7
24-Jul 19:00	2.28	285.2	54.46	28.72	10.8
24-Jul 19:15	0.77	241.0	54.71	28.16	6.8
24-Jul 19:30	2.01	212.4	55.69	27.81	2.9
24-Jul 19:45	0.00	0.0	58.09	27.46	0.7
24-Jul 20:00	1.37	98.7	69.32	25.50	0.0
24-Jul 20:15	0.96	83.2	74.35	24.84	0.0
24-Jul 20:30	0.78	213.6	65.56	25.75	0.0
24-Jul 20:45	0.00	0.0	76.03	24.71	0.0
24-Jul 21:00	2.06	132.6	73.54	24.59	0.0
24-Jul 21:15	1.19	173.5	66.55	25.33	0.0
24-Jul 21:30	3.28	214.3	66.42	25.39	0.0
24-Jul 21:45	3.08	214.0	68.35	25.51	0.0
24-Jul 22:00	0.55	109.1	77.79	24.09	0.0
24-Jul 22:15	2.98	111.1	81.37	22.91	0.0
24-Jul 22:30	1.08	89.6	82.90	22.50	0.0

24-Jul	22:45	1.61	66.9	83.48	22.60	0.0
25-Jul	1:15	0.98	58.8	84.77	22.46	0.0
25-Jul	1:30	2.97	76.3	85.82	21.91	0.0
25-Jul	1:45	2.13	60.4	86.88	21.66	0.0
25-Jul	2:00	2.24	64.2	86.87	21.65	0.0
25-Jul	2:15	0.00	0.0	86.48	21.85	0.0
25-Jul	2:30	1.45	110.7	87.71	21.26	0.0
25-Jul	2:45	0.56	76.8	88.16	21.19	0.0
25-Jul	3:00	0.00	0.0	89.42	20.93	0.0
25-Jul	3:15	2.07	96.6	90.20	20.66	0.0
25-Jul	3:30	2.21	111.1	90.35	20.15	0.0
25-Jul	3:45	2.03	104.5	91.22	19.94	0.0
25-Jul	4:00	1.63	71.9	90.12	20.16	0.0
25-Jul	4:15	2.15	63.5	92.38	19.92	0.0
25-Jul	4:30	2.66	79.3	92.13	19.70	0.0
25-Jul	4:45	1.68	82.6	91.76	19.64	0.0
25-Jul	5:00	0.00	0.0	92.73	19.49	0.0
25-Jul	5:15	2.07	49.8	93.50	19.39	0.0
25-Jul	5:30	0.00	0.0	93.38	19.26	0.2
25-Jul	5:45	1.55	69.0	93.92	19.28	3.4
25-Jul	6:00	2.02	57.4	93.70	19.21	9.0
25-Jul	6:15	1.28	55.3	93.40	19.21	35.6
25-Jul	6:30	2.60	51.0	93.48	19.11	42.2
25-Jul	6:45	2.49	52.7	92.84	19.22	49.2
25-Jul	7:00	2.24	71.7	92.02	19.41	97.6
25-Jul	7:15	1.46	65.5	87.81	20.45	240.0
25-Jul	7:30	1.93	56.2	83.48	21.59	358.5
25-Jul	7:45	0.00	0.0	80.47	22.49	239.3
25-Jul	8:00	0.00	0.0	76.73	23.51	384.7
25-Jul	8:15	0.00	0.0	72.73	24.75	609.3
25-Jul	8:30	3.85	213.3	76.28	24.81	583.4
25-Jul	8:45	4.63	223.8	76.70	24.94	329.7
31-Jul	5:45	5.19	71.6	95.99	11.28	0.2
31-Jul	6:00	6.01	82.6	95.82	10.99	2.6
31-Jul	6:15	5.32	69.1	95.72	10.96	9.4
31-Jul	6:30	7.78	77.9	94.84	10.89	50.4
31-Jul	6:45	7.78	76.7	93.88	11.07	113.7
31-Jul	7:00	5.38	64.7	92.55	11.65	184.5
31-Jul	7:15	6.06	72.8	91.89	11.80	239.5
31-Jul	7:30	5.51	73.0	89.29	12.51	306.9
31-Jul	7:45	4.23	50.8	86.87	13.47	379.4
31-Jul	8:00	2.75	55.5	84.22	14.52	436.6
31-Jul	8:15	4.68	51.1	83.35	15.28	494.9
31-Jul	8:30	2.66	52.4	79.36	16.87	564.3
31-Jul	8:45	0.00	0.0	66.17	20.58	631.3
31-Jul	9:00	1.37	176.7	68.86	20.74	695.1
31-Jul	9:15	2.12	142.0	68.02	21.38	772.8
31-Jul	9:30	0.00	0.0	59.60	23.35	831.2
31-Jul	9:45	3.80	70.6	59.43	23.04	219.8
31-Jul	10:00	2.91	65.7	57.56	23.11	728.8
31-Jul	10:15	3.29	91.6	57.47	23.18	945.5
31-Jul	10:30	0.00	0.0	48.76	24.73	1095.8

31-Jul 10:45	2.86	24.3	49.96	24.45	1108.9
31-Jul 11:00	0.26	343.2	50.78	24.11	255.8
31-Jul 11:15	2.28	186.9	40.00	24.97	1084.4
31-Jul 11:30	1.11	225.7	46.17	24.32	276.6
31-Jul 11:45	1.75	61.8	42.86	25.32	1105.4
31-Jul 12:00	0.08	193.7	38.48	25.60	1083.4
31-Jul 12:15	7.66	28.0	39.68	25.53	543.4
31-Jul 12:30	5.67	50.2	43.15	25.17	288.3
31-Jul 12:45	4.05	233.9	44.09	25.30	278.5
31-Jul 13:00	0.11	20.8	38.58	26.52	533.1
31-Jul 13:15	3.39	93.3	40.29	25.58	391.9
31-Jul 13:30	8.07	173.8	54.13	24.56	950.8
31-Jul 13:45	9.74	151.3	55.21	24.47	932.7
31-Jul 14:00	10.04	174.8	54.69	24.30	858.2
31-Jul 14:15	6.97	104.1	50.29	25.17	804.8
31-Jul 14:30	1.11	125.2	50.12	24.93	760.2
31-Jul 14:45	4.97	143.1	54.63	24.27	157.3
31-Jul 15:00	10.26	226.1	56.46	24.60	172.3
31-Jul 15:15	0.88	122.0	61.31	23.86	135.6
31-Jul 15:30	5.40	233.9	63.04	23.11	112.7
31-Jul 15:45	4.98	199.4	67.44	23.01	98.5
31-Jul 16:00	4.84	220.3	70.11	22.56	49.5
31-Jul 16:15	6.18	231.2	71.50	22.01	97.4
31-Jul 16:30	7.05	246.7	72.46	21.77	115.4
31-Jul 16:45	8.07	243.8	72.20	21.51	121.5
31-Jul 17:00	3.31	197.9	73.94	21.31	104.1
31-Jul 17:15	5.88	233.0	74.68	21.00	40.2
31-Jul 17:30	4.49	254.9	75.95	20.54	28.1
31-Jul 17:45	2.04	231.1	74.92	20.79	18.9
31-Jul 18:00	0.00	0.0	79.12	20.07	8.5
31-Jul 18:15	1.07	114.6	81.01	19.25	1.8
31-Jul 18:30	1.61	90.6	83.29	18.62	0.2
31-Jul 18:45	3.67	94.7	86.33	17.91	0.0
31-Jul 19:00	2.45	78.7	89.23	17.37	0.0
31-Jul 19:15	4.99	76.0	91.94	16.98	0.0
31-Jul 19:30	5.17	78.0	92.30	16.46	0.0
31-Jul 19:45	4.97	79.4	92.77	16.09	0.0
31-Jul 20:00	3.39	82.7	91.91	15.92	0.0
31-Jul 20:15	4.30	80.5	93.46	15.47	0.0
31-Jul 20:30	6.28	73.6	94.54	15.30	0.0
31-Jul 20:45	4.29	81.7	94.90	15.06	0.0
31-Jul 21:00	3.76	92.7	93.93	14.71	0.0
31-Jul 21:15	1.12	147.4	92.62	14.73	0.0
31-Jul 21:30	0.00	0.0	88.59	14.65	0.0
31-Jul 21:45	2.62	83.7	93.93	14.13	0.0
31-Jul 22:00	3.62	68.2	95.54	14.12	0.0
1-Aug 1:45	4.15	76.5	95.67	13.69	0.0
1-Aug 2:00	2.99	75.3	95.77	13.79	0.0
1-Aug 2:15	6.21	75.2	96.20	13.52	0.0
1-Aug 2:30	2.81	64.8	95.11	13.39	0.0
1-Aug 2:45	3.28	72.4	95.74	13.17	0.0
1-Aug 3:00	5.38	74.0	96.11	13.05	0.0

1-Aug	3:15	4.41	73.4	96.14	12.94	0.0
1-Aug	3:30	4.60	73.7	95.13	13.06	0.0
1-Aug	3:45	5.99	72.6	96.15	12.89	0.0
1-Aug	4:00	6.29	75.5	95.60	12.72	0.0
1-Aug	4:15	5.50	57.3	95.58	12.48	0.0
1-Aug	4:30	6.23	77.3	96.08	12.34	0.0
1-Aug	4:45	7.03	76.5	95.94	12.24	0.0
1-Aug	5:00	4.91	59.3	96.25	12.28	0.0
1-Aug	5:15	7.52	74.9	95.68	12.20	0.0
1-Aug	5:30	5.02	74.8	96.53	12.03	0.0
1-Aug	5:45	4.71	73.6	97.22	11.89	0.6
1-Aug	6:00	5.22	52.6	96.90	11.75	5.1
1-Aug	6:15	5.89	69.5	96.61	11.53	23.1
1-Aug	6:30	6.76	71.6	95.52	11.74	79.9
1-Aug	6:45	5.61	55.5	94.50	12.01	142.2
1-Aug	7:00	5.49	72.2	93.58	12.51	208.8
1-Aug	7:15	5.80	74.1	91.95	12.84	267.2
1-Aug	7:30	5.87	76.5	91.17	13.50	332.0
1-Aug	7:45	6.28	74.8	88.41	14.40	400.0
1-Aug	8:00	2.42	59.6	86.28	15.40	460.4
1-Aug	8:15	2.11	79.6	80.96	16.96	526.5
1-Aug	8:30	2.19	73.0	80.47	17.49	548.0
1-Aug	8:45	1.49	71.5	76.98	18.94	608.6
1-Aug	9:00	0.00	0.0	66.35	22.00	666.3
1-Aug	10:30	2.56	223.8	67.99	23.86	853.0 Replaced unit
1-Aug	11:00	0.57	169.3	57.95	25.42	895.2
1-Aug	11:30	4.37	302.3	53.67	25.56	1011.3
1-Aug	12:00	3.89	208.2	39.10	27.04	1027.5
1-Aug	12:30	3.44	286.0	42.79	26.53	977.4
1-Aug	13:00	3.50	237.9	39.87	26.90	1022.3
1-Aug	13:30	9.26	300.6	36.48	27.12	961.8
1-Aug	14:00	6.11	228.9	34.39	28.01	935.0
1-Aug	14:30	10.35	298.1	34.84	27.47	886.3
1-Aug	15:00	6.11	304.5	34.87	27.56	741.1
1-Aug	15:30	9.23	278.9	37.67	28.34	730.0
1-Aug	16:00	3.70	253.4	41.65	27.60	184.9
1-Aug	16:30	6.85	281.9	40.35	27.67	527.3
1-Aug	17:00	4.98	176.7	39.14	28.58	348.4
1-Aug	17:30	3.54	272.3	42.78	27.61	333.7
1-Aug	18:00	7.38	238.2	43.88	27.37	240.3
1-Aug	18:30	2.85	239.3	46.07	27.03	167.0
1-Aug	19:00	6.17	215.2	49.38	26.46	69.8
1-Aug	19:30	3.73	244.5	52.87	26.08	37.1
1-Aug	20:00	0.47	275.1	55.43	25.34	10.5
1-Aug	20:30	0.00	0.0	59.82	24.17	0.9
1-Aug	21:00	3.08	83.3	73.30	21.91	0.0
1-Aug	21:30	2.20	81.1	79.98	20.27	0.0
1-Aug	22:00	1.51	84.2	79.76	19.60	0.0
1-Aug	22:30	1.98	57.1	85.18	18.73	0.0
1-Aug	23:00	3.94	54.3	86.76	18.16	0.0
1-Aug	23:30	2.78	69.4	88.24	17.49	0.0
2-Aug	0:00	3.26	66.4	89.84	17.03	0.0

2-Aug 0:30	2.85	78.9	90.64	16.72	0.0
2-Aug 1:00	2.70	60.3	91.56	16.20	0.0
2-Aug 1:30	3.72	46.1	92.61	15.76	0.0
2-Aug 2:00	2.40	67.1	92.89	15.51	0.0
2-Aug 2:30	2.25	71.5	93.29	15.24	0.0
2-Aug 3:00	2.45	69.6	92.25	15.13	0.0
2-Aug 3:30	2.30	68.1	93.49	14.95	0.0
2-Aug 4:00	3.76	71.5	93.76	14.68	0.0
2-Aug 4:30	2.97	66.5	94.25	14.24	0.0
2-Aug 5:00	3.92	43.3	95.11	14.19	0.0
2-Aug 5:30	3.78	45.5	95.57	14.05	0.0
2-Aug 6:00	4.18	64.0	95.71	13.69	3.5
2-Aug 6:30	4.45	47.5	94.84	13.56	62.1
2-Aug 7:00	3.80	49.5	91.87	14.07	163.3
2-Aug 7:30	3.49	50.5	88.77	14.98	196.8
2-Aug 8:00	1.68	69.4	84.07	16.48	363.0
2-Aug 8:30	2.18	54.4	78.05	18.41	472.4
2-Aug 9:00	1.50	191.6	71.92	20.68	581.8
2-Aug 9:30	0.53	155.6	65.64	22.43	669.2
2-Aug 10:00	6.46	238.4	62.76	23.47	775.6
2-Aug 10:30	5.86	211.8	59.06	24.76	838.1
2-Aug 11:00	2.08	181.3	55.13	25.66	879.5
2-Aug 11:30	11.82	296.3	52.12	25.69	897.3
2-Aug 12:00	4.20	259.6	51.21	26.32	922.4
2-Aug 12:30	9.28	301.2	46.24	26.91	924.7
2-Aug 13:00	8.39	278.5	40.10	27.60	930.9
2-Aug 13:30	7.99	258.9	37.22	28.15	923.2
2-Aug 14:00	9.05	220.2	33.74	28.52	891.7
2-Aug 14:30	7.44	253.4	35.30	28.17	781.2
2-Aug 15:00	14.12	246.0	33.46	28.78	782.0
2-Aug 15:30	7.48	221.5	37.20	28.70	700.0
2-Aug 16:00	6.63	201.3	37.80	29.40	704.1
2-Aug 16:30	7.99	204.1	39.93	29.30	590.7
2-Aug 17:00	7.87	273.2	38.74	28.57	488.4
2-Aug 17:30	11.80	225.7	39.13	28.18	324.2
2-Aug 18:00	8.73	218.6	36.81	28.19	226.6
2-Aug 18:30	8.45	224.4	36.60	27.98	152.6
2-Aug 19:00	4.53	221.3	41.93	27.90	74.1
2-Aug 19:30	2.48	212.5	45.42	26.78	40.3
2-Aug 20:00	0.00	0.0	48.42	25.68	11.5
2-Aug 20:30	0.00	0.0	52.22	24.67	0.7
2-Aug 21:00	1.19	120.5	63.36	22.78	0.0
2-Aug 21:30	1.98	95.5	67.50	21.86	0.0
2-Aug 22:00	1.54	90.7	73.03	21.05	0.0
2-Aug 22:30	1.56	109.2	72.75	20.60	0.0
2-Aug 23:00	1.15	107.9	77.03	19.97	0.0
2-Aug 23:30	0.00	0.0	76.08	19.86	0.0
3-Aug 0:00	0.00	0.0	75.59	20.03	0.0
3-Aug 0:30	0.58	121.4	65.21	20.63	0.0
3-Aug 1:00	2.64	242.5	62.42	20.86	0.0
3-Aug 1:30	2.61	255.6	63.59	20.76	0.0
3-Aug 2:00	1.47	235.1	65.26	20.62	0.0

3-Aug 2:30	2.84	184.7	70.44	19.92	0.0
3-Aug 3:00	0.00	0.0	76.21	19.04	0.0
3-Aug 3:30	1.13	76.6	78.99	18.56	0.0
3-Aug 4:00	0.54	141.2	78.44	18.67	0.0
3-Aug 4:30	1.46	75.6	83.46	17.88	0.0
3-Aug 5:00	1.55	106.8	81.17	18.24	0.0
3-Aug 5:30	2.16	122.4	84.75	17.49	0.0
3-Aug 6:00	0.67	72.4	84.74	17.71	1.5
3-Aug 6:30	1.59	80.7	84.65	17.78	17.6
3-Aug 7:00	0.64	79.3	83.97	18.13	61.9
3-Aug 7:30	0.00	0.0	81.78	18.93	85.0
3-Aug 8:00	0.00	0.0	78.14	19.55	126.9
3-Aug 8:30	0.00	0.0	76.34	20.23	173.4
3-Aug 9:00	1.49	192.7	74.24	21.18	303.8
3-Aug 9:30	5.87	227.4	71.76	21.85	240.3
3-Aug 10:00	2.57	216.7	70.74	22.19	602.9
3-Aug 10:30	6.14	222.1	65.10	23.74	821.1
3-Aug 11:00	4.61	216.6	66.58	24.22	839.4
3-Aug 11:30	1.90	193.2	62.33	25.73	840.3
3-Aug 12:00	2.92	171.5	64.48	25.93	517.1
3-Aug 12:30	6.44	268.6	63.13	26.85	918.4
3-Aug 13:00	11.80	260.4	63.17	27.04	712.8
3-Aug 13:30	4.37	225.0	61.44	27.79	565.7
3-Aug 14:00	9.02	219.8	65.17	27.23	318.2
3-Aug 14:30	4.37	216.5	64.98	27.54	241.0
3-Aug 15:00	6.65	218.7	63.42	27.65	762.1
3-Aug 15:30	12.72	228.9	67.03	26.82	110.9
3-Aug 16:00	5.13	205.6	68.42	26.61	141.6
3-Aug 16:30	8.31	323.7	84.52	22.45	40.6
3-Aug 17:00	1.35	26.6	88.94	21.62	40.3
3-Aug 17:30	4.65	31.9	93.45	21.18	11.2
3-Aug 18:00	4.28	125.2	86.12	20.47	8.5
3-Aug 18:30	1.42	342.7	92.90	20.12	11.6
3-Aug 19:00	3.60	37.0	94.65	20.08	18.5
3-Aug 19:30	0.00	0.0	95.37	20.16	8.8
3-Aug 20:00	3.22	76.7	95.61	19.93	2.8
3-Aug 20:30	4.15	69.8	95.27	20.08	0.0
3-Aug 21:00	2.04	15.7	95.13	20.14	0.0
3-Aug 21:30	0.00	0.0	96.48	20.04	0.0
3-Aug 22:00	3.61	264.0	94.49	19.67	0.0
3-Aug 22:30	2.84	227.5	96.44	19.33	0.0
3-Aug 23:00	1.72	240.3	96.48	19.16	0.0
3-Aug 23:30	0.00	0.0	97.02	19.31	0.0
4-Aug 0:00	2.48	284.0	96.91	19.32	0.0
4-Aug 0:30	0.00	0.0	97.05	19.29	0.0
4-Aug 1:00	2.17	321.3	96.63	19.20	0.0
4-Aug 1:30	3.35	97.1	96.85	19.24	0.0
4-Aug 2:00	2.18	257.9	96.61	19.10	0.0
4-Aug 2:30	2.32	220.2	97.29	18.86	0.0
4-Aug 3:00	1.74	226.4	97.49	18.77	0.0
4-Aug 3:30	0.00	0.0	97.65	18.77	0.0
4-Aug 4:00	0.00	0.0	97.61	18.89	0.0

4-Aug 4:30	1.24	43.1	97.28	19.02	0.0
4-Aug 5:00	0.08	72.4	97.34	18.94	0.0
4-Aug 5:30	2.20	232.0	97.33	18.68	0.0
4-Aug 6:00	0.00	0.0	97.69	18.61	0.3
4-Aug 6:30	0.00	0.0	97.85	18.72	2.1
4-Aug 7:00	3.23	237.8	97.84	18.67	18.9
4-Aug 7:30	4.01	227.4	97.84	18.82	47.4
4-Aug 8:00	1.16	221.0	98.05	19.09	26.2
4-Aug 8:30	1.72	339.6	98.01	19.40	27.8
4-Aug 9:00	0.00	0.0	97.83	19.73	95.8
4-Aug 9:30	0.00	0.0	97.27	20.30	227.9
4-Aug 10:00	2.78	270.0	90.67	21.25	423.5
4-Aug 10:30	5.80	212.1	89.21	21.82	229.6
4-Aug 11:00	0.96	330.4	80.80	23.84	496.9
4-Aug 11:30	0.68	172.7	76.44	24.40	772.6
4-Aug 12:00	2.39	351.6	74.97	24.77	908.7
4-Aug 12:30	0.19	124.3	68.63	25.87	760.9
4-Aug 13:00	4.89	292.7	67.92	25.58	964.7
4-Aug 13:30	4.38	193.8	68.36	25.96	329.5
4-Aug 14:00	6.33	258.1	63.84	26.80	911.3
4-Aug 14:30	5.88	274.1	58.69	27.34	187.2
4-Aug 15:00	2.92	154.6	66.43	26.27	815.2
4-Aug 15:30	8.93	211.0	65.84	26.31	202.4
4-Aug 16:00	8.20	103.1	76.14	24.78	50.2
4-Aug 16:30	5.33	136.1	85.74	22.94	542.9
4-Aug 17:00	2.24	126.0	81.91	23.94	431.6
4-Aug 17:30	4.80	265.4	82.00	24.70	118.9
4-Aug 18:00	3.56	255.8	83.86	24.64	133.4
4-Aug 18:30	2.95	248.4	86.77	24.54	48.8
4-Aug 19:00	2.87	249.3	91.13	23.75	58.3
4-Aug 19:30	4.12	108.2	88.30	23.57	12.4
4-Aug 20:00	4.36	238.6	89.27	22.75	14.3
4-Aug 20:30	2.21	205.7	92.28	21.33	0.8
4-Aug 21:00	0.00	0.0	94.08	21.20	0.0
4-Aug 21:30	3.70	230.2	95.22	20.39	0.0
4-Aug 22:00	0.00	0.0	96.68	20.41	0.0
4-Aug 22:30	0.00	0.0	95.79	20.10	0.0
4-Aug 23:00	1.76	8.3	96.34	19.79	0.0
4-Aug 23:30	0.00	0.0	96.69	19.37	0.0
5-Aug 0:00	3.54	93.3	97.26	19.20	0.0
5-Aug 0:30	2.64	76.4	97.98	18.66	0.0
5-Aug 1:00	3.88	105.5	98.14	18.29	0.0
5-Aug 1:30	1.95	94.2	98.31	18.19	0.0
5-Aug 2:00	4.02	82.1	98.24	17.52	0.0
5-Aug 2:30	2.47	97.7	98.39	17.24	0.0
5-Aug 3:00	1.26	63.0	98.45	17.19	0.0
5-Aug 3:30	2.70	114.8	98.45	16.89	0.0
5-Aug 4:00	4.37	99.7	98.60	16.69	0.0
5-Aug 4:30	3.35	100.2	98.59	16.74	0.0
5-Aug 5:00	5.73	76.8	98.63	16.59	0.0
5-Aug 5:30	4.27	72.6	98.67	16.35	0.0
5-Aug 6:00	3.39	103.1	98.71	16.07	1.3

5-Aug 6:30	5.87	79.2	98.72	16.27	26.4
5-Aug 7:00	4.08	83.1	98.68	16.57	50.2
5-Aug 7:30	2.58	68.4	98.59	17.11	97.7
5-Aug 8:00	1.50	37.0	98.49	17.66	140.6
5-Aug 8:30	2.82	67.5	97.94	18.74	364.0
5-Aug 9:00	6.35	78.8	97.06	19.05	589.8
5-Aug 9:30	4.68	102.0	93.04	20.85	589.3
5-Aug 10:00	6.54	78.5	78.72	23.00	682.9
5-Aug 10:30	5.07	50.5	68.44	25.03	814.4
5-Aug 11:00	5.02	101.2	64.11	25.34	868.2
5-Aug 11:30	3.60	66.5	59.49	26.62	902.1
5-Aug 12:00	3.43	342.6	53.67	27.74	966.1
5-Aug 12:30	2.01	75.6	48.80	28.42	1005.9
5-Aug 13:00	1.97	212.9	50.73	28.24	1108.5
5-Aug 13:30	1.54	165.1	44.90	29.03	1036.4
5-Aug 14:00	6.37	317.9	45.10	29.33	210.0
5-Aug 14:30	2.19	297.8	42.95	29.46	892.8
5-Aug 15:00	1.70	64.3	38.44	30.18	875.6
5-Aug 15:30	2.65	54.3	35.45	30.11	745.2
5-Aug 16:00	3.83	308.5	34.69	30.93	627.4
5-Aug 16:30	2.38	233.9	37.27	29.67	150.9
5-Aug 17:00	2.04	311.5	34.30	30.89	473.6
5-Aug 17:30	3.39	293.8	38.21	30.15	358.2
5-Aug 18:00	3.01	303.3	37.40	29.92	218.1
5-Aug 18:30	2.98	231.0	47.32	28.91	183.2
5-Aug 19:00	4.65	214.7	57.88	27.93	90.6
5-Aug 19:30	3.08	205.8	65.08	27.27	46.5
5-Aug 20:00	3.08	209.1	69.65	26.47	10.5
5-Aug 20:30	2.25	106.2	77.47	24.81	0.9
5-Aug 21:00	2.54	72.2	85.02	23.58	0.0
5-Aug 21:30	2.22	58.7	85.99	23.08	0.0
5-Aug 22:00	3.01	61.2	88.26	22.56	0.0
5-Aug 22:30	2.81	96.4	89.68	22.17	0.0
5-Aug 23:00	2.69	60.9	91.56	21.47	0.0
5-Aug 23:30	3.30	62.5	93.06	21.11	0.0
6-Aug 0:00	4.14	60.8	93.90	20.54	0.0
6-Aug 0:30	3.19	58.3	94.32	20.29	0.0
6-Aug 1:00	2.82	80.2	93.95	20.08	0.0
6-Aug 1:30	3.32	66.1	94.93	19.74	0.0
6-Aug 2:00	3.27	85.5	94.57	19.30	0.0
6-Aug 2:30	3.07	61.0	95.81	19.15	0.0
6-Aug 3:00	2.94	69.1	96.75	18.76	0.0
6-Aug 3:30	3.75	60.3	97.03	18.44	0.0
6-Aug 4:00	5.23	71.8	97.26	18.11	0.0
6-Aug 4:30	3.80	60.3	97.30	17.87	0.0
6-Aug 5:00	4.77	51.0	97.52	17.54	0.0
6-Aug 5:30	4.18	68.5	97.51	17.37	0.0
6-Aug 6:00	4.38	69.1	97.43	17.10	2.6
6-Aug 6:30	6.16	70.0	97.81	16.84	18.9
6-Aug 7:00	5.97	70.7	98.06	16.81	69.4
6-Aug 7:30	3.59	58.1	97.79	17.35	220.2
6-Aug 8:00	3.55	50.6	91.32	18.66	351.5

6-Aug 8:30	3.17	55.5	86.25	20.46	461.5
6-Aug 9:00	0.00	0.0	75.26	23.53	569.1
6-Aug 9:30	3.61	181.5	76.94	24.17	660.2
6-Aug 10:00	3.70	216.4	74.00	25.45	738.6
6-Aug 10:30	4.77	252.4	66.59	27.49	782.6
6-Aug 11:00	6.84	231.2	61.62	28.10	860.8
6-Aug 11:30	7.88	262.4	52.37	28.09	822.9
6-Aug 12:00	2.66	163.5	50.80	29.53	960.5
6-Aug 12:30	5.48	283.1	43.74	29.30	1024.5
6-Aug 13:00	5.79	221.1	43.87	30.26	986.4
6-Aug 13:30	9.75	280.3	42.99	30.22	966.7
6-Aug 14:00	6.71	223.7	33.63	30.61	976.1
6-Aug 14:30	4.90	226.3	39.39	29.93	578.9
6-Aug 15:00	7.53	236.7	39.96	30.60	828.1
6-Aug 15:30	4.13	207.6	37.31	31.30	692.6
6-Aug 16:00	3.85	180.2	37.43	31.34	552.6
6-Aug 16:30	5.86	274.8	36.60	30.99	526.1
6-Aug 17:00	5.78	233.4	38.17	31.27	404.1
6-Aug 17:30	5.64	234.2	44.16	30.46	284.1
6-Aug 18:00	5.06	240.7	46.96	30.07	186.3
6-Aug 18:30	3.50	234.8	51.88	29.81	134.4
6-Aug 19:00	1.25	223.8	55.67	29.48	74.4
6-Aug 19:30	2.39	244.3	62.90	28.53	39.9
6-Aug 20:00	0.00	0.0	64.08	27.71	11.7
6-Aug 20:30	0.00	0.0	74.61	25.84	0.6
6-Aug 21:00	0.38	67.3	80.66	24.35	0.0
6-Aug 21:30	2.78	81.4	83.62	23.47	0.0
6-Aug 22:00	3.34	46.3	88.51	22.58	0.0
6-Aug 22:30	2.00	80.4	88.58	21.93	0.0
6-Aug 23:00	2.50	88.2	90.50	21.51	0.0
6-Aug 23:30	3.22	91.0	90.27	21.12	0.0
7-Aug 0:00	2.78	61.8	91.80	20.76	0.0
7-Aug 0:30	2.35	75.0	93.95	20.23	0.0
7-Aug 1:00	2.54	59.1	92.23	20.09	0.0
7-Aug 1:30	3.36	74.3	93.76	19.74	0.0
7-Aug 2:00	1.71	65.8	93.40	19.95	0.0
7-Aug 2:30	2.07	73.9	93.32	19.91	0.0
7-Aug 3:00	2.13	70.8	93.74	19.76	0.0
7-Aug 3:30	2.22	91.9	94.13	19.65	0.0
7-Aug 4:00	2.41	91.4	94.40	19.37	0.0
7-Aug 4:30	1.66	96.9	94.52	19.19	0.0
7-Aug 5:00	0.00	0.0	94.41	19.08	0.0
7-Aug 5:30	1.62	88.8	94.04	19.30	0.0
7-Aug 6:00	0.00	0.0	94.38	19.14	1.8
7-Aug 6:30	2.01	96.5	94.62	18.92	41.8
7-Aug 7:00	0.84	83.6	92.19	19.43	142.9
7-Aug 7:30	2.55	237.0	84.58	21.16	218.8
7-Aug 8:00	4.82	222.0	78.79	22.21	353.3
7-Aug 8:30	4.20	211.4	74.58	23.10	450.2
7-Aug 9:00	1.57	242.1	70.59	24.24	428.2
7-Aug 9:30	8.76	270.3	66.84	24.29	380.4
7-Aug 10:00	6.09	251.9	64.03	25.33	713.2

7-Aug 10:30	4.01	266.1	63.34	26.01	538.6
7-Aug 11:00	8.33	254.4	59.03	27.21	721.5
7-Aug 11:30	10.07	257.3	58.35	27.53	896.9
7-Aug 12:00	10.30	279.8	57.32	27.95	1001.4
7-Aug 12:30	6.98	202.4	58.28	27.84	726.6
7-Aug 13:00	3.59	176.1	50.98	29.91	920.4
7-Aug 13:30	6.92	213.9	47.80	30.29	881.5
7-Aug 14:00	9.41	227.6	44.37	30.95	859.7
7-Aug 14:30	11.51	216.5	42.42	31.33	789.6
7-Aug 15:00	9.99	284.0	40.83	31.74	727.8
7-Aug 15:30	3.18	212.3	40.94	32.20	662.4
7-Aug 16:00	4.60	227.6	40.65	32.55	610.0
7-Aug 16:30	6.38	253.6	42.85	32.25	551.5
7-Aug 17:00	5.54	243.2	47.38	31.78	172.8
7-Aug 17:30	3.85	228.5	47.97	32.06	222.2
7-Aug 18:00	4.25	251.9	51.05	31.81	146.1
7-Aug 18:30	4.51	253.5	55.34	30.78	101.8
7-Aug 19:00	3.94	231.0	59.57	30.50	141.5
7-Aug 19:30	3.14	234.7	62.07	29.97	25.8
7-Aug 20:00	2.45	217.6	63.87	29.08	3.5
7-Aug 20:30	5.06	83.5	70.02	28.17	0.1
7-Aug 21:00	4.36	64.4	69.50	27.79	0.0
7-Aug 21:30	6.48	46.7	78.20	25.97	0.0
7-Aug 22:00	4.51	74.3	80.48	25.47	0.0
7-Aug 22:30	3.04	91.7	84.09	24.94	0.0
7-Aug 23:00	3.00	49.2	88.72	24.26	0.0
7-Aug 23:30	2.14	62.3	89.51	23.79	0.0
8-Aug 0:00	1.73	52.1	91.00	23.46	0.0
8-Aug 0:30	0.00	0.0	92.37	23.00	0.0
8-Aug 1:00	0.25	106.4	91.32	22.78	0.0
8-Aug 1:30	0.37	108.3	93.22	22.33	0.0
8-Aug 2:00	2.36	22.5	93.31	22.09	0.0
8-Aug 2:30	2.61	84.1	92.37	21.89	0.0
8-Aug 3:00	1.90	58.5	93.66	21.71	0.0
8-Aug 3:30	1.82	65.9	94.33	21.54	0.0
8-Aug 4:00	2.68	56.8	94.95	21.31	0.0
8-Aug 4:30	2.08	57.9	94.39	21.41	0.0
8-Aug 5:00	0.00	0.0	93.49	21.69	0.0
8-Aug 5:30	2.13	70.1	94.59	21.32	0.0
8-Aug 6:00	0.00	0.0	95.17	21.08	1.3
8-Aug 6:30	1.80	94.8	94.75	21.16	17.8
8-Aug 7:00	0.00	0.0	93.22	21.38	70.8
8-Aug 7:30	1.51	71.9	89.35	22.32	203.5
8-Aug 8:00	0.00	0.0	83.23	23.74	350.5
8-Aug 8:30	2.04	256.9	80.12	24.76	432.6
8-Aug 9:00	3.08	254.1	77.34	25.72	563.8
8-Aug 9:30	0.37	303.2	70.47	27.40	720.3
8-Aug 10:00	6.28	340.6	65.74	27.53	552.2
8-Aug 10:30	1.53	311.6	55.19	28.81	838.7
8-Aug 11:00	3.87	339.3	53.48	29.12	883.9
8-Aug 11:30	4.30	53.0	52.22	29.27	986.0
8-Aug 12:00	6.80	347.0	52.28	29.07	181.9

8-Aug 12:30	5.40	290.7	47.31	29.25	969.6
8-Aug 13:00	8.47	343.9	45.74	30.21	929.4
8-Aug 13:30	7.21	307.9	42.05	30.72	924.4
8-Aug 14:00	8.55	319.2	41.66	30.83	663.3
8-Aug 14:30	6.12	329.1	38.80	31.16	872.2
8-Aug 15:00	6.32	289.8	37.10	31.93	799.4
8-Aug 15:30	6.29	27.6	37.02	32.48	755.1
8-Aug 16:00	5.48	65.2	41.16	31.30	547.6
8-Aug 16:30	5.76	40.2	36.41	31.87	503.9
8-Aug 17:00	3.40	45.6	35.05	32.28	412.2
8-Aug 17:30	0.00	0.0	35.01	32.68	251.6
8-Aug 18:00	1.73	18.4	38.27	32.10	203.2
8-Aug 18:30	3.33	5.5	40.87	31.81	136.5
8-Aug 19:00	0.00	0.0	46.23	31.10	72.7
8-Aug 19:30	1.90	107.0	61.57	28.98	29.9
8-Aug 20:00	0.00	0.0	68.93	28.06	7.5
8-Aug 20:30	3.58	45.6	76.46	26.11	0.4
8-Aug 21:00	3.82	52.4	80.06	24.71	0.0
8-Aug 21:30	3.11	56.2	82.74	23.80	0.0
8-Aug 22:00	3.52	83.9	83.93	23.02	0.0
8-Aug 22:30	3.29	61.2	88.00	22.32	0.0
8-Aug 23:00	4.68	69.6	88.87	21.65	0.0
8-Aug 23:30	5.33	60.9	90.79	21.20	0.0
9-Aug 0:00	4.19	65.1	92.10	20.65	0.0
9-Aug 0:30	5.13	74.3	93.42	20.31	0.0
9-Aug 1:00	7.34	75.3	93.79	19.98	0.0
9-Aug 1:30	3.29	65.2	94.38	19.57	0.0
9-Aug 2:00	5.51	81.4	94.53	19.35	0.0
9-Aug 2:30	3.61	80.3	94.72	18.95	0.0
9-Aug 3:00	3.25	60.9	95.23	18.56	0.0
9-Aug 3:30	4.15	83.3	94.50	18.15	0.0
9-Aug 4:00	4.00	49.6	94.91	18.16	0.0
9-Aug 4:30	3.16	62.4	95.14	17.76	0.0
9-Aug 5:00	4.74	73.8	95.33	17.47	0.0
9-Aug 5:30	3.46	63.2	94.93	17.52	0.0
9-Aug 6:00	3.53	63.9	94.73	17.40	1.1
9-Aug 6:30	3.30	62.4	94.70	17.34	49.0
9-Aug 7:00	3.07	56.9	91.23	18.03	159.1
9-Aug 7:30	2.62	53.5	88.16	18.98	241.3
9-Aug 8:00	1.99	53.5	83.32	20.42	313.7
9-Aug 8:30	1.41	96.0	78.63	21.77	475.4
9-Aug 9:00	3.48	217.5	69.12	24.54	560.4
9-Aug 9:30	3.51	209.5	66.57	25.47	519.6
9-Aug 10:00	2.67	175.3	65.83	26.56	725.7
9-Aug 10:30	6.68	205.3	61.47	28.25	798.2
9-Aug 11:00	4.62	219.6	58.49	29.34	834.4
9-Aug 11:30	7.24	221.2	55.95	29.94	872.6
9-Aug 12:00	10.14	312.6	50.78	30.51	920.2
9-Aug 12:30	7.47	295.7	47.70	31.23	928.8
9-Aug 13:00	6.38	286.8	41.44	32.16	930.5
9-Aug 13:30	9.46	280.8	42.17	32.19	912.7
9-Aug 14:00	10.61	234.7	40.32	32.91	880.3

9-Aug 14:30	9.36	234.7	35.55	33.05	836.8
9-Aug 15:00	5.39	244.5	38.55	33.24	767.3
9-Aug 15:30	6.98	236.9	36.22	33.22	706.3
9-Aug 16:00	7.68	221.7	36.87	33.33	198.5
9-Aug 16:30	4.86	228.5	40.59	32.50	319.4
9-Aug 17:00	8.40	227.5	43.29	32.61	403.5
9-Aug 17:30	9.94	218.0	41.42	32.84	309.8
9-Aug 18:00	4.99	223.6	43.24	32.74	204.5
9-Aug 18:30	6.66	217.0	49.79	31.77	120.5
9-Aug 19:00	2.43	220.7	53.94	31.17	67.4
9-Aug 19:30	2.88	178.4	58.58	30.48	17.5
9-Aug 20:00	1.20	212.7	62.58	29.28	4.2
9-Aug 20:30	2.86	220.3	63.32	28.67	0.0
9-Aug 21:00	5.17	210.7	61.16	28.70	0.0
9-Aug 21:30	4.18	200.2	63.33	28.17	0.0
9-Aug 22:00	1.96	172.0	64.70	27.88	0.0
9-Aug 22:30	2.72	218.5	68.41	27.21	0.0
9-Aug 23:00	2.05	210.6	76.44	25.71	0.0
9-Aug 23:30	1.92	144.2	80.49	25.00	0.0
10-Aug 0:00	1.46	128.0	82.45	24.78	0.0
10-Aug 0:30	2.20	202.1	75.46	25.34	0.0
10-Aug 1:00	0.00	0.0	79.68	25.06	0.0
10-Aug 1:30	1.55	87.7	83.18	24.26	0.0
10-Aug 2:00	0.86	50.0	87.24	23.06	0.0
10-Aug 2:30	2.76	79.9	89.80	22.49	0.0
10-Aug 3:00	2.05	65.4	90.59	22.10	0.0
10-Aug 3:30	1.75	73.2	91.20	21.84	0.0
10-Aug 4:00	1.73	91.3	92.90	21.29	0.0
10-Aug 4:30	2.84	70.6	93.86	21.24	0.0
10-Aug 5:00	2.34	60.5	93.72	20.89	0.0
10-Aug 5:30	1.96	63.8	94.00	20.92	0.0
10-Aug 6:00	2.14	67.3	93.85	21.01	2.7
10-Aug 6:30	2.43	50.7	93.36	20.89	23.2
10-Aug 7:00	0.00	0.0	92.49	21.10	45.2
10-Aug 7:30	1.28	45.5	90.49	21.71	161.0
10-Aug 8:00	2.04	65.0	88.31	22.86	183.8
10-Aug 8:30	2.02	228.2	77.85	24.80	316.4
10-Aug 9:00	2.58	216.4	72.62	26.25	492.7
10-Aug 9:30	6.35	216.4	70.42	26.30	295.8
10-Aug 10:00	7.75	263.1	67.56	26.77	325.4
10-Aug 10:30	4.39	257.5	67.70	27.02	253.7
10-Aug 11:00	8.64	278.0	65.76	27.29	647.9
10-Aug 11:30	5.80	330.4	67.11	26.97	170.7
10-Aug 12:00	9.93	332.5	72.66	25.86	354.4
10-Aug 12:30	3.17	331.4	81.09	24.79	94.8
10-Aug 13:00	4.83	218.8	85.57	24.22	389.0
10-Aug 13:30	6.02	301.4	78.06	25.49	264.2
10-Aug 14:00	3.67	278.1	77.91	25.47	338.9
10-Aug 14:30	4.41	341.3	81.24	24.59	85.1
10-Aug 15:00	1.43	260.2	80.24	24.51	188.6
10-Aug 15:30	4.11	213.8	79.52	25.13	293.3
10-Aug 16:00	4.29	235.5	78.74	25.20	246.7

10-Aug 16:30	6.08	217.5	78.49	25.56	312.2
10-Aug 17:00	5.65	216.1	77.85	26.06	426.9
10-Aug 17:30	7.64	202.1	77.13	26.15	342.8
10-Aug 18:00	5.90	239.2	74.32	26.42	227.5
10-Aug 18:30	4.29	237.8	78.64	25.61	62.8
10-Aug 19:00	2.98	238.4	81.95	25.24	73.8
10-Aug 19:30	3.40	248.8	82.90	25.04	42.9
10-Aug 20:00	1.07	249.6	82.45	25.06	24.0
10-Aug 20:30	2.00	118.6	88.57	23.95	0.2
10-Aug 21:00	2.85	88.7	90.79	23.41	0.0
10-Aug 21:30	1.09	71.8	88.34	23.53	0.0
10-Aug 22:00	1.60	96.9	89.15	23.31	0.0
10-Aug 22:30	1.80	72.2	91.23	22.69	0.0
10-Aug 23:00	2.26	61.4	91.84	22.24	0.0
10-Aug 23:30	3.95	75.7	93.36	21.76	0.0
11-Aug 0:00	3.77	83.5	92.40	21.56	0.0
11-Aug 0:30	4.11	75.7	94.89	21.02	0.0
11-Aug 1:00	3.84	83.7	94.85	20.78	0.0
11-Aug 1:30	3.21	67.6	94.48	20.88	0.0
11-Aug 2:00	3.87	61.9	91.33	21.33	0.0
11-Aug 2:30	6.44	71.8	88.18	21.65	0.0
11-Aug 3:00	5.34	76.3	79.97	21.67	0.0
11-Aug 3:30	6.55	59.5	64.39	21.79	0.0
11-Aug 4:00	3.79	74.5	72.42	21.28	0.0
11-Aug 4:30	5.96	51.0	68.81	20.88	0.0
11-Aug 5:00	5.09	91.9	78.89	19.86	0.0
11-Aug 5:30	3.53	91.6	81.45	19.39	0.0
11-Aug 6:00	3.06	70.9	78.97	19.04	0.3
11-Aug 6:30	3.74	61.2	72.14	18.99	9.0
11-Aug 7:00	3.77	64.0	69.12	19.39	42.3
11-Aug 7:30	6.01	85.5	69.75	19.34	29.7
11-Aug 8:00	4.48	50.4	65.65	19.64	40.2
11-Aug 8:30	4.95	69.5	70.95	19.52	41.7
11-Aug 9:00	6.19	71.1	70.44	19.39	51.8
11-Aug 9:30	4.48	39.9	68.87	19.41	39.7
11-Aug 10:00	6.04	101.2	76.17	19.02	88.9
11-Aug 10:30	4.45	80.2	71.58	19.62	146.4
11-Aug 11:00	8.20	108.6	59.55	20.53	151.5
11-Aug 11:30	4.48	121.0	62.00	21.01	183.3
11-Aug 12:00	3.60	102.0	62.17	21.26	135.9
11-Aug 12:30	3.88	109.5	61.26	21.29	96.4
11-Aug 13:00	2.35	264.3	77.20	20.26	52.2
11-Aug 13:30	5.55	139.2	77.86	19.31	81.7
11-Aug 14:00	3.97	132.8	85.78	17.95	21.6
11-Aug 14:30	4.89	86.5	91.88	17.10	12.6
11-Aug 15:00	2.09	122.0	93.79	16.89	14.4
11-Aug 15:30	3.79	67.6	96.51	16.29	25.4
11-Aug 16:00	5.07	65.9	96.25	16.00	31.2
11-Aug 16:30	6.30	37.1	96.82	15.91	72.8
11-Aug 17:00	2.67	101.4	97.04	16.22	51.4
11-Aug 17:30	2.85	41.3	96.56	16.66	80.2
11-Aug 18:00	1.06	261.0	96.60	17.13	44.2

11-Aug 18:30	3.51	56.0	92.78	17.74	44.7
11-Aug 19:00	1.59	54.4	91.50	18.07	30.3
11-Aug 19:30	1.34	85.1	95.05	18.00	30.8
11-Aug 20:00	4.21	83.0	94.24	18.09	7.2
11-Aug 20:30	2.50	80.9	93.17	18.13	0.0
11-Aug 21:00	3.49	70.8	93.66	18.07	0.0
11-Aug 21:30	2.46	339.4	95.46	17.94	0.0
11-Aug 22:00	0.00	0.0	95.33	18.06	0.0
11-Aug 22:30	0.20	343.7	96.18	18.10	0.0
11-Aug 23:00	2.98	56.2	96.85	18.31	0.0
11-Aug 23:30	3.26	17.5	97.00	18.41	0.0
12-Aug 0:00	2.19	94.2	97.26	18.49	0.0
12-Aug 0:30	2.41	68.3	97.55	18.69	0.0
12-Aug 1:00	1.74	40.0	97.72	18.70	0.0
12-Aug 1:30	2.62	56.8	97.83	18.76	0.0
12-Aug 2:00	1.49	208.0	97.85	18.59	0.0
12-Aug 2:30	0.00	0.0	97.93	18.64	0.0
12-Aug 3:00	1.88	78.5	97.96	18.78	0.0
12-Aug 3:30	2.09	90.0	97.95	18.84	0.0
12-Aug 4:00	0.00	0.0	98.01	19.01	0.0
12-Aug 4:30	1.75	219.0	97.89	18.84	0.0
12-Aug 5:00	0.00	0.0	97.94	19.04	0.0
12-Aug 5:30	0.77	343.3	97.96	19.08	0.0
12-Aug 6:00	0.00	0.0	97.98	18.96	0.0
12-Aug 6:30	0.00	0.0	98.00	19.04	4.6
12-Aug 7:00	0.38	195.8	98.00	19.11	19.5
12-Aug 7:30	0.00	0.0	98.01	19.36	19.8
12-Aug 8:00	0.00	0.0	98.00	19.50	41.9
12-Aug 8:30	0.00	0.0	98.00	19.75	59.8
12-Aug 9:00	2.14	284.9	97.87	20.05	151.2
12-Aug 9:30	4.66	215.8	97.56	20.54	137.6
12-Aug 10:00	5.00	234.3	93.81	21.16	258.6
12-Aug 10:30	2.71	263.2	93.84	21.07	162.9
12-Aug 11:00	5.84	240.7	93.34	21.17	198.6
12-Aug 11:30	1.24	242.8	91.29	21.59	171.8
12-Aug 12:00	2.62	255.6	91.19	21.71	184.7
12-Aug 12:30	3.08	220.7	87.57	22.29	268.2
12-Aug 13:00	1.41	118.9	87.25	22.43	144.5
12-Aug 13:30	5.16	216.6	82.42	22.89	437.9
12-Aug 14:00	1.32	162.3	81.34	23.51	325.0
12-Aug 14:30	5.59	207.6	79.53	23.67	262.2
12-Aug 15:00	2.19	206.0	83.83	23.42	155.6
12-Aug 15:30	3.46	219.3	82.06	23.50	169.3
12-Aug 16:00	4.54	240.3	80.91	23.66	137.5
12-Aug 16:30	2.96	208.4	80.02	23.48	179.5
12-Aug 17:00	2.04	268.4	79.61	23.89	213.6
12-Aug 17:30	1.26	262.4	80.94	23.77	118.4
12-Aug 18:00	2.66	233.5	81.63	23.59	98.7
12-Aug 18:30	0.19	191.6	83.20	23.44	54.6
12-Aug 19:00	0.00	0.0	85.58	23.15	19.7
12-Aug 19:30	4.39	126.7	90.42	22.29	17.4
12-Aug 20:00	1.38	334.7	90.61	22.55	10.4

12-Aug 20:30	0.67	215.1	93.28	22.13	0.0
12-Aug 21:00	1.63	96.0	94.05	21.90	0.0
12-Aug 21:30	0.00	0.0	95.14	21.73	0.0
12-Aug 22:00	1.91	229.0	94.90	21.45	0.0
12-Aug 22:30	0.00	0.0	96.30	21.18	0.0
12-Aug 23:00	0.00	0.0	96.38	21.19	0.0
12-Aug 23:30	0.12	280.3	96.78	21.18	0.0
13-Aug 0:00	0.00	0.0	97.06	21.25	0.0
13-Aug 0:30	0.00	0.0	97.20	21.17	0.0
13-Aug 1:00	2.67	223.7	97.35	20.99	0.0
13-Aug 1:30	0.00	0.0	97.44	21.04	0.0
13-Aug 2:00	0.00	0.0	97.54	20.97	0.0
13-Aug 2:30	0.00	0.0	97.60	20.76	0.0
13-Aug 3:00	0.00	0.0	97.73	20.71	0.0
13-Aug 3:30	1.89	205.4	97.91	20.45	0.0
13-Aug 4:00	0.00	0.0	97.97	20.27	0.0
13-Aug 4:30	0.00	0.0	97.92	20.02	0.0
13-Aug 5:00	0.00	0.0	98.06	19.80	0.0
13-Aug 5:30	0.00	0.0	98.08	19.91	0.0
13-Aug 6:00	2.08	238.0	98.11	19.81	0.2
13-Aug 6:30	1.78	223.7	98.12	19.84	6.5
13-Aug 7:00	0.00	0.0	98.11	19.76	32.0
13-Aug 7:30	1.48	239.8	98.04	20.20	80.1
13-Aug 8:00	2.73	210.8	97.96	20.18	102.0
13-Aug 8:30	2.01	211.1	97.85	20.45	125.6
13-Aug 9:00	0.18	212.2	97.11	20.69	119.3
13-Aug 9:30	2.83	242.4	93.68	21.01	109.9
13-Aug 10:00	0.13	94.8	89.59	21.91	309.2
13-Aug 10:30	0.00	0.0	82.54	23.13	284.9
13-Aug 11:00	5.20	306.1	81.70	22.78	270.9
13-Aug 11:30	0.00	0.0	76.18	23.85	484.4
13-Aug 12:00	2.55	262.2	75.30	24.05	309.5
13-Aug 12:30	2.79	217.3	73.95	24.53	415.2
13-Aug 13:00	2.20	158.5	64.73	25.51	452.2
13-Aug 13:30	1.49	255.1	64.60	26.15	486.5
13-Aug 14:00	8.15	226.0	63.85	25.94	873.5
13-Aug 14:30	6.21	275.3	62.22	26.45	361.5
13-Aug 15:00	8.24	47.6	70.39	22.85	66.5
13-Aug 15:30	3.93	70.7	75.88	21.90	410.4
13-Aug 16:00	3.95	34.6	75.65	22.52	230.5
13-Aug 16:30	1.90	88.3	74.31	23.52	293.8
13-Aug 17:00	6.40	42.4	64.53	24.92	462.2
13-Aug 17:30	2.55	44.7	64.13	25.23	325.6
13-Aug 18:00	3.14	25.1	64.92	25.08	254.4
13-Aug 18:30	3.08	48.0	64.14	25.08	156.1
13-Aug 19:00	4.50	347.8	64.19	24.97	82.9
13-Aug 19:30	3.17	6.5	66.95	24.48	26.3
13-Aug 20:00	0.00	0.0	83.01	22.34	5.2
13-Aug 20:30	1.82	82.1	89.26	20.88	0.1
13-Aug 21:00	2.31	78.4	92.71	19.62	0.0
13-Aug 21:30	2.67	69.9	93.90	19.51	0.0
13-Aug 22:00	3.26	82.8	94.74	18.81	0.0

13-Aug 22:30	4.95	75.2	95.61	18.49	0.0
13-Aug 23:00	3.64	85.2	95.85	18.06	0.0
13-Aug 23:30	4.02	102.3	96.19	17.53	0.0
14-Aug 0:00	5.04	77.2	97.60	17.24	0.0
14-Aug 0:30	3.34	67.0	97.87	17.15	0.0
14-Aug 1:00	3.27	67.7	95.44	17.27	0.0
14-Aug 1:30	5.62	70.1	94.29	16.99	0.0
14-Aug 2:00	3.94	73.9	95.39	17.10	0.0
14-Aug 2:30	1.32	36.1	94.08	17.46	0.0
14-Aug 3:00	4.17	73.1	95.58	17.26	0.0
14-Aug 3:30	2.68	82.2	95.60	17.34	0.0
14-Aug 4:00	3.84	72.5	95.95	17.05	0.0
14-Aug 4:30	2.71	99.1	96.13	16.82	0.0
14-Aug 5:00	3.29	81.2	95.86	16.78	0.0
14-Aug 5:30	1.44	119.7	93.57	16.90	0.0
14-Aug 6:00	1.92	81.0	91.89	16.76	0.3
14-Aug 6:30	2.48	42.5	89.69	16.79	10.3
14-Aug 7:00	1.77	118.7	93.76	16.16	36.0
14-Aug 7:30	0.00	0.0	89.79	16.65	73.4
14-Aug 8:00	0.00	0.0	83.68	17.54	154.3
14-Aug 8:30	0.20	240.8	84.12	18.03	164.5
14-Aug 9:00	0.86	224.2	84.84	18.44	194.7
14-Aug 9:30	5.61	54.5	75.54	19.71	540.7
14-Aug 10:00	2.97	43.3	78.78	19.79	504.6
14-Aug 10:30	0.00	0.0	67.72	21.85	789.8
14-Aug 11:00	0.00	0.0	52.63	24.17	827.6
14-Aug 11:30	5.13	93.1	52.64	23.68	1020.0
14-Aug 12:00	4.84	57.9	53.40	23.86	820.3
14-Aug 12:30	1.95	73.4	50.13	24.45	538.2
14-Aug 13:00	5.69	53.1	48.81	25.00	1079.2
14-Aug 13:30	4.66	47.4	49.08	24.54	200.6
14-Aug 14:00	3.34	358.4	44.30	25.29	210.5
14-Aug 14:30	6.98	345.3	47.18	24.72	280.6
14-Aug 15:00	2.54	313.3	48.08	24.62	103.2
14-Aug 15:30	4.84	223.4	61.84	23.06	170.4
14-Aug 16:00	4.10	222.1	62.34	23.17	261.5
14-Aug 16:30	3.19	219.7	61.46	23.66	548.3
14-Aug 17:00	5.09	255.4	56.42	24.01	162.9
14-Aug 17:30	0.00	0.0	57.23	24.44	153.3
14-Aug 18:00	1.96	230.7	55.50	24.83	259.0
14-Aug 18:30	0.00	0.0	54.01	25.23	160.1
14-Aug 19:00	1.99	27.0	54.31	24.77	70.7
14-Aug 19:30	1.84	46.3	60.28	23.75	22.9
14-Aug 20:00	2.54	70.0	75.63	21.45	5.3
14-Aug 20:30	3.18	71.1	83.03	19.94	0.0
14-Aug 21:00	2.24	71.0	87.44	18.58	0.0
14-Aug 21:30	3.28	92.9	90.36	17.72	0.0
14-Aug 22:00	3.50	68.3	90.74	17.27	0.0
14-Aug 22:30	5.18	71.2	91.03	16.93	0.0
14-Aug 23:00	4.45	44.1	89.62	16.81	0.0
14-Aug 23:30	3.75	84.6	86.03	17.15	0.0
15-Aug 0:00	4.28	253.8	89.92	16.67	0.0

15-Aug 0:30	0.00	0.0	90.78	16.46	0.0
15-Aug 1:00	2.55	107.9	93.05	15.98	0.0
15-Aug 1:30	3.37	88.8	93.96	15.65	0.0
15-Aug 2:00	2.18	66.6	94.60	15.61	0.0
15-Aug 2:30	4.15	75.8	95.14	15.23	0.0
15-Aug 3:00	3.71	96.9	94.84	15.09	0.0
15-Aug 3:30	3.91	101.9	96.20	14.68	0.0
15-Aug 4:00	4.15	88.4	96.59	14.36	0.0
15-Aug 4:30	4.92	86.2	96.80	14.15	0.0
15-Aug 5:00	3.78	102.3	96.40	13.72	0.0
15-Aug 5:30	4.79	75.8	96.84	13.39	0.0
15-Aug 6:00	5.21	68.1	97.31	13.05	0.5
15-Aug 6:30	5.25	84.8	97.68	12.81	13.2
15-Aug 7:00	4.14	72.6	96.63	12.79	130.0
15-Aug 7:30	3.84	76.2	93.48	13.68	215.4
15-Aug 8:00	3.04	63.9	89.17	14.80	329.3
15-Aug 8:30	0.78	65.6	81.99	16.78	430.4
15-Aug 9:00	1.82	22.5	75.71	18.84	545.4
15-Aug 9:30	2.96	50.9	67.32	20.79	641.6
15-Aug 10:00	2.51	71.8	63.12	22.27	720.4
15-Aug 10:30	4.57	223.3	65.95	22.46	794.4
15-Aug 11:00	0.65	293.0	62.04	23.21	899.7
15-Aug 11:30	4.97	138.5	61.53	23.42	258.9
15-Aug 12:00	8.59	213.5	53.62	23.98	326.8
15-Aug 12:30	2.52	251.2	46.99	25.77	1017.2
15-Aug 13:00	5.93	236.9	45.84	25.35	1010.1
15-Aug 13:30	6.85	121.4	42.83	24.77	979.9
15-Aug 14:00	11.77	217.5	42.78	25.97	926.0
15-Aug 14:30	2.46	170.0	39.37	26.53	847.9
15-Aug 15:00	2.79	130.8	40.10	26.67	754.1
15-Aug 15:30	4.98	250.2	41.32	26.20	773.5
15-Aug 16:00	4.76	164.1	46.59	25.59	228.9
15-Aug 16:30	6.58	219.7	46.70	25.59	168.2
15-Aug 17:00	7.72	209.3	45.95	25.56	410.3
15-Aug 17:30	6.74	234.3	49.99	25.49	290.9
15-Aug 18:00	5.22	237.6	50.85	25.29	214.9
15-Aug 18:30	6.88	225.4	53.27	25.03	122.6
15-Aug 19:00	5.09	207.7	56.57	24.65	64.6
15-Aug 19:30	2.39	209.9	62.18	23.91	28.0
15-Aug 20:00	2.28	170.8	63.85	23.22	4.2
15-Aug 20:30	4.35	126.9	71.12	21.82	0.0
15-Aug 21:00	2.19	87.7	81.99	19.61	0.0
15-Aug 21:30	2.54	99.3	83.11	19.10	0.0
15-Aug 22:00	2.65	93.7	88.16	18.50	0.0
15-Aug 22:30	2.65	54.0	90.16	17.92	0.0
15-Aug 23:00	2.33	33.5	91.75	17.29	0.0
15-Aug 23:30	1.45	58.7	91.19	17.09	0.0
16-Aug 0:00	1.92	49.3	93.57	16.66	0.0
16-Aug 0:30	1.96	75.4	90.84	16.86	0.0
16-Aug 1:00	2.80	68.2	91.16	16.73	0.0
16-Aug 1:30	1.55	124.7	91.34	16.40	0.0
16-Aug 2:00	2.59	44.9	93.22	15.76	0.0

16-Aug	2:30	3.92	40.2	93.90	15.43	0.0
16-Aug	3:00	2.20	60.5	94.95	15.19	0.0
16-Aug	3:30	2.60	54.6	95.18	14.95	0.0
16-Aug	4:00	2.62	76.1	96.25	14.75	0.0
16-Aug	4:30	2.44	63.2	96.49	14.47	0.0
16-Aug	5:00	2.05	62.7	96.55	14.18	0.0
16-Aug	5:30	2.99	57.2	97.05	13.95	0.0
16-Aug	6:00	1.20	82.9	96.72	13.73	0.5
16-Aug	6:30	3.39	37.3	96.96	13.88	15.5
16-Aug	7:00	2.75	55.1	95.75	13.97	91.9
16-Aug	7:30	2.74	51.3	92.03	14.94	165.2
16-Aug	8:00	2.23	61.4	86.43	16.40	301.8
16-Aug	8:30	0.00	0.0	82.18	18.19	415.9
16-Aug	9:00	1.87	136.0	69.28	20.48	607.4
16-Aug	9:30	8.58	215.4	66.98	20.71	640.4
16-Aug	10:00	7.73	230.0	64.93	21.68	857.5
16-Aug	10:30	8.17	223.7	65.71	21.62	287.4
16-Aug	11:00	13.53	215.6	60.89	22.55	835.6
16-Aug	11:30	18.82	227.3	56.81	22.97	838.2
16-Aug	12:00	12.15	230.6	54.85	23.56	872.6
16-Aug	12:30	16.63	222.9	58.97	23.28	967.4
16-Aug	13:00	7.64	209.1	53.65	24.20	665.1
16-Aug	13:30	12.65	194.0	51.31	25.01	927.1
16-Aug	14:00	2.17	169.7	50.77	25.55	1021.2
16-Aug	14:30	13.40	241.1	54.37	24.78	521.0
16-Aug	15:00	3.09	176.7	51.73	26.20	701.5
16-Aug	15:30	12.55	232.6	51.26	26.12	611.6
16-Aug	16:00	4.59	199.8	51.37	26.18	608.2
16-Aug	16:30	15.66	223.8	53.17	25.80	539.1
16-Aug	17:00	3.26	217.0	53.14	26.09	245.3
16-Aug	17:30	4.51	163.6	55.04	25.52	268.9
16-Aug	18:00	7.04	228.8	55.47	25.42	190.4
16-Aug	18:30	3.00	146.8	58.07	24.97	114.0
16-Aug	19:00	5.20	205.1	60.20	24.23	46.8
16-Aug	19:30	1.18	110.9	61.04	23.77	7.9
16-Aug	20:00	6.43	221.0	60.06	23.65	0.7
16-Aug	20:30	5.83	193.2	60.63	23.36	0.0
16-Aug	21:00	1.61	237.6	60.64	23.31	0.0
16-Aug	21:30	9.18	270.4	61.82	23.02	0.0
16-Aug	22:00	1.72	154.3	73.66	22.11	0.0
16-Aug	22:30	4.84	171.4	64.82	22.42	0.0
16-Aug	23:00	0.00	0.0	67.25	22.41	0.0
16-Aug	23:30	7.05	208.9	70.26	22.15	0.0
17-Aug	0:00	0.66	184.8	71.24	21.86	0.0
17-Aug	0:30	6.75	162.0	72.28	21.33	0.0
17-Aug	1:00	4.15	148.5	74.29	20.92	0.0
17-Aug	1:30	6.44	177.6	75.24	20.61	0.0
17-Aug	2:00	3.20	206.6	76.96	20.62	0.0
17-Aug	2:30	5.47	207.9	90.83	19.39	0.0
17-Aug	3:00	3.90	161.8	92.38	19.36	0.0
17-Aug	3:30	3.39	230.2	94.01	19.28	0.0
17-Aug	4:00	4.65	223.7	94.19	19.16	0.0

17-Aug 4:30	4.24	202.6	94.05	19.17	0.0
17-Aug 5:00	5.28	227.6	94.51	19.28	0.0
17-Aug 5:30	6.85	211.4	95.70	19.33	0.0
17-Aug 6:00	7.20	243.5	95.02	19.64	0.1
17-Aug 6:30	5.62	213.4	95.29	19.69	2.2
17-Aug 7:00	3.30	259.3	95.45	19.95	3.7
17-Aug 7:30	7.05	226.0	95.57	20.11	16.0
17-Aug 8:00	2.27	197.3	95.49	20.24	21.8
17-Aug 8:30	2.86	205.7	94.34	20.55	93.8
17-Aug 9:00	8.21	216.6	95.49	20.58	114.0
17-Aug 9:30	6.37	219.2	94.06	20.85	45.4
17-Aug 10:00	1.92	159.7	94.08	20.96	55.5
17-Aug 10:30	4.84	231.9	92.07	21.33	160.8
17-Aug 11:00	3.34	239.0	91.55	21.68	189.1
17-Aug 11:30	5.83	258.5	90.72	21.78	213.8
17-Aug 12:00	3.06	188.3	83.41	22.98	317.8
17-Aug 12:30	10.36	269.7	81.13	22.62	85.7
17-Aug 13:00	6.15	247.5	86.01	21.49	196.2
17-Aug 13:30	4.77	195.1	84.65	21.96	280.1
17-Aug 14:00	2.51	252.8	77.45	23.27	855.1
17-Aug 14:30	14.01	252.8	71.92	24.08	661.6
17-Aug 15:00	13.11	269.8	66.22	24.66	745.2
17-Aug 15:30	12.50	232.9	62.91	25.27	713.3
17-Aug 16:00	12.04	245.0	56.89	25.70	666.3
17-Aug 16:30	15.30	249.3	48.04	25.85	506.0
17-Aug 17:00	9.29	257.0	46.41	25.63	413.7
17-Aug 17:30	11.60	238.1	43.28	25.19	318.3
17-Aug 18:00	10.02	253.7	44.36	24.75	223.7
17-Aug 18:30	9.98	277.2	48.19	24.24	141.0
17-Aug 19:00	4.79	267.1	51.92	23.67	56.3
17-Aug 19:30	5.49	232.2	56.02	22.77	20.7
17-Aug 20:00	0.00	0.0	64.07	21.54	3.8
17-Aug 20:30	0.00	0.0	71.38	20.24	0.0
17-Aug 21:00	0.00	0.0	79.84	18.99	0.0
17-Aug 21:30	2.02	39.8	84.65	17.75	0.0
17-Aug 22:00	2.73	58.6	88.07	17.07	0.0
17-Aug 22:30	1.16	48.2	90.86	16.39	0.0
17-Aug 23:00	2.18	44.2	91.13	15.97	0.0
17-Aug 23:30	0.50	75.2	92.44	15.51	0.0
18-Aug 0:00	2.11	19.7	92.98	15.26	0.0
18-Aug 0:30	2.84	22.2	93.79	14.88	0.0
18-Aug 1:00	2.29	70.6	93.13	14.56	0.0
18-Aug 1:30	1.79	39.6	94.57	14.38	0.0
18-Aug 2:00	0.00	0.0	94.78	14.33	0.0
18-Aug 2:30	0.00	0.0	94.92	14.38	0.0
18-Aug 3:00	0.45	84.2	96.03	13.95	0.0
18-Aug 3:30	4.09	53.4	96.24	13.52	0.0
18-Aug 4:00	3.49	42.4	96.36	13.28	0.0
18-Aug 4:30	2.65	57.9	96.35	12.94	0.0
18-Aug 5:00	4.56	48.8	96.76	13.10	0.0
18-Aug 5:30	2.49	65.1	96.89	12.61	0.0
18-Aug 6:00	3.22	65.7	97.40	12.94	0.6

18-Aug 6:30	3.21	28.3	97.04	12.72	22.1
18-Aug 7:00	3.23	41.3	94.86	13.23	146.3
18-Aug 7:30	3.75	47.1	93.88	13.43	139.6
18-Aug 8:00	2.75	61.6	92.02	14.35	168.8
18-Aug 8:30	0.00	0.0	84.98	16.31	328.1
18-Aug 9:00	0.00	0.0	79.58	18.09	403.3
18-Aug 9:30	2.37	227.7	78.14	19.08	287.6
18-Aug 10:00	2.88	159.2	72.97	20.72	732.6
18-Aug 10:30	5.04	205.2	69.65	21.28	757.7
18-Aug 11:00	5.58	192.2	64.72	22.55	768.1
18-Aug 11:30	3.54	262.5	58.62	22.89	782.8
18-Aug 12:00	5.43	247.5	58.08	23.25	708.0
18-Aug 12:30	12.17	226.4	51.90	23.56	691.5
18-Aug 13:00	9.59	240.6	51.40	23.61	668.4
18-Aug 13:30	6.24	243.7	50.94	23.75	605.0
18-Aug 14:00	13.04	212.4	50.42	24.18	795.1
18-Aug 14:30	6.81	245.5	49.79	24.90	929.6
18-Aug 15:00	2.49	172.7	45.80	25.50	698.3
18-Aug 15:30	4.00	226.4	46.68	25.19	387.6
18-Aug 16:00	6.31	315.1	46.49	25.42	487.7
18-Aug 16:30	5.27	255.6	46.99	25.04	482.8
18-Aug 17:00	3.77	252.0	48.24	24.89	508.9
18-Aug 17:30	7.26	219.0	49.22	25.26	327.6
18-Aug 18:00	2.00	294.9	50.94	25.05	158.3
18-Aug 18:30	3.08	241.6	58.19	24.03	94.0
18-Aug 19:00	2.05	236.6	60.75	23.68	61.4
18-Aug 19:30	0.00	0.0	63.84	23.03	23.9
18-Aug 20:00	1.30	299.1	65.37	22.56	1.6
18-Aug 20:30	0.00	0.0	70.88	21.53	0.0
18-Aug 21:00	2.28	59.3	78.07	20.46	0.0
18-Aug 21:30	1.76	92.5	83.89	19.26	0.0
18-Aug 22:00	3.10	64.3	88.38	18.18	0.0
18-Aug 22:30	3.55	88.8	88.72	17.59	0.0
18-Aug 23:00	3.69	84.2	90.79	17.05	0.0
18-Aug 23:30	4.11	59.8	92.20	16.84	0.0
19-Aug 0:00	3.19	82.4	92.78	16.60	0.0
19-Aug 0:30	4.04	92.0	93.97	16.15	0.0
19-Aug 1:00	5.35	76.0	94.67	15.97	0.0
19-Aug 1:30	4.58	69.2	95.57	15.53	0.0
19-Aug 2:00	6.50	79.0	95.83	15.09	0.0
19-Aug 2:30	4.58	75.1	96.24	14.97	0.0
19-Aug 3:00	4.68	87.2	95.57	14.67	0.0
19-Aug 3:30	4.65	66.1	96.29	14.45	0.0
19-Aug 4:00	6.04	79.4	96.20	14.32	0.0
19-Aug 4:30	4.83	91.4	95.99	13.98	0.0
19-Aug 5:00	4.34	97.1	96.15	13.87	0.0
19-Aug 5:30	3.91	99.1	96.30	13.78	0.0
19-Aug 6:00	6.17	69.9	96.48	13.69	0.2
19-Aug 6:30	6.20	81.0	96.09	13.67	6.5
19-Aug 7:00	4.99	86.8	95.30	13.61	57.6
19-Aug 7:30	5.53	65.4	92.81	14.27	192.7
19-Aug 8:00	5.26	81.4	90.85	15.02	298.6

19-Aug 8:30	5.47	79.7	86.47	16.49	434.3
19-Aug 9:00	4.44	52.9	81.37	18.57	521.8
19-Aug 9:30	1.22	72.7	74.63	20.75	450.3
19-Aug 10:00	1.40	212.3	70.43	22.10	236.7
19-Aug 10:30	2.26	213.2	70.60	22.08	259.2
19-Aug 11:00	5.35	191.6	59.57	23.08	549.9
19-Aug 11:30	1.68	91.6	58.39	23.70	522.3
19-Aug 12:00	6.78	212.0	56.67	24.30	693.8
19-Aug 12:30	2.22	277.7	58.63	24.10	356.4
19-Aug 13:00	3.50	225.9	55.18	25.07	744.7
19-Aug 13:30	9.15	239.7	54.24	25.09	638.8
19-Aug 14:00	7.71	224.2	54.14	25.38	855.6
19-Aug 14:30	8.10	231.3	48.36	25.84	922.7
19-Aug 15:00	2.71	204.9	53.42	25.59	723.4
19-Aug 15:30	1.89	178.6	51.74	25.90	348.6
19-Aug 16:00	1.79	202.2	48.26	26.94	604.1
19-Aug 16:30	12.65	190.9	53.55	25.91	245.4
19-Aug 17:00	3.44	200.8	55.10	25.56	325.7
19-Aug 17:30	6.59	140.2	53.50	25.79	307.5
19-Aug 18:00	3.60	224.8	56.00	25.27	189.7
19-Aug 18:30	1.69	188.1	58.32	24.83	161.7
19-Aug 19:00	5.09	227.8	62.28	24.06	55.1
19-Aug 19:30	2.51	222.1	64.68	23.38	19.0
19-Aug 20:00	3.69	170.0	65.30	22.75	1.2
19-Aug 20:30	0.00	0.0	69.92	21.93	0.0
19-Aug 21:00	1.51	74.2	73.26	21.09	0.0
19-Aug 21:30	0.85	73.4	76.75	20.71	0.0
19-Aug 22:00	2.87	36.0	81.27	20.54	0.0
19-Aug 22:30	3.47	76.0	80.33	20.85	0.0
19-Aug 23:00	0.60	62.8	79.39	20.96	0.0
19-Aug 23:30	0.00	0.0	79.82	21.06	0.0
20-Aug 0:00	1.07	31.8	83.93	20.54	0.0
20-Aug 0:30	2.33	60.6	85.49	20.21	0.0
20-Aug 1:00	2.71	89.7	88.21	19.90	0.0
20-Aug 1:30	1.54	49.0	90.69	19.58	0.0
20-Aug 2:00	2.37	109.0	92.08	19.31	0.0
20-Aug 2:30	1.89	86.0	90.42	19.97	0.0
20-Aug 3:00	3.59	86.6	91.89	19.77	0.0
20-Aug 3:30	2.17	77.6	93.50	20.03	0.0
20-Aug 4:00	3.59	121.0	93.54	20.19	0.0
20-Aug 4:30	4.02	209.6	94.72	20.17	0.0
20-Aug 5:00	3.25	226.1	93.95	20.30	0.0
20-Aug 5:30	3.71	236.5	93.47	20.29	0.0
20-Aug 6:00	2.03	211.6	94.93	19.98	0.0
20-Aug 6:30	3.72	222.3	95.53	19.74	6.5
20-Aug 7:00	2.87	234.5	94.72	19.96	50.3
20-Aug 7:30	3.96	251.7	95.16	19.93	14.2
20-Aug 8:00	3.08	229.0	95.11	19.83	73.6
20-Aug 8:30	4.44	261.7	92.91	19.82	74.6
20-Aug 9:00	3.91	222.8	92.10	19.90	70.0
20-Aug 9:30	1.88	125.9	86.96	20.44	112.7
20-Aug 10:00	5.22	218.5	85.01	20.89	214.7

20-Aug 10:30	2.56	224.7	80.82	21.40	366.3
20-Aug 11:00	2.59	197.7	73.07	22.61	443.9
20-Aug 11:30	1.86	239.8	66.22	23.36	854.1
20-Aug 12:00	3.23	272.6	64.87	23.54	336.0
20-Aug 12:30	6.84	278.9	54.80	23.68	880.2
20-Aug 13:00	7.15	254.3	55.34	24.93	942.8
20-Aug 13:30	8.60	248.3	52.77	24.45	948.6
20-Aug 14:00	8.94	211.8	51.50	24.96	899.9
20-Aug 14:30	6.37	264.1	51.74	24.84	685.3
20-Aug 15:00	5.73	224.1	49.97	25.20	321.0
20-Aug 15:30	11.77	255.8	50.07	24.97	701.1
20-Aug 16:00	6.27	267.1	52.55	25.04	662.6
20-Aug 16:30	10.66	293.0	51.21	24.78	505.1
20-Aug 17:00	8.75	221.3	47.72	25.21	417.1
20-Aug 17:30	6.67	258.7	48.71	24.89	299.6
20-Aug 18:00	8.55	266.3	49.51	24.67	193.5
20-Aug 18:30	6.35	231.3	55.36	23.86	138.6
20-Aug 19:00	5.89	247.2	59.88	23.26	51.2
20-Aug 19:30	1.96	220.3	64.06	22.80	17.6
20-Aug 20:00	1.58	88.7	69.89	22.08	2.2
20-Aug 20:30	1.55	81.5	75.06	20.83	0.0
20-Aug 21:00	1.88	91.9	81.35	19.51	0.0
20-Aug 21:30	0.00	0.0	83.50	19.05	0.0
20-Aug 22:00	1.74	88.2	87.58	18.37	0.0
20-Aug 22:30	2.70	73.1	86.29	18.15	0.0
20-Aug 23:00	1.21	62.8	88.11	17.55	0.0
20-Aug 23:30	1.88	80.6	90.00	16.76	0.0
21-Aug 0:00	1.81	86.1	91.99	16.18	0.0
21-Aug 0:30	1.88	89.5	93.59	15.73	0.0
21-Aug 1:00	0.00	0.0	92.05	15.41	0.0
21-Aug 1:30	1.53	73.1	91.36	15.18	0.0
21-Aug 2:00	2.88	69.6	93.92	14.88	0.0
21-Aug 2:30	1.78	83.5	94.22	14.37	0.0
21-Aug 3:00	2.23	59.2	94.86	14.15	0.0
21-Aug 3:30	1.24	96.5	94.94	14.01	0.0
21-Aug 4:00	1.35	70.8	95.03	14.06	0.0
21-Aug 4:30	2.67	108.3	95.25	13.67	0.0
21-Aug 5:00	2.43	98.4	95.63	13.49	0.0
21-Aug 5:30	2.33	95.2	96.27	13.10	0.0
21-Aug 6:00	2.13	105.1	95.90	13.06	0.1
21-Aug 6:30	3.12	102.2	96.07	12.58	11.3
21-Aug 7:00	2.32	118.5	95.71	12.94	49.1
21-Aug 7:30	2.63	95.9	94.97	13.19	100.3
21-Aug 8:00	1.58	36.8	90.55	14.85	129.7
21-Aug 8:30	2.08	58.7	88.42	16.02	202.5
21-Aug 9:00	0.00	0.0	78.69	18.25	370.2
21-Aug 9:30	3.72	274.5	81.30	18.19	340.4
21-Aug 10:00	5.66	248.8	80.27	18.46	206.8
21-Aug 10:30	6.76	252.8	75.13	19.53	455.2
21-Aug 11:00	10.81	315.6	69.83	20.35	272.5
21-Aug 11:30	3.48	230.9	70.12	20.90	632.2
21-Aug 12:00	6.00	262.2	67.05	21.04	351.5

21-Aug 12:30	4.89	283.3	65.83	21.36	214.4
21-Aug 13:00	7.79	272.8	63.91	21.77	506.3
21-Aug 13:30	2.54	265.7	64.51	21.89	359.1
21-Aug 14:00	5.60	253.7	68.34	21.59	294.7
21-Aug 14:30	7.36	296.2	65.05	21.81	279.0
21-Aug 15:00	6.32	321.8	63.78	22.20	301.8
21-Aug 15:30	4.45	255.9	60.11	22.82	297.4
21-Aug 16:00	7.71	323.2	78.15	19.67	24.5
21-Aug 16:30	0.00	0.0	80.37	19.07	179.3
21-Aug 17:00	2.20	72.3	78.52	20.07	172.3
21-Aug 17:30	1.99	94.4	77.96	20.27	260.9
21-Aug 18:00	0.00	0.0	72.91	21.68	152.9
21-Aug 18:30	0.00	0.0	69.37	22.34	81.4
21-Aug 19:00	0.00	0.0	65.42	23.80	36.1
21-Aug 19:30	0.00	0.0	78.20	21.62	16.6
21-Aug 20:00	0.00	0.0	86.78	19.60	2.2
21-Aug 20:30	1.28	82.1	90.77	18.34	0.0
21-Aug 21:00	1.35	66.9	93.48	17.43	0.0
21-Aug 21:30	3.53	84.5	93.53	16.73	0.0
21-Aug 22:00	3.07	65.2	94.04	16.10	0.0
21-Aug 22:30	2.46	72.1	94.71	15.69	0.0
21-Aug 23:00	2.07	84.5	94.47	15.20	0.0
21-Aug 23:30	4.05	55.8	95.41	15.01	0.0
22-Aug 0:00	3.72	64.6	95.74	14.62	0.0
22-Aug 0:30	4.44	78.7	95.96	14.15	0.0
22-Aug 1:00	4.08	82.2	95.93	13.88	0.0
22-Aug 1:30	2.56	79.4	95.75	13.54	0.0
22-Aug 2:00	3.13	75.4	96.18	13.17	0.0
22-Aug 2:30	3.03	70.6	96.23	12.94	0.0
22-Aug 3:00	3.11	69.5	96.62	12.50	0.0
22-Aug 3:30	3.09	67.2	96.56	12.37	0.0
22-Aug 4:00	4.35	47.5	96.78	12.32	0.0
22-Aug 4:30	2.98	72.7	96.78	11.91	0.0
22-Aug 5:00	3.98	54.0	97.22	11.81	0.0
22-Aug 5:30	3.67	68.8	97.36	11.62	0.0
22-Aug 6:00	4.20	59.7	97.51	11.18	0.1
22-Aug 6:30	4.14	67.7	97.54	11.04	10.0
22-Aug 7:00	4.97	53.8	96.07	11.09	104.1
22-Aug 7:30	4.94	60.3	92.18	11.76	211.1
22-Aug 8:00	2.84	65.1	88.57	13.23	319.9
22-Aug 8:30	2.09	63.1	82.25	15.43	435.7
22-Aug 9:00	0.00	0.0	71.45	18.85	548.5
22-Aug 9:30	0.67	164.4	73.98	19.33	643.7
22-Aug 10:00	2.55	180.9	70.53	20.15	724.4
22-Aug 10:30	4.82	238.7	62.01	21.66	793.3
22-Aug 11:00	5.44	324.2	53.98	22.52	808.1
22-Aug 11:30	10.45	245.9	46.45	23.32	897.6
22-Aug 12:00	6.47	301.2	48.29	23.01	961.1
22-Aug 12:30	9.72	306.8	44.47	23.48	964.8
22-Aug 13:00	13.72	267.2	42.80	24.45	931.3
22-Aug 13:30	10.21	248.5	44.72	24.41	1042.9
22-Aug 14:00	15.95	274.5	42.30	24.51	904.2

22-Aug 14:30	8.43	270.0	40.86	24.76	610.6
22-Aug 15:00	11.83	268.6	42.78	24.90	773.9
22-Aug 15:30	6.94	289.0	43.13	24.93	687.6
22-Aug 16:00	3.16	261.2	42.38	24.98	609.2
22-Aug 16:30	12.03	307.5	40.79	24.89	325.7
22-Aug 17:00	11.66	305.2	40.03	25.12	393.1
22-Aug 17:30	5.97	281.8	42.56	24.37	236.7
22-Aug 18:00	3.18	253.0	42.18	24.93	243.0
22-Aug 18:30	3.84	287.3	41.44	24.61	103.7
22-Aug 19:00	2.26	318.9	43.16	24.52	31.5
22-Aug 19:30	0.20	128.3	55.52	22.78	16.0
22-Aug 20:00	1.64	39.7	66.00	20.49	1.4
22-Aug 20:30	3.61	80.7	75.75	18.19	0.0
22-Aug 21:00	3.98	69.6	78.07	17.32	0.0
22-Aug 21:30	6.94	70.1	82.78	16.16	0.0
22-Aug 22:00	4.92	88.3	84.22	15.47	0.0
22-Aug 22:30	4.24	87.7	87.11	14.76	0.0
22-Aug 23:00	6.71	73.4	90.91	14.46	0.0
22-Aug 23:30	4.25	78.1	89.66	14.25	0.0
23-Aug 0:00	4.92	81.0	91.96	13.76	0.0
23-Aug 0:30	3.80	66.6	92.42	14.05	0.0
23-Aug 1:00	5.64	65.9	92.36	13.99	0.0
23-Aug 1:30	8.67	76.6	91.58	13.88	0.0
23-Aug 2:00	3.94	70.9	93.01	13.69	0.0
23-Aug 2:30	6.67	72.4	93.21	13.33	0.0
23-Aug 3:00	6.67	78.0	92.36	13.36	0.0
23-Aug 3:30	5.75	64.6	93.37	13.08	0.0
23-Aug 4:00	6.42	79.8	93.76	12.93	0.0
23-Aug 4:30	7.40	75.3	93.36	12.67	0.0
23-Aug 5:00	6.74	77.0	93.10	12.61	0.0
23-Aug 5:30	6.54	72.4	93.26	12.55	0.0
23-Aug 6:00	6.96	79.7	93.07	12.40	0.0
23-Aug 6:30	3.98	63.9	93.05	12.58	5.3
23-Aug 7:00	3.94	64.3	93.16	12.58	17.3
23-Aug 7:30	3.50	61.9	90.95	12.99	193.9
23-Aug 8:00	4.19	57.6	86.73	14.12	136.9
23-Aug 8:30	4.08	44.9	82.62	15.62	258.9
23-Aug 9:00	2.64	41.9	82.43	16.51	197.8
23-Aug 9:30	1.24	77.5	79.37	17.58	113.4
23-Aug 10:00	0.00	0.0	77.58	18.53	152.8
23-Aug 10:30	0.00	0.0	75.57	19.36	266.8
23-Aug 11:00	3.43	217.8	71.50	20.50	467.1
23-Aug 11:30	0.00	0.0	66.64	21.38	261.3
23-Aug 12:00	1.61	105.5	69.62	20.94	166.4
23-Aug 12:30	0.00	0.0	69.23	21.31	95.6
23-Aug 13:00	2.16	225.9	84.16	20.06	66.1
23-Aug 13:30	5.81	337.9	91.32	18.72	75.8
23-Aug 14:00	2.72	49.1	91.54	18.40	80.9
23-Aug 14:30	1.23	99.6	91.37	18.52	123.2
23-Aug 15:00	0.00	0.0	91.66	18.61	103.9
23-Aug 15:30	0.00	0.0	94.95	18.75	100.8
23-Aug 16:00	1.39	206.6	95.83	18.45	71.6

23-Aug 16:30	2.63	178.4	92.10	18.26	91.7
23-Aug 17:00	3.62	236.3	92.32	18.14	96.8
23-Aug 17:30	0.00	0.0	92.74	18.08	39.0
23-Aug 18:00	0.00	0.0	93.44	18.06	26.7
23-Aug 18:30	0.00	0.0	94.51	18.00	12.9
23-Aug 19:00	0.00	0.0	94.23	17.83	5.3
23-Aug 19:30	0.86	21.4	94.79	17.83	1.5
23-Aug 20:00	2.80	0.6	95.91	17.49	0.5
23-Aug 20:30	2.35	53.2	96.19	17.65	0.0
23-Aug 21:00	1.59	50.4	96.00	17.56	0.0
23-Aug 21:30	2.07	17.3	95.39	17.50	0.0
23-Aug 22:00	3.53	21.8	96.17	17.33	0.0
23-Aug 22:30	4.29	25.2	95.44	17.28	0.0
23-Aug 23:00	4.17	56.0	92.96	17.60	0.0
23-Aug 23:30	5.49	31.1	92.79	17.41	0.0
24-Aug 0:00	4.33	6.5	92.48	17.30	0.0
24-Aug 0:30	2.77	103.7	93.63	16.89	0.0
24-Aug 1:00	3.19	91.7	94.62	16.68	0.0
24-Aug 1:30	1.62	51.9	94.04	16.61	0.0
24-Aug 2:00	2.78	61.3	93.05	16.49	0.0
24-Aug 2:30	2.05	1.2	94.84	16.05	0.0
24-Aug 3:00	2.56	83.7	95.59	15.84	0.0
24-Aug 3:30	2.60	95.9	94.54	15.84	0.0
24-Aug 4:00	2.99	33.3	95.06	15.91	0.0
24-Aug 4:30	4.13	89.1	94.45	15.88	0.0
24-Aug 5:00	2.51	354.0	94.66	15.93	0.0
24-Aug 5:30	2.85	88.8	93.96	16.22	0.0
24-Aug 6:00	0.08	3.7	94.46	16.38	0.0
24-Aug 6:30	5.87	2.4	94.40	16.39	2.3
24-Aug 7:00	4.46	39.3	94.23	16.48	18.7
24-Aug 7:30	3.27	18.4	94.35	16.52	61.3
24-Aug 8:00	4.39	23.4	93.34	16.77	77.4
24-Aug 8:30	6.62	332.0	92.40	16.99	91.1
24-Aug 9:00	3.17	23.3	92.18	17.03	75.3
24-Aug 9:30	2.58	31.9	91.31	17.40	172.6
24-Aug 10:00	3.71	26.3	89.88	17.77	191.3
24-Aug 10:30	3.43	27.7	89.62	17.72	145.6
24-Aug 11:00	8.86	342.1	88.73	17.94	137.8
24-Aug 11:30	5.68	338.2	88.44	18.20	180.0
24-Aug 12:00	2.91	70.9	82.65	19.36	840.0
24-Aug 12:30	4.78	11.6	76.43	20.91	879.2
24-Aug 13:00	2.57	315.4	72.77	21.25	519.7
24-Aug 13:30	5.92	51.1	70.65	21.68	1055.1
24-Aug 14:00	5.42	12.7	71.40	21.95	642.0
24-Aug 14:30	7.48	345.5	66.30	22.83	838.0
24-Aug 15:00	5.95	50.0	64.74	23.45	818.7
24-Aug 15:30	4.91	338.6	60.54	24.32	689.2
24-Aug 16:00	3.29	325.6	58.49	24.38	580.4
24-Aug 16:30	3.39	59.0	56.98	24.64	482.4
24-Aug 17:00	2.23	31.9	54.54	25.00	401.1
24-Aug 17:30	6.60	16.2	52.31	24.70	301.1
24-Aug 18:00	2.92	56.0	51.71	24.84	204.7

24-Aug 18:30	3.20	24.0	52.61	24.70	119.9
24-Aug 19:00	2.40	39.1	51.64	24.19	37.7
24-Aug 19:30	6.13	26.9	50.64	22.82	16.2
24-Aug 20:00	3.21	54.2	60.01	21.27	1.3
24-Aug 20:30	0.00	0.0	66.64	19.80	0.0
24-Aug 21:00	2.53	87.2	66.56	18.95	0.0
24-Aug 21:30	2.08	127.3	65.73	18.46	0.0
24-Aug 22:00	0.00	0.0	71.03	17.81	0.0
24-Aug 22:30	2.43	57.1	74.74	16.87	0.0
24-Aug 23:00	3.12	63.7	82.52	15.71	0.0
24-Aug 23:30	3.16	60.8	82.77	15.16	0.0
25-Aug 0:00	3.25	83.2	87.19	14.46	0.0
25-Aug 0:30	7.16	76.4	89.16	13.75	0.0
25-Aug 1:00	5.53	76.9	91.87	13.28	0.0
25-Aug 1:30	3.52	65.1	93.55	13.00	0.0
25-Aug 2:00	3.02	73.9	93.96	12.36	0.0
25-Aug 2:30	6.58	72.3	95.50	12.08	0.0
25-Aug 3:00	5.51	71.3	94.09	12.16	0.0
25-Aug 3:30	3.76	66.8	93.60	12.00	0.0
25-Aug 4:00	5.77	86.3	93.85	11.52	0.0
25-Aug 4:30	4.40	110.4	95.04	10.78	0.0
25-Aug 5:00	2.86	108.2	94.88	10.54	0.0
25-Aug 5:30	2.08	117.7	94.03	10.30	0.0
25-Aug 6:00	3.77	89.9	94.89	10.30	0.1
25-Aug 6:30	3.53	94.9	94.78	9.81	8.7
25-Aug 7:00	6.02	83.4	93.43	10.13	47.0
25-Aug 7:30	4.57	72.4	89.33	11.27	214.2
25-Aug 8:00	4.86	71.8	84.39	12.49	378.1
25-Aug 8:30	3.53	67.7	82.74	13.46	326.3
25-Aug 9:00	4.83	66.0	75.93	15.86	571.7
25-Aug 9:30	4.05	52.2	74.68	17.41	704.4
25-Aug 10:00	1.67	67.2	72.02	18.93	623.7
25-Aug 10:30	6.49	159.1	74.22	19.31	265.5
25-Aug 11:00	1.92	216.1	68.74	20.65	998.6
25-Aug 11:30	1.97	180.3	65.32	20.64	717.3
25-Aug 12:00	7.48	230.3	55.78	22.00	878.7
25-Aug 12:30	3.33	143.7	52.96	22.11	916.3
25-Aug 13:00	0.43	33.3	50.26	23.17	787.6
25-Aug 13:30	8.45	241.3	54.10	22.93	965.6
25-Aug 14:00	4.00	173.6	53.55	23.38	904.1
25-Aug 14:30	3.25	138.5	51.38	23.74	931.1
25-Aug 15:00	5.18	172.1	50.35	24.02	394.9
25-Aug 15:30	3.02	221.5	48.48	24.57	767.9
25-Aug 16:00	4.27	168.2	51.14	23.84	145.2
25-Aug 16:30	7.50	231.9	46.69	24.93	527.3
25-Aug 17:00	7.15	179.5	49.20	24.54	388.1
25-Aug 17:30	6.37	236.1	48.33	24.80	281.1
25-Aug 18:00	5.86	229.6	47.97	24.74	195.2
25-Aug 18:30	3.87	223.5	50.95	24.51	100.5
25-Aug 19:00	3.21	181.0	56.25	23.58	35.2
25-Aug 19:30	3.17	172.1	63.45	22.41	13.0
25-Aug 20:00	2.41	139.9	70.61	20.79	0.8

25-Aug 20:30	3.43	151.4	73.26	19.96	0.0
25-Aug 21:00	2.17	127.9	77.24	18.95	0.0
25-Aug 21:30	0.56	129.3	79.19	18.41	0.0
25-Aug 22:00	1.38	89.5	82.46	17.40	0.0
25-Aug 22:30	2.93	12.2	83.33	17.15	0.0
25-Aug 23:00	1.82	206.1	77.54	16.85	0.0
25-Aug 23:30	2.01	46.1	80.84	16.23	0.0
26-Aug 0:00	2.56	51.0	85.07	15.44	0.0
26-Aug 0:30	3.58	40.8	85.45	14.78	0.0
26-Aug 1:00	3.74	49.4	87.65	14.13	0.0
26-Aug 1:30	2.68	50.7	90.51	13.45	0.0
26-Aug 2:00	2.00	67.4	91.22	13.50	0.0
26-Aug 2:30	1.35	85.8	91.78	13.23	0.0
26-Aug 3:00	2.49	65.5	93.58	12.88	0.0
26-Aug 3:30	2.90	43.7	94.32	12.68	0.0
26-Aug 4:00	2.21	74.6	95.24	12.52	0.0
26-Aug 4:30	3.89	41.0	95.44	12.15	0.0
26-Aug 5:00	3.09	59.1	96.25	11.74	0.0
26-Aug 5:30	3.12	64.1	96.51	11.58	0.0
26-Aug 6:00	3.85	47.7	96.27	11.34	0.0
26-Aug 6:30	4.17	42.0	96.25	10.98	7.4
26-Aug 7:00	3.20	60.1	95.90	11.08	61.9
26-Aug 7:30	3.21	48.6	93.48	11.62	153.0
26-Aug 8:00	2.92	63.4	88.58	12.97	269.1
26-Aug 8:30	0.63	82.3	83.40	14.65	378.5
26-Aug 9:00	2.85	228.4	78.59	16.96	445.3
26-Aug 9:30	9.00	239.8	72.39	17.92	604.0
26-Aug 10:00	7.43	224.5	70.45	18.43	313.2
26-Aug 10:30	6.84	182.2	67.72	19.25	734.6
26-Aug 11:00	8.37	233.7	63.61	20.57	768.7
26-Aug 11:30	4.79	184.0	63.73	20.85	794.3
26-Aug 12:00	8.35	246.1	62.33	22.08	913.3
26-Aug 12:30	9.88	224.4	60.99	22.18	876.6
26-Aug 13:00	7.64	217.1	60.36	22.90	920.9
26-Aug 13:30	3.62	123.5	60.11	23.30	903.6
26-Aug 14:00	1.61	140.0	58.00	24.17	874.1
26-Aug 14:30	10.42	238.8	57.45	24.72	738.7
26-Aug 15:00	14.63	222.4	58.24	24.51	580.2
26-Aug 15:30	9.50	162.9	58.06	24.67	626.4
26-Aug 16:00	8.74	219.1	56.78	25.07	645.9
26-Aug 16:30	4.44	197.9	57.20	25.01	419.2
26-Aug 17:00	11.95	229.3	56.36	25.16	353.4
26-Aug 17:30	11.01	231.0	58.26	24.50	261.1
26-Aug 18:00	5.34	240.1	61.10	24.22	135.8
26-Aug 18:30	10.88	225.8	62.01	23.90	71.2
26-Aug 19:00	2.61	248.2	63.89	23.68	43.6
26-Aug 19:30	2.79	240.3	67.49	23.01	8.3
26-Aug 20:00	1.33	180.0	69.46	22.37	0.3
26-Aug 20:30	0.59	217.7	70.73	21.83	0.0
26-Aug 21:00	0.86	227.6	73.31	21.22	0.0
26-Aug 21:30	2.05	240.2	74.45	20.89	0.0
26-Aug 22:00	0.00	0.0	82.64	19.78	0.0

26-Aug 22:30	2.09	200.4	82.50	19.73	0.0
26-Aug 23:00	1.87	219.3	75.41	20.64	0.0
26-Aug 23:30	2.56	209.1	76.86	20.16	0.0
27-Aug 0:00	1.85	230.6	76.31	20.18	0.0
27-Aug 0:30	2.04	230.5	77.34	19.95	0.0
27-Aug 1:00	1.93	213.6	81.23	19.61	0.0
27-Aug 1:30	1.86	270.0	80.80	19.40	0.0
27-Aug 2:00	3.34	228.8	82.82	19.03	0.0
27-Aug 2:30	1.85	247.8	83.90	19.08	0.0
27-Aug 3:00	2.96	240.1	85.09	19.06	0.0
27-Aug 3:30	0.00	0.0	86.03	19.04	0.0
27-Aug 4:00	4.63	209.8	86.46	19.17	0.0
27-Aug 4:30	2.69	243.7	87.61	19.21	0.0
27-Aug 5:00	5.75	161.2	88.96	18.89	0.0
27-Aug 5:30	3.06	228.8	88.87	19.05	0.0
27-Aug 6:00	1.08	63.5	90.57	18.88	0.0
27-Aug 6:30	4.83	224.9	94.73	18.12	1.1
27-Aug 7:00	3.87	233.5	96.33	18.43	8.2
27-Aug 7:30	2.57	225.6	96.63	18.69	30.0
27-Aug 8:00	1.11	242.0	96.80	18.75	67.0
27-Aug 8:30	0.00	0.0	96.83	19.11	96.7
27-Aug 9:00	3.31	228.9	96.74	19.37	109.9
27-Aug 9:30	2.21	214.0	96.89	19.56	62.8
27-Aug 10:00	1.11	225.1	96.62	20.07	214.1
27-Aug 10:30	2.26	247.4	93.29	20.55	133.8
27-Aug 11:00	3.69	264.0	93.89	20.70	105.9
27-Aug 11:30	2.87	219.2	93.92	20.79	67.0
27-Aug 12:00	10.17	341.1	90.75	20.20	37.8
27-Aug 12:30	5.78	38.3	91.73	19.21	59.1
27-Aug 13:00	6.04	40.2	92.05	19.64	84.8
27-Aug 13:30	5.44	62.9	92.06	19.45	98.4
27-Aug 14:00	6.66	37.6	91.53	19.18	30.0
27-Aug 14:30	3.94	99.8	94.03	19.08	250.1
27-Aug 15:00	2.67	59.3	89.21	20.32	360.3
27-Aug 15:30	3.45	48.4	84.62	20.92	340.4
27-Aug 16:00	2.84	52.7	81.73	22.00	397.4
27-Aug 16:30	7.28	40.4	77.32	22.27	503.5
27-Aug 17:00	3.78	41.4	71.01	23.02	392.3
27-Aug 17:30	3.80	41.1	69.89	23.47	297.6
27-Aug 18:00	1.19	39.5	68.74	23.83	187.4
27-Aug 18:30	0.00	0.0	67.05	24.36	104.5
27-Aug 19:00	1.56	292.9	76.14	22.56	25.7
27-Aug 19:30	0.00	0.0	87.84	20.83	6.5
27-Aug 20:00	1.18	64.4	92.56	19.65	0.6
27-Aug 20:30	2.47	83.8	95.10	18.87	0.0
27-Aug 21:00	3.23	89.1	95.17	18.46	0.0
27-Aug 21:30	3.35	77.8	95.43	17.96	0.0
27-Aug 22:00	3.33	70.4	96.80	17.52	0.0
27-Aug 22:30	4.37	75.9	97.57	17.05	0.0
27-Aug 23:00	4.12	69.1	97.88	16.66	0.0
27-Aug 23:30	4.18	68.5	97.98	16.32	0.0
28-Aug 0:00	4.87	75.4	98.18	16.15	0.0

28-Aug 0:30	5.63	76.3	98.14	15.87	0.0
28-Aug 1:00	3.46	101.1	98.23	15.28	0.0
28-Aug 1:30	4.93	77.6	98.34	15.34	0.0
28-Aug 2:00	4.62	80.6	98.38	15.16	0.0
28-Aug 2:30	4.36	70.2	98.39	15.17	0.0
28-Aug 3:00	4.44	75.5	98.40	15.09	0.0
28-Aug 3:30	3.12	59.9	98.41	15.03	0.0
28-Aug 4:00	3.12	68.4	98.44	14.87	0.0
28-Aug 4:30	3.12	59.3	98.46	14.63	0.0
28-Aug 5:00	3.65	64.6	98.50	14.28	0.0
28-Aug 5:30	3.84	53.0	98.52	14.04	0.0
28-Aug 6:00	2.82	60.7	98.56	14.06	0.0
28-Aug 6:30	2.31	62.3	98.57	14.02	1.4
28-Aug 7:00	1.78	87.7	98.56	13.96	19.4
28-Aug 7:30	2.62	101.3	98.55	13.97	47.8
28-Aug 8:00	4.03	69.7	98.49	14.14	97.5
28-Aug 8:30	1.66	105.2	98.21	14.65	249.2
28-Aug 9:00	0.00	0.0	98.11	16.32	525.7
28-Aug 9:30	2.12	199.4	96.92	17.64	610.0
28-Aug 10:00	2.43	157.1	88.08	19.35	676.3
28-Aug 10:30	5.33	212.4	74.21	21.33	739.8
28-Aug 11:00	2.88	139.4	66.14	22.79	793.8
28-Aug 11:30	8.38	227.6	54.30	24.16	837.6
28-Aug 12:00	8.60	275.6	55.05	24.51	867.4
28-Aug 12:30	2.80	176.1	51.22	25.51	868.8
28-Aug 13:00	7.94	273.8	52.81	25.57	655.8
28-Aug 13:30	6.87	294.7	51.14	25.92	537.9
28-Aug 14:00	5.98	255.8	52.81	25.97	846.1
28-Aug 14:30	10.16	286.2	53.34	26.07	200.6
28-Aug 15:00	5.72	248.2	49.58	26.74	737.9
28-Aug 15:30	6.59	241.5	51.06	26.28	202.7
28-Aug 16:00	8.77	54.7	55.57	22.38	40.6
28-Aug 16:30	1.18	192.2	84.64	18.85	3.9
28-Aug 17:00	3.07	271.1	92.37	17.53	19.6
28-Aug 17:30	2.77	203.2	94.21	17.18	41.0
28-Aug 18:00	2.87	253.4	94.37	17.35	56.8
28-Aug 18:30	3.80	330.7	94.26	17.32	70.0
28-Aug 19:00	2.51	11.5	94.96	17.26	67.2
28-Aug 19:30	1.19	262.3	93.94	17.55	24.2
28-Aug 20:00	3.02	342.8	95.99	17.05	1.2
28-Aug 20:30	0.63	212.3	96.30	17.10	0.0
28-Aug 21:00	2.41	41.5	96.54	16.83	0.0
28-Aug 21:30	1.18	42.7	96.88	16.57	0.0
28-Aug 22:00	0.44	233.2	97.29	16.50	0.0
28-Aug 22:30	1.55	114.1	97.61	16.05	0.0
28-Aug 23:00	1.25	94.9	97.90	15.62	0.0
28-Aug 23:30	0.97	132.6	98.18	15.42	0.0
29-Aug 0:00	0.00	0.0	97.98	15.19	0.0
29-Aug 0:30	0.00	0.0	98.14	15.09	0.0
29-Aug 1:00	0.00	0.0	98.26	15.50	0.0
29-Aug 1:30	3.12	232.1	98.20	15.37	0.0
29-Aug 2:00	0.00	0.0	98.35	15.24	0.0

29-Aug	2:30	2.35	61.8	98.38	14.80	0.0
29-Aug	3:00	0.00	0.0	98.45	15.08	0.0
29-Aug	3:30	0.00	0.0	98.44	14.60	0.0
29-Aug	4:00	1.59	75.5	98.50	14.56	0.0
29-Aug	4:30	2.69	109.4	98.52	14.53	0.0
29-Aug	5:00	1.07	90.5	98.54	14.63	0.0
29-Aug	5:30	3.74	105.4	98.57	13.78	0.0
29-Aug	6:00	0.79	35.9	98.62	13.61	0.0
29-Aug	6:30	0.00	0.0	98.62	14.24	2.3
29-Aug	7:00	0.00	0.0	98.61	14.29	20.6
29-Aug	7:30	0.00	0.0	98.58	14.30	76.3
29-Aug	8:00	1.49	79.8	98.41	15.26	342.3
29-Aug	8:30	4.68	332.3	97.78	16.25	294.7
29-Aug	9:00	4.59	52.6	92.93	16.86	224.1
29-Aug	9:30	7.68	60.0	84.05	17.66	719.0
29-Aug	10:00	4.54	16.5	76.42	18.76	707.4
29-Aug	10:30	3.91	51.2	71.61	19.49	773.8
29-Aug	11:00	3.60	52.5	68.75	20.15	827.1
29-Aug	11:30	5.61	8.6	61.21	21.13	900.2
29-Aug	12:00	8.46	342.7	53.66	21.28	1059.8
29-Aug	12:30	6.89	56.0	46.32	21.77	563.5
29-Aug	13:00	5.10	66.7	49.26	22.05	943.6
29-Aug	13:30	3.43	84.7	45.87	22.64	971.0
29-Aug	14:00	3.76	61.2	49.89	22.13	234.9
29-Aug	14:30	2.38	80.6	45.52	23.36	906.7
29-Aug	15:00	7.33	318.8	44.89	23.34	782.0
29-Aug	15:30	1.63	42.1	45.86	23.25	235.0
29-Aug	16:00	2.32	60.4	46.92	23.67	180.2
29-Aug	16:30	5.96	13.7	50.50	23.07	496.1
29-Aug	17:00	7.57	17.8	48.55	23.52	455.4
29-Aug	17:30	5.05	24.4	50.40	23.09	291.3
29-Aug	18:00	6.39	6.7	52.80	22.42	181.7
29-Aug	18:30	4.26	23.0	53.25	22.28	91.2
29-Aug	19:00	4.28	22.2	54.42	21.99	26.8
29-Aug	19:30	1.57	56.8	66.52	20.98	10.6
29-Aug	20:00	2.56	103.2	77.13	18.24	0.5
29-Aug	20:30	1.89	83.4	80.90	17.03	0.0
29-Aug	21:00	3.74	86.5	84.89	15.87	0.0
29-Aug	21:30	4.22	76.9	89.48	14.94	0.0
29-Aug	22:00	4.74	76.1	92.27	14.46	0.0
29-Aug	22:30	4.38	88.4	92.45	13.79	0.0
29-Aug	23:00	6.06	78.4	94.16	13.46	0.0
29-Aug	23:30	4.34	99.5	94.64	13.05	0.0
30-Aug	0:00	5.95	75.5	94.05	13.08	0.0
30-Aug	0:30	6.22	74.4	94.27	13.05	0.0
30-Aug	1:00	6.14	75.1	94.27	12.89	0.0
30-Aug	1:30	3.61	65.4	93.34	12.52	0.0
30-Aug	2:00	5.43	76.7	91.87	12.64	0.0
30-Aug	2:30	2.56	104.6	92.92	12.19	0.0
30-Aug	3:00	3.82	91.8	93.61	11.79	0.0
30-Aug	3:30	5.18	84.1	93.74	11.71	0.0
30-Aug	4:00	4.32	89.2	94.33	11.32	0.0

30-Aug 4:30	5.65	85.5	94.18	11.24	0.0
30-Aug 5:00	3.58	74.3	95.92	11.08	0.0
30-Aug 5:30	3.25	62.9	94.79	11.01	0.0
30-Aug 6:00	1.71	76.1	94.34	11.10	0.0
30-Aug 6:30	3.53	69.2	94.28	11.39	1.5
30-Aug 7:00	3.49	50.1	92.45	11.94	14.8
30-Aug 7:30	5.92	75.4	89.20	12.66	50.4
30-Aug 8:00	5.23	61.7	85.05	13.66	56.9
30-Aug 8:30	3.76	83.4	83.83	14.34	82.9
30-Aug 9:00	3.54	66.9	85.04	14.64	75.3
30-Aug 9:30	1.44	113.6	78.07	15.66	84.5
30-Aug 10:00	4.40	47.7	78.24	16.74	183.2
30-Aug 10:30	2.80	55.4	78.64	17.63	203.9
30-Aug 11:00	2.54	232.4	81.04	18.01	147.9
30-Aug 11:30	0.00	0.0	78.43	19.17	296.2
30-Aug 12:00	9.27	218.1	77.94	19.97	221.2
30-Aug 12:30	6.58	215.6	73.00	21.60	903.8
30-Aug 13:00	6.48	218.9	65.83	22.89	741.2
30-Aug 13:30	12.93	208.1	62.85	23.20	395.0
30-Aug 14:00	4.01	182.0	68.85	22.23	308.1
30-Aug 14:30	11.20	219.0	69.51	22.72	334.1
30-Aug 15:00	3.72	208.6	72.42	22.64	180.9
30-Aug 15:30	14.82	194.6	72.22	22.84	501.9
30-Aug 16:00	4.75	156.3	69.97	23.78	321.8
30-Aug 16:30	7.38	229.2	68.34	24.33	312.4
30-Aug 17:00	4.72	239.2	67.90	24.32	372.8
30-Aug 17:30	6.72	215.3	70.08	23.77	144.7
30-Aug 18:00	3.85	250.2	72.97	23.31	89.5
30-Aug 18:30	5.25	164.6	74.22	23.20	89.1
30-Aug 19:00	1.15	117.8	74.05	22.71	37.1
30-Aug 19:30	1.70	124.6	76.51	22.04	6.9
30-Aug 20:00	0.00	0.0	80.66	21.33	0.0
30-Aug 20:30	0.80	96.8	81.92	21.18	0.0
30-Aug 21:00	1.50	34.4	86.29	20.61	0.0
30-Aug 21:30	2.33	153.7	82.79	21.07	0.0
30-Aug 22:00	1.17	84.2	83.90	21.04	0.0
30-Aug 22:30	0.80	203.7	83.70	21.13	0.0
30-Aug 23:00	3.50	194.7	85.13	21.07	0.0
30-Aug 23:30	3.50	260.3	86.79	21.15	0.0
31-Aug 0:00	1.29	153.8	88.35	21.05	0.0
31-Aug 0:30	1.78	185.1	91.22	20.63	0.0
31-Aug 1:00	0.89	173.7	91.58	20.62	0.0
31-Aug 1:30	5.66	206.7	91.07	20.73	0.0
31-Aug 2:00	2.44	244.0	91.20	20.76	0.0
31-Aug 2:30	4.12	241.6	91.23	20.69	0.0
31-Aug 3:00	6.51	233.6	90.84	20.61	0.0
31-Aug 3:30	3.72	216.3	90.60	20.35	0.0
31-Aug 4:00	3.58	196.3	91.54	20.02	0.0
31-Aug 4:30	3.76	216.6	91.58	20.02	0.0
31-Aug 5:00	2.51	240.9	91.84	19.95	0.0
31-Aug 5:30	2.05	233.0	92.55	19.79	0.0
31-Aug 6:00	2.21	184.4	91.57	19.82	0.0

31-Aug	6:30	4.05	221.9	90.35	19.80	1.0
31-Aug	7:00	4.20	225.5	90.00	19.77	12.1
31-Aug	7:30	6.11	219.5	90.38	19.68	29.2
31-Aug	8:00	3.75	226.6	90.10	19.79	46.5
31-Aug	8:30	6.53	227.5	87.80	20.20	157.3
31-Aug	9:00	5.08	242.7	86.52	20.55	292.5
31-Aug	9:30	3.46	222.9	80.23	21.91	325.5
31-Aug	10:00	2.13	83.9	77.72	22.80	223.0
31-Aug	10:30	2.55	96.5	75.68	23.29	705.8
31-Aug	11:00	3.46	209.7	70.88	24.45	760.1
31-Aug	11:30	3.75	240.9	69.42	24.85	287.5
31-Aug	12:00	5.78	200.9	65.54	25.99	858.1
31-Aug	12:30	6.22	202.7	63.78	26.11	252.0
31-Aug	13:00	6.38	232.8	76.73	23.52	128.3
31-Aug	13:30	6.46	210.7	80.79	22.77	157.9
31-Aug	14:00	7.78	170.4	69.72	23.42	794.1
31-Aug	14:30	9.80	152.0	75.74	22.90	788.5
31-Aug	15:00	4.65	136.2	68.65	25.02	332.9
31-Aug	15:30	4.90	218.7	69.25	25.65	567.2
31-Aug	16:00	4.83	233.8	64.43	26.83	509.0
31-Aug	16:30	7.90	170.5	61.32	26.51	315.6
31-Aug	17:00	4.40	222.8	64.61	26.02	165.0
31-Aug	17:30	7.94	213.8	64.63	25.79	101.9
31-Aug	18:00	1.89	286.8	66.09	25.86	72.1
31-Aug	18:30	2.09	244.0	70.15	25.15	17.2
31-Aug	19:00	9.20	198.8	73.55	24.41	1.0
31-Aug	19:30	5.85	215.1	89.99	22.25	0.0
31-Aug	20:00	9.13	232.9	96.82	19.99	0.0
31-Aug	20:30	2.92	245.0	97.13	19.16	0.0
31-Aug	21:00	4.03	256.6	97.54	19.28	0.0
31-Aug	21:30	2.29	221.3	97.73	19.49	0.0
31-Aug	22:00	3.13	241.4	97.68	19.33	0.0
31-Aug	22:30	0.82	170.3	97.70	19.48	0.0
31-Aug	23:00	1.89	213.5	97.77	19.51	0.0
31-Aug	23:30	6.20	231.0	97.68	19.33	0.0
1-Sep	0:00	7.00	244.4	97.66	19.37	0.0
1-Sep	0:30	3.26	231.6	97.81	19.40	0.0
1-Sep	1:00	3.75	226.2	97.66	19.09	0.0
1-Sep	1:30	4.81	253.9	97.28	18.78	0.0
1-Sep	2:00	5.83	255.2	97.36	18.75	0.0
1-Sep	2:30	4.84	289.6	97.42	18.71	0.0
1-Sep	3:00	8.98	347.6	94.50	18.22	0.0
1-Sep	3:30	3.14	357.1	94.61	17.78	0.0
1-Sep	4:00	4.55	328.3	92.80	17.84	0.0
1-Sep	4:30	6.16	6.3	90.17	17.79	0.0
1-Sep	5:00	0.00	0.0	91.30	17.57	0.0
1-Sep	5:30	4.67	22.1	88.73	16.73	0.0
1-Sep	6:00	1.50	16.8	89.56	16.59	0.0
1-Sep	6:30	4.85	3.5	88.53	16.20	1.0
1-Sep	7:00	4.42	16.6	86.90	16.11	12.7
1-Sep	7:30	8.48	315.1	85.09	16.33	38.7
1-Sep	8:00	3.26	328.1	81.44	16.49	68.7

1-Sep 8:30	6.36	360.0	77.59	17.25	449.1
1-Sep 9:00	11.42	357.8	73.66	17.61	542.5
1-Sep 9:30	15.60	328.4	69.78	18.03	170.6
1-Sep 10:00	1.21	19.8	74.82	17.60	183.3
1-Sep 10:30	4.64	57.2	70.49	18.36	804.7
1-Sep 11:00	8.59	359.9	68.18	18.14	297.3
1-Sep 11:30	12.35	32.0	61.03	19.21	969.6
1-Sep 12:00	10.63	43.0	66.41	18.29	422.7
1-Sep 12:30	6.19	47.5	59.92	19.21	432.8
1-Sep 13:00	7.99	23.1	67.22	17.93	912.2
1-Sep 13:30	4.98	39.6	56.33	19.01	685.6
1-Sep 14:00	12.28	32.9	57.68	18.43	963.4
1-Sep 14:30	7.22	50.5	55.46	18.49	794.2
1-Sep 15:00	7.14	34.0	53.27	18.42	730.3
1-Sep 15:30	12.53	345.9	52.79	18.51	647.2
1-Sep 16:00	5.79	35.2	54.84	18.31	566.2
1-Sep 16:30	6.16	52.8	55.34	17.82	478.4
1-Sep 17:00	9.74	39.9	54.14	17.99	379.4
1-Sep 17:30	5.66	8.7	54.79	17.79	279.6
1-Sep 18:00	5.55	7.7	56.99	17.32	183.9
1-Sep 18:30	1.60	48.0	58.25	17.18	79.6
1-Sep 19:00	7.09	15.9	58.46	16.71	19.2
1-Sep 19:30	4.85	0.2	63.46	15.69	7.7
1-Sep 20:00	1.16	279.8	70.16	14.73	0.1
1-Sep 20:30	3.04	309.9	70.83	14.05	0.0
1-Sep 21:00	4.60	4.9	72.93	13.43	0.0
1-Sep 21:30	2.33	44.6	85.14	12.46	0.0
1-Sep 22:00	3.71	61.9	81.62	11.93	0.0
1-Sep 22:30	7.76	40.5	78.64	12.01	0.0
1-Sep 23:00	2.65	66.3	78.50	11.85	0.0
1-Sep 23:30	6.21	70.5	79.95	12.01	0.0
2-Sep 0:00	9.09	77.0	81.21	11.25	0.0
2-Sep 0:30	3.65	113.1	84.45	10.47	0.0
2-Sep 1:00	3.79	74.8	91.26	9.69	0.0
2-Sep 1:30	3.80	53.1	93.67	9.08	0.0
2-Sep 2:00	4.85	80.7	95.56	8.55	0.0
2-Sep 2:30	5.03	89.6	96.06	8.11	0.0
2-Sep 3:00	3.24	83.7	96.03	7.27	0.0
2-Sep 3:30	3.54	98.8	95.72	7.64	0.0
2-Sep 4:00	5.28	17.8	96.05	6.86	0.0
2-Sep 4:30	4.09	94.6	96.82	6.35	0.0
2-Sep 5:00	3.38	86.1	96.95	6.35	0.0
2-Sep 5:30	4.28	78.7	97.09	6.27	0.0
2-Sep 6:00	2.43	112.2	96.00	5.62	0.0
2-Sep 6:30	0.32	98.2	96.21	5.55	5.4
2-Sep 7:00	2.77	106.0	93.80	5.54	125.7
2-Sep 7:30	4.48	69.5	94.03	5.83	214.7
2-Sep 8:00	2.30	72.5	91.99	7.10	300.3
2-Sep 8:30	2.94	85.4	86.63	8.59	440.6
2-Sep 9:00	4.56	72.1	82.14	10.38	555.3
2-Sep 9:30	5.07	69.4	71.98	12.56	638.3
2-Sep 10:00	1.97	76.5	65.97	14.30	725.0

2-Sep 10:30	0.00	0.0	58.46	16.31	758.0
2-Sep 11:00	2.66	196.4	57.73	16.07	847.0
2-Sep 11:30	2.07	152.1	54.74	16.73	850.4
2-Sep 12:00	1.79	226.2	49.74	17.07	817.2
2-Sep 12:30	3.57	157.2	44.57	17.99	883.0
2-Sep 13:00	3.99	230.9	40.75	18.80	912.1
2-Sep 13:30	2.95	215.7	40.82	18.79	670.7
2-Sep 14:00	2.06	184.4	38.98	19.20	780.2
2-Sep 14:30	2.95	283.5	37.97	20.27	822.2
2-Sep 15:00	2.43	180.4	35.67	20.10	730.7
2-Sep 15:30	2.53	232.6	40.64	21.16	651.0
2-Sep 16:00	6.28	253.2	42.76	20.39	562.0
2-Sep 16:30	0.82	222.6	42.22	20.67	470.3
2-Sep 17:00	5.51	214.5	40.76	21.00	367.6
2-Sep 17:30	4.41	188.0	42.70	20.64	262.8
2-Sep 18:00	2.20	199.1	46.04	20.33	170.1
2-Sep 18:30	2.30	222.7	46.80	20.08	62.9
2-Sep 19:00	2.34	192.1	50.02	19.63	18.5
2-Sep 19:30	2.39	145.6	56.29	18.35	6.7
2-Sep 20:00	4.01	77.3	76.79	15.03	0.0
2-Sep 20:30	3.28	87.5	81.18	13.94	0.0
2-Sep 21:00	2.45	68.6	86.61	12.68	0.0
2-Sep 21:30	3.48	64.7	89.29	11.96	0.0
2-Sep 22:00	4.10	61.8	91.52	11.20	0.0
2-Sep 22:30	3.74	90.2	91.88	10.12	0.0
2-Sep 23:00	6.43	70.6	93.25	10.03	0.0
2-Sep 23:30	4.95	85.3	94.16	9.41	0.0
3-Sep 0:00	4.67	67.7	95.20	9.22	0.0
3-Sep 0:30	4.31	83.4	94.55	8.68	0.0
3-Sep 1:00	4.90	54.2	95.37	8.52	0.0
3-Sep 1:30	5.11	84.7	95.10	8.53	0.0
3-Sep 2:00	6.89	77.1	95.28	8.05	0.0
3-Sep 2:30	5.02	71.2	95.63	8.08	0.0
3-Sep 3:00	4.09	64.5	95.76	7.75	0.0
3-Sep 3:30	5.46	67.8	95.45	7.46	0.0
3-Sep 4:00	3.96	60.3	96.03	7.09	0.0
3-Sep 4:30	5.55	61.1	95.99	7.09	0.0
3-Sep 5:00	5.05	66.8	95.77	6.84	0.0
3-Sep 5:30	3.61	60.4	96.44	6.71	0.0
3-Sep 6:00	4.19	47.2	97.27	7.18	0.0
3-Sep 6:30	3.63	66.4	98.22	7.91	0.9
3-Sep 7:00	2.97	54.5	98.34	8.40	10.2
3-Sep 7:30	2.88	65.1	98.41	8.81	24.5
3-Sep 8:00	2.72	48.2	98.42	9.70	55.6
3-Sep 8:30	2.06	82.9	98.47	10.97	80.8
3-Sep 9:00	0.47	144.9	98.45	12.67	171.9
3-Sep 9:30	9.19	217.4	95.19	13.97	251.5
3-Sep 10:00	8.28	226.3	88.22	14.51	321.4
3-Sep 10:30	5.91	225.0	80.97	16.11	717.2
3-Sep 11:00	6.96	233.7	74.50	17.63	790.6
3-Sep 11:30	4.38	218.1	69.44	19.10	825.4
3-Sep 12:00	9.63	211.8	65.50	19.67	882.5

3-Sep 12:30	10.29	234.4	59.75	20.28	883.9
3-Sep 13:00	11.45	237.7	58.13	20.97	885.0
3-Sep 13:30	4.98	154.7	56.63	21.15	869.5
3-Sep 14:00	5.02	180.7	55.27	21.82	796.0
3-Sep 14:30	7.07	217.5	55.24	22.16	781.7
3-Sep 15:00	6.53	230.5	58.44	21.73	515.8
3-Sep 15:30	12.19	227.5	56.03	22.52	539.5
3-Sep 16:00	4.38	251.1	55.02	22.72	148.0
3-Sep 16:30	6.47	246.8	56.79	22.37	447.7
3-Sep 17:00	2.88	155.6	57.31	22.21	119.3
3-Sep 17:30	4.98	208.5	57.44	22.19	241.5
3-Sep 18:00	3.90	153.6	58.67	21.84	74.4
3-Sep 18:30	5.26	207.7	59.00	21.85	65.3
3-Sep 19:00	3.69	222.4	62.75	21.00	28.0
3-Sep 19:30	4.79	187.2	65.15	20.12	5.7
3-Sep 20:00	2.81	194.6	68.70	19.12	0.0
3-Sep 20:30	2.19	49.5	76.52	18.24	0.0
3-Sep 21:00	0.00	0.0	84.78	16.36	0.0
3-Sep 21:30	2.30	64.1	88.56	15.43	0.0
3-Sep 22:00	2.45	50.2	90.31	14.75	0.0
3-Sep 22:30	1.35	59.4	91.81	14.27	0.0
3-Sep 23:00	2.84	63.3	92.65	13.86	0.0
3-Sep 23:30	2.76	52.3	93.24	13.84	0.0
4-Sep 0:00	2.62	45.3	93.07	13.51	0.0
4-Sep 0:30	2.37	43.1	94.32	13.65	0.0
4-Sep 1:00	1.73	47.7	93.47	13.76	0.0
4-Sep 1:30	2.65	70.6	92.59	14.20	0.0
4-Sep 2:00	2.26	55.8	92.38	14.68	0.0
4-Sep 2:30	1.20	93.9	93.32	14.64	0.0
4-Sep 3:00	3.04	33.2	94.79	14.46	0.0
4-Sep 3:30	0.00	0.0	95.15	14.30	0.0
4-Sep 4:00	1.61	73.7	95.08	14.43	0.0
4-Sep 4:30	0.88	55.0	95.13	14.58	0.0
4-Sep 5:00	1.93	59.3	94.61	14.54	0.0
4-Sep 5:30	0.00	0.0	95.15	14.95	0.0
4-Sep 6:00	1.02	61.1	95.27	15.16	0.0
4-Sep 6:30	0.75	19.7	94.82	15.35	1.5
4-Sep 7:00	2.67	59.6	95.39	15.27	18.7
4-Sep 7:30	1.06	252.4	95.08	16.03	53.4
4-Sep 8:00	1.06	221.2	92.02	16.65	149.4
4-Sep 8:30	8.76	232.1	91.11	17.64	91.3
4-Sep 9:00	6.25	220.8	91.91	17.46	94.0
4-Sep 9:30	5.53	229.4	89.08	18.22	156.9
4-Sep 10:00	4.09	290.6	87.27	18.74	208.0
4-Sep 10:30	3.93	263.2	78.15	20.88	755.7
4-Sep 11:00	3.11	200.8	77.16	21.33	372.8
4-Sep 11:30	6.34	310.3	75.78	21.50	176.5
4-Sep 12:00	2.51	241.3	75.40	22.01	176.6
4-Sep 12:30	1.62	291.7	73.09	22.30	225.1
4-Sep 13:00	2.70	266.8	71.69	22.98	522.2
4-Sep 13:30	8.35	287.4	70.11	23.03	246.7
4-Sep 14:00	2.67	205.2	68.78	23.52	121.7

4-Sep 14:30	4.51	325.8	84.14	21.48	15.1
4-Sep 15:00	4.82	168.6	89.45	20.52	69.5
4-Sep 15:30	10.01	236.9	96.63	18.44	198.8
4-Sep 16:00	0.00	0.0	96.97	19.25	159.2
4-Sep 16:30	0.33	269.4	94.82	20.05	208.7
4-Sep 17:00	2.07	205.4	92.33	20.13	146.6
4-Sep 17:30	1.31	278.9	92.18	20.27	115.3
4-Sep 18:00	2.83	56.2	91.30	20.49	244.4
4-Sep 18:30	0.00	0.0	86.15	20.94	85.6
4-Sep 19:00	1.82	9.7	86.48	20.67	25.9
4-Sep 19:30	0.00	0.0	93.96	19.33	5.2
4-Sep 20:00	0.00	0.0	95.71	18.47	0.0
4-Sep 20:30	2.40	61.6	97.11	17.81	0.0
4-Sep 21:00	3.90	37.5	97.45	17.49	0.0
4-Sep 21:30	4.84	25.1	93.21	17.50	0.0
4-Sep 22:00	7.52	34.1	86.71	17.18	0.0
4-Sep 22:30	4.43	41.9	88.55	16.31	0.0
4-Sep 23:00	4.88	36.7	88.98	15.88	0.0
4-Sep 23:30	7.94	47.1	84.69	16.01	0.0
5-Sep 0:00	3.84	65.6	87.82	15.70	0.0
5-Sep 0:30	2.42	277.9	90.07	14.79	0.0
5-Sep 1:00	2.67	107.6	91.32	14.46	0.0
5-Sep 1:30	2.23	247.5	93.42	14.00	0.0
5-Sep 2:00	2.11	219.1	94.05	13.78	0.0
5-Sep 2:30	5.73	41.2	92.86	14.31	0.0
5-Sep 3:00	7.57	55.1	90.94	14.89	0.0
5-Sep 3:30	5.43	48.2	89.86	14.66	0.0
5-Sep 4:00	6.85	43.1	87.91	14.35	0.0
5-Sep 4:30	5.55	2.9	89.08	14.30	0.0
5-Sep 5:00	5.55	43.1	88.72	14.23	0.0
5-Sep 5:30	8.61	33.5	87.49	13.98	0.0
5-Sep 6:00	8.54	48.4	86.97	13.72	0.0
5-Sep 6:30	8.95	42.2	84.40	13.46	1.6
5-Sep 7:00	13.15	29.9	86.38	13.33	62.0
5-Sep 7:30	10.79	51.5	86.28	13.05	54.3
5-Sep 8:00	5.29	69.2	84.45	13.39	128.0
5-Sep 8:30	6.81	61.9	77.14	14.33	292.1
5-Sep 9:00	6.24	65.5	71.78	14.14	658.8
5-Sep 9:30	10.18	45.0	68.78	14.89	323.7
5-Sep 10:00	6.41	36.8	66.36	14.78	403.5
5-Sep 10:30	9.36	53.1	62.84	15.41	809.9
5-Sep 11:00	7.83	12.7	61.89	16.06	824.0
5-Sep 11:30	8.20	34.7	58.28	16.74	860.6
5-Sep 12:00	6.25	57.8	56.23	17.44	882.6
5-Sep 12:30	10.52	10.3	54.44	17.40	902.0
5-Sep 13:00	12.13	3.7	50.98	17.95	895.1
5-Sep 13:30	2.55	24.3	50.86	18.46	864.4
5-Sep 14:00	6.32	7.2	48.34	19.03	829.2
5-Sep 14:30	6.76	50.8	46.97	18.75	778.7
5-Sep 15:00	5.76	45.2	47.47	19.73	712.3
5-Sep 15:30	6.72	17.0	43.44	19.97	636.8
5-Sep 16:00	10.03	343.1	43.46	19.75	551.7

5-Sep 16:30	6.46	326.0	44.17	19.92	462.4
5-Sep 17:00	5.03	338.1	42.51	20.15	360.5
5-Sep 17:30	6.02	5.7	45.12	19.90	256.1
5-Sep 18:00	7.48	347.7	44.08	19.86	162.6
5-Sep 18:30	6.15	354.6	46.20	19.55	55.4
5-Sep 19:00	2.52	27.3	48.71	18.93	17.1
5-Sep 19:30	4.39	328.2	55.64	17.49	4.7
5-Sep 20:00	0.00	0.0	70.04	15.74	0.0
5-Sep 20:30	1.88	88.3	81.00	13.73	0.0
5-Sep 21:00	1.55	54.7	84.72	12.31	0.0
5-Sep 21:30	2.16	22.0	86.76	11.66	0.0
5-Sep 22:00	2.71	72.8	91.85	11.28	0.0
5-Sep 22:30	3.23	48.2	93.50	10.74	0.0
5-Sep 23:00	3.72	40.5	92.27	10.01	0.0
5-Sep 23:30	2.79	53.3	92.91	9.65	0.0
6-Sep 0:00	2.90	42.0	95.48	9.39	0.0
6-Sep 0:30	1.02	75.2	95.05	9.07	0.0
6-Sep 1:00	1.89	85.6	95.09	8.49	0.0
6-Sep 1:30	1.47	96.9	95.09	8.01	0.0
6-Sep 2:00	2.05	87.2	96.47	7.75	0.0
6-Sep 2:30	3.32	71.2	97.51	7.36	0.0
6-Sep 3:00	3.89	90.2	97.24	6.67	0.0
6-Sep 3:30	3.95	81.3	97.33	6.44	0.0
6-Sep 4:00	3.54	97.1	97.48	6.08	0.0
6-Sep 4:30	4.00	60.4	97.29	5.93	0.0
6-Sep 5:00	4.38	71.0	97.11	5.40	0.0
6-Sep 5:30	3.81	72.2	97.01	5.26	0.0
6-Sep 6:00	3.72	70.4	96.60	4.89	0.0
6-Sep 6:30	3.75	64.5	96.25	4.65	2.5
6-Sep 7:00	4.93	90.6	96.82	4.35	68.2
6-Sep 7:30	5.18	51.4	92.70	5.57	215.3
6-Sep 8:00	3.36	66.1	90.20	6.85	313.5
6-Sep 8:30	2.38	55.3	85.41	8.72	415.5
6-Sep 9:00	1.87	64.5	80.63	10.89	530.1
6-Sep 9:30	1.33	104.2	71.45	13.77	630.7
6-Sep 10:00	0.00	0.0	59.64	17.25	709.3
6-Sep 10:30	2.12	58.3	55.23	18.38	772.1
6-Sep 11:00	3.25	204.2	52.46	19.43	828.5
6-Sep 11:30	3.43	240.4	54.16	18.97	862.3
6-Sep 12:00	3.59	208.5	39.66	19.45	885.0
6-Sep 12:30	7.13	223.2	29.76	20.43	902.1
6-Sep 13:00	4.37	179.6	32.17	20.76	891.4
6-Sep 13:30	5.81	206.1	26.71	21.41	864.0
6-Sep 14:00	3.32	119.3	30.63	22.34	821.9
6-Sep 14:30	2.10	280.7	34.40	23.23	763.8
6-Sep 15:00	7.67	240.0	37.47	22.88	694.0
6-Sep 15:30	4.83	247.3	40.57	23.23	612.5
6-Sep 16:00	5.11	233.7	39.52	23.35	528.5
6-Sep 16:30	0.00	0.0	36.72	24.60	437.8
6-Sep 17:00	7.23	232.7	43.40	23.15	332.2
6-Sep 17:30	5.56	239.0	43.19	23.18	232.2
6-Sep 18:00	4.31	240.3	40.23	22.89	142.3

6-Sep 18:30	2.45	180.4	42.56	22.55	39.5
6-Sep 19:00	2.14	231.8	49.29	21.78	16.7
6-Sep 19:30	0.00	0.0	58.11	20.35	2.6
6-Sep 20:00	1.64	83.5	74.89	16.55	0.0
6-Sep 20:30	3.31	91.3	79.73	14.93	0.0
6-Sep 21:00	4.78	78.4	85.10	13.68	0.0
6-Sep 21:30	7.16	74.7	87.81	13.07	0.0
6-Sep 22:00	7.45	75.7	90.30	12.27	0.0
6-Sep 22:30	6.73	80.6	92.18	11.65	0.0
6-Sep 23:00	6.51	77.7	93.11	11.24	0.0
6-Sep 23:30	4.26	96.8	93.48	10.57	0.0
7-Sep 0:00	6.43	71.6	94.42	10.43	0.0
7-Sep 0:30	4.62	86.8	94.91	9.82	0.0
7-Sep 1:00	6.52	74.9	94.87	9.62	0.0
7-Sep 1:30	6.45	69.5	95.46	9.31	0.0
7-Sep 2:00	4.67	86.8	94.70	8.91	0.0
7-Sep 2:30	4.38	65.6	96.02	8.61	0.0
7-Sep 3:00	7.56	73.5	94.59	8.51	0.0
7-Sep 3:30	4.87	70.9	95.18	8.37	0.0
7-Sep 4:00	7.36	77.7	94.69	8.04	0.0
7-Sep 4:30	7.45	77.3	94.89	7.77	0.0
7-Sep 5:00	4.46	67.4	95.53	7.52	0.0
7-Sep 5:30	5.30	60.6	95.73	7.40	0.0
7-Sep 6:00	5.32	60.0	95.15	7.23	0.0
7-Sep 6:30	7.92	75.4	94.55	7.11	2.3
7-Sep 7:00	5.47	64.6	95.01	7.13	71.7
7-Sep 7:30	5.99	67.7	91.88	7.65	189.6
7-Sep 8:00	5.36	51.3	88.63	8.79	265.2
7-Sep 8:30	3.78	52.7	84.26	10.58	464.3
7-Sep 9:00	2.41	60.1	81.23	12.15	665.1
7-Sep 9:30	2.17	66.3	75.82	14.64	600.8
7-Sep 10:00	0.00	0.0	61.67	18.96	729.5
7-Sep 10:30	1.78	234.0	63.56	20.17	777.8
7-Sep 11:00	1.19	122.5	60.52	21.47	825.7
7-Sep 11:30	8.42	213.3	58.09	22.12	874.0
7-Sep 12:00	3.83	198.7	47.28	23.49	888.2
7-Sep 12:30	3.10	209.0	48.94	23.32	901.8
7-Sep 13:00	10.50	235.5	43.61	24.04	876.8
7-Sep 13:30	5.99	239.7	38.34	24.62	859.9
7-Sep 14:00	1.97	159.4	36.81	25.47	811.8
7-Sep 14:30	5.46	223.1	40.99	25.67	755.0
7-Sep 15:00	5.02	224.4	39.50	25.86	692.1
7-Sep 15:30	5.07	195.6	40.63	26.16	612.7
7-Sep 16:00	8.63	198.5	43.44	25.78	498.5
7-Sep 16:30	4.92	221.6	43.09	26.00	411.2
7-Sep 17:00	3.42	184.9	45.51	26.19	317.3
7-Sep 17:30	4.84	227.0	47.73	25.70	226.8
7-Sep 18:00	5.28	211.4	51.10	25.17	138.3
7-Sep 18:30	4.59	198.5	52.12	24.65	51.0
7-Sep 19:00	3.64	207.1	56.14	23.84	30.7
7-Sep 19:30	4.85	182.3	58.78	22.83	2.8
7-Sep 20:00	2.39	195.9	64.50	21.56	0.0

7-Sep 20:30	1.95	130.1	78.99	19.16	0.0
7-Sep 21:00	2.85	80.1	84.22	17.62	0.0
7-Sep 21:30	3.28	121.5	88.15	16.92	0.0
7-Sep 22:00	1.17	71.0	89.97	16.19	0.0
7-Sep 22:30	2.81	54.6	91.93	15.65	0.0
7-Sep 23:00	1.74	67.5	93.31	15.00	0.0
7-Sep 23:30	2.77	81.1	93.63	14.74	0.0
8-Sep 0:00	2.82	57.6	94.35	14.44	0.0
8-Sep 0:30	2.97	82.2	94.43	14.16	0.0
8-Sep 1:00	3.22	93.4	94.33	13.79	0.0
8-Sep 1:30	2.56	90.9	94.10	13.31	0.0
8-Sep 2:00	2.12	52.5	93.95	13.20	0.0
8-Sep 2:30	2.02	72.0	94.89	12.99	0.0
8-Sep 3:00	2.42	45.3	95.49	12.60	0.0
8-Sep 3:30	3.11	65.4	95.77	12.33	0.0
8-Sep 4:00	4.29	49.2	96.12	12.03	0.0
8-Sep 4:30	3.86	62.3	96.21	11.76	0.0
8-Sep 5:00	3.45	62.1	96.50	11.62	0.0
8-Sep 5:30	3.63	42.2	96.69	11.12	0.0
8-Sep 6:00	3.51	48.7	96.72	10.98	0.0
8-Sep 6:30	3.39	65.1	96.65	10.71	1.3
8-Sep 7:00	2.05	35.4	96.97	10.72	29.5
8-Sep 7:30	2.92	47.1	95.17	10.89	102.0
8-Sep 8:00	2.41	69.7	90.78	12.29	252.5
8-Sep 8:30	2.58	42.9	86.85	13.53	368.3
8-Sep 9:00	0.00	0.0	78.23	16.24	490.2
8-Sep 9:30	2.68	219.6	80.61	18.68	572.9
8-Sep 10:00	4.65	212.0	78.74	19.29	666.9
8-Sep 10:30	3.80	186.2	75.88	20.14	737.5
8-Sep 11:00	3.52	171.1	72.11	21.52	749.0
8-Sep 11:30	2.38	195.5	66.80	22.62	819.2
8-Sep 12:00	7.45	201.6	64.33	23.43	885.6
8-Sep 12:30	12.92	209.8	64.62	23.48	580.4
8-Sep 13:00	2.24	100.2	62.40	24.52	598.6
8-Sep 13:30	6.39	231.4	60.82	25.13	819.4
8-Sep 14:00	4.74	201.2	64.99	24.29	685.0
8-Sep 14:30	5.24	179.8	58.67	25.54	772.8
8-Sep 15:00	7.24	182.7	59.13	25.71	681.3
8-Sep 15:30	5.24	209.0	56.99	25.97	584.3
8-Sep 16:00	10.42	235.4	57.35	25.43	530.7
8-Sep 16:30	3.30	214.6	53.19	26.12	421.1
8-Sep 17:00	7.84	235.3	52.70	25.61	315.1
8-Sep 17:30	7.65	210.3	53.13	25.37	187.2
8-Sep 18:00	6.06	215.3	55.78	25.03	130.0
8-Sep 18:30	5.07	204.2	55.38	25.02	42.0
8-Sep 19:00	6.23	198.9	60.27	24.07	19.8
8-Sep 19:30	1.64	174.3	64.52	22.82	3.0
8-Sep 20:00	4.18	182.1	69.76	21.61	0.0
8-Sep 20:30	2.80	169.3	71.30	21.16	0.0
8-Sep 21:00	2.53	131.6	79.37	19.87	0.0
8-Sep 21:30	1.59	91.4	87.26	18.23	0.0
8-Sep 22:00	0.31	90.7	90.62	17.10	0.0

8-Sep 22:30	2.52	46.5	91.78	16.58	0.0
8-Sep 23:00	2.96	50.2	93.17	16.01	0.0
8-Sep 23:30	2.31	70.7	94.30	15.63	0.0
9-Sep 0:00	2.82	77.0	95.15	15.22	0.0
9-Sep 0:30	0.70	60.9	94.33	14.79	0.0
9-Sep 1:00	1.93	72.8	94.40	14.82	0.0
9-Sep 1:30	2.03	56.2	95.25	14.56	0.0
9-Sep 2:00	1.50	70.9	95.93	14.00	0.0
9-Sep 2:30	2.37	82.1	96.58	13.80	0.0
9-Sep 3:00	2.51	77.6	96.20	13.58	0.0
9-Sep 3:30	2.14	23.0	96.80	13.47	0.0
9-Sep 4:00	0.00	0.0	95.40	14.14	0.0
9-Sep 4:30	0.43	109.7	95.47	14.04	0.0
9-Sep 5:00	1.30	104.4	96.18	13.89	0.0
9-Sep 5:30	0.00	0.0	95.89	14.61	0.0
9-Sep 6:00	2.25	125.8	95.59	15.15	0.0
9-Sep 6:30	0.00	0.0	95.00	15.81	1.1
9-Sep 7:00	3.33	220.8	94.80	16.93	10.4
9-Sep 7:30	3.85	225.4	91.92	17.85	46.9
9-Sep 8:00	4.40	187.8	90.49	18.17	71.6
9-Sep 8:30	3.44	224.1	89.48	18.42	124.4
9-Sep 9:00	5.45	223.3	87.21	18.90	322.2
9-Sep 9:30	4.18	211.6	81.62	20.21	452.4
9-Sep 10:00	7.98	219.3	78.85	20.93	709.4
9-Sep 10:30	5.39	224.3	73.35	22.10	756.3
9-Sep 11:00	10.87	217.9	71.68	22.55	817.1
9-Sep 11:30	5.77	240.1	71.32	22.60	367.2
9-Sep 12:00	6.56	182.7	67.24	23.36	859.5
9-Sep 12:30	5.64	231.6	65.66	24.14	758.6
9-Sep 13:00	13.46	229.0	64.88	23.74	301.4
9-Sep 13:30	10.76	229.4	62.14	24.01	871.4
9-Sep 14:00	4.18	209.4	61.38	24.27	803.7
9-Sep 14:30	3.56	182.3	56.45	24.63	718.4
9-Sep 15:00	6.74	215.6	56.95	24.58	206.9
9-Sep 15:30	7.56	218.3	56.02	24.56	174.3
9-Sep 16:00	4.01	176.0	53.40	25.40	554.3
9-Sep 16:30	4.20	220.7	54.18	25.25	183.9
9-Sep 17:00	5.27	247.4	58.14	24.11	85.5
9-Sep 17:30	3.26	218.2	56.84	24.56	246.0
9-Sep 18:00	6.39	248.6	55.39	25.15	108.9
9-Sep 18:30	4.44	223.5	63.02	23.58	32.6
9-Sep 19:00	4.21	207.5	63.88	23.36	23.3
9-Sep 19:30	3.73	192.9	65.36	22.84	2.1
9-Sep 20:00	4.06	174.1	67.54	22.28	0.0
9-Sep 20:30	3.60	163.6	69.79	21.64	0.0
9-Sep 21:00	1.97	150.6	73.39	20.82	0.0
9-Sep 21:30	3.35	165.2	84.28	19.14	0.0
9-Sep 22:00	2.82	124.5	85.24	18.94	0.0
9-Sep 22:30	2.68	155.4	85.50	18.76	0.0
9-Sep 23:00	5.14	184.8	87.54	18.69	0.0
9-Sep 23:30	3.45	223.2	84.52	19.30	0.0
10-Sep 0:00	5.30	227.4	85.23	19.10	0.0

10-Sep 0:30	4.19	204.0	86.45	18.80	0.0
10-Sep 1:00	1.37	165.6	86.15	18.77	0.0
10-Sep 1:30	3.65	229.2	88.00	18.64	0.0
10-Sep 2:00	5.27	204.9	86.84	19.19	0.0
10-Sep 2:30	2.88	206.6	87.10	19.43	0.0
10-Sep 3:00	4.77	230.7	88.43	19.39	0.0
10-Sep 3:30	3.83	224.7	89.44	19.19	0.0
10-Sep 4:00	3.52	241.8	89.08	19.16	0.0
10-Sep 4:30	5.12	254.4	87.83	19.35	0.0
10-Sep 5:00	2.24	175.2	87.14	19.48	0.0
10-Sep 5:30	3.65	200.7	87.23	19.53	0.0
10-Sep 6:00	3.53	232.3	89.31	19.47	0.0
10-Sep 6:30	3.27	221.5	91.32	19.40	0.2
10-Sep 7:00	2.23	218.0	92.38	19.48	2.4
10-Sep 7:30	8.17	208.4	93.35	19.50	4.1
10-Sep 8:00	4.76	242.5	94.59	19.50	12.9
10-Sep 8:30	1.76	187.1	95.48	19.54	20.1
10-Sep 9:00	8.60	221.3	96.45	19.59	21.7
10-Sep 9:30	4.96	222.4	96.92	19.65	32.9
10-Sep 10:00	5.24	209.9	96.97	19.78	62.7
10-Sep 10:30	3.78	232.4	95.74	20.18	145.3
10-Sep 11:00	10.57	217.6	95.50	20.24	71.1
10-Sep 11:30	6.11	207.3	96.78	20.16	67.6
10-Sep 12:00	7.30	226.4	96.61	20.34	88.5
10-Sep 12:30	7.08	218.6	96.28	20.69	97.0
10-Sep 13:00	5.87	218.9	87.48	22.37	522.6
10-Sep 13:30	0.00	0.0	86.79	22.87	211.7
10-Sep 14:00	2.23	283.8	83.52	23.51	294.5
10-Sep 14:30	10.06	302.6	88.37	20.65	296.9
10-Sep 15:00	6.28	256.2	89.03	20.41	79.9
10-Sep 15:30	7.53	241.0	90.84	19.94	87.7
10-Sep 16:00	6.95	46.2	89.02	19.20	89.7
10-Sep 16:30	4.34	55.6	87.17	18.78	101.3
10-Sep 17:00	4.25	63.4	86.22	18.66	49.2
10-Sep 17:30	2.80	57.0	83.81	18.94	97.4
10-Sep 18:00	3.36	27.4	85.69	18.90	61.3
10-Sep 18:30	3.03	43.0	84.87	19.07	61.4
10-Sep 19:00	0.00	0.0	84.92	18.83	20.9
10-Sep 19:30	2.73	341.2	87.01	18.35	5.3
10-Sep 20:00	2.43	347.5	91.18	17.55	0.0
10-Sep 20:30	0.00	0.0	94.66	16.67	0.0
10-Sep 21:00	0.00	0.0	95.55	16.08	0.0
10-Sep 21:30	1.52	69.2	96.65	15.25	0.0
10-Sep 22:00	2.80	88.0	97.34	14.95	0.0
10-Sep 22:30	3.06	80.0	97.74	14.57	0.0
10-Sep 23:00	0.00	0.0	97.92	13.96	0.0
10-Sep 23:30	1.82	85.1	97.99	13.48	0.0
11-Sep 0:00	2.01	86.6	98.20	13.01	0.0
11-Sep 0:30	0.93	72.9	98.25	12.79	0.0
11-Sep 1:00	0.14	54.4	98.27	12.35	0.0
11-Sep 1:30	1.48	115.1	98.45	11.95	0.0
11-Sep 2:00	2.27	68.2	98.50	11.90	0.0

11-Sep 2:30	1.52	73.1	98.51	11.66	0.0
11-Sep 3:00	0.76	67.6	98.53	11.41	0.0
11-Sep 3:30	2.37	94.0	98.57	11.39	0.0
11-Sep 4:00	0.91	119.0	98.57	10.92	0.0
11-Sep 4:30	3.54	104.5	98.53	10.30	0.0
11-Sep 5:00	5.73	353.5	98.65	10.67	0.0
11-Sep 5:30	2.58	101.3	98.60	10.61	0.0
11-Sep 6:00	2.20	79.9	98.62	10.41	0.0
11-Sep 6:30	0.00	0.0	98.61	10.01	0.5
11-Sep 7:00	2.03	81.2	98.62	10.14	21.6
11-Sep 7:30	3.16	69.4	98.33	10.12	145.1
11-Sep 8:00	1.96	88.5	97.44	10.79	260.4
11-Sep 8:30	1.74	52.5	91.58	12.52	379.0
11-Sep 9:00	0.00	0.0	74.41	16.65	488.3
11-Sep 9:30	2.60	207.8	78.66	16.48	595.5
11-Sep 10:00	1.88	94.2	72.96	18.02	678.4
11-Sep 10:30	6.18	55.2	66.51	19.00	566.2
11-Sep 11:00	4.19	56.0	62.77	19.42	829.7
11-Sep 11:30	5.64	30.1	59.30	19.74	861.7
11-Sep 12:00	9.31	52.8	59.51	19.75	945.5
11-Sep 12:30	5.30	6.4	54.06	20.32	894.5
11-Sep 13:00	6.30	35.6	51.34	20.49	873.6
11-Sep 13:30	6.52	350.9	51.42	20.99	842.2
11-Sep 14:00	10.76	338.5	49.07	21.28	316.7
11-Sep 14:30	10.21	48.8	56.44	20.05	128.6
11-Sep 15:00	9.05	53.3	50.57	20.80	719.4
11-Sep 15:30	11.26	28.3	49.13	20.82	631.4
11-Sep 16:00	6.08	50.8	49.60	21.51	587.5
11-Sep 16:30	4.13	51.6	49.63	21.44	420.1
11-Sep 17:00	5.58	55.0	51.66	20.83	53.7
11-Sep 17:30	5.68	0.9	48.75	21.10	214.0
11-Sep 18:00	4.91	19.1	49.52	20.84	116.4
11-Sep 18:30	3.62	10.1	52.65	20.32	26.7
11-Sep 19:00	6.02	357.9	56.53	19.48	14.3
11-Sep 19:30	4.35	347.7	60.07	18.32	1.7
11-Sep 20:00	2.15	71.3	76.81	16.07	0.0
11-Sep 20:30	3.11	100.0	81.36	14.47	0.0
11-Sep 21:00	2.98	61.5	87.38	13.74	0.0
11-Sep 21:30	1.44	73.1	88.10	12.81	0.0
11-Sep 22:00	3.55	62.3	89.94	12.39	0.0
11-Sep 22:30	3.04	68.4	89.05	11.80	0.0
11-Sep 23:00	3.39	60.1	93.08	11.33	0.0
11-Sep 23:30	3.73	85.6	91.83	10.82	0.0
12-Sep 0:00	4.73	82.0	94.05	10.33	0.0
12-Sep 0:30	3.88	91.8	94.47	9.92	0.0
12-Sep 1:00	3.50	61.8	94.64	9.70	0.0
12-Sep 1:30	4.22	73.9	95.27	9.49	0.0
12-Sep 2:00	2.62	85.3	94.26	9.14	0.0
12-Sep 2:30	3.63	79.7	95.07	9.07	0.0
12-Sep 3:00	4.56	57.1	94.13	8.73	0.0
12-Sep 3:30	2.38	58.8	95.81	8.19	0.0
12-Sep 4:00	2.25	68.6	95.33	8.12	0.0

12-Sep 4:30	3.72	60.3	95.63	7.38	0.0
12-Sep 5:00	1.86	65.1	96.81	7.37	0.0
12-Sep 5:30	3.67	55.4	96.93	7.37	0.0
12-Sep 6:00	3.54	54.3	97.24	6.86	0.0
12-Sep 6:30	1.79	84.7	97.45	6.68	1.0
12-Sep 7:00	3.63	44.2	97.68	6.89	22.0
12-Sep 7:30	3.79	57.0	93.13	7.65	180.5
12-Sep 8:00	3.15	67.0	88.45	8.71	306.0
12-Sep 8:30	2.19	55.2	83.20	10.62	411.8
12-Sep 9:00	0.00	0.0	76.51	12.90	519.1
12-Sep 9:30	1.01	90.5	72.86	14.74	613.4
12-Sep 10:00	0.00	0.0	58.16	19.05	693.5
12-Sep 10:30	2.44	93.4	57.32	18.67	756.5
12-Sep 11:00	6.64	111.5	52.75	19.14	808.7
12-Sep 11:30	6.01	102.6	46.68	19.53	848.9
12-Sep 12:00	0.00	0.0	43.49	21.14	871.5
12-Sep 12:30	2.65	141.5	35.87	21.34	882.9
12-Sep 13:00	3.57	278.3	35.99	22.14	876.3
12-Sep 13:30	2.41	139.0	39.27	21.80	844.2
12-Sep 14:00	4.59	141.6	41.94	21.71	801.5
12-Sep 14:30	2.60	172.8	40.57	23.29	735.1
12-Sep 15:00	2.81	130.7	40.62	23.42	663.4
12-Sep 15:30	5.45	241.5	40.13	23.12	585.6
12-Sep 16:00	5.05	304.5	39.35	22.88	498.9
12-Sep 16:30	8.04	267.7	35.97	23.21	404.5
12-Sep 17:00	6.28	220.1	37.52	22.77	300.7
12-Sep 17:30	7.08	217.5	43.77	22.42	199.1
12-Sep 18:00	1.35	172.1	45.98	22.44	101.5
12-Sep 18:30	2.23	225.7	50.60	22.18	35.8
12-Sep 19:00	1.81	222.7	57.41	21.19	12.4
12-Sep 19:30	0.33	3.5	68.79	19.09	1.1
12-Sep 20:00	1.58	90.8	79.14	16.69	0.0
12-Sep 20:30	3.23	94.2	85.84	15.13	0.0
12-Sep 21:00	2.79	82.9	86.78	14.51	0.0
12-Sep 21:30	4.38	55.7	89.63	13.80	0.0
12-Sep 22:00	3.29	70.0	90.67	13.13	0.0
12-Sep 22:30	3.06	66.3	93.01	12.54	0.0
12-Sep 23:00	3.80	66.7	94.24	11.89	0.0
12-Sep 23:30	5.77	74.2	94.43	11.41	0.0
13-Sep 0:00	4.94	56.9	94.67	10.94	0.0
13-Sep 0:30	5.12	73.5	94.28	10.50	0.0
13-Sep 1:00	5.48	71.6	95.04	10.12	0.0
13-Sep 1:30	5.52	63.5	94.81	9.82	0.0
13-Sep 2:00	4.27	68.8	94.69	9.52	0.0
13-Sep 2:30	4.18	64.5	95.14	9.19	0.0
13-Sep 3:00	5.22	55.8	95.43	8.97	0.0
13-Sep 3:30	5.09	51.5	95.24	8.82	0.0
13-Sep 4:00	5.28	65.5	95.07	8.39	0.0
13-Sep 4:30	4.96	57.0	95.14	8.10	0.0
13-Sep 5:00	4.50	58.7	95.39	7.94	0.0
13-Sep 5:30	4.44	54.9	95.84	7.83	0.0
13-Sep 6:00	5.23	63.4	96.25	7.62	0.0

13-Sep 6:30	5.90	67.3	95.82	7.48	0.9
13-Sep 7:00	7.13	70.1	94.14	7.54	14.7
13-Sep 7:30	6.78	56.5	91.43	7.85	174.8
13-Sep 8:00	5.60	56.1	88.83	8.99	286.8
13-Sep 8:30	4.14	58.3	85.39	10.70	397.0
13-Sep 9:00	2.18	64.8	81.45	12.80	501.1
13-Sep 9:30	0.00	0.0	66.37	17.39	593.2
13-Sep 10:00	3.14	197.8	66.08	18.31	665.0
13-Sep 10:30	3.51	213.6	60.59	19.87	727.5
13-Sep 11:00	5.22	237.8	58.78	20.74	789.1
13-Sep 11:30	3.53	241.5	58.78	21.31	814.8
13-Sep 12:00	6.93	267.3	53.30	22.32	845.5
13-Sep 12:30	8.24	264.8	53.28	22.82	855.2
13-Sep 13:00	6.21	239.3	50.17	23.86	835.1
13-Sep 13:30	3.29	217.7	46.31	24.54	814.5
13-Sep 14:00	7.25	214.0	48.39	24.44	797.7
13-Sep 14:30	6.17	222.3	45.56	24.70	127.8
13-Sep 15:00	7.54	209.1	41.61	25.43	488.3
13-Sep 15:30	7.07	240.6	44.02	25.17	569.2
13-Sep 16:00	5.27	253.1	43.76	25.24	501.2
13-Sep 16:30	5.85	214.1	42.22	25.70	470.8
13-Sep 17:00	6.03	241.2	42.33	25.15	280.4
13-Sep 17:30	5.54	257.7	39.83	25.03	190.0
13-Sep 18:00	7.74	243.0	45.27	24.43	93.1
13-Sep 18:30	5.40	245.0	50.57	23.35	32.7
13-Sep 19:00	8.81	47.5	73.03	19.52	7.7
13-Sep 19:30	6.50	77.0	76.06	18.49	0.4
13-Sep 20:00	10.66	125.5	79.40	18.30	0.0
13-Sep 20:30	9.61	81.8	88.43	17.26	0.0
13-Sep 21:00	7.26	55.2	88.56	16.64	0.0
13-Sep 21:30	10.62	77.3	88.81	16.15	0.0
13-Sep 22:00	9.38	59.3	90.47	16.00	0.0
13-Sep 22:30	10.04	72.1	96.84	13.75	0.0
13-Sep 23:00	12.61	79.3	94.97	13.27	0.0
13-Sep 23:30	6.35	59.5	93.73	13.41	0.0
14-Sep 0:00	7.78	14.6	92.97	12.41	0.0
14-Sep 0:30	10.85	53.3	85.51	12.06	0.0
14-Sep 1:00	7.03	77.7	86.99	11.74	0.0
14-Sep 1:30	7.78	34.8	89.58	11.82	0.0
14-Sep 2:00	6.93	58.6	89.76	11.85	0.0
14-Sep 2:30	6.14	71.0	93.70	11.53	0.0
14-Sep 3:00	7.74	51.9	90.64	10.94	0.0
14-Sep 3:30	6.72	23.2	92.98	10.52	0.0
14-Sep 4:00	10.64	42.0	92.12	10.73	0.0
14-Sep 4:30	6.82	67.6	93.76	10.54	0.0
14-Sep 5:00	6.09	71.2	92.19	10.44	0.0
14-Sep 5:30	7.36	56.5	91.89	10.44	0.0
14-Sep 6:00	7.48	58.6	93.47	10.21	0.0
14-Sep 6:30	8.00	44.5	91.25	9.92	0.0
14-Sep 7:00	10.92	48.6	91.32	9.51	1.2
14-Sep 7:30	8.50	70.8	91.19	9.46	24.6
14-Sep 8:00	6.15	52.8	92.23	9.39	23.6

14-Sep 8:30	6.74	60.4	92.14	9.68	22.8
14-Sep 9:00	6.88	47.6	91.96	9.69	110.4
14-Sep 9:30	9.47	40.3	89.37	10.33	68.7
14-Sep 10:00	9.41	45.8	86.27	10.65	115.1
14-Sep 10:30	4.13	33.2	89.22	10.42	81.5
14-Sep 11:00	5.30	33.7	85.30	10.68	243.1
14-Sep 11:30	8.46	31.0	84.05	11.23	214.9
14-Sep 12:00	10.53	40.2	74.76	11.52	293.7
14-Sep 12:30	9.91	349.3	67.01	12.41	219.9
14-Sep 13:00	8.90	354.4	61.51	12.81	425.9
14-Sep 13:30	9.41	47.4	56.39	13.44	884.7
14-Sep 14:00	9.66	47.8	50.60	13.76	930.6
14-Sep 14:30	12.81	326.2	48.63	14.31	360.4
14-Sep 15:00	14.12	342.4	48.10	14.38	186.2
14-Sep 15:30	6.60	49.3	47.94	14.35	231.2
14-Sep 16:00	5.44	57.2	47.43	14.84	563.6
14-Sep 16:30	14.76	37.6	46.10	14.21	269.8
14-Sep 17:00	4.97	46.3	45.25	15.13	173.1
14-Sep 17:30	8.02	10.4	46.75	14.81	216.8
14-Sep 18:00	3.85	38.0	49.74	13.84	80.0
14-Sep 18:30	7.30	14.1	49.04	13.95	33.5
14-Sep 19:00	7.40	35.2	52.23	13.13	11.9
14-Sep 19:30	2.87	8.7	59.35	12.01	0.5
14-Sep 20:00	0.00	0.0	65.32	10.93	0.0
14-Sep 20:30	1.00	133.9	73.48	9.84	0.0
14-Sep 21:00	1.19	3.9	80.52	8.60	0.0
14-Sep 21:30	0.00	0.0	81.24	8.42	0.0
14-Sep 22:00	1.71	11.1	83.38	7.90	0.0
14-Sep 22:30	3.58	52.5	88.36	7.62	0.0
14-Sep 23:00	2.01	201.1	89.94	6.68	0.0
14-Sep 23:30	0.00	0.0	93.66	5.85	0.0
15-Sep 0:00	0.00	0.0	94.06	5.50	0.0
15-Sep 0:30	1.79	93.8	95.55	5.56	0.0
15-Sep 1:00	1.76	101.1	94.44	5.44	0.0
15-Sep 1:30	1.15	75.7	95.56	5.44	0.0
15-Sep 2:00	0.31	79.4	95.63	5.20	0.0
15-Sep 2:30	0.17	74.7	92.76	5.45	0.0
15-Sep 3:00	2.19	64.8	94.96	4.86	0.0
15-Sep 3:30	2.92	60.2	94.93	4.57	0.0
15-Sep 4:00	0.76	45.5	94.98	4.07	0.0
15-Sep 4:30	2.71	49.9	95.54	4.09	0.0
15-Sep 5:00	2.42	72.6	97.10	3.96	0.0
15-Sep 5:30	1.72	61.3	96.75	3.48	0.0
15-Sep 6:00	3.50	48.3	96.97	3.58	0.0
15-Sep 6:30	3.59	90.8	96.74	3.36	0.6
15-Sep 7:00	3.86	63.9	96.91	3.46	11.0
15-Sep 7:30	3.54	72.5	93.30	4.22	193.1
15-Sep 8:00	1.96	66.4	86.71	5.65	305.1
15-Sep 8:30	2.28	57.2	82.90	7.44	400.9
15-Sep 9:00	2.32	52.5	79.20	8.43	507.0
15-Sep 9:30	1.48	120.7	71.07	10.78	527.2
15-Sep 10:00	4.12	33.0	58.48	13.12	616.3

15-Sep 10:30	10.45	21.3	49.76	13.29	739.1
15-Sep 11:00	12.16	38.6	48.81	13.27	729.4
15-Sep 11:30	7.82	48.7	50.20	13.53	844.3
15-Sep 12:00	8.89	51.0	50.39	13.65	828.6
15-Sep 12:30	11.28	31.1	53.51	14.01	306.1
15-Sep 13:00	4.81	321.2	49.11	14.75	886.2
15-Sep 13:30	4.36	354.6	45.93	15.44	826.5
15-Sep 14:00	2.87	35.5	45.42	15.88	744.1
15-Sep 14:30	2.86	348.6	43.82	16.33	600.3
15-Sep 15:00	6.51	6.0	47.13	15.77	526.4
15-Sep 15:30	3.22	34.8	45.25	16.31	532.8
15-Sep 16:00	1.99	325.2	41.81	16.58	555.1
15-Sep 16:30	6.10	356.2	41.18	16.64	352.7
15-Sep 17:00	5.73	358.3	41.98	16.77	314.5
15-Sep 17:30	4.32	4.1	46.13	16.70	200.7
15-Sep 18:00	6.18	16.1	47.31	16.45	101.3
15-Sep 18:30	3.95	327.6	49.86	16.01	21.9
15-Sep 19:00	2.29	353.0	53.29	15.19	11.1
15-Sep 19:30	0.47	97.6	71.23	12.85	0.6
15-Sep 20:00	1.97	59.3	80.92	10.90	0.0
15-Sep 20:30	2.02	66.2	85.97	9.88	0.0
15-Sep 21:00	1.70	88.0	88.70	8.80	0.0
15-Sep 21:30	3.51	86.9	91.04	8.12	0.0
15-Sep 22:00	3.97	86.7	92.47	7.26	0.0
15-Sep 22:30	5.02	72.1	94.67	7.21	0.0
15-Sep 23:00	6.24	73.9	94.83	6.86	0.0
15-Sep 23:30	3.86	92.8	94.80	6.45	0.0
16-Sep 0:00	5.05	75.4	95.48	5.78	0.0
16-Sep 0:30	4.61	84.0	95.88	5.75	0.0
16-Sep 1:00	4.07	99.2	94.03	5.45	0.0
16-Sep 1:30	4.10	67.5	96.50	4.77	0.0
16-Sep 2:00	6.91	71.9	96.12	4.66	0.0
16-Sep 2:30	4.98	65.5	96.45	4.45	0.0
16-Sep 3:00	6.23	70.5	97.24	4.45	0.0
16-Sep 3:30	7.89	76.0	96.37	3.74	0.0
16-Sep 4:00	3.20	77.2	96.11	3.36	0.0
16-Sep 4:30	5.01	64.1	96.06	3.11	0.0
16-Sep 5:00	4.65	80.0	95.88	2.93	0.0
16-Sep 5:30	4.17	68.5	96.06	2.93	0.0
16-Sep 6:00	4.31	93.8	96.19	1.99	0.0
16-Sep 6:30	2.74	95.5	95.95	2.22	0.5
16-Sep 7:00	2.80	73.5	97.68	1.64	11.4
16-Sep 7:30	4.50	71.2	94.91	2.30	190.3
16-Sep 8:00	4.32	73.2	91.97	3.37	294.0
16-Sep 8:30	1.21	66.8	83.79	5.77	397.4
16-Sep 9:00	0.57	74.2	78.36	8.31	504.8
16-Sep 9:30	1.83	101.3	72.30	10.58	603.8
16-Sep 10:00	0.00	0.0	59.88	13.83	680.8
16-Sep 10:30	8.09	62.1	54.93	15.07	744.7
16-Sep 11:00	7.88	81.5	50.61	15.15	797.1
16-Sep 11:30	6.42	33.3	51.07	16.13	836.1
16-Sep 12:00	4.16	20.8	50.24	16.97	857.1

16-Sep 12:30	4.63	69.9	51.85	17.17	867.1
16-Sep 13:00	3.91	301.3	51.38	18.07	850.1
16-Sep 13:30	4.14	57.1	49.24	18.20	821.9
16-Sep 14:00	6.01	60.1	48.59	18.71	783.5
16-Sep 14:30	3.71	55.9	46.97	19.03	727.0
16-Sep 15:00	4.17	45.2	44.91	19.31	657.2
16-Sep 15:30	6.78	44.0	42.75	19.49	577.5
16-Sep 16:00	5.13	0.2	38.87	19.88	494.4
16-Sep 16:30	8.07	21.4	38.44	19.76	396.8
16-Sep 17:00	5.76	349.8	42.30	19.28	294.5
16-Sep 17:30	4.72	356.8	40.95	19.32	197.9
16-Sep 18:00	3.58	27.2	41.76	19.00	90.6
16-Sep 18:30	4.37	2.4	40.99	18.37	20.2
16-Sep 19:00	0.00	0.0	50.88	17.40	9.8
16-Sep 19:30	3.66	50.3	68.31	14.16	0.4
16-Sep 20:00	1.68	73.7	78.59	12.42	0.0
16-Sep 20:30	3.58	77.5	85.23	11.08	0.0
16-Sep 21:00	3.08	74.0	86.79	10.58	0.0
16-Sep 21:30	4.14	67.6	92.59	9.95	0.0
16-Sep 22:00	5.11	80.7	91.83	9.46	0.0
16-Sep 22:30	3.99	86.0	92.37	8.95	0.0
16-Sep 23:00	3.50	74.9	93.84	8.48	0.0
16-Sep 23:30	3.47	76.0	94.39	8.04	0.0
17-Sep 0:00	3.90	66.5	94.68	8.18	0.0
17-Sep 0:30	4.47	67.5	95.05	8.01	0.0
17-Sep 1:00	5.67	53.4	95.86	7.42	0.0
17-Sep 1:30	7.80	80.9	95.41	6.92	0.0
17-Sep 2:00	4.16	91.6	95.41	6.46	0.0
17-Sep 2:30	4.21	103.0	95.14	6.11	0.0
17-Sep 3:00	5.70	75.7	95.98	6.01	0.0
17-Sep 3:30	3.83	90.8	96.38	5.53	0.0
17-Sep 4:00	5.70	70.6	96.36	5.09	0.0
17-Sep 4:30	4.52	54.2	95.98	4.77	0.0
17-Sep 5:00	6.84	77.5	96.88	4.71	0.0
17-Sep 5:30	3.30	78.8	96.02	4.25	0.0
17-Sep 6:00	4.29	56.5	96.48	4.18	0.0
17-Sep 6:30	4.30	69.3	96.98	3.99	0.1
17-Sep 7:00	3.56	72.0	96.95	3.87	11.3
17-Sep 7:30	5.43	66.3	93.97	4.66	176.3
17-Sep 8:00	2.69	85.8	89.98	5.71	281.2
17-Sep 8:30	3.64	41.7	85.29	7.69	385.8
17-Sep 9:00	2.16	63.2	81.73	9.09	503.4
17-Sep 9:30	2.28	69.1	76.42	11.37	605.6
17-Sep 10:00	0.00	0.0	63.84	15.98	685.7
17-Sep 10:30	0.46	108.9	59.02	16.98	748.8
17-Sep 11:00	2.21	252.7	52.33	17.82	802.0
17-Sep 11:30	2.69	169.6	50.69	18.88	834.7
17-Sep 12:00	2.52	33.0	47.83	19.29	864.6
17-Sep 12:30	4.52	252.7	42.66	20.09	871.6
17-Sep 13:00	5.45	328.0	40.16	19.45	860.1
17-Sep 13:30	3.54	189.2	35.24	20.08	825.4
17-Sep 14:00	3.59	53.0	34.53	20.76	795.0

17-Sep 14:30	2.75	55.7	31.59	20.83	736.8
17-Sep 15:00	1.23	72.5	28.73	21.54	667.2
17-Sep 15:30	0.00	0.0	26.07	22.14	583.4
17-Sep 16:00	1.46	75.1	29.48	22.25	491.8
17-Sep 17:00	1.35	234.9	29.02	22.74	284.1
17-Sep 17:30	2.09	300.1	29.28	22.72	183.5
17-Sep 18:00	5.00	251.2	36.90	21.07	74.2
17-Sep 18:30	3.53	238.1	41.70	20.38	20.2
17-Sep 19:00	0.00	0.0	50.62	19.78	6.4
17-Sep 19:30	1.19	83.6	71.97	15.17	0.1
17-Sep 20:00	4.19	82.6	78.08	13.22	0.0
17-Sep 20:30	3.87	94.6	82.29	12.14	0.0
17-Sep 21:00	4.62	55.4	84.90	11.59	0.0
17-Sep 21:30	4.54	63.7	89.99	10.66	0.0
17-Sep 22:00	5.91	74.8	91.68	9.78	0.0
17-Sep 22:30	5.03	84.0	92.00	9.26	0.0
17-Sep 23:00	6.04	63.6	93.71	9.16	0.0
17-Sep 23:30	6.02	72.0	94.39	8.71	0.0
18-Sep 0:00	7.16	79.7	94.27	8.34	0.0
18-Sep 0:30	5.59	77.5	93.70	8.29	0.0
18-Sep 1:00	6.75	74.9	94.25	8.33	0.0
18-Sep 1:30	6.99	75.0	93.74	8.29	0.0
18-Sep 2:00	7.82	80.7	94.17	7.78	0.0
18-Sep 2:30	5.97	75.0	93.87	7.67	0.0
18-Sep 3:00	6.81	71.6	95.12	7.65	0.0
18-Sep 3:30	7.91	76.7	94.17	7.56	0.0
18-Sep 4:00	8.07	73.0	94.37	7.48	0.0
18-Sep 4:30	7.63	74.9	94.93	6.89	0.0
18-Sep 5:00	5.66	64.3	94.54	6.92	0.0
18-Sep 5:30	6.14	78.6	94.14	7.01	0.0
18-Sep 6:00	8.28	74.7	94.49	6.76	0.0
18-Sep 6:30	8.40	74.9	94.06	6.82	0.2
18-Sep 7:00	7.67	74.7	93.46	7.07	21.0
18-Sep 7:30	5.07	65.7	92.39	7.37	50.7
18-Sep 8:00	7.51	70.6	88.83	8.16	273.2
18-Sep 8:30	6.25	71.8	87.91	9.11	207.0
18-Sep 9:00	3.34	67.9	81.75	11.24	543.3
18-Sep 9:30	2.79	53.2	77.09	13.05	402.6
18-Sep 10:00	2.25	65.2	69.00	15.91	658.9
18-Sep 10:30	0.00	0.0	58.51	19.38	726.1
18-Sep 11:00	0.52	126.0	45.21	21.52	1052.2
18-Sep 11:30	3.70	88.6	48.94	21.30	429.2
18-Sep 12:00	4.24	239.1	51.37	20.66	272.8
18-Sep 12:30	2.27	243.5	52.82	20.80	276.4
18-Sep 13:00	4.75	273.9	57.00	20.53	281.2
18-Sep 13:30	3.87	290.1	56.02	20.94	437.7
18-Sep 14:00	0.00	0.0	44.21	22.10	504.1
18-Sep 14:30	2.59	222.6	45.14	22.88	470.0
18-Sep 15:00	10.42	283.9	41.59	22.46	766.2
18-Sep 15:30	4.01	256.2	43.56	22.19	307.3
18-Sep 16:00	4.51	243.9	47.57	21.38	143.5
18-Sep 16:30	4.13	259.8	51.06	21.43	285.7

18-Sep 17:00	3.63	304.2	49.72	21.29	150.0
18-Sep 17:30	4.51	53.8	51.04	21.30	125.5
18-Sep 18:00	6.23	17.1	52.69	20.95	72.0
18-Sep 18:30	4.71	16.1	56.63	20.42	26.3
18-Sep 19:00	0.00	0.0	68.52	19.14	7.0
18-Sep 19:30	0.24	94.3	80.51	16.66	0.0
18-Sep 20:00	3.08	87.8	85.54	15.36	0.0
18-Sep 20:30	4.65	88.6	88.67	14.37	0.0
18-Sep 21:00	4.29	77.9	91.69	13.74	0.0
18-Sep 21:30	5.83	75.7	92.63	13.32	0.0
18-Sep 22:00	5.90	74.6	94.26	12.62	0.0
18-Sep 22:30	3.52	86.4	93.99	12.14	0.0
18-Sep 23:00	5.41	78.6	95.57	11.69	0.0
18-Sep 23:30	5.53	79.1	95.47	11.55	0.0
19-Sep 0:00	6.97	73.3	95.71	11.23	0.0
19-Sep 0:30	5.84	82.2	95.94	10.97	0.0
19-Sep 1:00	5.23	86.9	95.47	10.50	0.0
19-Sep 1:30	5.42	82.7	95.63	10.29	0.0
19-Sep 2:00	4.68	73.8	95.91	10.22	0.0
19-Sep 2:30	6.23	79.0	95.52	9.89	0.0
19-Sep 3:00	5.88	67.4	95.78	9.89	0.0
19-Sep 3:30	5.40	64.0	96.02	9.79	0.0
19-Sep 4:00	5.19	76.5	95.73	9.47	0.0
19-Sep 4:30	6.81	79.0	95.27	9.31	0.0
19-Sep 5:00	5.86	73.4	95.17	9.28	0.0
19-Sep 5:30	7.72	71.8	94.88	9.06	0.0
19-Sep 6:00	5.97	85.3	94.41	8.93	0.0
19-Sep 6:30	6.67	77.3	95.12	8.84	0.2
19-Sep 7:00	6.37	82.8	94.70	8.68	8.6
19-Sep 7:30	6.51	77.2	93.02	8.82	117.7
19-Sep 8:00	3.49	81.8	90.62	9.62	226.7
19-Sep 8:30	3.98	70.8	86.66	11.02	355.4
19-Sep 9:00	2.92	64.3	80.50	12.92	463.1
19-Sep 9:30	3.48	73.0	75.95	14.94	556.3
19-Sep 10:00	0.00	0.0	69.79	17.21	637.2
19-Sep 10:30	6.68	224.2	60.39	19.53	703.2
19-Sep 11:00	11.70	195.6	52.72	20.34	756.7
19-Sep 11:30	6.08	162.6	50.61	20.50	794.3
19-Sep 12:00	6.54	201.3	50.23	21.12	821.1
19-Sep 12:30	7.41	195.3	50.24	21.61	845.1
19-Sep 13:00	6.88	167.3	52.60	21.16	841.3
19-Sep 13:30	2.00	97.0	46.01	22.25	820.7
19-Sep 14:00	7.24	134.6	47.71	21.65	787.2
19-Sep 14:30	9.39	140.4	45.49	22.45	764.1
19-Sep 15:00	7.53	206.8	49.66	21.93	655.4
19-Sep 15:30	3.74	208.6	47.66	22.24	547.8
19-Sep 16:00	2.40	190.3	49.20	21.89	329.0
19-Sep 16:30	7.38	156.1	47.92	21.93	259.8
19-Sep 17:00	3.11	134.6	50.50	21.56	150.9
19-Sep 17:30	3.89	142.3	51.15	21.34	109.3
19-Sep 18:00	0.51	202.8	54.65	20.58	67.5
19-Sep 18:30	3.89	101.7	56.54	20.07	42.6

19-Sep 19:00	4.95	133.3	56.26	19.51	4.8
19-Sep 19:30	3.43	92.5	59.85	18.65	0.0
19-Sep 20:00	2.75	93.9	65.32	18.29	0.0
19-Sep 20:30	6.68	108.1	69.59	18.04	0.0
19-Sep 21:00	5.61	123.6	70.08	17.85	0.0
19-Sep 21:30	3.51	158.9	71.07	17.73	0.0
19-Sep 22:00	5.17	128.8	72.60	17.46	0.0
19-Sep 22:30	3.67	118.4	74.20	17.25	0.0
19-Sep 23:00	3.49	151.8	75.34	17.03	0.0
19-Sep 23:30	4.64	217.9	76.88	16.88	0.0
20-Sep 0:00	6.38	154.7	78.27	16.83	0.0
20-Sep 0:30	5.15	196.2	80.04	16.82	0.0
20-Sep 1:00	3.07	192.4	80.43	16.76	0.0
20-Sep 1:30	5.46	184.1	82.91	16.67	0.0
20-Sep 2:00	6.43	208.9	84.28	16.68	0.0
20-Sep 2:30	6.67	213.3	85.36	16.70	0.0
20-Sep 3:00	6.09	198.9	83.71	16.94	0.0
20-Sep 3:30	6.50	217.3	85.10	16.95	0.0
20-Sep 4:00	3.38	215.0	86.40	16.98	0.0
20-Sep 4:30	6.03	200.6	87.05	17.08	0.0
20-Sep 5:00	5.48	230.4	88.81	17.08	0.0
20-Sep 5:30	7.05	205.9	90.40	17.07	0.0
20-Sep 6:00	13.44	210.2	91.75	17.00	0.0
20-Sep 6:30	9.18	208.3	94.46	16.53	0.0
20-Sep 7:00	2.43	129.3	94.15	16.40	1.2
20-Sep 7:30	5.78	182.8	93.30	16.38	3.1
20-Sep 8:00	3.35	190.1	93.30	16.33	16.5
20-Sep 8:30	4.29	164.6	92.00	16.37	14.5
20-Sep 9:00	2.58	235.0	93.11	16.46	35.3
20-Sep 9:30	6.19	238.1	94.27	16.52	42.3
20-Sep 10:00	6.40	216.2	93.80	16.58	23.7
20-Sep 10:30	5.91	180.2	94.98	16.51	25.0
20-Sep 11:00	2.75	220.9	95.70	16.64	57.8
20-Sep 11:30	2.29	189.1	92.53	17.40	139.0
20-Sep 12:00	6.29	203.5	91.95	17.73	82.6
20-Sep 12:30	6.26	233.7	93.35	17.35	21.2
20-Sep 13:00	7.85	182.3	93.01	17.44	97.0
20-Sep 13:30	5.12	172.0	94.47	17.36	58.0
20-Sep 14:00	8.11	224.9	94.17	17.28	16.3
20-Sep 14:30	10.01	205.1	95.98	17.04	27.8
20-Sep 15:00	8.56	231.1	96.51	17.08	61.8
20-Sep 15:30	4.04	219.9	96.72	17.20	9.5
20-Sep 16:00	4.75	234.1	97.07	16.94	67.3
20-Sep 16:30	5.02	197.9	97.01	16.98	42.7
20-Sep 17:00	4.12	207.7	96.91	16.99	90.6
20-Sep 17:30	5.15	210.2	95.86	17.06	30.1
20-Sep 18:00	3.58	241.5	96.19	17.06	44.0
20-Sep 18:30	3.54	211.8	95.83	17.11	10.3
20-Sep 19:00	7.21	200.3	95.18	17.11	0.4
20-Sep 19:30	1.85	241.1	94.59	17.11	0.0
20-Sep 20:00	1.89	195.3	94.85	17.10	0.0
20-Sep 20:30	0.00	0.0	94.97	17.09	0.0

20-Sep 21:00	1.55	224.7	94.70	17.17	0.0
20-Sep 21:30	0.00	0.0	94.96	17.22	0.0
20-Sep 22:00	3.44	216.1	96.57	16.98	0.0
20-Sep 22:30	2.17	179.0	95.49	17.30	0.0
20-Sep 23:00	3.07	179.4	95.47	17.31	0.0
20-Sep 23:30	0.00	0.0	95.02	17.33	0.0
21-Sep 0:00	1.45	232.4	95.50	17.21	0.0
21-Sep 0:30	0.00	0.0	96.46	17.07	0.0
21-Sep 1:00	0.00	0.0	97.13	16.83	0.0
21-Sep 1:30	0.88	151.7	97.39	16.65	0.0
21-Sep 2:00	1.32	92.6	97.58	16.55	0.0
21-Sep 2:30	0.00	0.0	97.69	16.59	0.0
21-Sep 3:00	0.00	0.0	97.67	16.49	0.0
21-Sep 3:30	0.00	0.0	97.68	16.43	0.0
21-Sep 4:00	0.58	39.5	97.75	16.30	0.0
21-Sep 4:30	0.00	0.0	97.80	16.06	0.0
21-Sep 5:00	0.00	0.0	97.85	16.05	0.0
21-Sep 5:30	2.21	223.0	97.92	15.88	0.0
21-Sep 6:00	0.00	0.0	97.97	15.93	0.0
21-Sep 6:30	2.14	288.5	98.40	15.74	0.0
21-Sep 7:00	1.71	221.1	98.00	15.40	3.4
21-Sep 7:30	0.00	0.0	97.94	15.06	55.5
21-Sep 8:00	0.00	0.0	97.39	15.36	101.4
21-Sep 8:30	0.00	0.0	97.09	15.62	109.2
21-Sep 9:00	0.89	248.8	91.57	17.33	224.4
21-Sep 9:30	3.05	202.3	85.36	17.68	558.3
21-Sep 10:00	4.13	232.2	85.03	17.87	655.6
21-Sep 10:30	2.89	203.6	80.75	19.04	666.9
21-Sep 11:00	3.12	124.0	76.24	19.82	848.3
21-Sep 11:30	2.57	146.4	66.37	21.01	898.9
21-Sep 12:00	0.19	49.5	54.75	21.65	872.5
21-Sep 12:30	3.00	202.3	56.06	20.97	163.1
21-Sep 13:00	5.32	217.5	49.93	21.79	822.4
21-Sep 13:30	3.88	264.0	46.37	22.05	757.1
21-Sep 14:00	2.10	250.3	44.88	22.32	769.2
21-Sep 14:30	7.56	216.3	41.26	22.96	686.8
21-Sep 15:00	5.33	272.8	47.15	22.30	161.0
21-Sep 15:30	0.72	219.3	45.97	23.40	173.3
21-Sep 16:00	0.93	171.8	51.97	22.39	416.6
21-Sep 16:30	7.98	204.8	50.40	22.70	372.9
21-Sep 17:00	3.67	213.3	54.18	22.36	260.6
21-Sep 17:30	2.39	163.3	57.35	22.25	134.4
21-Sep 18:00	5.02	228.6	57.99	21.87	58.9
21-Sep 18:30	3.40	191.2	63.42	21.05	26.1
21-Sep 19:00	4.82	178.8	65.28	20.53	5.9
21-Sep 19:30	2.58	142.9	73.18	19.01	0.0
21-Sep 20:00	4.57	114.0	87.28	16.23	0.0
21-Sep 20:30	2.39	67.8	92.00	15.45	0.0
21-Sep 21:00	2.02	54.2	93.15	14.62	0.0
21-Sep 21:30	2.57	67.4	93.69	14.12	0.0
21-Sep 22:00	1.95	58.9	94.09	13.45	0.0
21-Sep 22:30	3.04	71.5	94.72	13.19	0.0

21-Sep 23:00	3.30	83.2	95.38	12.90	0.0
21-Sep 23:30	3.39	49.5	95.61	12.62	0.0
22-Sep 0:00	4.63	27.3	95.33	12.39	0.0
22-Sep 0:30	4.55	52.7	95.72	12.13	0.0
22-Sep 1:00	3.82	55.6	95.73	11.86	0.0
22-Sep 1:30	2.21	64.8	96.25	11.71	0.0
22-Sep 2:00	3.36	64.3	96.21	11.49	0.0
22-Sep 2:30	2.96	66.0	96.52	11.23	0.0
22-Sep 3:00	1.95	69.8	96.96	11.25	0.0
22-Sep 3:30	3.34	65.7	96.75	11.06	0.0
22-Sep 4:00	2.96	56.0	96.83	11.43	0.0
22-Sep 4:30	2.80	65.1	96.74	11.44	0.0
22-Sep 5:00	2.24	75.8	96.64	11.53	0.0
22-Sep 5:30	0.00	0.0	96.68	11.98	0.0
22-Sep 6:00	1.62	31.0	96.86	12.82	0.0
22-Sep 6:30	1.21	83.6	96.54	12.96	0.0
22-Sep 7:00	1.44	97.3	96.57	13.10	5.7
22-Sep 7:30	1.61	101.3	96.55	13.32	44.1
22-Sep 8:00	0.36	88.5	95.14	13.65	97.8
22-Sep 8:30	2.13	248.0	92.73	15.03	198.4
22-Sep 9:00	3.36	241.0	86.75	17.23	422.8
22-Sep 9:30	3.50	279.3	86.94	17.71	521.2
22-Sep 10:00	4.00	164.5	81.53	18.70	577.2
22-Sep 10:30	8.38	252.3	77.69	19.01	709.8
22-Sep 11:00	3.76	222.0	69.97	20.06	903.6
22-Sep 11:30	10.08	258.9	61.27	20.21	757.3
22-Sep 12:00	6.06	259.8	62.42	20.61	256.3
22-Sep 12:30	9.85	225.7	56.94	21.04	846.1
22-Sep 13:00	13.00	296.1	54.57	20.86	779.7
22-Sep 13:30	10.83	232.9	55.61	21.56	722.1
22-Sep 14:00	12.83	290.0	52.76	21.50	725.5
22-Sep 14:30	11.49	230.1	54.17	21.39	290.2
22-Sep 15:00	5.99	239.7	51.81	22.19	652.1
22-Sep 15:30	9.11	265.9	50.33	21.99	455.0
22-Sep 16:00	7.56	260.4	48.60	21.90	431.8
22-Sep 16:30	7.84	271.0	50.10	21.75	343.6
22-Sep 17:00	5.36	284.3	55.21	21.49	116.8
22-Sep 17:30	9.59	300.9	52.12	21.37	158.5
22-Sep 18:00	4.89	296.3	55.54	20.80	63.2
22-Sep 18:30	3.74	261.7	60.69	20.03	24.5
22-Sep 19:00	0.00	0.0	67.28	19.23	5.5
22-Sep 19:30	0.00	0.0	77.59	17.16	0.0
22-Sep 20:00	0.31	99.6	83.65	15.64	0.0
22-Sep 20:30	2.61	41.5	88.94	14.50	0.0
22-Sep 21:00	1.41	81.8	91.50	13.57	0.0
22-Sep 21:30	4.25	91.1	91.84	12.96	0.0
22-Sep 22:00	2.47	66.0	92.35	12.52	0.0
22-Sep 22:30	2.00	72.9	92.59	12.01	0.0
22-Sep 23:00	2.44	58.9	93.50	11.84	0.0
22-Sep 23:30	1.79	100.6	93.92	11.51	0.0
23-Sep 0:00	3.28	81.3	95.55	11.24	0.0
23-Sep 0:30	1.96	80.1	94.51	11.40	0.0

23-Sep	1:00	4.80	45.6	93.34	11.47	0.0
23-Sep	1:30	3.70	69.2	94.31	11.11	0.0
23-Sep	2:00	2.53	65.2	94.46	10.95	0.0
23-Sep	2:30	3.71	63.2	95.82	10.64	0.0
23-Sep	3:00	4.22	73.6	95.70	10.47	0.0
23-Sep	3:30	3.08	76.5	95.74	10.31	0.0
23-Sep	4:00	3.84	58.2	95.99	10.03	0.0
23-Sep	4:30	4.40	68.9	96.59	9.81	0.0
23-Sep	5:00	5.39	71.8	96.09	9.29	0.0
23-Sep	5:30	3.22	86.3	95.96	9.06	0.0
23-Sep	6:00	2.25	102.0	96.68	8.92	0.0
23-Sep	6:30	4.23	101.6	96.31	8.68	0.0
23-Sep	7:00	4.21	89.6	96.34	8.42	6.8
23-Sep	7:30	3.28	65.3	95.05	8.56	118.3
23-Sep	8:00	4.28	88.9	97.17	8.55	106.0
23-Sep	8:30	5.31	76.2	95.98	9.30	146.9
23-Sep	9:00	1.70	66.3	89.03	11.40	429.4
23-Sep	9:30	0.00	0.0	80.01	14.49	538.2
23-Sep	10:00	1.08	48.6	71.16	17.48	621.7
23-Sep	10:30	0.00	0.0	61.67	19.76	686.3
23-Sep	11:00	1.77	68.6	61.63	19.58	736.3
23-Sep	11:30	2.17	70.0	54.75	20.86	794.5
23-Sep	12:00	3.92	344.7	52.47	21.30	865.3
23-Sep	12:30	1.80	68.8	52.29	21.96	280.5
23-Sep	13:00	0.87	297.8	53.20	21.13	248.4
23-Sep	13:30	3.74	73.8	48.38	22.35	921.1
23-Sep	14:00	5.19	185.2	44.39	22.70	773.1
23-Sep	14:30	4.56	296.7	43.74	22.20	711.8
23-Sep	15:00	5.58	280.7	44.20	22.77	633.6
23-Sep	15:30	6.53	284.4	46.35	22.52	560.0
23-Sep	16:00	1.65	239.7	48.57	21.77	92.4
23-Sep	16:30	6.24	299.1	44.96	23.29	391.4
23-Sep	17:00	5.37	234.5	52.45	22.03	137.1
23-Sep	17:30	2.55	232.8	53.99	21.74	73.9
23-Sep	18:00	0.92	174.2	63.08	20.66	35.3
23-Sep	18:30	1.01	103.8	75.24	19.28	20.9
23-Sep	19:00	0.00	0.0	80.81	18.21	4.1
23-Sep	19:30	3.02	85.7	84.47	17.03	0.0
23-Sep	20:00	2.73	74.8	87.88	15.84	0.0
23-Sep	20:30	5.16	71.7	90.03	14.82	0.0
23-Sep	21:00	3.25	70.7	92.29	14.35	0.0
23-Sep	21:30	5.72	71.5	92.43	13.67	0.0
23-Sep	22:00	5.74	70.3	92.77	13.40	0.0
23-Sep	22:30	4.10	69.8	93.29	13.17	0.0
23-Sep	23:00	4.83	57.8	93.48	12.70	0.0
23-Sep	23:30	2.14	40.4	94.08	12.27	0.0
24-Sep	0:00	3.41	80.9	94.80	11.96	0.0
24-Sep	0:30	3.77	48.2	94.82	11.61	0.0
24-Sep	1:00	2.88	73.9	95.60	11.39	0.0
24-Sep	1:30	3.25	65.4	95.93	11.17	0.0
24-Sep	2:00	3.27	65.0	96.33	11.01	0.0
24-Sep	2:30	2.38	72.3	96.77	11.02	0.0

24-Sep	3:00	2.13	64.7	96.33	11.31	0.0
24-Sep	3:30	1.42	65.9	96.38	11.48	0.0
24-Sep	4:00	1.09	45.7	96.58	11.80	0.0
24-Sep	4:30	1.86	68.9	96.31	12.18	0.0
24-Sep	5:00	2.99	47.6	96.70	12.65	0.0
24-Sep	5:30	2.67	48.2	97.06	13.26	0.0
24-Sep	6:00	1.87	49.3	97.59	13.73	0.0
24-Sep	6:30	1.96	72.8	97.27	13.91	0.0
24-Sep	7:00	1.25	58.4	96.97	14.56	2.0
24-Sep	7:30	2.08	19.4	97.21	15.59	20.0
24-Sep	8:00	0.00	0.0	96.53	16.30	26.9
24-Sep	8:30	3.98	117.5	91.32	17.83	56.1
24-Sep	9:00	4.51	147.2	94.55	17.55	91.9
24-Sep	9:30	8.85	145.7	96.21	17.41	107.0
24-Sep	10:00	6.30	124.8	96.18	17.55	152.2
24-Sep	10:30	3.92	159.4	93.51	17.98	211.0
24-Sep	11:00	9.67	158.3	93.14	18.21	132.5
24-Sep	11:30	8.40	130.7	94.03	18.15	105.3
24-Sep	12:00	9.76	145.2	93.83	18.30	114.5
24-Sep	12:30	6.43	156.2	93.58	18.54	200.7
24-Sep	13:00	7.82	150.1	95.18	18.28	79.4
24-Sep	13:30	9.58	151.0	94.60	18.46	124.7
24-Sep	14:00	6.77	100.4	96.22	18.30	33.8
24-Sep	14:30	7.99	169.2	93.94	18.91	37.0
24-Sep	15:00	6.56	175.6	91.07	19.68	58.1
24-Sep	15:30	11.46	204.5	88.02	20.45	201.3
24-Sep	16:00	4.25	231.0	83.99	21.12	244.4
24-Sep	16:30	7.84	215.7	75.05	21.83	193.5
24-Sep	17:00	5.62	192.1	71.97	21.59	66.0
24-Sep	17:30	11.08	217.3	72.48	21.51	51.5
24-Sep	18:00	10.16	190.2	77.06	21.21	14.5
24-Sep	18:30	5.97	196.2	86.86	19.94	3.8
24-Sep	19:00	1.47	132.8	88.34	19.85	0.2
24-Sep	19:30	8.80	201.7	94.01	19.04	0.0
24-Sep	20:00	6.88	216.0	95.57	18.37	0.0
24-Sep	20:30	13.54	182.0	91.72	17.54	0.0
24-Sep	21:00	7.22	116.0	89.91	17.75	0.0
24-Sep	21:30	6.61	128.4	93.80	17.71	0.0
24-Sep	22:00	3.23	121.9	92.09	17.95	0.0
24-Sep	22:30	14.10	121.7	93.05	18.14	0.0
24-Sep	23:00	5.97	203.7	96.31	18.23	0.0
24-Sep	23:30	9.26	244.0	97.38	17.69	0.0
25-Sep	0:00	5.40	234.0	97.60	16.40	0.0
25-Sep	0:30	6.66	222.9	97.74	15.94	0.0
25-Sep	1:00	1.12	222.3	97.57	15.68	0.0
25-Sep	1:30	3.61	214.9	97.64	15.41	0.0
25-Sep	2:00	5.39	242.3	97.68	15.13	0.0
25-Sep	2:30	6.94	259.7	97.69	15.03	0.0
25-Sep	3:00	5.09	229.4	97.77	14.81	0.0
25-Sep	3:30	3.32	214.5	97.92	14.80	0.0
25-Sep	4:00	4.06	228.2	97.99	14.77	0.0
25-Sep	4:30	2.66	207.8	98.08	14.69	0.0

25-Sep	5:00	5.60	216.4	98.15	14.61	0.0
25-Sep	5:30	5.35	254.9	98.09	14.30	0.0
25-Sep	6:00	3.51	309.8	97.96	13.60	0.0
25-Sep	6:30	3.11	26.5	96.63	13.52	0.0
25-Sep	7:00	1.46	296.0	96.99	13.31	0.8
25-Sep	7:30	2.83	235.0	97.41	13.36	11.6
25-Sep	8:00	1.91	20.9	97.59	13.44	27.8
25-Sep	8:30	3.80	83.4	95.15	13.48	50.4
25-Sep	9:00	4.38	226.7	97.23	13.64	26.9
25-Sep	9:30	3.12	204.9	97.55	13.65	65.8
25-Sep	10:00	2.31	316.9	96.91	13.86	126.6
25-Sep	10:30	3.86	224.2	94.21	14.33	212.8
25-Sep	11:00	4.01	213.5	91.58	14.80	265.7
25-Sep	11:30	2.38	265.0	89.28	15.17	373.2
25-Sep	12:00	2.68	240.9	87.63	15.56	148.0
25-Sep	12:30	6.28	270.4	94.54	13.84	24.5
25-Sep	13:00	8.31	279.9	96.24	12.45	40.1
25-Sep	13:30	5.03	267.5	96.07	12.33	48.7
25-Sep	14:00	5.61	250.9	94.66	11.72	48.1
25-Sep	14:30	9.62	229.0	93.12	11.35	70.1
25-Sep	15:00	5.52	202.7	94.83	11.26	87.9
25-Sep	15:30	7.85	243.4	94.32	11.03	48.7
25-Sep	16:00	2.66	268.6	93.94	10.96	31.8
25-Sep	16:30	6.54	257.9	89.35	11.11	70.2
25-Sep	17:00	3.20	234.9	88.17	11.64	133.6
25-Sep	17:30	5.48	244.3	82.11	12.00	285.7
25-Sep	18:00	6.77	272.4	79.65	12.04	77.2
25-Sep	18:30	3.81	256.1	83.96	11.54	17.0
25-Sep	19:00	0.00	0.0	90.21	10.59	2.9
25-Sep	19:30	1.99	132.2	95.64	9.89	0.0
25-Sep	20:00	0.00	0.0	96.75	9.15	0.0
25-Sep	20:30	1.68	177.9	97.44	9.16	0.0
25-Sep	21:00	0.00	0.0	97.77	8.64	0.0
25-Sep	21:30	3.92	222.6	97.86	8.40	0.0
25-Sep	22:00	5.95	236.7	91.36	8.10	0.0
25-Sep	22:30	5.48	269.7	88.54	7.79	0.0
25-Sep	23:00	2.09	203.7	90.68	7.25	0.0
25-Sep	23:30	4.72	240.0	89.37	6.69	0.0
26-Sep	0:00	3.05	234.7	90.15	6.36	0.0
26-Sep	0:30	0.00	0.0	93.04	5.83	0.0
26-Sep	1:00	1.85	268.2	91.93	5.39	0.0
26-Sep	1:30	0.00	0.0	92.23	5.01	0.0
26-Sep	2:00	1.60	67.2	97.04	4.65	0.0
26-Sep	2:30	0.00	0.0	97.83	4.40	0.0
26-Sep	3:00	1.24	97.1	98.13	4.03	0.0
26-Sep	3:30	1.07	40.5	98.55	3.78	0.0
26-Sep	4:00	0.99	50.1	98.88	3.50	0.0
26-Sep	4:30	3.29	88.1	98.99	2.82	0.0
26-Sep	5:00	2.23	110.5	98.91	2.30	0.0
26-Sep	5:30	1.90	81.0	99.02	2.05	0.0
26-Sep	6:00	4.23	104.3	99.00	1.59	0.0
26-Sep	6:30	2.56	54.4	99.00	2.32	0.0

26-Sep 7:00	1.58	105.2	98.67	3.00	1.5
26-Sep 7:30	1.17	56.0	98.44	3.64	9.2
26-Sep 8:00	2.10	73.9	96.00	4.30	53.7
26-Sep 8:30	1.84	83.2	85.74	5.88	333.5
26-Sep 9:00	0.00	0.0	87.24	6.54	165.2
26-Sep 9:30	2.41	190.8	76.35	8.25	559.8
26-Sep 10:00	3.56	233.1	74.62	9.45	562.9
26-Sep 10:30	5.38	203.1	75.85	9.09	204.7
26-Sep 11:00	9.40	241.9	66.78	9.58	469.3
26-Sep 11:30	5.27	242.0	63.22	10.62	864.9
26-Sep 12:00	7.13	253.4	61.47	11.17	827.9
26-Sep 12:30	15.17	278.9	60.61	10.56	242.4
26-Sep 13:00	10.90	231.2	58.48	11.93	817.8
26-Sep 13:30	9.73	247.2	58.44	11.31	335.3
26-Sep 14:00	13.04	243.6	54.03	12.07	283.8
26-Sep 14:30	10.37	247.8	54.53	12.59	755.1
26-Sep 15:00	13.85	218.7	53.42	12.01	672.1
26-Sep 15:30	10.19	238.9	51.11	12.73	228.1
26-Sep 16:00	8.92	241.1	52.58	12.24	226.8
26-Sep 16:30	5.12	221.9	52.70	12.63	137.2
26-Sep 17:00	4.44	222.6	54.42	12.16	115.5
26-Sep 17:30	2.14	227.9	58.32	12.41	78.1
26-Sep 18:00	3.34	210.8	65.80	11.86	18.5
26-Sep 18:30	2.18	229.4	65.16	11.79	6.7
26-Sep 19:00	3.25	179.6	68.90	11.35	0.7
26-Sep 19:30	1.45	299.8	70.70	10.88	0.0
26-Sep 20:00	1.37	232.5	75.01	10.47	0.0
26-Sep 20:30	1.79	251.1	74.48	10.31	0.0
26-Sep 21:00	0.00	0.0	81.80	9.74	0.0
26-Sep 21:30	0.00	0.0	82.74	9.59	0.0
26-Sep 22:00	1.75	272.2	79.70	9.52	0.0
26-Sep 22:30	1.33	227.9	77.98	9.78	0.0
26-Sep 23:00	0.00	0.0	82.81	9.30	0.0
26-Sep 23:30	1.48	92.2	87.67	8.41	0.0
27-Sep 0:00	0.00	0.0	90.95	7.17	0.0
27-Sep 0:30	0.07	70.3	91.43	6.38	0.0
27-Sep 1:00	1.13	88.9	92.40	6.07	0.0
27-Sep 1:30	3.00	60.6	95.33	5.77	0.0
27-Sep 2:00	2.33	64.3	96.37	5.11	0.0
27-Sep 2:30	2.98	64.3	96.64	5.08	0.0
27-Sep 3:00	2.45	51.7	95.92	4.80	0.0
27-Sep 3:30	2.75	55.9	96.04	4.90	0.0
27-Sep 4:00	2.49	59.1	96.05	5.01	0.0
27-Sep 4:30	3.09	58.9	94.53	5.27	0.0
27-Sep 5:00	3.27	60.0	94.90	5.50	0.0
27-Sep 5:30	4.00	81.4	94.21	5.87	0.0
27-Sep 6:00	2.97	42.4	93.61	6.17	0.0
27-Sep 6:30	3.00	74.9	95.65	6.47	0.0
27-Sep 7:00	2.22	57.0	91.50	6.61	1.2
27-Sep 7:30	1.28	53.8	91.99	6.83	12.9
27-Sep 8:00	0.00	0.0	87.91	7.41	25.9
27-Sep 8:30	2.03	240.5	81.25	8.32	75.7

27-Sep 9:00	4.93	247.9	76.03	9.08	154.1
27-Sep 9:30	5.99	225.8	70.55	10.47	340.3
27-Sep 10:00	6.48	242.6	64.95	11.62	738.8
27-Sep 10:30	8.35	227.5	68.44	11.16	680.4
27-Sep 11:00	5.73	238.4	69.40	11.17	183.4
27-Sep 11:30	9.39	261.2	69.66	11.04	124.4
27-Sep 12:00	8.78	270.0	63.62	11.46	223.0
27-Sep 12:30	3.20	253.2	65.86	11.45	246.7
27-Sep 13:00	2.50	236.5	63.70	12.16	932.7
27-Sep 13:30	13.55	267.6	59.85	12.40	203.7
27-Sep 14:00	5.78	253.1	64.39	11.88	242.1
27-Sep 14:30	8.17	239.0	63.91	12.35	242.0
27-Sep 15:00	7.17	229.1	61.29	12.67	268.6
27-Sep 15:30	8.19	216.6	60.24	12.86	223.2
27-Sep 16:00	9.94	248.6	63.72	12.37	179.8
27-Sep 16:30	9.88	284.2	74.16	10.95	50.8
27-Sep 17:00	2.53	145.9	88.18	10.26	173.0
27-Sep 17:30	2.82	217.0	85.00	10.55	112.0
27-Sep 18:00	1.99	239.4	85.27	10.60	35.7
27-Sep 18:30	0.40	258.1	91.17	10.15	15.0
27-Sep 19:00	0.00	0.0	93.04	9.61	1.3
27-Sep 19:30	0.00	0.0	92.51	9.18	0.0
27-Sep 20:00	1.97	244.1	88.66	9.01	0.0
27-Sep 20:30	0.57	264.5	84.66	8.84	0.0
27-Sep 21:00	3.39	243.6	84.62	8.46	0.0
27-Sep 21:30	4.24	244.7	90.17	8.01	0.0
27-Sep 22:00	2.44	236.6	93.50	7.53	0.0
27-Sep 22:30	2.84	250.9	94.56	6.72	0.0
27-Sep 23:00	3.01	246.0	95.57	6.46	0.0
27-Sep 23:30	2.56	262.3	95.29	6.56	0.0
28-Sep 0:00	0.00	0.0	95.06	6.66	0.0
28-Sep 0:30	3.67	249.2	95.59	6.81	0.0
28-Sep 1:00	4.06	245.1	95.26	6.86	0.0
28-Sep 1:30	2.45	261.4	95.05	6.86	0.0
28-Sep 2:00	5.75	228.4	95.67	6.85	0.0
28-Sep 2:30	3.79	258.1	95.92	6.75	0.0
28-Sep 3:00	2.33	288.2	95.39	6.56	0.0
28-Sep 3:30	1.90	257.2	95.90	6.44	0.0
28-Sep 4:00	3.31	220.0	96.38	6.12	0.0
28-Sep 4:30	1.28	211.0	96.22	6.16	0.0
28-Sep 5:00	4.05	261.4	95.68	6.16	0.0
28-Sep 5:30	1.75	285.7	95.26	6.27	0.0
28-Sep 6:00	3.58	237.0	95.52	6.28	0.0
28-Sep 6:30	3.07	293.1	96.05	6.51	0.0
28-Sep 7:00	1.85	342.2	93.75	6.92	1.8
28-Sep 7:30	3.62	311.8	93.03	7.01	11.1
28-Sep 8:00	3.01	14.2	91.71	7.37	63.3
28-Sep 8:30	5.56	10.2	88.68	7.46	42.8
28-Sep 9:00	6.38	343.1	87.33	7.73	141.5
28-Sep 9:30	8.55	348.5	86.31	7.88	96.9
28-Sep 10:00	7.35	24.2	84.03	8.13	110.3
28-Sep 10:30	8.61	41.9	81.09	8.74	240.8

28-Sep 11:00	7.04	48.5	79.07	9.47	266.1
28-Sep 11:30	7.45	72.1	78.04	9.21	203.6
28-Sep 12:00	8.46	340.9	77.97	9.91	409.1
28-Sep 12:30	10.64	43.4	79.89	9.51	196.7
28-Sep 13:00	13.16	338.3	75.19	10.30	524.4
28-Sep 13:30	3.90	69.9	71.66	11.39	720.5
28-Sep 14:00	7.47	52.2	66.77	12.19	858.8
28-Sep 14:30	9.02	41.2	66.50	12.22	729.9
28-Sep 15:00	7.29	22.2	64.79	12.88	420.1
28-Sep 15:30	4.33	58.9	69.87	12.06	402.4
28-Sep 16:00	2.89	39.5	71.75	11.88	245.5
28-Sep 16:30	5.51	62.3	70.06	12.14	153.0
28-Sep 17:00	6.81	60.6	67.67	12.45	196.4
28-Sep 17:30	3.44	55.0	88.49	8.39	24.8
28-Sep 18:00	3.00	93.9	90.56	8.71	82.6
28-Sep 18:30	1.47	30.1	89.91	9.12	25.0
28-Sep 19:00	7.63	35.7	87.52	9.25	0.5
28-Sep 19:30	2.86	54.6	90.91	8.68	0.0
28-Sep 20:00	1.84	72.0	93.73	8.56	0.0
28-Sep 20:30	2.67	76.1	94.08	8.12	0.0
28-Sep 21:00	1.73	4.1	94.05	7.97	0.0
28-Sep 21:30	0.00	0.0	94.70	8.16	0.0
28-Sep 22:00	1.75	69.0	94.51	8.24	0.0
28-Sep 22:30	1.78	59.3	94.43	8.28	0.0
28-Sep 23:00	1.82	106.9	94.75	8.26	0.0
28-Sep 23:30	1.19	262.2	95.50	8.28	0.0
29-Sep 0:00	3.92	46.1	95.03	8.65	0.0
29-Sep 0:30	4.09	2.9	93.30	8.92	0.0
29-Sep 1:00	2.41	62.9	94.20	8.98	0.0
29-Sep 1:30	5.06	32.0	93.57	9.03	0.0
29-Sep 2:00	3.10	56.5	93.03	9.20	0.0
29-Sep 2:30	2.77	64.4	93.03	8.98	0.0
29-Sep 3:00	3.44	61.3	92.10	9.09	0.0
29-Sep 3:30	6.33	35.9	91.72	8.82	0.0
29-Sep 4:00	4.19	53.1	91.63	9.03	0.0
29-Sep 4:30	8.63	18.5	90.75	9.05	0.0
29-Sep 5:00	3.28	45.7	90.80	9.06	0.0
29-Sep 5:30	6.13	26.8	91.16	8.98	0.0
29-Sep 6:00	5.36	30.0	91.14	8.94	0.0
29-Sep 6:30	7.75	43.3	90.45	8.98	0.0
29-Sep 7:00	8.95	44.9	89.50	9.02	1.6
29-Sep 7:30	5.64	56.7	89.46	9.12	11.6
29-Sep 8:00	5.68	55.5	89.91	8.98	18.7
29-Sep 8:30	11.70	22.1	88.49	9.09	32.7
29-Sep 9:00	9.73	52.7	87.37	9.05	50.1
29-Sep 9:30	8.88	51.7	87.70	9.16	77.2
29-Sep 10:00	5.62	22.9	89.86	8.88	78.6
29-Sep 10:30	6.04	48.5	90.38	8.77	87.7
29-Sep 11:00	5.70	33.7	89.67	8.76	69.7
29-Sep 11:30	4.93	51.8	87.25	9.22	147.4
29-Sep 12:00	7.54	38.5	81.54	10.27	227.7
29-Sep 12:30	5.76	349.2	77.76	11.24	226.4

29-Sep 13:00	5.37	60.8	75.87	11.54	619.4
29-Sep 13:30	4.04	49.9	73.79	11.87	242.5
29-Sep 14:00	8.84	52.0	66.10	13.10	365.8
29-Sep 14:30	13.37	29.5	58.64	13.95	695.0
29-Sep 15:00	11.24	50.2	53.51	13.96	450.9
29-Sep 15:30	9.79	42.9	51.58	14.21	176.5
29-Sep 16:00	9.15	61.2	44.54	14.80	134.6
29-Sep 16:30	7.65	51.2	46.30	14.81	349.0
29-Sep 17:00	12.38	38.9	45.97	14.56	158.2
29-Sep 17:30	6.65	53.7	48.81	14.66	114.1
29-Sep 18:00	6.71	42.9	47.60	14.34	53.8
29-Sep 18:30	4.55	65.4	52.62	13.81	22.8
29-Sep 19:00	3.51	52.4	60.03	12.52	1.3
29-Sep 19:30	4.99	34.8	69.67	10.39	0.0
29-Sep 20:00	3.08	55.2	75.95	9.26	0.0
29-Sep 20:30	0.00	0.0	83.06	8.30	0.0
29-Sep 21:00	1.90	80.2	88.33	7.45	0.0
29-Sep 21:30	3.05	54.2	83.90	7.41	0.0
29-Sep 22:00	4.43	50.4	85.11	7.00	0.0
29-Sep 22:30	4.45	55.2	87.41	6.57	0.0
29-Sep 23:00	3.22	82.0	87.44	6.66	0.0
29-Sep 23:30	1.94	99.0	87.04	6.24	0.0
30-Sep 0:00	0.00	0.0	93.41	5.53	0.0
30-Sep 0:30	2.61	67.2	91.59	5.44	0.0
30-Sep 1:00	5.66	77.2	86.03	5.60	0.0
30-Sep 1:30	5.67	73.3	84.31	6.15	0.0
30-Sep 2:00	4.35	90.6	85.77	5.89	0.0
30-Sep 2:30	4.91	76.0	85.83	6.10	0.0
30-Sep 3:00	3.42	100.6	90.71	5.17	0.0
30-Sep 3:30	2.44	94.8	91.09	5.30	0.0
30-Sep 4:00	2.01	48.3	91.99	5.03	0.0
30-Sep 4:30	5.78	46.3	85.31	5.42	0.0
30-Sep 5:00	3.99	105.0	85.39	4.92	0.0
30-Sep 5:30	0.00	0.0	88.58	4.06	0.0
30-Sep 6:00	0.00	0.0	89.77	3.87	0.0
30-Sep 6:30	1.75	33.6	89.65	3.52	0.0
30-Sep 7:00	4.10	45.6	80.11	4.56	2.6
30-Sep 7:30	5.72	50.0	76.86	5.20	108.4
30-Sep 8:00	10.21	46.4	69.63	6.42	248.6
30-Sep 8:30	9.25	37.9	63.33	7.79	360.1
30-Sep 9:00	8.96	47.3	60.28	8.66	461.3
30-Sep 9:30	14.57	43.2	55.69	9.04	541.3
30-Sep 10:00	9.36	53.8	51.58	9.73	629.0
30-Sep 10:30	11.02	53.7	50.63	9.76	247.3
30-Sep 11:00	10.48	48.0	45.75	10.49	763.1
30-Sep 11:30	11.86	34.1	45.06	10.71	544.4
30-Sep 12:00	15.18	80.5	44.63	11.01	758.7
30-Sep 12:30	9.94	104.5	41.99	11.88	731.8
30-Sep 13:00	8.28	57.6	41.33	12.45	703.3
30-Sep 13:30	6.34	56.3	42.76	12.26	472.6
30-Sep 14:00	14.51	23.2	39.55	12.60	411.3
30-Sep 14:30	6.34	54.1	43.73	13.27	337.9

30-Sep 15:00	7.24	34.9	39.25	13.71	319.6
30-Sep 15:30	7.97	54.2	38.00	13.75	490.6
30-Sep 16:00	6.45	57.6	46.81	13.32	238.5
30-Sep 16:30	7.15	1.5	49.86	13.40	206.6
30-Sep 17:00	3.85	37.4	52.05	13.42	127.4
30-Sep 17:30	4.54	43.1	50.20	13.41	93.8
30-Sep 18:00	6.10	10.0	52.13	13.14	48.6
30-Sep 18:30	3.75	57.3	55.93	12.82	12.3
30-Sep 19:00	1.83	62.3	60.67	11.83	3.0
30-Sep 19:30	2.41	43.8	63.56	10.93	0.0
30-Sep 20:00	1.48	72.1	70.80	10.27	0.0
30-Sep 20:30	1.20	56.6	70.76	9.82	0.0
30-Sep 21:00	3.99	61.3	64.79	9.86	0.0
30-Sep 21:30	3.44	51.4	65.44	9.89	0.0
30-Sep 22:00	2.33	51.8	69.96	9.24	0.0
30-Sep 22:30	0.23	358.4	70.88	8.56	0.0
30-Sep 23:00	0.00	0.0	72.70	8.37	0.0
30-Sep 23:30	2.54	308.5	74.62	8.09	0.0
1-Oct 0:00	2.82	337.4	66.65	8.46	0.0
1-Oct 0:30	0.00	0.0	69.96	8.55	0.0
1-Oct 1:00	6.03	35.6	70.29	8.81	0.0
1-Oct 1:30	4.03	29.7	70.18	9.00	0.0
1-Oct 2:00	5.75	60.1	71.48	9.01	0.0
1-Oct 2:30	4.36	65.7	73.68	8.68	0.0
1-Oct 3:00	3.90	56.8	77.98	8.02	0.0
1-Oct 3:30	3.92	39.8	81.88	7.24	0.0
1-Oct 4:00	2.38	37.6	84.62	6.89	0.0
1-Oct 4:30	7.08	15.0	82.09	7.10	0.0
1-Oct 5:00	3.21	5.7	80.37	7.52	0.0
1-Oct 5:30	4.51	36.7	81.52	7.52	0.0
1-Oct 6:00	4.64	2.1	82.64	7.34	0.0
1-Oct 6:30	5.22	58.6	82.61	7.43	0.0
1-Oct 7:00	3.15	58.0	83.04	7.47	0.6
1-Oct 7:30	2.66	48.7	83.54	7.30	8.7
1-Oct 8:00	2.43	73.0	85.33	7.15	33.6
1-Oct 8:30	3.79	321.3	81.74	7.56	55.7
1-Oct 9:00	6.52	35.7	78.91	8.54	107.0
1-Oct 9:30	7.76	57.2	79.80	9.23	119.0
1-Oct 10:00	6.41	43.2	80.52	9.03	139.7
1-Oct 10:30	3.39	58.4	82.73	9.60	178.3
1-Oct 11:00	13.71	39.8	77.54	11.11	608.0
1-Oct 11:30	6.96	38.7	77.08	11.47	414.9
1-Oct 12:00	6.97	52.1	76.01	11.80	292.1
1-Oct 12:30	4.56	80.8	70.96	13.00	873.1
1-Oct 13:00	3.67	29.7	55.04	15.98	813.4
1-Oct 13:30	7.13	358.9	58.63	15.55	355.0
1-Oct 14:00	9.73	22.7	50.29	17.36	707.0
1-Oct 14:30	3.53	3.7	52.24	17.53	509.0
1-Oct 15:00	7.26	358.8	47.52	18.08	583.1
1-Oct 15:30	6.99	329.1	46.08	18.27	494.1
1-Oct 16:00	15.03	324.1	41.08	18.46	404.0
1-Oct 16:30	6.55	345.7	35.28	18.75	307.6

1-Oct 17:00	7.27	2.0	40.66	18.23	206.0
1-Oct 17:30	12.20	343.0	42.39	18.25	109.8
1-Oct 18:00	6.47	309.3	45.39	18.37	23.4
1-Oct 18:30	2.21	287.0	50.85	17.22	12.8
1-Oct 19:00	3.08	277.6	57.84	15.47	0.9
1-Oct 19:30	1.61	70.0	73.22	12.97	0.0
1-Oct 20:00	1.82	51.4	83.00	11.15	0.0
1-Oct 20:30	0.37	59.1	86.99	10.18	0.0
1-Oct 21:00	0.64	64.0	88.37	9.48	0.0
1-Oct 21:30	0.00	0.0	86.43	10.26	0.0
1-Oct 22:00	3.11	65.5	89.92	9.12	0.0
1-Oct 22:30	3.11	48.4	92.12	8.51	0.0
1-Oct 23:00	5.14	49.8	93.44	8.02	0.0
1-Oct 23:30	3.54	62.1	93.39	7.51	0.0
2-Oct 0:00	4.54	63.0	95.00	7.08	0.0
2-Oct 0:30	3.68	46.8	95.02	6.65	0.0
2-Oct 1:00	4.14	55.2	94.94	6.43	0.0
2-Oct 1:30	4.54	57.9	95.78	6.20	0.0
2-Oct 2:00	3.41	58.3	96.18	6.00	0.0
2-Oct 2:30	3.45	63.2	96.58	5.92	0.0
2-Oct 3:00	3.81	49.0	96.74	5.63	0.0
2-Oct 3:30	3.15	72.9	97.02	5.49	0.0
2-Oct 4:00	2.31	67.4	97.13	5.37	0.0
2-Oct 4:30	1.35	47.9	97.20	5.22	0.0
2-Oct 5:00	2.90	59.3	97.22	5.05	0.0
2-Oct 5:30	2.25	58.4	97.27	4.84	0.0
2-Oct 6:00	1.77	81.4	97.40	4.74	0.0
2-Oct 6:30	1.98	88.8	97.39	4.73	0.0
2-Oct 7:00	2.10	70.3	97.45	4.74	2.4
2-Oct 7:30	2.63	68.8	97.40	4.64	38.6
2-Oct 8:00	1.88	83.3	95.18	5.72	170.3
2-Oct 8:30	0.26	20.0	90.60	7.24	289.0
2-Oct 9:00	0.00	0.0	81.06	9.85	291.4
2-Oct 9:30	3.23	221.6	83.38	11.53	478.1
2-Oct 10:00	6.83	219.4	79.51	13.09	633.5
2-Oct 10:30	4.76	232.3	74.36	14.87	638.9
2-Oct 11:00	5.30	208.3	70.63	15.98	715.1
2-Oct 11:30	6.91	215.9	65.52	17.07	770.9
2-Oct 12:00	4.53	7.2	54.36	18.79	765.4
2-Oct 12:30	2.66	52.7	48.90	19.11	822.2
2-Oct 13:00	7.04	359.9	53.70	19.08	276.9
2-Oct 13:30	8.84	290.6	52.87	19.69	771.0
2-Oct 14:00	3.57	298.9	53.81	19.98	706.2
2-Oct 14:30	5.43	291.6	53.27	20.27	553.9
2-Oct 15:00	5.42	289.5	52.06	20.73	589.1
2-Oct 15:30	5.56	235.2	53.06	20.74	458.0
2-Oct 16:00	7.62	250.4	54.02	21.03	377.3
2-Oct 16:30	4.16	265.4	56.99	20.55	229.1
2-Oct 17:00	11.64	279.3	53.81	21.09	191.8
2-Oct 17:30	9.72	229.4	57.64	20.70	101.9
2-Oct 18:00	4.27	239.3	61.06	20.24	33.8
2-Oct 18:30	1.64	269.7	64.88	19.52	13.2

2-Oct 19:00	0.00	0.0	73.17	18.00	0.8
2-Oct 19:30	1.60	70.1	84.01	15.41	0.0
2-Oct 20:00	2.32	93.7	89.19	14.10	0.0
2-Oct 20:30	2.65	62.8	93.11	13.29	0.0
2-Oct 21:00	2.60	86.0	93.20	12.54	0.0
2-Oct 21:30	1.44	78.7	94.48	11.98	0.0
2-Oct 22:00	2.61	75.1	95.52	11.49	0.0
2-Oct 22:30	2.82	42.4	96.04	11.33	0.0
2-Oct 23:00	2.52	60.0	96.05	10.94	0.0
2-Oct 23:30	3.50	48.9	96.40	10.75	0.0
3-Oct 0:00	4.47	64.1	96.10	10.50	0.0
3-Oct 0:30	4.67	54.6	96.52	10.14	0.0
3-Oct 1:00	3.60	51.8	96.46	9.75	0.0
3-Oct 1:30	4.73	54.2	95.85	9.63	0.0
3-Oct 2:00	3.83	69.6	95.38	9.51	0.0
3-Oct 2:30	4.34	60.0	95.55	9.31	0.0
3-Oct 3:00	4.83	59.6	95.58	9.08	0.0
3-Oct 3:30	5.06	59.1	95.73	8.63	0.0
3-Oct 4:00	4.72	57.6	96.02	8.40	0.0
3-Oct 4:30	5.69	60.9	95.41	8.25	0.0
3-Oct 5:00	5.09	51.2	95.42	7.97	0.0
3-Oct 5:30	4.24	61.7	95.80	7.69	0.0
3-Oct 6:00	4.55	55.2	95.63	7.60	0.0
3-Oct 6:30	4.15	53.9	95.54	7.35	0.0
3-Oct 7:00	2.86	53.4	95.89	7.03	2.5
3-Oct 7:30	3.82	65.4	95.28	6.89	59.7
3-Oct 8:00	4.23	47.5	92.25	7.49	195.5
3-Oct 8:30	3.41	35.0	88.50	9.07	308.6
3-Oct 9:00	1.47	67.4	82.72	11.17	411.6
3-Oct 9:30	0.00	0.0	73.36	14.17	509.7
3-Oct 10:00	4.77	219.5	72.92	16.25	582.2
3-Oct 10:30	3.77	204.5	70.13	17.65	642.8
3-Oct 11:00	3.66	123.8	65.22	18.96	679.9
3-Oct 11:30	6.56	224.3	62.10	20.07	715.2
3-Oct 12:00	6.71	251.6	59.87	20.69	732.7
3-Oct 12:30	11.94	220.0	57.21	21.47	736.8
3-Oct 13:00	5.04	245.5	54.40	22.31	715.3
3-Oct 13:30	6.09	231.5	51.57	22.81	690.0
3-Oct 14:00	11.34	259.1	45.98	23.27	658.1
3-Oct 14:30	8.20	193.6	44.10	23.68	597.2
3-Oct 15:00	8.42	194.4	42.13	24.03	523.8
3-Oct 15:30	10.59	234.3	41.23	24.20	449.2
3-Oct 16:00	12.00	203.5	42.33	24.18	364.6
3-Oct 16:30	9.31	220.5	42.77	24.03	268.0
3-Oct 17:00	8.67	244.5	44.37	23.75	180.4
3-Oct 17:30	7.53	237.8	48.34	23.29	90.0
3-Oct 18:00	6.56	226.9	51.31	22.87	36.8
3-Oct 18:30	7.31	227.4	57.71	21.88	12.6
3-Oct 19:00	0.00	0.0	60.82	20.95	0.6
3-Oct 19:30	0.56	313.7	65.22	19.79	0.0
3-Oct 20:00	1.74	145.4	79.19	17.34	0.0
3-Oct 20:30	1.50	116.2	86.57	15.62	0.0

3-Oct 21:00	2.22	97.4	90.85	14.61	0.0
3-Oct 21:30	2.32	74.9	92.75	14.01	0.0
3-Oct 22:00	2.64	60.4	93.21	13.78	0.0
3-Oct 22:30	2.38	72.1	94.37	13.20	0.0
3-Oct 23:00	1.36	70.5	94.20	12.98	0.0
3-Oct 23:30	1.01	36.1	94.53	12.68	0.0
4-Oct 0:00	2.14	110.1	95.21	12.21	0.0
4-Oct 0:30	2.08	115.6	95.35	11.85	0.0
4-Oct 1:00	2.00	115.6	95.65	11.45	0.0
4-Oct 1:30	2.46	56.0	95.80	11.36	0.0
4-Oct 2:00	2.43	74.6	95.95	11.07	0.0
4-Oct 2:30	2.79	62.3	96.22	10.91	0.0
4-Oct 3:00	3.41	55.2	96.22	10.69	0.0
4-Oct 3:30	3.17	66.2	96.49	10.41	0.0
4-Oct 4:00	3.88	47.1	96.67	10.03	0.0
4-Oct 4:30	4.43	49.8	96.65	9.70	0.0
4-Oct 5:00	4.50	55.2	96.90	9.33	0.0
4-Oct 5:30	4.03	56.3	97.13	8.98	0.0
4-Oct 6:00	3.05	51.3	97.03	8.58	0.0
4-Oct 6:30	3.86	57.3	97.15	8.23	0.0
4-Oct 7:00	4.70	55.5	96.85	7.97	2.2
4-Oct 7:30	4.12	52.0	95.67	7.72	69.0
4-Oct 8:00	3.09	59.1	91.51	8.45	202.9
4-Oct 8:30	3.15	64.7	88.59	9.50	309.1
4-Oct 9:00	2.38	53.2	82.64	11.45	424.9
4-Oct 9:30	0.00	0.0	66.37	15.58	521.0
4-Oct 10:00	3.20	208.9	65.68	16.91	600.8
4-Oct 10:30	2.11	168.5	59.12	18.47	663.0
4-Oct 11:00	9.66	277.9	49.28	19.80	709.0
4-Oct 11:30	9.54	221.4	46.56	20.56	745.6
4-Oct 12:00	14.91	221.9	42.92	21.39	769.0
4-Oct 12:30	9.48	202.3	41.87	21.77	767.8
4-Oct 13:00	2.66	90.0	40.23	22.71	747.7
4-Oct 13:30	7.08	248.1	40.97	22.48	712.6
4-Oct 14:00	5.92	214.2	39.50	23.36	672.0
4-Oct 14:30	5.09	226.5	38.04	23.72	609.1
4-Oct 15:00	6.95	233.3	36.99	23.84	536.7
4-Oct 15:30	8.93	225.8	35.32	24.46	441.7
4-Oct 16:00	7.38	277.7	35.07	24.16	367.7
4-Oct 16:30	10.51	246.8	36.89	23.85	263.8
4-Oct 17:00	7.26	250.2	39.36	23.63	176.2
4-Oct 17:30	7.61	236.2	41.05	23.21	86.6
4-Oct 18:00	1.04	204.7	46.57	22.50	34.2
4-Oct 18:30	4.73	218.2	51.99	21.28	11.5
4-Oct 19:00	1.08	326.7	57.21	19.94	0.4
4-Oct 19:30	0.00	0.0	67.82	17.88	0.0
4-Oct 20:00	1.55	94.9	77.13	15.97	0.0
4-Oct 20:30	1.41	83.0	82.37	14.90	0.0
4-Oct 21:00	1.73	67.1	85.01	14.36	0.0
4-Oct 21:30	1.41	53.5	86.35	13.79	0.0
4-Oct 22:00	3.30	49.3	87.84	13.26	0.0
4-Oct 22:30	1.51	44.7	89.62	12.69	0.0

4-Oct 23:00	1.41	164.3	80.77	13.40	0.0
4-Oct 23:30	1.31	98.5	91.26	12.27	0.0
5-Oct 0:00	1.11	172.9	92.03	11.90	0.0
5-Oct 0:30	1.85	112.5	91.42	11.41	0.0
5-Oct 1:00	2.34	79.7	92.76	11.13	0.0
5-Oct 1:30	3.02	57.8	92.77	10.83	0.0
5-Oct 2:00	3.12	60.2	93.25	10.52	0.0
5-Oct 2:30	3.37	65.4	93.48	10.34	0.0
5-Oct 3:00	4.24	48.3	93.59	10.02	0.0
5-Oct 3:30	3.32	67.0	94.54	9.62	0.0
5-Oct 4:00	4.47	50.6	94.50	9.48	0.0
5-Oct 4:30	5.10	48.2	95.62	8.98	0.0
5-Oct 5:00	3.92	70.7	95.51	8.84	0.0
5-Oct 5:30	5.27	52.0	95.38	8.58	0.0
5-Oct 6:00	5.46	72.4	95.10	8.29	0.0
5-Oct 6:30	7.04	69.5	94.64	7.94	0.0
5-Oct 7:00	5.85	71.5	95.21	7.57	2.1
5-Oct 7:30	4.10	64.8	95.64	7.50	41.0
5-Oct 8:00	5.16	46.5	91.41	8.11	184.8
5-Oct 8:30	2.54	66.1	88.51	9.13	294.9
5-Oct 9:00	2.67	57.9	84.18	10.73	406.2
5-Oct 9:30	2.80	53.4	77.23	12.79	498.5
5-Oct 10:00	0.00	0.0	66.41	15.88	581.0
5-Oct 10:30	1.58	201.8	57.50	18.72	649.1
5-Oct 11:00	3.81	258.5	53.69	19.81	694.0
5-Oct 11:30	1.06	286.4	49.67	21.11	731.7
5-Oct 12:00	7.75	254.1	45.63	21.69	783.0
5-Oct 12:30	16.36	244.4	40.46	21.86	820.3
5-Oct 13:00	13.81	272.2	36.90	22.58	790.6
5-Oct 13:30	11.11	254.3	37.58	22.62	761.1
5-Oct 14:00	9.30	226.3	35.85	23.04	701.0
5-Oct 14:30	10.64	216.5	36.15	22.92	654.7
5-Oct 15:00	5.14	163.6	37.69	22.83	417.0
5-Oct 15:30	2.63	161.3	39.29	22.39	216.7
5-Oct 16:00	14.00	215.9	37.74	22.65	362.9
5-Oct 16:30	9.01	208.6	39.32	22.27	245.6
5-Oct 17:00	4.73	218.4	41.31	22.21	162.1
5-Oct 17:30	5.26	197.8	41.11	22.06	81.8
5-Oct 18:00	7.34	211.9	44.55	21.25	34.3
5-Oct 18:30	6.62	214.8	47.42	20.36	6.9
5-Oct 19:00	3.42	213.7	53.94	19.14	0.1
5-Oct 19:30	2.62	202.9	55.92	18.31	0.0
5-Oct 20:00	6.06	210.9	60.55	17.75	0.0
5-Oct 20:30	2.88	187.6	64.22	17.56	0.0
5-Oct 21:00	8.00	213.1	66.00	17.44	0.0
5-Oct 21:30	4.28	188.5	66.87	17.36	0.0
5-Oct 22:00	3.25	187.7	67.87	17.06	0.0
5-Oct 22:30	5.79	191.1	66.63	17.06	0.0
5-Oct 23:00	1.29	333.8	72.25	16.33	0.0
5-Oct 23:30	0.00	0.0	79.50	15.03	0.0
6-Oct 0:00	5.42	215.1	72.11	16.28	0.0
6-Oct 0:30	7.08	200.7	72.98	16.59	0.0

6-Oct	1:00	11.86	202.6	74.01	16.64	0.0
6-Oct	1:30	6.68	212.4	74.36	16.68	0.0
6-Oct	2:00	9.60	221.2	76.23	16.43	0.0
6-Oct	2:30	4.72	225.2	75.96	16.63	0.0
6-Oct	3:00	4.09	214.4	78.08	16.34	0.0
6-Oct	3:30	7.33	211.2	78.84	16.32	0.0
6-Oct	4:00	10.27	241.1	78.76	16.48	0.0
6-Oct	4:30	10.45	222.9	79.22	16.51	0.0
6-Oct	5:00	5.50	237.9	80.39	16.39	0.0
6-Oct	5:30	17.07	227.0	80.71	16.35	0.0
6-Oct	6:00	10.26	222.1	80.89	16.53	0.0
6-Oct	6:30	10.34	231.5	88.22	15.77	0.0
6-Oct	7:00	10.30	213.2	89.64	15.71	0.0
6-Oct	7:30	10.02	222.1	92.75	15.49	0.5
6-Oct	8:00	15.07	274.0	90.18	13.13	2.5
6-Oct	8:30	6.71	258.4	91.66	11.89	10.3
6-Oct	9:00	12.31	281.1	93.35	11.62	10.1
6-Oct	9:30	7.76	342.5	89.44	9.09	42.1
6-Oct	10:00	14.81	321.8	83.66	7.96	102.7
6-Oct	10:30	15.10	329.0	80.73	8.65	359.2
6-Oct	11:00	14.29	314.0	70.87	8.89	774.1
6-Oct	11:30	17.21	310.3	69.13	9.26	427.2
6-Oct	12:00	4.73	3.2	65.21	9.68	840.3
6-Oct	12:30	15.81	305.2	56.27	11.07	746.6
6-Oct	13:00	8.76	294.3	55.95	11.60	249.7
6-Oct	13:30	14.09	309.6	55.95	10.89	175.6
6-Oct	14:00	12.68	283.3	52.57	10.94	238.3
6-Oct	14:30	16.81	299.3	54.22	11.16	164.1
6-Oct	15:00	13.87	306.6	56.55	10.74	152.8
6-Oct	15:30	4.68	281.9	56.96	11.16	205.6
6-Oct	16:00	8.04	283.6	49.90	12.14	191.4
6-Oct	16:30	10.85	282.2	49.73	11.46	66.1
6-Oct	17:00	22.18	310.4	41.43	12.49	225.3
6-Oct	17:30	18.19	283.1	44.81	12.22	55.3
6-Oct	18:00	7.08	280.1	49.54	11.81	35.4
6-Oct	18:30	12.91	277.9	47.89	11.39	10.5
6-Oct	19:00	8.47	267.3	51.56	10.58	0.2
6-Oct	19:30	7.10	239.2	57.85	9.62	0.0
6-Oct	20:00	4.72	248.3	62.09	8.48	0.0
6-Oct	20:30	5.58	229.1	67.25	7.54	0.0
6-Oct	21:00	4.85	239.5	66.17	6.94	0.0
6-Oct	21:30	2.41	255.9	66.65	6.61	0.0
6-Oct	22:00	2.73	236.6	67.88	6.17	0.0
6-Oct	22:30	0.00	0.0	70.42	5.89	0.0
6-Oct	23:00	4.51	239.0	69.67	5.53	0.0
6-Oct	23:30	3.73	246.8	69.49	5.72	0.0
7-Oct	0:00	3.79	249.7	68.18	5.70	0.0
7-Oct	0:30	2.13	243.3	72.75	4.99	0.0
7-Oct	1:00	2.62	250.0	69.96	4.28	0.0
7-Oct	1:30	3.80	257.4	72.43	3.79	0.0
7-Oct	2:00	3.43	249.9	74.50	3.32	0.0
7-Oct	2:30	2.10	243.5	80.26	2.83	0.0

7-Oct 3:00	1.71	264.0	79.86	2.58	0.0
7-Oct 3:30	2.55	245.5	80.91	2.07	0.0
7-Oct 4:00	2.06	231.2	82.32	2.10	0.0
7-Oct 4:30	2.70	238.2	83.68	1.77	0.0
7-Oct 5:00	3.00	248.7	85.52	1.47	0.0
7-Oct 5:30	4.09	249.3	86.60	1.13	0.0
7-Oct 6:00	3.62	249.4	84.46	1.31	0.0
7-Oct 6:30	1.48	276.0	87.84	0.98	0.0
7-Oct 7:00	2.64	241.7	87.03	0.90	2.0
7-Oct 7:30	5.16	297.4	81.18	1.73	15.2
7-Oct 8:00	5.98	290.0	76.74	2.84	235.6
7-Oct 8:30	8.76	293.4	72.82	3.75	352.2
7-Oct 9:00	10.44	312.6	68.60	4.59	456.3
7-Oct 9:30	14.15	324.9	63.99	4.90	123.5
7-Oct 10:00	14.67	317.3	59.22	5.61	662.1
7-Oct 10:30	13.86	340.2	50.76	6.61	196.6
7-Oct 11:00	11.84	295.7	48.70	6.26	430.8
7-Oct 11:30	10.10	313.9	53.51	5.74	142.5
7-Oct 12:00	12.04	265.7	56.84	5.93	187.4
7-Oct 12:30	8.82	301.2	52.41	6.42	178.2
7-Oct 13:00	17.48	330.7	54.53	5.79	93.9
7-Oct 13:30	14.63	336.3	51.69	6.74	755.6
7-Oct 14:00	8.63	278.5	43.18	8.07	695.2
7-Oct 14:30	11.54	250.1	40.12	8.13	489.0
7-Oct 15:00	10.75	333.3	46.74	6.63	103.7
7-Oct 15:30	11.01	299.1	44.18	7.58	442.8
7-Oct 16:00	16.46	301.6	41.94	7.45	212.7
7-Oct 16:30	15.05	317.0	41.72	6.89	75.5
7-Oct 17:00	12.08	281.3	40.40	7.14	86.8
7-Oct 17:30	15.27	311.9	33.65	6.91	101.8
7-Oct 18:00	12.39	319.8	35.18	6.22	22.4
7-Oct 18:30	6.24	318.6	36.11	5.58	6.6
7-Oct 19:00	1.70	43.2	37.05	5.00	0.1
7-Oct 19:30	3.58	291.9	42.07	4.23	0.0
7-Oct 20:00	2.26	285.0	46.17	3.46	0.0
7-Oct 20:30	3.75	239.7	50.14	3.28	0.0
7-Oct 21:00	5.07	232.8	55.59	2.90	0.0
7-Oct 21:30	6.18	277.9	53.67	3.12	0.0
7-Oct 22:00	2.88	271.9	56.76	2.83	0.0
7-Oct 22:30	4.20	256.7	60.65	2.59	0.0
7-Oct 23:00	3.83	274.7	61.78	2.59	0.0
7-Oct 23:30	5.13	267.0	63.24	2.78	0.0
8-Oct 0:00	5.63	238.0	65.44	2.69	0.0
8-Oct 0:30	6.08	296.8	67.12	2.63	0.0
8-Oct 1:00	10.09	284.9	68.61	2.43	0.0
8-Oct 1:30	3.57	263.7	73.49	2.02	0.0
8-Oct 2:00	4.11	262.0	76.04	1.57	0.0
8-Oct 2:30	5.59	241.3	80.47	0.94	0.0
8-Oct 3:00	4.35	234.9	83.46	0.53	0.0
8-Oct 3:30	3.65	241.6	86.66	0.37	0.0
8-Oct 4:00	4.44	237.3	88.79	0.07	0.0
8-Oct 4:30	4.49	243.1	87.30	-0.32	0.0

8-Oct	5:00	3.07	239.9	89.58	-0.89	0.0
8-Oct	5:30	1.65	202.8	89.47	-1.10	0.0
8-Oct	6:00	1.58	40.9	84.40	-0.93	0.0
8-Oct	6:30	1.68	15.5	81.55	-0.63	0.0
8-Oct	7:00	3.17	313.0	82.40	-0.83	1.7
8-Oct	7:30	2.04	334.7	81.22	-0.98	13.6
8-Oct	8:00	4.62	309.1	72.98	0.62	248.8
8-Oct	8:30	10.86	323.3	66.51	1.63	366.8
8-Oct	9:00	7.10	8.9	64.06	2.01	195.4
8-Oct	9:30	6.80	53.9	62.43	2.77	438.1
8-Oct	10:00	12.30	337.5	53.73	3.48	593.3
8-Oct	10:30	7.76	16.4	55.69	3.68	339.9
8-Oct	11:00	6.99	41.5	53.74	4.24	775.8
8-Oct	11:30	7.54	35.7	51.33	4.51	773.4
8-Oct	12:00	10.55	27.3	49.27	5.21	780.3
8-Oct	12:30	11.14	328.4	48.19	5.22	776.1
8-Oct	13:00	2.70	322.8	46.60	5.80	767.1
8-Oct	13:30	11.26	339.2	45.99	6.01	706.7
8-Oct	14:00	11.55	347.0	42.46	7.05	658.8
8-Oct	14:30	2.74	342.9	43.58	7.24	602.8
8-Oct	15:00	18.16	340.9	43.82	6.90	520.1
8-Oct	15:30	8.98	342.7	39.85	7.67	433.8
8-Oct	16:00	8.24	28.1	41.65	7.77	339.0
8-Oct	16:30	8.25	324.8	41.82	7.89	241.9
8-Oct	17:00	4.05	57.3	41.03	7.84	150.9
8-Oct	17:30	9.02	326.1	41.94	7.80	42.9
8-Oct	18:00	5.11	317.6	42.32	7.45	18.9
8-Oct	18:30	3.02	355.8	46.16	6.63	7.7
8-Oct	19:00	2.48	55.5	56.40	5.28	0.0
8-Oct	19:30	1.68	88.7	69.61	3.11	0.0
8-Oct	20:00	3.93	55.3	75.37	2.26	0.0
8-Oct	20:30	2.39	72.7	80.03	1.12	0.0
8-Oct	21:00	3.88	89.7	85.32	-0.12	0.0
8-Oct	21:30	4.20	111.2	86.83	-0.97	0.0
8-Oct	22:00	3.81	87.1	90.72	-1.06	0.0
8-Oct	22:30	3.28	73.0	93.32	-1.42	0.0
8-Oct	23:00	4.71	87.0	93.76	-1.91	0.0
8-Oct	23:30	5.25	89.6	93.07	-1.99	0.0
9-Oct	0:00	5.14	90.0	93.15	-2.11	0.0
9-Oct	0:30	5.06	94.1	93.28	-2.50	0.0
9-Oct	1:00	5.82	78.1	95.11	-2.61	0.0
9-Oct	1:30	4.87	89.7	94.57	-2.83	0.0
9-Oct	2:00	6.52	78.4	94.36	-2.90	0.0
9-Oct	2:30	4.11	72.5	95.75	-3.05	0.0
9-Oct	3:00	5.27	63.9	96.47	-3.21	0.0
9-Oct	3:30	4.70	91.1	94.04	-3.69	0.0
9-Oct	4:00	6.37	75.9	93.93	-3.71	0.0
9-Oct	4:30	6.94	79.1	94.84	-3.80	0.0
9-Oct	5:00	6.96	77.5	95.01	-4.13	0.0
9-Oct	5:30	4.27	81.0	94.60	-4.33	0.0
9-Oct	6:00	4.69	67.0	95.41	-4.54	0.0
9-Oct	6:30	5.37	82.1	94.20	-4.95	0.0

9-Oct 7:00	6.21	54.3	94.56	-4.92	1.6
9-Oct 7:30	5.45	71.6	95.12	-4.85	12.5
9-Oct 8:00	5.74	62.6	89.28	-3.91	253.2
9-Oct 8:30	6.07	74.0	85.17	-2.75	364.8
9-Oct 9:00	3.37	53.3	84.39	-1.14	472.4
9-Oct 9:30	2.13	80.0	77.16	1.04	551.9
9-Oct 10:00	0.00	0.0	61.51	4.65	635.4
9-Oct 10:30	4.67	223.9	53.37	6.49	697.3
9-Oct 11:00	10.45	209.8	39.98	7.96	738.3
9-Oct 11:30	9.74	203.1	36.46	9.08	736.8
9-Oct 12:00	12.75	199.6	29.42	9.63	729.8
9-Oct 12:30	9.75	227.5	29.26	10.26	557.5
9-Oct 13:00	4.27	164.4	29.93	10.81	689.6
9-Oct 13:30	4.01	205.4	28.35	11.66	714.6
9-Oct 14:00	7.11	234.1	25.46	12.17	652.7
9-Oct 14:30	10.54	207.1	24.77	12.54	581.9
9-Oct 15:00	9.38	219.7	26.48	12.99	514.3
9-Oct 15:30	10.62	225.1	26.84	13.18	407.7
9-Oct 16:00	9.22	212.1	29.98	12.81	311.8
9-Oct 16:30	12.52	203.1	27.23	12.77	219.7
9-Oct 17:00	7.54	217.4	26.78	12.88	124.0
9-Oct 17:30	5.25	260.1	28.75	12.54	72.7
9-Oct 18:00	5.62	221.2	31.94	11.89	25.4
9-Oct 18:30	3.01	213.9	33.99	11.17	7.1
9-Oct 19:00	5.53	211.3	39.39	10.05	0.0
9-Oct 19:30	1.61	189.8	44.78	9.28	0.0
9-Oct 20:00	1.46	109.0	50.54	7.80	0.0
9-Oct 20:30	2.86	90.0	60.52	6.47	0.0
9-Oct 21:00	1.35	22.8	65.00	5.85	0.0
9-Oct 21:30	0.55	93.9	70.13	5.10	0.0
9-Oct 22:00	0.00	0.0	69.60	5.29	0.0
9-Oct 22:30	3.96	115.3	76.10	3.95	0.0
9-Oct 23:00	1.61	91.8	80.91	3.29	0.0
9-Oct 23:30	1.92	104.6	82.93	2.86	0.0
10-Oct 0:00	1.29	108.3	82.75	2.46	0.0
10-Oct 0:30	2.30	116.2	87.13	2.04	0.0
10-Oct 1:00	1.40	65.6	89.63	1.85	0.0
10-Oct 1:30	2.45	88.0	89.76	1.56	0.0
10-Oct 2:00	2.35	82.9	90.96	1.63	0.0
10-Oct 2:30	2.44	102.2	91.66	1.38	0.0
10-Oct 3:00	0.00	0.0	94.00	1.12	0.0
10-Oct 3:30	0.00	0.0	94.61	0.88	0.0
10-Oct 4:00	2.04	91.0	94.96	0.59	0.0
10-Oct 4:30	2.75	92.6	95.57	0.66	0.0
10-Oct 5:00	2.32	89.7	95.65	0.68	0.0
10-Oct 5:30	3.05	78.5	96.09	0.57	0.0
10-Oct 6:00	2.34	78.2	96.39	0.49	0.0
10-Oct 6:30	3.16	53.8	97.12	0.45	0.0
10-Oct 7:00	2.56	67.4	96.97	0.33	1.4
10-Oct 7:30	5.16	54.4	96.72	0.36	25.2
10-Oct 8:00	4.50	60.4	92.70	1.08	147.1
10-Oct 8:30	4.08	46.3	86.04	2.30	301.7

10-Oct 9:00	2.17	62.9	79.36	4.33	460.7
10-Oct 9:30	0.00	0.0	64.90	8.02	510.8
10-Oct 10:00	3.82	211.3	50.01	9.93	559.5
10-Oct 10:30	4.84	218.7	43.82	11.66	664.7
10-Oct 11:00	0.00	0.0	39.31	13.30	698.1
10-Oct 11:30	6.13	232.8	35.59	14.02	699.1
10-Oct 12:00	1.91	187.8	35.21	15.67	725.8
10-Oct 12:30	4.16	260.2	32.31	16.35	634.4
10-Oct 13:00	2.55	170.9	31.63	17.33	668.1
10-Oct 13:30	2.53	128.7	31.40	17.54	717.6
10-Oct 14:00	2.09	201.2	29.00	18.64	614.4
10-Oct 14:30	2.98	159.6	29.52	18.76	501.4
10-Oct 15:00	6.14	234.1	28.91	18.99	481.8
10-Oct 15:30	6.58	218.1	30.51	18.88	486.2
10-Oct 16:00	2.38	246.2	30.28	19.20	298.6
10-Oct 16:30	4.58	202.2	32.47	18.15	186.6
10-Oct 17:00	5.24	225.9	33.33	17.74	139.4
10-Oct 17:30	4.08	207.5	39.50	16.89	65.8
10-Oct 18:00	6.01	234.7	44.31	15.89	34.6
10-Oct 18:30	0.00	0.0	47.36	15.03	2.6
10-Oct 19:00	2.47	169.0	51.19	14.19	0.0
10-Oct 19:30	2.87	170.2	53.22	14.03	0.0
10-Oct 20:00	0.98	91.9	64.51	11.90	0.0
10-Oct 20:30	1.78	51.5	73.02	10.20	0.0
10-Oct 21:00	3.21	44.3	76.36	9.30	0.0
10-Oct 21:30	2.30	71.4	81.89	8.33	0.0
10-Oct 22:00	2.10	65.3	84.79	7.70	0.0
10-Oct 22:30	2.61	80.6	88.17	7.12	0.0
10-Oct 23:00	2.40	69.5	89.47	6.48	0.0
10-Oct 23:30	3.36	39.6	91.58	6.13	0.0
11-Oct 0:00	2.61	55.5	92.81	5.80	0.0
11-Oct 0:30	3.90	47.1	93.94	5.65	0.0
11-Oct 1:00	3.90	58.0	94.75	5.24	0.0
11-Oct 1:30	5.46	60.9	95.06	4.99	0.0
11-Oct 2:00	4.83	52.0	95.06	5.01	0.0
11-Oct 2:30	4.95	63.0	95.60	4.77	0.0
11-Oct 3:00	5.20	37.5	95.43	4.23	0.0
11-Oct 3:30	2.75	68.8	95.91	4.19	0.0
11-Oct 4:00	4.17	63.6	95.79	4.05	0.0
11-Oct 4:30	3.97	50.7	96.44	3.93	0.0
11-Oct 5:00	5.83	52.5	96.52	3.57	0.0
11-Oct 5:30	5.60	61.7	96.86	3.30	0.0
11-Oct 6:00	4.59	53.9	96.74	3.21	0.0
11-Oct 6:30	4.65	56.2	97.53	3.16	0.0
11-Oct 7:00	3.40	49.9	98.23	2.89	0.9
11-Oct 7:30	4.04	48.5	98.64	2.79	7.7
11-Oct 8:00	4.64	55.7	98.57	3.06	48.3
11-Oct 8:30	4.01	60.4	98.24	3.63	135.8
11-Oct 9:00	3.92	51.6	97.55	4.69	246.9
11-Oct 9:30	0.00	0.0	96.87	7.79	498.8
11-Oct 10:00	0.00	0.0	92.28	10.47	596.4
11-Oct 10:30	4.23	228.9	76.93	13.08	653.4

11-Oct 11:00	5.11	219.2	72.56	15.51	698.7
11-Oct 11:30	2.03	143.6	66.89	16.61	723.5
11-Oct 12:00	2.15	208.2	62.15	17.86	741.2
11-Oct 12:30	1.37	257.4	56.42	19.08	734.8
11-Oct 13:00	8.33	206.9	53.24	19.80	702.6
11-Oct 13:30	4.94	235.2	51.59	20.18	636.3
11-Oct 14:00	0.29	235.9	47.98	21.30	611.8
11-Oct 14:30	6.77	225.8	46.16	21.50	577.5
11-Oct 15:00	7.66	212.6	42.63	21.50	472.2
11-Oct 15:30	9.99	220.8	43.87	21.56	406.9
11-Oct 16:00	12.91	211.8	39.93	21.36	288.2
11-Oct 16:30	9.27	239.4	44.71	21.37	227.1
11-Oct 17:00	2.06	163.8	46.56	20.86	136.4
11-Oct 17:30	8.30	217.5	49.73	20.42	54.9
11-Oct 18:00	3.99	221.4	52.19	19.69	30.6
11-Oct 18:30	3.48	224.1	59.58	18.61	3.9
11-Oct 19:00	3.12	169.9	64.61	17.58	0.0
11-Oct 19:30	1.10	71.1	74.59	15.33	0.0
11-Oct 20:00	1.72	73.8	81.95	13.61	0.0
11-Oct 20:30	2.34	65.3	85.92	12.66	0.0
11-Oct 21:00	2.86	62.1	88.33	12.00	0.0
11-Oct 21:30	2.27	63.2	90.36	11.36	0.0
11-Oct 22:00	1.79	60.8	93.13	10.61	0.0
11-Oct 22:30	2.10	64.9	94.36	10.20	0.0
11-Oct 23:00	1.49	61.3	94.78	9.75	0.0
11-Oct 23:30	2.25	68.5	95.54	9.35	0.0
12-Oct 0:00	2.65	69.8	95.82	9.28	0.0
12-Oct 0:30	2.55	71.0	96.24	8.67	0.0
12-Oct 1:00	2.61	51.4	96.60	8.57	0.0
12-Oct 1:30	3.16	60.5	96.71	8.39	0.0
12-Oct 2:00	3.34	54.3	96.84	8.18	0.0
12-Oct 2:30	3.85	59.7	96.81	7.72	0.0
12-Oct 3:00	4.02	56.9	97.00	7.57	0.0
12-Oct 3:30	4.76	60.8	97.03	7.51	0.0
12-Oct 4:00	4.41	50.8	96.35	7.16	0.0
12-Oct 4:30	4.99	62.6	96.43	6.82	0.0
12-Oct 5:00	4.78	56.7	96.75	6.58	0.0
12-Oct 5:30	4.75	63.8	97.13	6.43	0.0
12-Oct 6:00	7.02	71.7	97.56	6.27	0.0
12-Oct 6:30	5.29	57.1	97.94	6.18	0.0
12-Oct 7:00	6.17	57.5	98.03	5.93	2.4
12-Oct 7:30	5.09	63.8	98.20	5.98	28.6
12-Oct 8:00	5.16	68.0	97.95	6.32	182.2
12-Oct 8:30	4.41	66.5	96.21	7.35	207.4
12-Oct 9:00	4.74	57.4	91.48	8.85	348.4
12-Oct 9:30	3.80	44.7	87.83	10.38	402.0
12-Oct 10:00	3.70	43.3	82.13	12.84	593.5
12-Oct 10:30	0.08	75.7	74.76	15.32	343.9
12-Oct 11:00	3.37	214.6	64.10	18.52	693.5
12-Oct 11:30	0.54	158.6	61.05	19.01	261.3
12-Oct 12:00	5.23	184.5	59.51	19.21	814.7
12-Oct 12:30	8.51	223.8	55.70	20.17	600.0

12-Oct 13:00	10.95	222.9	55.00	20.18	789.4
12-Oct 13:30	3.05	189.4	50.84	20.56	364.1
12-Oct 14:00	7.05	225.8	50.50	20.91	631.3
12-Oct 14:30	6.64	245.1	49.38	21.38	715.7
12-Oct 15:00	6.15	227.2	51.01	20.72	229.5
12-Oct 15:30	8.67	229.9	51.83	21.03	262.6
12-Oct 16:00	5.05	202.0	54.54	20.42	154.6
12-Oct 16:30	6.23	208.5	55.85	20.21	115.0
12-Oct 17:00	5.21	208.7	56.85	20.09	90.8
12-Oct 17:30	5.68	202.5	58.80	19.66	37.9
12-Oct 18:00	3.66	242.4	60.44	19.26	36.1
12-Oct 18:30	5.15	215.5	62.54	18.81	2.6
12-Oct 19:00	1.67	189.2	65.11	18.30	0.0
12-Oct 19:30	2.01	203.3	66.04	18.11	0.0
12-Oct 20:00	3.46	227.1	67.58	17.82	0.0
12-Oct 20:30	2.40	212.0	70.13	17.57	0.0
12-Oct 21:00	4.03	175.6	77.38	16.60	0.0
12-Oct 21:30	1.73	118.1	90.84	14.66	0.0
12-Oct 22:00	1.89	136.0	89.30	15.07	0.0
12-Oct 22:30	2.24	131.2	92.71	14.66	0.0
12-Oct 23:00	1.93	106.6	95.94	13.97	0.0
12-Oct 23:30	3.54	206.7	94.35	14.31	0.0
13-Oct 0:00	7.55	205.1	87.10	15.26	0.0
13-Oct 0:30	2.77	207.9	88.21	15.06	0.0
13-Oct 1:00	4.50	218.7	91.23	14.42	0.0
13-Oct 1:30	1.40	257.8	92.83	14.03	0.0
13-Oct 2:00	1.85	97.2	95.98	13.22	0.0
13-Oct 2:30	1.85	92.1	93.92	13.15	0.0
13-Oct 3:00	1.24	73.9	96.90	12.51	0.0
13-Oct 3:30	2.67	107.3	95.55	12.43	0.0
13-Oct 4:00	1.76	52.9	97.26	12.02	0.0
13-Oct 4:30	1.15	74.2	97.64	11.47	0.0
13-Oct 5:00	1.74	43.1	97.83	11.31	0.0
13-Oct 5:30	1.80	59.3	97.99	11.06	0.0
13-Oct 6:00	2.70	65.3	98.00	10.65	0.0
13-Oct 6:30	0.41	67.0	98.19	10.48	0.0
13-Oct 7:00	2.21	59.6	98.14	10.10	0.3
13-Oct 7:30	1.67	64.6	98.24	10.00	15.3
13-Oct 8:00	3.88	50.5	97.81	10.31	154.1
13-Oct 8:30	3.35	51.6	93.94	11.07	258.7
13-Oct 9:00	1.12	68.3	88.22	12.66	362.7
13-Oct 9:30	1.75	48.7	82.27	14.55	448.6
13-Oct 10:00	0.00	0.0	71.99	17.91	528.1
13-Oct 10:30	6.13	233.9	71.13	18.38	604.5
13-Oct 11:00	9.15	236.1	67.52	19.39	648.6
13-Oct 11:30	8.20	225.6	63.96	20.51	679.4
13-Oct 12:00	12.20	226.7	62.98	20.63	702.6
13-Oct 12:30	4.88	231.3	58.78	21.68	719.1
13-Oct 13:00	10.60	219.0	57.67	21.97	770.8
13-Oct 13:30	12.83	207.3	57.82	21.99	196.6
13-Oct 14:00	9.28	252.3	57.04	22.31	660.0
13-Oct 14:30	8.16	197.9	55.94	22.70	550.6

13-Oct 15:00	7.90	166.5	59.57	21.94	157.9
13-Oct 15:30	10.75	222.2	59.39	21.84	509.2
13-Oct 16:00	7.43	175.5	59.37	21.64	142.8
13-Oct 16:30	6.66	220.6	59.71	21.69	145.2
13-Oct 17:00	8.44	221.1	61.73	21.06	55.7
13-Oct 17:30	3.69	163.6	62.74	20.95	22.4
13-Oct 18:00	3.74	146.0	63.43	20.72	11.8
13-Oct 18:30	1.43	132.3	65.50	20.23	1.5
13-Oct 19:00	2.13	142.8	69.83	19.32	0.0
13-Oct 19:30	2.43	137.6	69.20	19.33	0.0
13-Oct 20:00	0.00	0.0	69.77	19.23	0.0
13-Oct 20:30	3.40	147.3	69.91	19.09	0.0
13-Oct 21:00	4.70	123.4	71.08	18.81	0.0
13-Oct 21:30	5.65	126.0	71.93	18.48	0.0
13-Oct 22:00	4.49	70.3	73.73	17.83	0.0
13-Oct 22:30	7.06	115.8	75.64	16.96	0.0
13-Oct 23:00	3.49	130.8	77.22	16.34	0.0
13-Oct 23:30	5.40	148.0	76.97	16.04	0.0
14-Oct 0:00	9.01	155.1	77.81	15.56	0.0
14-Oct 0:30	4.49	172.7	77.60	15.04	0.0
14-Oct 1:00	3.40	170.6	77.76	14.80	0.0
14-Oct 1:30	3.65	197.0	79.60	14.45	0.0
14-Oct 2:00	2.74	160.4	81.53	14.16	0.0
14-Oct 2:30	1.96	103.3	84.57	13.79	0.0
14-Oct 3:00	3.02	138.1	86.86	13.86	0.0
14-Oct 3:30	8.05	143.0	87.62	13.97	0.0
14-Oct 4:00	1.71	249.0	88.13	13.96	0.0
14-Oct 4:30	7.71	174.4	87.96	14.04	0.0
14-Oct 5:00	7.70	184.4	88.13	14.02	0.0
14-Oct 5:30	2.99	150.6	87.59	14.07	0.0
14-Oct 6:00	4.67	193.4	88.65	13.94	0.0
14-Oct 6:30	2.99	189.4	90.45	13.51	0.0
14-Oct 7:00	7.77	182.0	91.28	13.36	0.1
14-Oct 7:30	12.68	199.7	92.44	13.02	1.3
14-Oct 8:00	6.16	188.8	92.57	12.89	4.5
14-Oct 8:30	8.48	169.0	92.92	12.81	6.4
14-Oct 9:00	10.71	148.8	89.75	13.02	17.7
14-Oct 9:30	4.51	201.2	91.13	12.90	27.2
14-Oct 10:00	11.23	170.5	92.63	12.63	55.0
14-Oct 10:30	9.11	140.3	90.90	12.82	89.8
14-Oct 11:00	5.52	132.0	87.15	13.26	67.6
14-Oct 11:30	7.80	160.8	86.15	13.43	97.8
14-Oct 12:00	8.53	155.1	83.11	14.16	206.3
14-Oct 12:30	5.19	214.7	77.43	15.23	263.6
14-Oct 13:00	9.58	162.7	78.20	15.20	87.5
14-Oct 13:30	12.68	170.6	77.13	15.62	137.9
14-Oct 14:00	9.04	135.1	76.26	16.09	102.5
14-Oct 14:30	13.00	152.6	75.67	16.33	151.4
14-Oct 15:00	5.77	132.9	74.77	16.73	75.7
14-Oct 15:30	11.22	135.2	74.14	17.00	117.9
14-Oct 16:00	6.67	91.5	74.80	16.89	94.7
14-Oct 16:30	2.46	167.2	75.07	16.95	60.0

14-Oct 17:00	4.63	128.4	74.39	17.14	30.2
14-Oct 17:30	2.40	95.8	73.63	17.39	12.6
14-Oct 18:00	14.42	161.6	75.70	17.17	27.5
14-Oct 18:30	17.44	145.1	80.60	16.55	2.8
14-Oct 19:00	6.68	135.1	83.28	16.25	0.0
14-Oct 19:30	7.67	109.0	84.67	16.10	0.0
14-Oct 20:00	7.82	157.0	85.69	16.05	0.0
14-Oct 20:30	13.87	167.4	87.82	15.79	0.0
14-Oct 21:00	11.65	175.4	88.17	15.75	0.0
14-Oct 21:30	5.53	137.7	92.41	15.32	0.0
14-Oct 22:00	9.07	170.0	93.05	15.34	0.0
14-Oct 22:30	10.05	172.3	93.76	15.36	0.0
14-Oct 23:00	5.76	187.3	94.96	15.32	0.0
14-Oct 23:30	10.06	239.8	94.77	15.55	0.0
15-Oct 0:00	4.61	247.9	96.85	15.39	0.0
15-Oct 0:30	5.00	247.3	97.21	14.90	0.0
15-Oct 1:00	4.09	261.8	96.85	13.00	0.0
15-Oct 1:30	4.40	225.6	97.07	12.35	0.0
15-Oct 2:00	5.28	239.8	97.56	12.18	0.0
15-Oct 2:30	4.46	255.5	95.94	12.17	0.0
15-Oct 3:00	5.58	244.5	95.47	12.19	0.0
15-Oct 3:30	4.68	298.9	92.43	12.24	0.0
15-Oct 4:00	11.75	318.1	87.19	12.04	0.0
15-Oct 4:30	8.78	299.7	76.25	10.66	0.0
15-Oct 5:00	3.80	267.1	80.12	9.63	0.0
15-Oct 5:30	1.27	266.0	79.32	9.20	0.0
15-Oct 6:00	1.24	331.4	85.08	8.46	0.0
15-Oct 6:30	0.00	0.0	94.29	7.49	0.0
15-Oct 7:00	1.21	231.5	95.94	6.65	0.2
15-Oct 7:30	6.95	281.0	97.29	7.40	9.1
15-Oct 8:00	0.68	202.5	96.55	7.69	55.5
15-Oct 8:30	0.00	0.0	93.39	8.56	279.3
15-Oct 9:00	3.05	186.8	90.00	9.13	376.5
15-Oct 9:30	4.15	271.9	81.02	10.47	498.8
15-Oct 10:00	15.46	283.7	74.99	10.95	555.5
15-Oct 10:30	9.61	233.2	73.15	11.61	598.0
15-Oct 11:00	11.30	256.0	65.47	13.07	652.8
15-Oct 11:30	16.38	279.1	65.47	12.94	718.4
15-Oct 12:00	15.36	287.6	62.16	12.55	154.5
15-Oct 12:30	7.37	279.2	65.16	12.82	135.7
15-Oct 13:00	16.42	296.1	52.12	13.57	699.2
15-Oct 13:30	15.13	270.1	49.70	14.55	724.7
15-Oct 14:00	9.73	297.2	49.99	14.42	747.3
15-Oct 14:30	8.61	319.7	51.60	14.37	552.8
15-Oct 15:00	11.37	296.2	49.38	14.45	499.8
15-Oct 15:30	6.80	315.2	45.11	15.07	366.5
15-Oct 16:00	11.20	289.1	41.27	15.61	292.6
15-Oct 16:30	10.20	241.0	37.99	15.40	205.3
15-Oct 17:00	9.56	299.8	37.48	15.17	111.3
15-Oct 17:30	9.74	229.8	39.46	14.88	26.1
15-Oct 18:00	6.49	242.7	40.92	14.45	15.7
15-Oct 18:30	2.76	252.6	47.26	13.40	2.8

15-Oct 19:00	1.11	211.7	54.72	12.01	0.0
15-Oct 19:30	0.00	0.0	66.45	10.23	0.0
15-Oct 20:00	1.83	61.4	73.66	8.73	0.0
15-Oct 20:30	2.26	67.7	78.01	7.36	0.0
15-Oct 21:00	3.28	65.4	80.67	6.73	0.0
15-Oct 21:30	3.51	54.0	84.71	6.10	0.0
15-Oct 22:00	2.91	61.1	87.19	5.46	0.0
15-Oct 22:30	4.06	72.7	88.69	4.86	0.0
15-Oct 23:00	5.14	66.6	91.08	4.46	0.0
15-Oct 23:30	7.04	76.5	92.28	3.97	0.0
16-Oct 0:00	6.43	76.8	93.27	3.70	0.0
16-Oct 0:30	6.45	71.6	93.93	3.46	0.0
16-Oct 1:00	7.20	76.5	94.98	3.31	0.0
16-Oct 1:30	6.88	73.4	94.67	3.12	0.0
16-Oct 2:00	7.53	76.6	94.65	2.71	0.0
16-Oct 2:30	6.93	75.0	94.53	2.41	0.0
16-Oct 3:00	7.45	75.7	94.81	2.31	0.0
16-Oct 3:30	7.31	77.7	95.05	2.22	0.0
16-Oct 4:00	7.81	76.6	95.24	1.93	0.0
16-Oct 4:30	5.34	69.0	95.91	1.72	0.0
16-Oct 5:00	6.26	69.2	96.11	1.61	0.0
16-Oct 5:30	7.19	77.6	94.92	1.55	0.0
16-Oct 6:00	7.36	72.0	94.65	1.31	0.0
16-Oct 6:30	6.81	67.5	94.28	1.22	0.0
16-Oct 7:00	7.04	71.4	93.15	1.25	0.4
16-Oct 7:30	5.64	58.8	93.57	1.08	10.4
16-Oct 8:00	2.77	40.2	78.30	4.03	177.7
16-Oct 8:30	4.30	86.5	63.94	9.91	287.4
16-Oct 9:00	5.47	109.7	69.64	10.99	382.8
16-Oct 9:30	10.94	149.7	78.52	11.25	344.1
16-Oct 10:00	10.10	137.1	78.16	11.44	401.0
16-Oct 10:30	7.90	134.4	75.50	11.97	640.2
16-Oct 11:00	9.02	160.2	72.26	12.64	641.4
16-Oct 11:30	6.70	151.8	64.74	13.55	718.2
16-Oct 12:00	7.36	122.7	59.39	14.00	730.6
16-Oct 12:30	16.45	155.4	52.93	14.09	252.6
16-Oct 13:00	17.84	177.3	47.86	14.87	754.0
16-Oct 13:30	8.49	115.6	47.09	15.53	669.8
16-Oct 14:00	10.33	131.1	46.85	15.34	483.4
16-Oct 14:30	7.09	165.8	45.75	15.51	332.6
16-Oct 15:00	6.60	153.1	47.46	15.43	179.8
16-Oct 15:30	10.06	151.5	45.73	15.93	383.3
16-Oct 16:00	8.33	151.5	46.44	15.42	330.6
16-Oct 16:30	10.72	114.2	45.69	16.29	197.6
16-Oct 17:00	10.35	116.4	46.85	16.26	62.1
16-Oct 17:30	10.05	129.6	49.62	15.66	24.3
16-Oct 18:00	9.09	171.5	52.22	15.11	8.0
16-Oct 18:30	15.48	265.7	52.12	15.17	0.0
16-Oct 19:00	9.18	238.9	91.88	7.81	0.0
16-Oct 19:30	5.17	202.0	95.89	7.48	0.0
16-Oct 20:00	9.08	290.6	93.11	6.34	0.0
16-Oct 20:30	5.54	286.1	94.13	5.44	0.0

16-Oct 21:00	3.43	242.2	95.56	5.49	0.0
16-Oct 21:30	2.33	205.3	96.55	5.67	0.0
16-Oct 22:00	2.39	126.2	95.83	5.57	0.0
16-Oct 22:30	1.49	254.6	96.02	5.59	0.0
16-Oct 23:00	2.09	69.2	95.58	5.61	0.0
16-Oct 23:30	2.47	203.9	96.20	5.83	0.0
17-Oct 0:00	3.20	216.4	96.07	5.57	0.0
17-Oct 0:30	2.64	250.7	96.00	5.50	0.0
17-Oct 1:00	0.85	210.2	95.76	5.68	0.0
17-Oct 1:30	6.32	226.4	94.70	5.65	0.0
17-Oct 2:00	8.34	216.9	94.68	5.67	0.0
17-Oct 2:30	5.46	244.9	91.76	5.75	0.0
17-Oct 3:00	5.88	228.2	92.05	5.74	0.0
17-Oct 3:30	5.62	213.2	90.68	5.64	0.0
17-Oct 4:00	8.41	241.4	84.06	5.75	0.0
17-Oct 4:30	8.60	240.3	84.05	5.77	0.0
17-Oct 5:00	10.71	223.8	84.34	5.83	0.0
17-Oct 5:30	16.74	251.0	82.05	5.99	0.0
17-Oct 6:00	8.01	248.7	82.55	6.02	0.0
17-Oct 6:30	7.33	240.6	81.74	6.08	0.0
17-Oct 7:00	8.65	219.3	80.21	6.14	0.0
17-Oct 7:30	9.75	242.1	78.36	6.22	4.2
17-Oct 8:00	20.83	260.1	75.66	6.31	11.6
17-Oct 8:30	13.52	266.1	76.41	6.25	29.7
17-Oct 9:00	14.00	249.6	74.58	6.45	60.6
17-Oct 9:30	10.86	269.6	71.78	6.90	156.8
17-Oct 10:00	15.59	275.3	69.54	7.03	111.7
17-Oct 10:30	13.79	244.1	69.01	7.13	117.0
17-Oct 11:00	13.04	276.2	62.48	7.66	236.6
17-Oct 11:30	21.51	246.2	55.24	7.61	398.1
17-Oct 12:00	20.43	256.5	50.34	8.04	298.1
17-Oct 12:30	14.47	253.4	49.14	8.10	290.8
17-Oct 13:00	14.88	279.9	46.86	8.16	214.3
17-Oct 13:30	21.21	292.4	48.27	8.01	228.8
17-Oct 14:00	13.20	243.9	52.10	7.67	103.9
17-Oct 14:30	11.11	273.3	52.63	7.72	112.6
17-Oct 15:00	15.71	260.6	52.20	7.60	86.2
17-Oct 15:30	13.63	296.0	46.50	7.78	102.8
17-Oct 16:00	12.65	249.6	50.16	7.49	105.1
17-Oct 16:30	17.28	263.5	48.59	7.41	125.8
17-Oct 17:00	10.05	256.2	48.03	7.38	74.2
17-Oct 17:30	16.28	246.9	49.65	6.96	42.3
17-Oct 18:00	20.56	274.6	50.33	6.62	13.7
17-Oct 18:30	13.08	269.7	51.63	6.27	1.6
17-Oct 19:00	12.11	247.2	50.48	6.08	0.0
17-Oct 19:30	22.75	278.2	51.37	5.95	0.0
17-Oct 20:00	18.30	297.3	49.73	5.97	0.0
17-Oct 20:30	23.58	297.9	50.89	5.43	0.0
17-Oct 21:00	18.94	300.8	44.99	5.23	0.0
17-Oct 21:30	16.42	321.1	49.15	4.99	0.0
17-Oct 22:00	24.33	325.3	47.56	4.83	0.0
17-Oct 22:30	14.90	307.0	48.98	4.58	0.0

17-Oct 23:00	11.16	301.1	53.58	4.12	0.0
17-Oct 23:30	3.32	293.8	57.65	3.66	0.0
18-Oct 0:00	6.39	269.6	60.17	3.45	0.0
18-Oct 0:30	10.58	295.8	59.42	3.45	0.0
18-Oct 1:00	8.80	308.9	61.33	2.99	0.0
18-Oct 1:30	7.95	287.5	62.96	2.64	0.0
18-Oct 2:00	7.17	258.1	67.10	2.00	0.0
18-Oct 2:30	7.25	248.7	69.72	1.74	0.0
18-Oct 3:00	6.80	242.3	71.24	1.57	0.0
18-Oct 3:30	6.54	239.8	73.73	1.26	0.0
18-Oct 4:00	6.56	230.1	76.14	0.83	0.0
18-Oct 4:30	6.64	236.5	77.19	0.50	0.0
18-Oct 5:00	5.93	234.3	81.82	-0.05	0.0
18-Oct 5:30	7.06	235.4	82.52	-0.30	0.0
18-Oct 6:00	1.42	203.0	84.99	-0.48	0.0
18-Oct 6:30	4.44	244.1	85.64	-0.67	0.0
18-Oct 7:00	5.38	243.9	84.83	-0.65	0.2
18-Oct 7:30	5.58	250.1	84.55	-0.58	9.3
18-Oct 8:00	5.69	257.1	79.60	0.35	187.0
18-Oct 8:30	7.29	236.0	73.08	1.76	306.6
18-Oct 9:00	4.83	289.7	62.21	3.95	409.6
18-Oct 9:30	4.98	314.6	55.33	4.65	494.2
18-Oct 10:00	16.21	303.7	52.86	4.85	569.4
18-Oct 10:30	22.62	339.2	51.42	4.99	627.0
18-Oct 11:00	10.27	317.5	48.82	6.04	664.6
18-Oct 11:30	12.54	328.8	43.83	6.32	694.0
18-Oct 12:00	8.10	19.9	41.39	7.64	701.8
18-Oct 12:30	12.71	318.2	39.51	7.70	697.3
18-Oct 13:00	11.80	299.3	36.69	8.53	675.9
18-Oct 13:30	12.10	319.9	35.09	8.92	637.4
18-Oct 14:00	13.92	335.1	34.63	9.19	587.7
18-Oct 14:30	7.48	343.9	32.91	9.86	531.4
18-Oct 15:00	4.09	273.2	33.14	10.31	454.5
18-Oct 15:30	1.04	33.7	32.41	11.01	368.8
18-Oct 16:00	10.35	328.3	30.33	11.36	278.0
18-Oct 16:30	4.70	338.6	29.53	11.05	189.5
18-Oct 17:00	0.69	49.1	29.98	11.22	83.2
18-Oct 17:30	1.85	32.7	29.03	11.47	21.8
18-Oct 18:00	4.35	15.7	31.71	10.17	13.8
18-Oct 18:30	0.00	0.0	43.30	8.46	1.4
18-Oct 19:00	0.00	0.0	51.83	6.64	0.0
18-Oct 19:30	2.90	66.2	56.52	4.69	0.0
18-Oct 20:00	3.52	77.5	62.23	3.53	0.0
18-Oct 20:30	4.14	87.0	68.83	2.69	0.0
18-Oct 21:00	5.99	75.9	72.93	1.94	0.0
18-Oct 21:30	4.02	70.5	75.24	1.27	0.0
18-Oct 22:00	4.21	81.9	77.37	0.78	0.0
18-Oct 22:30	4.08	64.2	80.59	0.66	0.0
18-Oct 23:00	3.96	64.7	84.70	0.03	0.0
18-Oct 23:30	6.18	77.3	84.34	-0.13	0.0
19-Oct 0:00	5.35	54.2	87.02	-0.36	0.0
19-Oct 0:30	6.20	73.3	88.60	-0.51	0.0

19-Oct 1:00	4.95	63.8	88.25	-0.64	0.0
19-Oct 1:30	4.50	68.4	91.10	-0.85	0.0
19-Oct 2:00	3.92	65.6	91.47	-1.05	0.0
19-Oct 2:30	6.24	50.8	90.65	-1.27	0.0
19-Oct 3:00	3.84	68.5	91.33	-1.35	0.0
19-Oct 3:30	3.52	61.1	93.64	-1.30	0.0
19-Oct 4:00	3.45	47.9	93.18	-1.39	0.0
19-Oct 4:30	3.53	56.0	92.63	-1.43	0.0
19-Oct 5:00	1.92	71.8	94.82	-1.50	0.0
19-Oct 5:30	3.54	77.5	96.04	-1.40	0.0
19-Oct 6:00	2.92	69.3	96.39	-1.62	0.0
19-Oct 6:30	2.20	56.9	96.97	-1.65	0.0
19-Oct 7:00	2.49	49.1	96.45	-1.68	0.2
19-Oct 7:30	3.06	55.3	97.07	-1.34	18.9
19-Oct 8:00	2.23	43.7	91.71	-0.07	215.7
19-Oct 8:30	0.13	53.1	84.48	1.79	353.8
19-Oct 9:00	3.07	250.0	66.44	5.16	188.9
19-Oct 9:30	3.98	224.7	58.81	6.47	193.4
19-Oct 10:00	9.71	228.1	49.93	8.34	422.0
19-Oct 10:30	6.37	210.8	47.99	9.06	344.0
19-Oct 11:00	7.02	201.8	48.35	9.55	340.0
19-Oct 11:30	9.00	206.0	43.44	10.97	467.6
19-Oct 12:00	15.11	229.1	40.17	11.79	343.8
19-Oct 12:30	9.75	208.4	38.83	12.44	410.1
19-Oct 13:00	6.85	217.4	38.61	12.97	438.6
19-Oct 13:30	14.53	212.5	37.82	13.31	554.8
19-Oct 14:00	9.44	221.7	36.90	14.04	486.7
19-Oct 14:30	11.25	227.6	39.06	14.02	413.5
19-Oct 15:00	9.29	213.9	41.38	14.13	324.4
19-Oct 15:30	6.04	190.2	42.01	14.09	262.8
19-Oct 16:00	10.62	196.0	43.16	13.83	219.8
19-Oct 16:30	7.66	229.8	42.05	14.29	119.5
19-Oct 17:00	13.93	228.2	45.09	13.48	97.1
19-Oct 17:30	8.79	218.1	46.02	13.21	57.0
19-Oct 18:00	4.02	193.7	47.30	12.85	24.4
19-Oct 18:30	2.28	222.4	49.62	12.26	0.8
19-Oct 19:00	0.00	0.0	54.71	11.31	0.0
19-Oct 19:30	1.86	48.4	57.35	10.43	0.0
19-Oct 20:00	1.55	41.8	66.51	9.46	0.0
19-Oct 20:30	0.00	0.0	62.86	9.08	0.0
19-Oct 21:00	2.20	210.6	57.51	10.03	0.0
19-Oct 21:30	1.43	194.0	58.43	9.97	0.0
19-Oct 22:00	0.00	0.0	61.68	9.29	0.0
19-Oct 22:30	0.12	184.5	65.12	8.97	0.0
19-Oct 23:00	0.00	0.0	76.94	7.14	0.0
19-Oct 23:30	2.10	41.6	81.67	6.53	0.0
20-Oct 0:00	1.73	48.8	83.12	6.08	0.0
20-Oct 0:30	2.47	24.5	82.56	6.19	0.0
20-Oct 1:00	2.85	41.6	82.17	6.38	0.0
20-Oct 1:30	2.52	62.1	83.46	6.04	0.0
20-Oct 2:00	2.77	44.1	85.98	5.91	0.0
20-Oct 2:30	2.34	46.4	86.18	5.74	0.0

20-Oct	3:00	2.26	39.6	86.89	5.38	0.0
20-Oct	3:30	3.44	58.9	89.36	5.09	0.0
20-Oct	4:00	3.26	64.1	88.77	4.99	0.0
20-Oct	4:30	3.66	49.9	90.05	4.80	0.0
20-Oct	5:00	3.14	50.0	91.42	4.80	0.0
20-Oct	5:30	3.38	63.4	89.06	5.00	0.0
20-Oct	6:00	4.03	52.9	90.02	5.05	0.0
20-Oct	6:30	1.67	55.5	90.27	5.14	0.0
20-Oct	7:00	1.20	64.4	92.10	4.97	0.0
20-Oct	7:30	2.04	71.9	92.20	5.15	3.7
20-Oct	8:00	3.56	45.0	91.44	5.25	44.8
20-Oct	8:30	1.77	54.1	89.01	5.94	173.3
20-Oct	9:00	0.00	0.0	85.48	6.92	133.4
20-Oct	9:30	3.35	220.7	82.64	7.81	143.2
20-Oct	10:00	2.98	236.9	76.67	8.90	169.5
20-Oct	10:30	5.20	219.8	59.87	12.02	280.3
20-Oct	11:00	5.21	208.6	53.28	13.27	608.4
20-Oct	11:30	5.84	259.7	50.62	13.68	147.9
20-Oct	12:00	6.92	268.6	47.00	14.29	723.2
20-Oct	12:30	10.39	258.7	45.19	15.12	649.6
20-Oct	13:00	8.00	259.4	44.82	15.20	709.4
20-Oct	13:30	5.50	210.1	43.78	16.21	646.5
20-Oct	14:00	11.39	252.2	42.03	16.06	605.9
20-Oct	14:30	13.70	300.3	39.38	16.42	510.8
20-Oct	15:00	10.45	288.3	42.05	16.00	451.9
20-Oct	15:30	6.17	287.2	39.67	16.52	342.5
20-Oct	16:00	7.81	223.8	37.87	16.83	307.3
20-Oct	16:30	11.28	253.7	38.68	16.57	113.0
20-Oct	17:00	7.60	268.5	38.36	16.78	99.2
20-Oct	17:30	11.03	250.5	39.71	16.34	27.2
20-Oct	18:00	4.16	249.6	42.06	15.82	13.9
20-Oct	18:30	0.00	0.0	45.69	14.78	1.0
20-Oct	19:00	2.32	60.1	59.75	11.99	0.0
20-Oct	19:30	1.62	68.7	66.67	10.45	0.0
20-Oct	20:00	2.83	53.5	71.37	9.16	0.0
20-Oct	20:30	4.17	63.3	75.77	8.33	0.0
20-Oct	21:00	4.90	46.3	77.94	7.59	0.0
20-Oct	21:30	4.55	58.6	78.54	7.07	0.0
20-Oct	22:00	2.74	62.9	83.53	6.19	0.0
20-Oct	22:30	4.56	56.2	84.41	5.77	0.0
20-Oct	23:00	4.24	59.3	86.18	5.36	0.0
20-Oct	23:30	5.98	69.5	88.75	4.76	0.0
21-Oct	0:00	4.41	65.0	90.24	4.46	0.0
21-Oct	0:30	6.04	56.7	89.47	4.29	0.0
21-Oct	1:00	6.17	67.7	91.93	3.74	0.0
21-Oct	1:30	7.30	56.1	91.24	3.58	0.0
21-Oct	2:00	7.12	74.8	92.66	3.08	0.0
21-Oct	2:30	6.11	62.0	92.49	3.04	0.0
21-Oct	3:00	5.81	59.9	92.42	2.82	0.0
21-Oct	3:30	6.11	56.8	93.28	2.42	0.0
21-Oct	4:00	5.94	56.7	94.16	2.44	0.0
21-Oct	4:30	6.18	65.0	92.73	2.26	0.0

21-Oct	5:00	7.13	64.4	92.92	2.21	0.0
21-Oct	5:30	6.98	58.6	93.15	2.10	0.0
21-Oct	6:00	5.15	57.7	94.03	1.91	0.0
21-Oct	6:30	6.20	64.5	93.66	1.94	0.0
21-Oct	7:00	6.10	68.0	93.78	1.71	0.1
21-Oct	7:30	6.27	61.0	94.68	1.78	5.8
21-Oct	8:00	5.80	66.1	92.41	1.99	116.0
21-Oct	8:30	5.71	66.1	88.93	2.85	210.9
21-Oct	9:00	5.19	59.7	84.48	4.39	330.3
21-Oct	9:30	3.27	64.9	78.09	6.43	443.3
21-Oct	10:00	1.72	53.3	68.29	9.56	526.3
21-Oct	10:30	1.85	30.7	56.83	13.13	595.0
21-Oct	11:00	4.44	225.6	47.55	17.23	655.8
21-Oct	11:30	8.18	208.7	43.90	18.84	685.2
21-Oct	12:00	7.47	193.1	41.35	19.64	701.3
21-Oct	12:30	4.52	179.3	37.60	20.48	656.6
21-Oct	13:00	12.33	231.8	36.86	20.45	637.5
21-Oct	13:30	8.67	194.9	34.62	20.91	596.4
21-Oct	14:00	11.62	213.2	33.27	21.29	545.1
21-Oct	14:30	18.03	216.1	32.66	21.69	482.3
21-Oct	15:00	13.30	215.0	32.52	21.50	381.6
21-Oct	15:30	11.29	220.9	32.35	21.68	320.3
21-Oct	16:00	8.69	202.3	31.64	21.77	236.5
21-Oct	16:30	14.91	240.8	35.31	21.16	152.5
21-Oct	17:00	9.19	202.0	38.33	20.83	62.4
21-Oct	17:30	10.08	223.2	41.40	20.47	39.0
21-Oct	18:00	1.56	154.2	44.33	19.85	12.9
21-Oct	18:30	9.77	217.6	45.91	19.13	0.5
21-Oct	19:00	9.50	215.0	47.62	18.55	0.0
21-Oct	19:30	5.48	221.4	50.26	17.95	0.0
21-Oct	20:00	6.64	230.9	52.55	17.50	0.0
21-Oct	20:30	3.19	244.1	56.38	16.88	0.0
21-Oct	21:00	2.26	226.8	60.34	16.28	0.0
21-Oct	21:30	0.00	0.0	65.58	15.08	0.0
21-Oct	22:00	0.00	0.0	69.12	14.43	0.0
21-Oct	22:30	0.00	0.0	77.76	12.28	0.0
21-Oct	23:00	0.00	0.0	80.69	11.47	0.0
21-Oct	23:30	0.00	0.0	81.72	11.34	0.0
22-Oct	0:00	1.23	82.0	85.57	10.86	0.0
22-Oct	0:30	0.16	57.4	88.41	9.99	0.0
22-Oct	1:00	0.00	0.0	90.71	9.62	0.0
22-Oct	1:30	0.85	67.7	90.86	9.44	0.0
22-Oct	2:00	1.91	79.4	91.69	9.23	0.0
22-Oct	2:30	1.90	76.9	92.73	9.48	0.0
22-Oct	3:00	2.61	69.9	92.87	9.32	0.0
22-Oct	3:30	3.04	39.4	95.09	9.60	0.0
22-Oct	4:00	2.21	45.8	95.29	8.95	0.0
22-Oct	4:30	2.57	49.3	95.86	8.66	0.0
22-Oct	5:00	3.95	52.2	96.60	9.02	0.0
22-Oct	5:30	4.07	45.2	96.66	8.55	0.0
22-Oct	6:00	3.50	40.9	96.80	8.06	0.0
22-Oct	6:30	2.51	42.1	97.24	8.42	0.0

22-Oct 7:00	2.20	67.8	96.55	9.00	0.0
22-Oct 7:30	2.23	155.9	89.82	10.72	6.5
22-Oct 8:00	3.19	46.7	93.94	8.46	98.2
22-Oct 8:30	3.23	41.1	90.34	9.51	70.3
22-Oct 9:00	0.33	59.9	80.91	10.85	108.7
22-Oct 9:30	2.95	55.0	74.84	12.52	432.2
22-Oct 10:00	2.24	233.4	71.79	12.86	69.4
22-Oct 10:30	3.24	223.4	68.39	13.42	580.8
22-Oct 11:00	0.00	0.0	59.00	15.89	584.3
22-Oct 11:30	1.78	137.6	57.46	16.36	580.2
22-Oct 12:00	1.40	187.9	56.88	16.99	539.5
22-Oct 12:30	3.17	128.8	59.54	16.61	255.3
22-Oct 13:00	6.95	46.0	57.46	15.84	70.9
22-Oct 13:30	3.01	35.9	58.46	15.40	52.1
22-Oct 14:00	3.58	336.1	59.88	15.29	40.4
22-Oct 14:30	4.25	349.0	66.70	14.78	20.4
22-Oct 15:00	5.86	70.8	89.71	11.82	51.6
22-Oct 15:30	3.40	84.7	88.80	11.87	33.8
22-Oct 16:00	5.84	45.1	86.58	11.80	48.7
22-Oct 16:30	3.68	70.5	86.61	11.82	41.6
22-Oct 17:00	3.98	66.5	85.68	11.87	29.4
22-Oct 17:30	4.78	53.8	87.69	11.74	16.4
22-Oct 18:00	5.20	77.3	85.83	11.68	3.1
22-Oct 18:30	3.43	46.3	87.28	11.55	0.1
22-Oct 19:00	2.66	85.8	88.72	11.28	0.0
22-Oct 19:30	1.39	60.7	87.70	11.34	0.0
22-Oct 20:00	1.61	62.4	91.66	10.85	0.0
22-Oct 20:30	3.56	72.8	94.02	10.35	0.0
22-Oct 21:00	2.52	67.5	93.31	10.13	0.0
22-Oct 21:30	3.32	67.2	90.31	10.33	0.0
22-Oct 22:00	4.24	73.6	87.84	10.28	0.0
22-Oct 22:30	2.50	68.8	87.37	10.30	0.0
22-Oct 23:00	4.30	66.7	83.92	10.21	0.0
22-Oct 23:30	4.52	74.2	87.28	9.77	0.0
23-Oct 0:00	3.11	67.1	87.78	9.34	0.0
23-Oct 0:30	3.13	75.2	89.83	9.08	0.0
23-Oct 1:00	2.46	70.4	87.21	9.10	0.0
23-Oct 1:30	2.65	53.1	86.47	9.38	0.0
23-Oct 2:00	2.77	53.9	86.03	9.66	0.0
23-Oct 2:30	4.97	64.8	84.38	9.76	0.0
23-Oct 3:00	5.16	71.6	84.67	9.68	0.0
23-Oct 3:30	3.04	67.8	84.38	9.74	0.0
23-Oct 4:00	3.05	72.6	82.53	9.82	0.0
23-Oct 4:30	2.73	58.5	83.15	9.74	0.0
23-Oct 5:00	3.38	47.8	77.61	9.99	0.0
23-Oct 5:30	1.88	35.6	77.12	9.98	0.0
23-Oct 6:00	1.77	45.8	80.58	9.25	0.0
23-Oct 6:30	2.54	36.8	86.95	8.39	0.0
23-Oct 7:00	2.63	29.1	85.52	8.16	0.0
23-Oct 7:30	4.20	30.9	89.53	7.58	6.1
23-Oct 8:00	3.72	60.2	79.71	8.90	85.9
23-Oct 8:30	2.08	18.8	73.38	10.64	178.9

23-Oct 9:00	12.60	146.2	73.17	12.53	117.6
23-Oct 9:30	16.62	160.5	75.01	12.91	161.7
23-Oct 10:00	1.96	131.1	72.62	13.46	168.6
23-Oct 10:30	8.85	176.1	75.23	13.16	269.9
23-Oct 11:00	2.11	158.4	74.05	13.84	364.7
23-Oct 11:30	1.95	164.5	73.34	14.13	235.9
23-Oct 12:00	5.52	198.3	73.00	14.60	180.0
23-Oct 12:30	5.63	199.5	75.71	15.05	154.6
23-Oct 13:00	8.01	181.2	78.26	14.90	236.2
23-Oct 13:30	7.72	189.3	80.06	15.29	262.4
23-Oct 14:00	5.85	215.3	80.05	15.51	168.9
23-Oct 14:30	9.26	221.4	80.56	15.76	226.5
23-Oct 15:00	5.46	217.3	78.41	16.49	188.6
23-Oct 15:30	3.65	185.0	76.23	17.22	195.0
23-Oct 16:00	7.49	142.0	75.46	17.63	167.8
23-Oct 16:30	7.15	217.0	76.73	17.62	83.6
23-Oct 17:00	6.12	236.3	76.61	17.82	66.7
23-Oct 17:30	0.80	207.7	75.51	18.15	37.7
23-Oct 18:00	5.83	229.1	75.56	18.19	8.7
23-Oct 18:30	5.64	170.2	75.97	18.24	0.1
23-Oct 19:00	8.14	207.6	76.52	18.39	0.0
23-Oct 19:30	8.18	181.6	77.41	18.47	0.0
23-Oct 20:00	5.20	215.5	79.67	18.42	0.0
23-Oct 20:30	6.26	229.2	81.43	18.24	0.0
23-Oct 21:00	1.61	186.1	82.92	18.14	0.0
23-Oct 21:30	9.63	229.3	84.16	18.02	0.0
23-Oct 22:00	7.43	244.0	84.05	17.95	0.0
23-Oct 22:30	11.97	202.6	85.34	17.72	0.0
23-Oct 23:00	6.21	267.9	95.55	16.22	0.0
23-Oct 23:30	3.48	210.4	96.47	15.59	0.0
24-Oct 0:00	2.76	158.2	96.84	15.47	0.0
24-Oct 0:30	4.12	289.3	97.09	15.31	0.0
24-Oct 1:00	3.54	305.2	97.22	15.10	0.0
24-Oct 1:30	3.45	248.7	96.52	14.82	0.0
24-Oct 2:00	3.68	219.4	96.45	14.60	0.0
24-Oct 2:30	1.79	229.1	96.78	14.46	0.0
24-Oct 3:00	0.00	0.0	97.05	14.28	0.0
24-Oct 3:30	2.53	70.9	96.69	14.06	0.0
24-Oct 4:00	0.00	0.0	97.04	13.86	0.0
24-Oct 4:30	3.20	80.6	97.35	13.52	0.0
24-Oct 5:00	1.60	58.7	97.59	13.43	0.0
24-Oct 5:30	0.79	71.4	97.59	13.29	0.0
24-Oct 6:00	0.00	0.0	97.64	12.95	0.0
24-Oct 6:30	0.00	0.0	97.76	12.67	0.0
24-Oct 7:00	1.37	78.4	98.06	12.30	0.0
24-Oct 7:30	1.62	103.5	98.04	11.82	1.5
24-Oct 8:00	2.00	99.0	98.23	11.88	16.8
24-Oct 8:30	1.81	94.0	98.15	12.08	115.7
24-Oct 9:00	1.38	62.3	97.82	12.58	154.3
24-Oct 9:30	1.91	51.1	97.51	12.98	171.5
24-Oct 10:00	0.00	0.0	97.21	14.21	361.5
24-Oct 10:30	0.00	0.0	94.89	15.71	468.0

24-Oct 11:00	5.85	216.0	70.21	18.92	517.4
24-Oct 11:30	2.12	198.5	66.78	19.86	556.3
24-Oct 12:00	6.22	183.7	62.07	20.54	588.5
24-Oct 12:30	8.20	218.1	60.44	21.13	597.7
24-Oct 13:00	2.77	133.3	56.16	22.62	439.4
24-Oct 13:30	9.53	220.7	55.57	22.64	130.6
24-Oct 14:00	6.34	220.8	54.57	23.26	583.9
24-Oct 14:30	3.02	149.7	54.80	23.11	152.5
24-Oct 15:00	6.68	201.3	54.08	23.11	173.7
24-Oct 15:30	8.53	214.9	54.80	22.98	142.9
24-Oct 16:00	6.88	197.6	56.03	23.07	126.4
24-Oct 16:30	4.59	213.9	57.22	22.86	244.0
24-Oct 17:00	9.99	216.6	57.94	22.46	43.1
24-Oct 17:30	5.53	225.5	59.02	22.20	10.0
24-Oct 18:00	11.49	313.1	60.79	21.85	16.0
24-Oct 18:30	3.99	217.8	61.34	21.53	0.5
24-Oct 19:00	6.75	205.8	63.18	21.08	0.0
24-Oct 19:30	4.00	169.5	67.35	20.17	0.0
24-Oct 20:00	2.90	155.3	80.61	17.22	0.0
24-Oct 20:30	6.49	199.3	68.07	19.89	0.0
24-Oct 21:00	3.81	170.3	66.93	20.08	0.0
24-Oct 21:30	5.85	208.0	67.68	19.78	0.0
24-Oct 22:00	2.47	180.2	67.94	19.64	0.0
24-Oct 22:30	4.30	181.3	69.65	19.21	0.0
24-Oct 23:00	1.10	93.3	77.32	17.47	0.0
24-Oct 23:30	2.62	144.0	80.78	16.67	0.0
25-Oct 0:00	1.86	131.4	83.26	16.03	0.0
25-Oct 0:30	3.97	203.2	75.01	18.15	0.0
25-Oct 1:00	2.92	143.9	78.34	16.91	0.0
25-Oct 1:30	1.75	95.6	86.80	15.06	0.0
25-Oct 2:00	0.89	115.3	85.18	15.41	0.0
25-Oct 2:30	4.17	147.4	77.96	17.09	0.0
25-Oct 3:00	5.01	150.9	78.11	17.28	0.0
25-Oct 3:30	1.76	161.8	79.12	17.00	0.0
25-Oct 4:00	7.07	169.9	77.58	17.70	0.0
25-Oct 4:30	2.63	233.2	81.28	17.02	0.0
25-Oct 5:00	6.45	150.9	82.61	16.82	0.0
25-Oct 5:30	5.95	233.8	83.85	16.76	0.0
25-Oct 6:00	5.64	254.2	85.35	16.49	0.0
25-Oct 6:30	3.36	207.9	87.05	16.27	0.0
25-Oct 7:00	6.49	226.0	86.57	16.47	0.0
25-Oct 7:30	10.00	215.6	86.79	16.53	7.0
25-Oct 8:00	3.32	217.0	87.01	16.51	33.4
25-Oct 8:30	5.12	229.9	83.03	17.04	64.7
25-Oct 9:00	6.86	226.9	78.65	17.32	35.1
25-Oct 9:30	11.39	224.1	72.18	17.87	70.1
25-Oct 10:00	19.04	238.5	65.06	16.77	52.1
25-Oct 10:30	17.97	250.1	59.31	17.03	611.8
25-Oct 11:00	12.00	252.5	53.43	16.54	603.2
25-Oct 11:30	21.81	217.5	31.51	17.16	699.5
25-Oct 12:00	15.67	229.6	23.47	17.41	673.2
25-Oct 12:30	16.97	266.4	24.89	17.20	683.9

25-Oct 13:00	19.91	214.0	26.62	16.49	678.5
25-Oct 13:30	14.65	222.5	26.79	16.77	654.0
25-Oct 14:00	23.35	277.7	28.69	16.00	626.9
25-Oct 14:30	15.80	263.8	28.78	16.47	574.1
25-Oct 15:00	22.25	282.1	28.30	16.14	534.6
25-Oct 15:30	15.88	273.2	27.40	15.91	440.0
25-Oct 16:00	19.36	239.1	25.39	15.93	363.7
25-Oct 16:30	19.14	261.8	24.15	15.63	265.1
25-Oct 17:00	17.51	268.5	24.90	15.32	172.6
25-Oct 17:30	16.65	229.7	25.36	14.86	76.0
25-Oct 18:00	17.38	255.6	26.69	14.26	14.3
25-Oct 18:30	11.95	264.5	27.25	13.57	0.5
25-Oct 19:00	9.95	262.4	27.79	13.04	0.0
25-Oct 19:30	5.58	247.3	29.37	12.40	0.0
25-Oct 20:00	14.85	255.8	25.07	12.46	0.0
25-Oct 20:30	10.57	241.3	26.61	11.86	0.0
25-Oct 21:00	12.12	248.9	27.10	11.47	0.0
25-Oct 21:30	4.28	193.4	28.96	10.86	0.0
25-Oct 22:00	6.60	240.5	29.14	10.34	0.0
25-Oct 22:30	11.26	244.6	28.23	10.89	0.0
25-Oct 23:00	6.07	255.4	29.74	10.71	0.0
25-Oct 23:30	5.63	228.4	32.19	10.02	0.0
26-Oct 0:00	3.23	238.5	33.73	9.42	0.0
26-Oct 0:30	4.84	236.4	34.51	9.25	0.0
26-Oct 1:00	14.58	272.6	34.98	9.28	0.0
26-Oct 1:30	9.17	240.6	33.75	9.27	0.0
26-Oct 2:00	12.37	239.6	32.76	9.07	0.0
26-Oct 2:30	13.63	239.4	32.73	8.79	0.0
26-Oct 3:00	9.18	224.8	35.11	8.28	0.0
26-Oct 3:30	7.31	240.4	36.36	7.95	0.0
26-Oct 4:00	4.52	211.7	37.19	7.70	0.0
26-Oct 4:30	12.31	249.2	36.50	7.63	0.0
26-Oct 5:00	10.17	239.7	37.90	7.42	0.0
26-Oct 5:30	4.40	202.9	40.31	7.23	0.0
26-Oct 6:00	8.56	219.4	40.80	7.11	0.0
26-Oct 6:30	8.61	239.3	42.13	6.96	0.0
26-Oct 7:00	15.21	252.6	39.20	6.98	0.0
26-Oct 7:30	6.67	247.9	41.24	6.72	2.5
26-Oct 8:00	10.35	245.8	43.08	6.67	15.6
26-Oct 8:30	11.84	229.6	41.66	6.79	146.0
26-Oct 9:00	17.37	223.2	39.03	6.97	320.9
26-Oct 9:30	16.24	239.9	39.02	6.97	446.6
26-Oct 10:00	12.84	240.7	39.01	7.17	514.6
26-Oct 10:30	16.77	260.5	39.84	6.70	165.9
26-Oct 11:00	24.85	290.8	38.99	6.69	237.7
26-Oct 11:30	18.77	251.3	40.24	6.59	337.7
26-Oct 12:00	17.31	270.3	39.16	7.27	634.8
26-Oct 12:30	16.43	246.6	38.88	7.14	236.8
26-Oct 13:00	15.00	248.5	41.92	6.42	210.7
26-Oct 13:30	16.78	279.0	39.74	7.17	604.0
26-Oct 14:00	16.27	237.8	43.24	6.68	219.0
26-Oct 14:30	22.62	274.5	44.90	6.10	353.9

26-Oct 15:00	13.33	268.2	54.75	5.36	257.5
26-Oct 15:30	18.27	259.8	47.51	6.21	370.2
26-Oct 16:00	14.23	251.4	46.30	6.62	242.7
26-Oct 16:30	8.99	266.1	48.56	6.02	111.1
26-Oct 17:00	15.32	239.3	47.35	5.83	42.2
26-Oct 17:30	19.65	246.5	48.26	5.49	30.7
26-Oct 18:00	13.91	242.8	53.24	4.73	7.0
26-Oct 18:30	14.16	252.7	55.64	4.34	0.1
26-Oct 19:00	10.14	262.9	55.18	4.20	0.0
26-Oct 19:30	11.56	254.8	59.92	3.59	0.0
26-Oct 20:00	6.98	250.8	63.91	3.03	0.0
26-Oct 20:30	9.05	256.3	65.24	2.83	0.0
26-Oct 21:00	12.11	248.9	65.81	2.77	0.0
26-Oct 21:30	10.93	263.8	68.03	2.57	0.0
26-Oct 22:00	14.28	274.2	70.01	2.40	0.0
26-Oct 22:30	8.64	248.3	71.49	2.41	0.0
26-Oct 23:00	11.96	251.9	71.55	2.38	0.0
26-Oct 23:30	7.33	216.4	72.91	2.13	0.0
27-Oct 0:00	15.94	273.8	73.43	1.97	0.0
27-Oct 0:30	11.07	258.8	74.72	1.86	0.0
27-Oct 1:00	11.32	242.4	74.92	2.09	0.0
27-Oct 1:30	8.45	272.2	75.07	2.20	0.0
27-Oct 2:00	8.95	265.3	76.73	2.06	0.0
27-Oct 2:30	8.66	251.8	77.94	1.98	0.0
27-Oct 3:00	9.82	242.1	78.61	1.98	0.0
27-Oct 3:30	12.75	242.9	79.09	1.87	0.0
27-Oct 4:00	8.99	256.2	80.54	1.76	0.0
27-Oct 4:30	8.41	270.3	81.96	1.58	0.0
27-Oct 5:00	12.56	253.9	81.61	1.62	0.0
27-Oct 5:30	9.38	249.3	81.02	1.89	0.0
27-Oct 6:00	14.57	288.6	80.88	1.92	0.0
27-Oct 6:30	8.09	268.0	80.66	1.98	0.0
27-Oct 7:00	9.35	265.6	80.76	1.97	0.0
27-Oct 7:30	7.62	290.6	86.17	1.64	1.0
27-Oct 8:00	12.62	275.7	85.28	1.71	16.1
27-Oct 8:30	4.37	270.1	83.87	2.00	45.9
27-Oct 9:00	7.79	269.9	79.91	2.50	67.5
27-Oct 9:30	8.03	263.0	79.80	2.60	200.9
27-Oct 10:00	10.05	293.3	74.10	3.30	240.3
27-Oct 10:30	9.64	319.9	80.98	3.07	117.1
27-Oct 11:00	7.24	308.6	91.55	1.74	214.2
27-Oct 11:30	17.20	315.1	68.61	3.82	668.4
27-Oct 12:00	12.82	333.9	58.97	4.21	204.8
27-Oct 12:30	6.27	308.7	52.22	5.35	420.3
27-Oct 13:00	15.04	335.7	53.85	4.43	113.8
27-Oct 13:30	12.57	347.5	49.23	5.24	388.9
27-Oct 14:00	14.86	323.1	50.72	4.66	222.3
27-Oct 14:30	10.21	310.0	52.45	4.67	54.8
27-Oct 15:00	6.85	7.6	50.87	4.85	112.0
27-Oct 15:30	11.37	319.0	49.36	5.29	169.6
27-Oct 16:00	14.58	338.4	44.04	5.74	97.8
27-Oct 16:30	6.93	38.6	54.04	4.66	48.6

27-Oct 17:00	13.82	327.3	58.56	4.22	32.9
27-Oct 17:30	11.23	322.2	56.12	4.58	31.1
27-Oct 18:00	5.76	324.7	58.04	3.93	6.5
27-Oct 18:30	10.08	2.6	49.52	3.86	0.1
27-Oct 19:00	7.70	340.7	55.43	3.59	0.0
27-Oct 19:30	14.59	326.5	56.81	3.27	0.0
27-Oct 20:00	11.53	323.8	59.49	3.00	0.0
27-Oct 20:30	2.96	3.7	61.74	2.86	0.0
27-Oct 21:00	7.85	15.5	63.98	2.66	0.0
27-Oct 21:30	13.94	330.7	67.32	2.37	0.0
27-Oct 22:00	6.55	342.3	70.94	1.92	0.0
27-Oct 22:30	9.77	338.9	68.83	2.04	0.0
27-Oct 23:00	3.84	310.2	69.48	2.09	0.0
27-Oct 23:30	5.46	345.0	73.19	1.83	0.0
28-Oct 0:00	2.57	340.2	76.65	1.60	0.0
28-Oct 0:30	7.05	345.2	79.56	1.35	0.0
28-Oct 1:00	3.83	2.3	86.80	0.90	0.0
28-Oct 1:30	5.47	16.3	83.91	0.81	0.0
28-Oct 2:00	2.69	7.8	88.30	0.15	0.0
28-Oct 2:30	2.90	334.8	87.62	0.11	0.0
28-Oct 3:00	3.68	2.8	85.06	0.61	0.0
28-Oct 3:30	8.29	4.2	83.62	0.80	0.0
28-Oct 4:00	2.68	315.6	83.90	0.80	0.0
28-Oct 4:30	10.01	19.7	82.90	0.75	0.0
28-Oct 5:00	4.85	356.1	83.92	0.75	0.0
28-Oct 5:30	9.55	332.0	84.29	0.70	0.0
28-Oct 6:00	8.55	34.1	84.37	0.60	0.0
28-Oct 6:30	7.53	12.3	83.95	0.58	0.0
28-Oct 7:00	6.68	30.2	85.77	0.14	0.0
28-Oct 7:30	6.74	23.2	87.37	-0.17	2.9
28-Oct 8:00	1.64	352.0	85.67	0.04	144.0
28-Oct 8:30	4.31	358.4	78.82	1.10	185.9
28-Oct 9:00	5.56	351.5	75.03	1.87	393.7
28-Oct 9:30	14.89	36.5	63.38	2.75	529.1
28-Oct 10:00	13.56	348.5	68.05	2.34	273.2
28-Oct 10:30	18.42	355.1	68.52	2.38	200.4
28-Oct 11:00	6.80	337.2	66.05	2.60	141.8
28-Oct 11:30	9.92	31.5	68.73	2.36	144.1
28-Oct 12:00	6.26	13.7	62.96	3.07	217.0
28-Oct 12:30	8.49	11.9	60.30	3.23	218.5
28-Oct 13:00	8.49	14.9	59.38	3.52	210.9
28-Oct 13:30	10.79	18.6	54.85	3.77	299.2
28-Oct 14:00	10.34	343.5	52.42	4.21	294.3
28-Oct 14:30	13.82	324.3	51.31	4.36	205.7
28-Oct 15:00	11.66	56.5	50.05	4.92	172.8
28-Oct 15:30	11.23	20.0	46.74	5.27	301.0
28-Oct 16:00	7.20	48.0	48.93	5.07	213.1
28-Oct 16:30	5.86	24.6	48.23	5.19	120.2
28-Oct 17:00	5.94	344.0	49.26	4.99	31.0
28-Oct 17:30	4.80	53.2	51.57	4.62	19.2
28-Oct 18:00	4.77	44.1	53.89	3.92	7.7
28-Oct 18:30	2.43	46.8	56.75	3.24	0.2

28-Oct 19:00	3.26	72.6	62.48	2.67	0.0
28-Oct 19:30	2.72	62.1	69.38	1.47	0.0
28-Oct 20:00	4.14	95.8	72.96	0.23	0.0
28-Oct 20:30	3.73	70.8	77.52	-0.56	0.0
28-Oct 21:00	3.59	87.3	78.59	-0.86	0.0
28-Oct 21:30	3.47	91.4	80.41	-1.29	0.0
28-Oct 22:00	3.01	74.7	83.57	-1.57	0.0
28-Oct 22:30	3.87	96.9	83.03	-1.72	0.0
28-Oct 23:00	3.52	73.9	84.56	-1.85	0.0
28-Oct 23:30	5.75	76.1	86.45	-2.08	0.0
29-Oct 0:00	5.10	70.5	86.08	-2.18	0.0
29-Oct 0:30	3.82	71.6	88.34	-2.45	0.0
29-Oct 1:00	2.07	105.1	87.87	-2.88	0.0
29-Oct 1:30	0.00	0.0	91.03	-3.22	0.0
29-Oct 2:00	2.97	41.4	93.61	-3.47	0.0
29-Oct 2:30	3.69	51.1	93.86	-3.68	0.0
29-Oct 3:00	3.23	65.5	94.28	-4.00	0.0
29-Oct 3:30	3.76	82.2	94.19	-4.33	0.0
29-Oct 4:00	3.38	64.8	95.43	-4.26	0.0
29-Oct 4:30	4.46	51.2	95.30	-4.74	0.0
29-Oct 5:00	3.77	76.7	94.93	-4.93	0.0
29-Oct 5:30	4.28	83.8	94.78	-4.81	0.0
29-Oct 6:00	3.82	49.8	95.95	-4.97	0.0
29-Oct 6:30	2.47	63.0	96.45	-5.11	0.0
29-Oct 7:00	2.38	71.6	96.01	-5.30	0.0
29-Oct 7:30	3.14	68.1	95.55	-5.49	3.1
29-Oct 8:00	3.12	66.7	94.25	-5.17	131.3
29-Oct 8:30	2.05	57.2	87.18	-3.87	250.2
29-Oct 9:00	1.52	76.3	82.91	-2.54	347.2
29-Oct 9:30	0.00	0.0	65.02	1.36	444.0
29-Oct 10:00	2.80	225.4	72.63	0.55	512.1
29-Oct 10:30	3.80	186.9	65.66	2.51	565.6
29-Oct 11:00	4.07	215.8	60.32	4.24	603.1
29-Oct 11:30	5.68	213.7	54.16	5.92	618.6
29-Oct 12:00	5.29	249.9	48.14	7.40	619.0
29-Oct 12:30	8.27	237.6	43.74	8.23	607.0
29-Oct 13:00	9.58	263.0	40.38	8.97	588.3
29-Oct 13:30	6.05	219.2	39.58	9.74	548.7
29-Oct 14:00	3.62	192.3	38.55	10.17	499.2
29-Oct 14:30	6.81	193.0	34.19	11.19	436.6
29-Oct 15:00	6.68	296.7	32.67	11.38	363.6
29-Oct 15:30	5.80	256.2	32.72	11.71	280.5
29-Oct 16:00	6.58	230.8	33.28	11.96	194.3
29-Oct 16:30	7.90	253.3	32.96	11.76	111.2
29-Oct 17:00	9.21	217.4	34.05	11.51	39.9
29-Oct 17:30	6.04	240.0	35.81	10.97	27.6
29-Oct 18:00	4.74	253.7	37.55	10.48	3.4
29-Oct 18:30	5.54	233.7	38.26	10.24	0.0
29-Oct 19:00	5.36	227.0	39.56	9.98	0.0
29-Oct 19:30	3.85	236.3	41.35	9.74	0.0
29-Oct 20:00	2.46	246.1	42.70	9.40	0.0
29-Oct 20:30	0.00	0.0	44.82	9.21	0.0

29-Oct 21:00	0.00	0.0	48.94	8.61	0.0
29-Oct 21:30	0.00	0.0	61.66	6.99	0.0
29-Oct 22:00	0.00	0.0	58.77	7.31	0.0
29-Oct 22:30	0.00	0.0	66.59	5.69	0.0
29-Oct 23:00	0.07	65.3	70.17	4.97	0.0
29-Oct 23:30	0.00	0.0	67.36	4.88	0.0
30-Oct 0:00	0.00	0.0	57.70	6.57	0.0
30-Oct 0:30	1.23	231.2	56.75	6.51	0.0
30-Oct 1:00	0.00	0.0	71.65	4.74	0.0
30-Oct 1:30	0.00	0.0	76.27	4.22	0.0
30-Oct 2:00	1.05	79.7	77.44	3.80	0.0
30-Oct 2:30	0.98	58.6	79.71	3.10	0.0
30-Oct 3:00	2.30	65.7	81.15	2.61	0.0
30-Oct 3:30	0.75	61.5	82.98	2.18	0.0
30-Oct 4:00	3.25	47.0	82.99	1.85	0.0
30-Oct 4:30	2.53	33.4	83.26	1.67	0.0
30-Oct 5:00	3.15	36.0	78.87	2.60	0.0
30-Oct 5:30	0.07	79.0	76.38	3.73	0.0
30-Oct 6:00	3.92	29.2	78.53	4.42	0.0
30-Oct 6:30	0.00	0.0	75.92	5.11	0.0
30-Oct 7:00	2.81	42.1	76.45	5.99	0.0
30-Oct 7:30	2.34	340.8	78.15	6.50	3.6
30-Oct 8:00	3.52	9.8	79.04	6.41	52.2
30-Oct 8:30	4.12	35.0	79.10	6.95	65.2
30-Oct 9:00	10.10	36.0	74.28	8.02	254.2
30-Oct 9:30	5.89	59.0	77.22	7.82	104.2
30-Oct 10:00	11.21	44.7	71.24	8.25	171.2
30-Oct 10:30	14.55	54.1	62.58	8.57	667.3
30-Oct 11:00	2.98	37.1	59.45	8.87	584.2
30-Oct 11:30	5.90	44.6	57.39	9.52	305.0
30-Oct 12:00	5.17	57.3	54.69	9.73	647.3
30-Oct 12:30	8.11	25.8	47.15	10.07	632.8
30-Oct 13:00	8.70	44.7	41.76	9.89	612.0
30-Oct 13:30	8.03	53.1	40.15	10.19	556.4
30-Oct 14:00	10.47	51.4	33.78	10.64	517.6
30-Oct 14:30	3.48	12.0	29.11	11.28	452.5
30-Oct 15:00	6.23	49.9	29.01	11.22	377.2
30-Oct 15:30	14.09	47.6	24.58	10.60	292.8
30-Oct 16:00	10.92	24.5	25.91	10.58	206.2
30-Oct 16:30	8.51	49.6	23.08	10.71	110.2
30-Oct 17:00	7.20	67.8	22.93	10.29	26.7
30-Oct 17:30	6.37	39.0	21.51	9.91	18.9
30-Oct 18:00	3.43	3.6	25.52	8.96	5.7
30-Oct 18:30	4.34	338.6	28.76	7.86	0.0
30-Oct 19:00	4.28	353.1	28.86	6.95	0.0
30-Oct 19:30	0.00	0.0	38.19	5.50	0.0
30-Oct 20:00	1.62	90.1	53.41	3.63	0.0
30-Oct 20:30	2.51	59.5	55.62	2.73	0.0
30-Oct 21:00	2.13	66.0	57.45	2.55	0.0
30-Oct 21:30	0.62	22.2	42.51	3.41	0.0
30-Oct 22:00	1.55	357.5	37.24	4.27	0.0
30-Oct 22:30	0.67	344.6	32.30	4.97	0.0

30-Oct 23:00	0.14	224.5	47.21	4.63	0.0
30-Oct 23:30	2.72	10.6	44.00	4.13	0.0
31-Oct 0:00	3.85	89.7	49.16	3.22	0.0
31-Oct 0:30	1.43	106.3	46.78	2.84	0.0
31-Oct 1:00	1.41	60.8	53.25	2.14	0.0
31-Oct 1:30	2.85	69.6	49.40	2.25	0.0
31-Oct 2:00	5.86	81.0	42.86	2.71	0.0
31-Oct 2:30	2.88	68.3	47.90	2.31	0.0
31-Oct 3:00	2.34	64.2	46.09	2.29	0.0
31-Oct 3:30	6.02	79.8	48.50	1.69	0.0
31-Oct 4:00	3.20	75.3	54.53	1.27	0.0
31-Oct 4:30	2.25	68.7	51.56	1.74	0.0
31-Oct 5:00	0.00	0.0	52.96	1.38	0.0
31-Oct 5:30	0.00	0.0	52.40	1.67	0.0
31-Oct 6:00	1.07	357.5	54.46	1.85	0.0
31-Oct 6:30	1.14	23.4	50.28	2.13	0.0
31-Oct 7:00	3.84	90.7	42.08	2.60	0.0
31-Oct 7:30	2.37	34.5	42.20	2.56	1.4
31-Oct 8:00	1.78	202.4	45.12	3.46	15.6
31-Oct 8:30	0.00	0.0	49.33	3.04	18.1
31-Oct 9:00	2.86	238.0	49.91	3.14	20.1
31-Oct 9:30	2.97	244.3	44.79	3.92	28.2
31-Oct 10:00	6.22	237.9	47.26	4.83	42.2
31-Oct 10:30	1.30	152.8	49.16	5.27	51.0
31-Oct 11:00	5.57	206.6	55.26	5.38	47.4
31-Oct 11:30	4.46	207.0	54.53	5.34	43.4
31-Oct 12:00	6.87	218.5	55.93	5.46	59.0
31-Oct 12:30	3.82	216.4	57.10	5.73	107.1
31-Oct 13:00	5.90	234.3	57.15	6.23	140.2
31-Oct 13:30	6.21	231.6	58.50	6.70	99.5
31-Oct 14:00	4.23	236.1	59.27	7.23	95.1
31-Oct 14:30	8.32	219.5	61.92	7.19	39.6
31-Oct 15:00	0.49	311.0	62.43	7.13	71.4
31-Oct 15:30	3.82	245.1	62.66	7.12	32.3
31-Oct 16:00	1.65	240.2	62.79	7.20	63.9
31-Oct 16:30	5.04	235.2	63.87	7.20	36.4
31-Oct 17:00	4.73	217.7	64.13	7.19	25.4
31-Oct 17:30	1.73	272.4	64.29	7.29	12.7
31-Oct 18:00	1.30	163.8	65.31	7.31	2.3
31-Oct 18:30	3.16	251.0	66.31	7.43	0.0
31-Oct 19:00	2.54	241.0	67.13	7.27	0.0
31-Oct 19:30	5.16	218.9	68.07	7.22	0.0
31-Oct 20:00	2.37	233.5	69.13	6.84	0.0
31-Oct 20:30	1.76	218.7	70.94	6.67	0.0
31-Oct 21:00	3.24	203.1	69.32	7.22	0.0
31-Oct 21:30	4.25	233.7	68.32	7.95	0.0
31-Oct 22:00	6.69	227.1	69.95	7.80	0.0
31-Oct 22:30	4.17	231.7	71.80	7.43	0.0
31-Oct 23:00	2.66	238.0	72.33	7.56	0.0
31-Oct 23:30	1.87	260.1	75.64	6.78	0.0
1-Nov 0:00	0.00	0.0	77.61	6.58	0.0
1-Nov 0:30	1.57	109.2	87.09	4.81	0.0

1-Nov	1:00	1.87	87.0	87.87	4.37	0.0
1-Nov	1:30	1.10	51.8	90.83	3.93	0.0
1-Nov	2:00	1.59	75.3	91.61	3.55	0.0
1-Nov	2:30	0.00	0.0	93.57	3.24	0.0
1-Nov	3:00	1.49	13.2	91.51	3.59	0.0
1-Nov	3:30	1.34	176.5	95.19	3.60	0.0
1-Nov	4:00	0.00	0.0	92.29	3.49	0.0
1-Nov	4:30	0.00	0.0	95.35	3.03	0.0
1-Nov	5:00	1.83	224.4	90.02	6.24	0.0
1-Nov	5:30	0.50	284.2	94.90	4.99	0.0
1-Nov	6:00	0.00	0.0	94.62	5.81	0.0
1-Nov	6:30	1.93	112.9	92.28	3.53	0.0
1-Nov	7:00	0.00	0.0	96.48	2.58	0.0
1-Nov	7:30	1.22	97.6	97.36	2.35	3.1
1-Nov	8:00	1.62	66.3	97.86	2.18	26.4
1-Nov	8:30	1.49	62.9	97.24	2.67	186.1
1-Nov	9:00	1.97	40.8	91.42	4.32	289.5
1-Nov	9:30	0.00	0.0	80.74	7.31	368.2
1-Nov	10:00	3.47	249.7	79.53	8.87	468.3
1-Nov	10:30	6.70	228.6	74.80	10.60	523.3
1-Nov	11:00	5.40	247.2	69.36	11.83	552.6
1-Nov	11:30	5.75	229.8	61.79	13.42	588.8
1-Nov	12:00	7.15	220.1	56.00	14.67	584.9
1-Nov	12:30	1.32	152.6	51.84	15.87	579.4
1-Nov	13:00	5.79	237.9	46.51	16.83	583.6
1-Nov	13:30	6.66	213.5	43.35	17.37	523.6
1-Nov	14:00	6.41	179.2	43.01	17.68	229.2
1-Nov	14:30	8.72	225.5	39.84	18.15	347.4
1-Nov	15:00	7.28	212.1	41.39	17.80	282.4
1-Nov	15:30	8.22	232.0	45.29	17.03	133.7
1-Nov	16:00	5.40	208.9	46.26	16.48	114.8
1-Nov	16:30	3.68	208.8	48.70	16.08	73.5
1-Nov	17:00	4.79	217.3	52.76	15.50	51.9
1-Nov	17:30	2.46	224.8	55.45	14.93	24.5
1-Nov	18:00	2.47	265.1	57.18	14.37	3.4
1-Nov	18:30	3.89	192.4	56.79	13.93	0.0
1-Nov	19:00	5.50	184.7	56.66	13.64	0.0
1-Nov	19:30	2.90	156.6	64.18	12.58	0.0
1-Nov	20:00	1.58	113.5	67.17	11.84	0.0
1-Nov	20:30	1.15	106.8	68.82	11.39	0.0
1-Nov	21:00	1.93	155.5	69.29	11.78	0.0
1-Nov	21:30	5.27	235.7	69.31	12.95	0.0
1-Nov	22:00	2.11	241.7	70.85	12.65	0.0
1-Nov	22:30	3.04	236.6	72.91	12.62	0.0
1-Nov	23:00	3.32	253.2	76.83	12.60	0.0
1-Nov	23:30	0.00	0.0	79.69	11.86	0.0
2-Nov	0:00	0.00	0.0	79.53	11.37	0.0
2-Nov	0:30	0.00	0.0	83.58	10.48	0.0
2-Nov	1:00	0.00	0.0	87.54	9.62	0.0
2-Nov	1:30	0.00	0.0	87.73	9.95	0.0
2-Nov	2:00	0.00	0.0	85.94	9.89	0.0
2-Nov	2:30	0.00	0.0	85.36	11.11	0.0

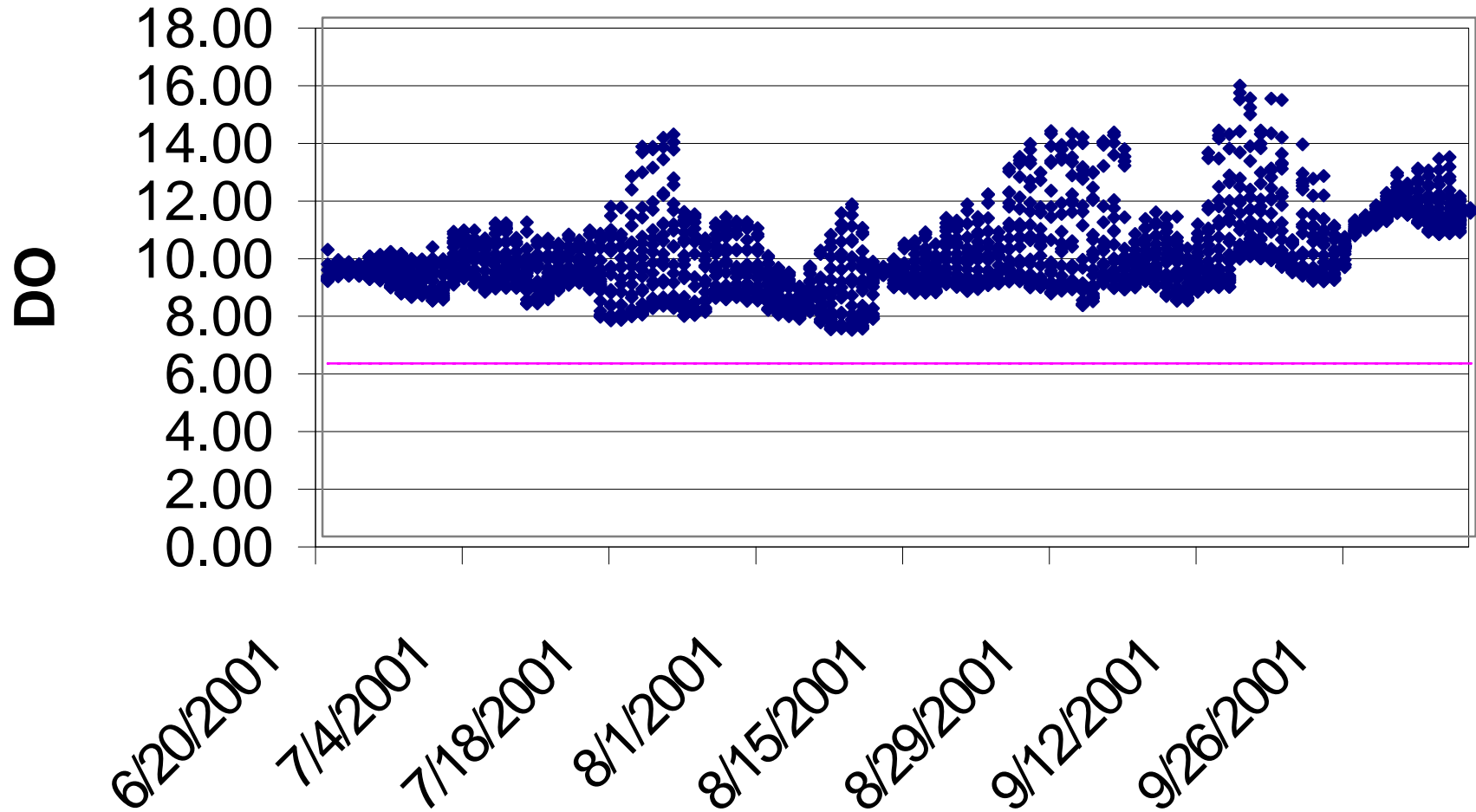
2-Nov	3:00	2.62	204.8	82.40	12.41	0.0
2-Nov	3:30	2.28	201.4	86.44	11.28	0.0
2-Nov	4:00	1.46	139.3	90.85	10.07	0.0
2-Nov	4:30	0.00	0.0	94.22	9.27	0.0
2-Nov	5:00	1.65	87.3	94.67	8.46	0.0
2-Nov	5:30	0.69	104.7	96.14	7.81	0.0
2-Nov	6:00	1.17	89.0	97.20	8.45	0.0
2-Nov	6:30	0.00	0.0	94.18	8.19	0.0
2-Nov	7:00	1.51	80.3	95.03	7.89	0.0
2-Nov	7:30	1.28	48.3	96.02	6.93	0.8
2-Nov	8:00	0.00	0.0	96.19	7.40	18.6
2-Nov	8:30	3.59	188.4	97.02	10.05	64.2
2-Nov	9:00	1.05	185.1	88.39	10.61	121.7
2-Nov	9:30	5.07	227.9	82.85	12.63	197.0
2-Nov	10:00	6.77	230.2	79.19	13.39	201.4
2-Nov	10:30	5.62	228.1	74.40	14.41	395.6
2-Nov	11:00	3.33	199.5	68.82	15.65	315.7
2-Nov	11:30	6.13	226.3	63.99	16.63	218.3
2-Nov	12:00	1.48	206.1	60.64	17.41	248.7
2-Nov	12:30	2.32	181.2	52.23	19.10	604.7
2-Nov	13:00	7.56	234.7	53.46	18.82	322.5
2-Nov	13:30	6.88	211.1	51.27	19.62	589.7
2-Nov	14:00	5.04	227.3	52.90	19.36	206.6
2-Nov	14:30	10.83	199.0	53.13	19.39	209.9
2-Nov	15:00	12.22	239.7	52.17	19.68	232.9
2-Nov	15:30	9.02	219.4	52.54	19.83	143.0
2-Nov	16:00	3.82	158.2	53.51	19.58	78.6
2-Nov	16:30	6.58	230.5	54.19	19.46	71.3
2-Nov	17:00	5.06	251.8	54.81	19.44	39.3
2-Nov	17:30	8.43	213.3	54.00	19.61	23.6
2-Nov	18:00	3.58	248.5	55.75	19.14	3.3
2-Nov	18:30	5.47	245.3	56.59	18.93	0.0
2-Nov	19:00	6.50	222.6	57.95	18.59	0.0
2-Nov	19:30	3.56	229.5	59.89	18.04	0.0
2-Nov	20:00	5.27	220.4	61.73	17.49	0.0
2-Nov	20:30	5.49	222.9	61.45	17.61	0.0
2-Nov	21:00	10.00	221.0	65.34	17.44	0.0
2-Nov	21:30	3.97	226.7	68.63	17.42	0.0
2-Nov	22:00	4.42	227.7	70.62	17.23	0.0
2-Nov	22:30	5.19	244.6	70.58	17.41	0.0
2-Nov	23:00	5.78	238.7	71.76	17.39	0.0
2-Nov	23:30	3.98	229.5	74.14	16.88	0.0
3-Nov	0:00	6.38	235.2	74.41	16.95	0.0
3-Nov	0:30	3.96	229.8	75.59	16.85	0.0
3-Nov	1:00	2.32	220.4	79.31	16.41	0.0
3-Nov	1:30	5.96	250.2	77.58	16.51	0.0
3-Nov	2:00	3.18	241.8	82.88	15.69	0.0
3-Nov	2:30	3.37	247.6	89.05	14.69	0.0
3-Nov	3:00	2.60	229.2	93.76	14.07	0.0
3-Nov	3:30	2.37	226.7	92.58	14.09	0.0
3-Nov	4:00	2.21	234.6	94.27	13.84	0.0
3-Nov	4:30	0.72	238.7	94.94	13.58	0.0

3-Nov	5:00	1.54	289.5	95.63	13.32	0.0
3-Nov	5:30	0.00	0.0	96.20	13.08	0.0
3-Nov	6:00	2.43	235.9	96.67	13.12	0.0
3-Nov	6:30	2.90	234.6	97.27	12.83	0.0
3-Nov	7:00	0.75	223.7	97.52	12.74	0.0
3-Nov	7:30	3.73	253.0	97.71	13.04	0.1
3-Nov	8:00	4.61	235.2	97.72	12.87	6.9
3-Nov	8:30	2.93	245.5	97.80	12.94	11.5
3-Nov	9:00	3.31	240.9	97.64	13.02	64.8
3-Nov	9:30	9.12	15.6	80.39	13.04	46.6
3-Nov	10:00	6.94	34.8	45.65	13.74	464.9
3-Nov	10:30	1.97	84.7	52.50	13.42	126.4
3-Nov	11:00	7.44	326.1	45.80	15.15	579.2
3-Nov	11:30	10.23	337.0	41.73	15.25	610.7
3-Nov	12:00	13.23	330.3	40.62	15.38	619.1
3-Nov	12:30	14.77	314.2	27.86	15.84	619.2
3-Nov	13:00	8.86	323.8	26.05	16.45	595.6
3-Nov	13:30	12.38	329.6	23.89	15.98	556.8
3-Nov	14:00	6.44	308.1	24.01	16.91	503.1
3-Nov	14:30	13.27	330.9	25.28	16.16	434.6
3-Nov	15:00	10.19	300.7	25.98	16.70	357.3
3-Nov	15:30	7.96	290.8	28.54	16.35	269.9
3-Nov	16:00	8.04	284.6	30.16	16.27	187.0
3-Nov	16:30	11.60	279.7	29.32	16.41	90.0
3-Nov	17:00	6.50	268.9	29.95	16.37	25.7
3-Nov	17:30	0.92	310.7	32.11	15.76	17.3
3-Nov	18:00	3.87	27.4	36.73	14.06	4.7
3-Nov	18:30	1.85	19.1	38.57	13.12	0.0
3-Nov	19:00	1.93	0.8	41.24	12.35	0.0
3-Nov	19:30	4.41	37.0	48.40	11.16	0.0
3-Nov	20:00	7.64	32.9	51.01	10.88	0.0
3-Nov	20:30	6.90	49.2	58.22	10.41	0.0
3-Nov	21:00	1.45	107.6	62.20	9.65	0.0
3-Nov	21:30	0.78	124.2	62.02	9.27	0.0
3-Nov	22:00	4.89	341.9	63.80	8.79	0.0
3-Nov	22:30	1.94	355.7	65.91	8.46	0.0
3-Nov	23:00	1.70	7.0	67.97	8.02	0.0
3-Nov	23:30	1.81	319.9	68.77	7.76	0.0
4-Nov	0:00	2.75	267.3	71.64	7.10	0.0
4-Nov	0:30	1.02	276.9	71.76	7.24	0.0
4-Nov	1:00	0.00	0.0	81.44	5.64	0.0
4-Nov	1:30	0.00	0.0	82.84	5.47	0.0
4-Nov	2:00	0.00	0.0	83.54	5.32	0.0
4-Nov	2:30	5.21	319.2	73.32	6.88	0.0
4-Nov	3:00	4.53	306.9	68.96	7.30	0.0
4-Nov	3:30	5.54	323.2	68.24	7.18	0.0
4-Nov	4:00	3.23	337.1	73.33	6.42	0.0
4-Nov	4:30	3.01	312.5	76.51	5.81	0.0
4-Nov	5:00	3.12	245.1	80.50	4.73	0.0
4-Nov	5:30	6.00	229.3	79.08	4.95	0.0
4-Nov	6:00	4.11	218.1	78.65	4.86	0.0
4-Nov	6:30	5.06	236.4	82.02	4.55	0.0

4-Nov 7:00	5.32	232.8	83.20	4.33	0.0
4-Nov 7:30	1.18	228.9	81.82	4.44	0.9
4-Nov 8:00	3.30	235.0	82.01	4.17	21.9
4-Nov 8:30	3.06	239.0	82.48	4.40	220.6
4-Nov 9:00	5.66	234.1	76.74	5.32	328.7
4-Nov 9:30	7.33	227.9	72.52	6.40	420.5
4-Nov 10:00	1.51	186.8	68.04	7.79	492.9
4-Nov 10:30	7.41	235.2	63.79	9.09	543.0
4-Nov 11:00	8.49	231.3	62.50	9.49	580.5
4-Nov 11:30	9.60	255.4	56.84	10.22	611.6
4-Nov 12:00	6.23	212.0	53.23	11.08	610.7
4-Nov 12:30	5.23	240.2	48.17	12.05	600.8
4-Nov 13:00	14.26	285.8	43.65	11.96	574.6
4-Nov 13:30	12.74	281.5	38.63	12.86	528.0
4-Nov 14:00	11.64	257.1	37.91	13.16	474.7
4-Nov 14:30	11.89	275.1	37.48	13.40	425.8
4-Nov 15:00	8.73	290.8	37.04	14.08	372.0
4-Nov 15:30	14.83	258.5	40.13	13.46	151.4
4-Nov 16:00	14.31	275.1	39.30	14.16	215.0
4-Nov 16:30	9.86	262.4	39.38	14.22	97.6
4-Nov 17:00	11.61	250.4	41.00	13.89	66.3
4-Nov 17:30	7.20	247.0	42.62	13.50	27.1
4-Nov 18:00	1.79	239.3	46.45	12.67	3.4
4-Nov 18:30	2.19	233.8	47.20	12.20	0.0
4-Nov 19:00	0.00	0.0	50.83	11.52	0.0
4-Nov 19:30	0.26	199.6	60.10	9.98	0.0
4-Nov 20:00	0.00	0.0	71.12	8.05	0.0
4-Nov 20:30	0.00	0.0	81.89	8.66	0.0
4-Nov 21:00	12.99	3.0	78.43	8.52	0.0
4-Nov 21:30	2.32	70.2	86.87	6.98	0.0
4-Nov 22:00	1.66	94.0	93.32	6.73	0.0
4-Nov 22:30	3.66	37.8	92.32	6.59	0.0
4-Nov 23:00	3.35	358.5	81.10	6.09	0.0
4-Nov 23:30	7.92	345.1	75.89	6.37	0.0
5-Nov 0:00	6.71	26.7	72.20	6.46	0.0
5-Nov 0:30	11.57	348.4	59.51	6.33	0.0
5-Nov 1:00	9.92	315.4	61.94	5.89	0.0
5-Nov 1:30	7.25	300.5	63.38	5.34	0.0
5-Nov 2:00	9.46	324.8	65.46	4.91	0.0
5-Nov 2:30	6.86	287.1	68.08	4.62	0.0
5-Nov 3:00	7.82	286.4	67.42	4.96	0.0
5-Nov 3:30	6.08	279.9	69.54	4.51	0.0
5-Nov 4:00	10.40	292.8	69.37	4.49	0.0
5-Nov 4:30	4.58	303.1	83.20	3.29	0.0
5-Nov 5:00	3.21	28.2	93.80	1.34	0.0
5-Nov 5:30	11.11	335.6	91.93	1.75	0.0
5-Nov 6:00	12.24	338.8	88.07	1.96	0.0
5-Nov 6:30	5.81	342.6	88.30	1.86	0.0
5-Nov 7:00	11.36	318.2	86.19	1.92	0.0
5-Nov 7:30	12.11	332.8	89.21	1.67	0.8
5-Nov 8:00	15.55	326.4	85.51	1.88	9.0
5-Nov 8:30	7.05	347.4	85.41	2.06	19.9

5-Nov	9:00	4.66	350.5	93.74	1.41	33.2
5-Nov	9:30	15.89	341.5	78.98	2.36	135.2
5-Nov	10:00	25.45	325.2	71.04	3.22	169.4
5-Nov	10:30	13.21	343.2	68.30	3.82	369.4
5-Nov	11:00	13.67	330.1	70.18	3.29	294.6
5-Nov	11:30	9.43	311.9	63.28	3.16	92.9
5-Nov	12:00	20.14	324.8	60.05	3.04	67.4
5-Nov	12:30	14.96	356.1	57.05	3.38	117.1
5-Nov	13:00	14.47	346.8	60.95	3.24	118.2
5-Nov	13:30	11.03	353.1	61.74	3.33	165.9
5-Nov	14:00	21.23	338.9	61.10	3.41	150.9
5-Nov	14:30	14.15	332.4	62.04	3.24	99.7
5-Nov	15:00	21.24	338.3	61.16	3.28	116.4
5-Nov	15:30	14.71	326.9	63.21	3.35	85.8
5-Nov	16:00	8.12	343.4	62.64	3.53	69.9
5-Nov	16:30	15.45	338.2	61.29	3.53	28.3
5-Nov	17:00	0.00	0.0	60.40	3.70	11.4

LH10 DO (mg/l)



Week	Station	Date MMDDYY	Time HHMMSS	Depth feet	Temp degC	pH units	SpCond mS/cm	DO mg/l	DO %Sat
1	LH17	30-May	71615	1	15.17	7.22	0.1223	10.08	100.4
1	LH16 AT THE ROAD	30-May	85459	1	13.18	7.29	0.2300	9.55	91.1
1	LH15	30-May	83246	0	14.39	7.26	0.1135	10.42	102.0
1	LH14	30-May	92943	1	15.47	7.34	0.1870	10.87	109.0
1	LH13	30-May	100231	1	15.77	7.58	0.1044	9.92	100.0
1	LH12	30-May	102405	1	11.01	7.54	0.0882	12.31	111.7
1	LH11	30-May			Operator error				
1	LH10	30-May	112410	1	15.77	7.73	0.0992	10.27	103.6
1	LH9	31-May	73754	2	11.49	6.12	0.2800	9.57	87.9
1	LH8	30-May	120226	1	15.90	7.60	0.0880	9.33	94.3
1	LH7	30-May	124208	0	14.54	5.23	0.1126	10.14	99.6
1	LH6	30-May	132323	0	11.08	4.78	0.1179	11.00	100.0
1	LH5	30-May	135617	0	12.42	4.69	0.1263	10.63	99.6
1	LH3	30-May	141858	0	17.46	6.22	0.0930	9.48	99.1
1	LH4	30-May	143057	0	12.45	6.13	0.1710	9.42	88.4
1	LH2	30-May	151535	1	15.27	6.37	0.0841	10.04	100.2
1	LH1	31-May	53224	1	11.48	6.50	0.0874	10.37	95.1
2	LH17	5-Jun	90256	3	15.23	7.11	0.1159	10.26	102.3
2	LH16	5-Jun	100456	2	17.13	7.15	0.1680	9.15	95.0
2	LH15	5-Jun	103256	2	14.80	7.27	0.1112	10.37	102.4
2	LH14	5-Jun	105826	2	15.88	7.29	0.1920	10.74	108.6
2	LH13	5-Jun	111805	2	16.21	7.58	0.1092	9.67	98.4
2	LH12	5-Jun	113438	2	11.40	7.64	0.0892	11.41	104.5
2	LH11	5-Jun	115935	2	15.09	7.47	0.1392	9.32	92.6
2	LH10	5-Jun	130322	2	16.12	7.58	0.0983	9.54	96.9
2	LH9	5-Jun	134653	2	15.21	6.72	0.2350	10.26	102.3
2	LH8	5-Jun	144246	2	17.06	7.60	0.0874	9.60	99.5
2	LH7	5-Jun	152345	1	16.98	5.21	0.1119	9.83	101.7
2	LH6	5-Jun	160649	1	12.94	5.60	0.1177	10.25	97.2
2	LH5	5-Jun	163812	1	14.18	4.65	0.1335	9.95	97.0
2	LH4	6-Jun	94353	0	11.95	6.49	0.1574	9.95	92.3
2	LH3	6-Jun	92530	0	15.06	6.55	0.0798	9.73	96.6
2	LH2	6-Jun	84441	0	14.89	6.24	0.0732	9.64	95.4
2	LH1	6-Jun	74518	0	15.25	6.60	0.0652	9.31	92.8
3	LH17	15-Jun	85614	2	23.11	6.87	0.1368	7.90	92.3
3	LH16	15-Jun	94048	1	19.33	7.53	0.2310	8.82	95.8
3	LH15	15-Jun	100514	1	22.43	7.40	0.1326	8.57	98.9
3	LH14	15-Jun	102349	2	20.87	7.20	0.2300	8.78	98.3
3	LH13	14-Jun	152438	0	26.09	7.65	0.1047	8.50	105.0
3	LH12	14-Jun	141649	0	14.74	6.82	0.0930	8.99	88.7
3	LH11	14-Jun	80601	2	20.33	6.89	0.1264	8.25	91.4
3	LH10	14-Jun	74322	2	20.13	7.43	0.1100	8.90	98.2
3	LH9	14-Jun	65956	1	17.13	7.35	0.1029	9.15	95.0
3	LH8	13-Jun	150121	2	22.54	7.92	0.0880	8.42	97.3
3	LH7	13-Jun	153353	2	19.23	5.99	0.0988	9.15	99.1
3	LH6	13-Jun	160620	1	16.20	5.19	0.1228	9.09	92.5
3	LH5	13-Jun	163951	1	17.36	4.47	0.1362	9.74	101.6
3	LH4	13-Jun	172008	1	16.52	7.54	0.1530	9.07	92.9
3	LH3	13-Jun	170727	1	23.07	7.58	0.0861	8.41	98.2
3	LH2	13-Jun	133954	0	18.41	7.69	0.0752	8.74	93.1

3	LH1	13-Jun	104306	2	20.30	7.74	0.0864	7.91	87.5
4	LH17	20-Jun	91817	1	20.63	7.06	0.0990	8.40	93.6
4	LH16	20-Jun	100959	2	20.68	7.06	0.1000	8.25	92.0
4	LH15	20-Jun	103006	1	19.95	7.03	0.0956	8.68	95.4
4	LH14	20-Jun	105004	2	21.44	7.15	0.2230	8.97	101.6
4	LH13	20-Jun	111259	1	20.92	7.59	0.1100	8.82	98.8
4	LH12	20-Jun	113223	1	13.46	7.09	0.0936	9.93	95.2
4	LH11	20-Jun	115046	1	19.16	7.12	0.1160	8.31	89.9
4	LH10	20-Jun	124901	2	20.03	7.09	0.0764	8.57	94.3
4	LH9	20-Jun	144559	1	16.95	6.60	0.2240	8.45	87.4
4	LH8	20-Jun	153405	1	21.55	6.96	0.0661	8.28	93.9
4	LH7	20-Jun	161119	1	20.66	4.76	0.1174	8.46	94.3
4	LH6	20-Jun	164830	0	16.81	4.69	0.1220	9.03	93.1
4	LH5	20-Jun	171946	0	18.13	4.53	0.1126	8.72	92.4
4	LH3	21-Jun	62402	1	19.54	6.60	0.0673	8.20	89.4
4	LH4	21-Jun	65645	0	15.20	6.14	0.1314	9.11	90.8
4	LH2	21-Jun	75353	0	20.08	6.49	0.0589	8.93	98.4
4	LH1	21-Jun	93804	0	19.47	6.91	0.0608	7.93	86.3
5	LH17	25-Jun	92513	1	19.39	7.17	0.1264	9.12	99.1
5	LH16	25-Jun	104131	1	17.63	7.41	0.2000	9.46	99.2
5	LH15	25-Jun	114346	1	19.46	7.48	0.1089	9.91	107.9
5	LH14	25-Jun	120530	2	19.92	7.38	0.2090	9.89	108.7
5	LH13	25-Jun	122528	1	18.85	7.51	0.0963	9.80	105.4
5	LH12	25-Jun	130539	1	14.32	7.22	0.0944	11.02	107.7
5	LH11	25-Jun	133909	1	18.60	7.28	0.1215	8.61	92.1
5	LH10	25-Jun	140515	1	19.74	7.12	0.0841	8.43	92.3
5	LH9	25-Jun	150406	1	16.00	6.41	0.2870	9.18	93.1
5	LH8	25-Jun	155818	1	21.33	7.15	0.0735	8.88	100.3
5	LH7	25-Jun	163345	0	19.68	5.63	0.1275	9.24	101.0
5	LH6	25-Jun	170701	0	15.28	4.78	0.1203	9.64	96.2
5	LH5	25-Jun	173630	0	16.28	4.53	0.1258	9.25	94.3
5	LH4	25-Jun	184255	0	15.87	6.62	0.1318	8.66	87.5
5	LH3	25-Jun	182459	0	23.64	6.76	0.0748	7.50	88.5
5	LH2	26-Jun	90445	1	19.95	6.65	0.0704	8.31	91.3
5	LH1	26-Jun	65142	1	16.91	7.04	0.0682	8.85	91.4
6	LH17	2-Jul	90623	3	20.02	6.67	0.1409	7.94	87.4
6	LH16	2-Jul	94139	2	17.30	7.23	0.2140	8.81	91.8
6	LH15	2-Jul	100356	2	17.94	7.14	0.1307	8.79	92.8
6	LH14	2-Jul	102409	3	18.17	7.16	0.2190	9.24	98.0
6	LH13	2-Jul	104131	2	18.22	7.37	0.0971	8.92	94.7
6	LH12	2-Jul	110004	2	14.65	7.22	0.1030	9.11	89.7
6	LH11	2-Jul	112901	2	17.74	7.22	0.1255	8.14	85.6
6	LH10	2-Jul	110052	1	19.38	7.03	0.0950	10.57	114.9
6	LH9	2-Jul	124818	2	14.32	6.51	0.3830	8.53	83.5
6	LH8	2-Jul	132655	2	19.44	7.31	0.0836	8.57	93.2
6	LH7	2-Jul	140446	1	18.40	4.85	0.1115	8.59	91.5
6	LH6	2-Jul	143429	1	14.20	5.17	0.1160	9.09	88.6
6	LH5	2-Jul	150107	1	15.39	4.51	0.1302	9.40	94.0
6	LH4	2-Jul	154111	2	15.44	6.50	0.1490	8.89	89.0
6	LH3	2-Jul	152815	2	22.42	6.87	0.0869	8.26	95.3
6	LH2	2-Jul	170856	1	20.69	6.84	0.0483	8.28	92.3
6	LH1	2-Jul	162315	1	21.95	7.26	0.0699	8.02	91.7

7	LH17	9-Jul	85526	2	20.99	6.45	0.1378	8.79	98.6
7	LH16	9-Jul	93229	1	20.27	7.19	0.1550	9.05	100.1
7	LH15	9-Jul	95804	1	19.52	7.14	0.1367	9.14	99.6
7	LH14	9-Jul	101238	2	19.38	7.25	0.2190	9.77	106.2
7	LH13	9-Jul	102700	1	20.14	7.42	0.1082	9.06	100.0
7	LH12	9-Jul	104011	1	15.76	7.34	0.0986	9.62	97.0
7	LH11	9-Jul	105811	1	19.53	7.22	0.1354	8.30	90.5
7	LH10	9-Jul	112827	1	21.26	7.29	0.0790	9.61	108.4
7	LH9	9-Jul	132457	1	16.09	6.66	0.4120	9.03	91.8
7	LH8	9-Jul	135531	1	22.33	7.25	0.0855	8.20	94.4
7	LH7	9-Jul	141847	1	20.46	4.83	0.1231	8.75	97.2
7	LH6	9-Jul	144502	0	16.24	4.67	0.1155	9.60	97.8
7	LH5	9-Jul	151033	1	17.21	4.35	0.1409	9.04	94.0
7	LH4	9-Jul	154247	0	17.19	6.28	0.1469	8.80	91.5
7	LH3	9-Jul	153043	1	25.13	6.68	0.0869	8.08	98.1
7	LH2	9-Jul	171813	0	20.23	7.03	0.0740	8.56	94.6
7	LH1	9-Jul	162451	0	25.20	7.17	0.0892	7.67	93.2
8	LH17	16-Jul	100608	2	21.61	7.28	0.1404	9.04	102.7
8	LH16	16-Jul	104516	2	21.05	7.40	0.1390	9.54	107.2
8	LH15	16-Jul	111503	2	20.43	7.37	0.1409	9.78	108.5
8	LH14	16-Jul	113343	2	20.43	7.92	0.2610	11.65	129.3
8	LH13	16-Jul	115450	2	21.11	7.71	0.1086	9.54	107.3
8	LH12	16-Jul	120945	2	17.66	7.60	0.0998	9.95	104.4
8	LH11	16-Jul	123908	2	19.58	7.35	0.1466	8.92	97.3
8	LH10	16-Jul	132037	1	21.74	7.43	0.0029	9.72	110.6
8	LH9	16-Jul	143841	2	15.19	6.50	0.4910	9.10	90.8
8	LH8	16-Jul	152028	2	21.43	7.51	0.0911	8.71	98.6
8	LH7	16-Jul	155832	2	19.23	4.64	0.1510	8.96	97.1
8	LH6	16-Jul	163047	1	15.12	4.68	0.1360	9.55	95.0
8	LH5	16-Jul	165940	1	16.01	4.42	0.1500	9.45	95.8
8	LH4	16-Jul	173936	1	16.22	6.63	0.1510	9.37	95.4
8	LH3	16-Jul	172350	1	23.39	6.91	0.0924	8.42	98.9
8	LH2	16-Jul	195808	1	19.46	6.79	0.0829	8.59	93.5
8	LH1	16-Jul	182849	1	23.89	6.94	0.0897	7.89	93.6
9	LH17	24-Jul	101148	0	25.46	8.20	0.1446	7.30	89.1
9	LH16	24-Jul	104148	0	22.05	8.84	0.1954	7.19	82.4
9	LH15	24-Jul	111122	0	24.09	8.56	0.1423	7.17	85.4
9	LH14	24-Jul	112838	0	23.47	11.00	0.2670	8.16	96.1
9	LH13	24-Jul	114945	0	24.89	8.39	0.1080	7.63	92.2
9	LH12	24-Jul	121029	0	20.54	8.60	0.0933	7.03	78.2
9	LH11	24-Jul	123912	0	23.58	7.25	0.1364	6.76	79.7
9	LH10	24-Jul	131724	0	26.03	8.57	0.1275	7.01	86.5
9	LH9	24-Jul	135500	0	16.71	8.60	0.5111	6.09	62.7
9	LH8	24-Jul	143800	0	25.50	7.53	0.0904	6.81	83.2
9	LH7	24-Jul	151251	0	22.58	8.17	0.1567	4.33	50.1
9	LH6	24-Jul	163301	0	18.78	8.66	0.1568	4.11	44.1
9	LH5	24-Jul	163318	0	18.78	8.69	0.1568	4.11	44.1
9	LH4	24-Jul	173021	0	18.33	8.66	0.1450	6.09	64.8
9	LH3	24-Jul	171318	0	27.04	7.84	0.0925	7.35	92.3
9	LH2	25-Jul	94134	0	21.80	7.87	0.0821	6.15	70.1
9	LH1	24-Jul	183816	0	26.98	7.04	0.0898	6.79	85.2
10	LH17	31-Jul	91652	0	22.14	8.84	0.1506	7.29	83.6

10	Lh16	31-Jul	95148	0	21.25	8.82	0.1618	7.18	81.0
10	LH15	31-Jul	102410	0	21.15	9.02	0.1507	7.13	80.3
10	LH14	31-Jul	104143	0	20.69	11.09	0.2732	7.99	89.2
10	LH13	31-Jul	105829	0	21.43	8.86	0.1099	7.63	86.3
10	LH12	31-Jul	111610	0	18.93	8.97	0.0927	7.02	75.6
10	LH11	31-Jul	114551	0	21.34	7.50	0.1510	6.80	76.8
10	LH10	31-Jul	122659	0	22.60	8.82	0.1259	6.95	80.4
10	LH9	31-Jul	131352	0	15.67	9.02	0.4838	6.21	62.6
10	LH8	31-Jul	140733	0	23.09	7.94	0.0906	6.93	81.0
10	LH7	31-Jul	144129	0	19.85	8.71	0.1552	4.46	48.9
10	LH6	31-Jul	151521	0	15.59	9.33	0.1318	4.53	45.5
10	LH5	31-Jul	154043	0	16.00	9.44	0.1553	4.23	42.9
10	LH4	31-Jul	162729	0	15.66	9.47	0.1420	6.42	64.6
10	LH3	31-Jul	160809	0	23.50	8.23	0.0924	7.04	82.9
10	LH2	1-Aug	85238	0	21.70	8.02	0.0854	6.15	70.0
10	LH1	31-Jul	173511	0	23.18	7.82	0.0891	6.88	80.5
11	LH17	6-Aug	92923	1	23.88	7.34	0.1349	8.90	105.5
11	LH16	6-Aug	100547	0	23.97	7.05	0.1477	8.29	98.5
11	LH15	6-Aug	102536	0	22.43	6.92	0.1239	8.56	98.8
11	LH14	6-Aug	103924	0	23.12	7.91	0.2511	9.98	116.7
11	LH13	6-Aug	105915	0	21.72	7.32	0.1124	8.70	99.0
11	LH12	6-Aug	111628	0	14.96	6.85	0.0965	9.95	98.6
11	LH11	6-Aug	113903	0	23.43	6.85	0.1942	6.60	77.6
11	LH10	6-Aug	121027	0	24.73	6.87	0.1113	8.50	102.4
11	LH9	6-Aug	134754	0	19.47	6.23	0.3500	8.58	93.5
11	LH8	6-Aug	142136	0	25.02	6.89	0.0919	7.94	96.2
11	LH7	6-Aug	145041	0	22.93	4.68	0.1239	8.04	93.6
11	LH6	6-Aug	152325	0	17.60	4.66	0.1188	8.88	93.1
11	LH5	6-Aug	155304	0	19.57	4.32	0.1182	8.74	95.3
11	LH4	6-Aug	162358	0	18.51	6.09	0.1505	8.70	92.9
11	LH3	6-Aug	161125	0	27.26	6.99	0.1056	7.58	95.6
11	LH2	6-Aug	181749	0	22.62	6.37	0.0908	7.75	89.7
11	LH1	6-Aug	170919	0	27.12	6.90	0.0921	7.29	91.7
12	LH17	16-Aug	91411	0	22.27	6.82	0.1237	8.26	95.0
12	LH16	16-Aug	94544	0	21.75	6.76	0.1355	8.32	94.7
12	LH15	16-Aug	100750	0	20.97	6.70	0.1277	8.63	96.8
12	LH14	16-Aug	102647	0	21.19	7.48	0.2735	9.75	109.9
12	LH13	16-Aug	104230	0	21.64	7.60	0.1211	8.63	98.1
12	LH12	16-Aug	105619	0	18.90	6.86	0.1103	8.59	92.4
12	LH11	16-Aug	112029	0	21.77	6.78	0.1841	7.45	84.9
12	LH10	16-Aug	113808	0	21.35	6.18	0.1099	8.78	99.2
12	LH9	16-Aug	121344	0	17.62	6.28	0.3444	8.75	91.8
12	LH8	16-Aug	124746	0	20.79	5.07	0.0970	8.22	91.9
12	LH7	16-Aug	131323	0	19.19	4.43	0.1446	8.71	94.3
12	LH6	16-Aug	135107	0	14.09	3.66	0.2314	9.91	96.4
12	LH5	16-Aug	145833	0	16.18	3.74	0.1977	9.25	94.1
12	LH4	16-Aug	154326	0	16.96	6.04	0.1376	8.95	92.6
12	LH3	16-Aug	152811	0	24.84	7.08	0.0998	8.22	99.2
12	LH2	16-Aug	175203	0	22.48	6.47	0.0882	7.71	89.0
12	LH1	16-Aug	162539	0	24.67	6.82	0.0898	7.89	94.9
13	LH17	20-Aug	93003	0	23.16	6.88	0.1332	8.30	97.1
13	LH16	20-Aug	100448	0	22.65	7.01	0.1545	8.25	95.6

13	LH15	20-Aug	103002	0	22.14	6.97	0.1307	8.83	101.3
13	LH14	20-Aug	105107	0	22.64	7.66	0.2662	9.73	112.8
13	LH13	20-Aug	110503	0	22.86	7.63	0.1181	8.40	97.7
13	LH12	20-Aug	112105	0	19.42	6.97	0.1020	8.66	94.2
13	LH11	20-Aug	114558	0	22.67	6.73	0.1819	6.96	80.7
13	LH10	20-Aug	120052	0	23.21	6.49	0.1190	11.29	132.2
13	LH9	20-Aug	125257	0	17.76	6.25	0.4216	8.82	92.8
13	LH8	20-Aug	132812	0	22.39	5.20	0.0953	8.10	93.4
13	LH7	20-Aug	140053	0	19.84	4.37	0.1613	8.72	95.6
13	LH6	20-Aug	143623	0	15.00	3.93	0.1980	9.61	95.4
13	LH5	20-Aug	152429	0	16.66	3.85	0.1853	9.24	95.0
13	LH4	20-Aug	160350	0	16.83	6.16	0.1388	9.08	93.7
13	LH3	20-Aug	154913	0	25.26	7.34	0.0982	7.48	91.0
13	LH2	20-Aug	175112	0	22.68	6.54	0.0890	7.70	89.2
13	LH1	20-Aug	164419	0	25.20	7.10	0.0895	7.80	94.8
14	LH17	29-Aug	83408	0	22.39	7.26	0.1500	7.30	84.2
14	LH16	29-Aug	92232	0	19.40	7.32	0.2260	7.83	85.2
14	LH15	29-Aug	94251	0	20.81	7.18	0.1421	8.25	92.2
14	LH14	29-Aug	100427	1	20.69	7.49	0.2890	8.75	97.7
14	LH13	29-Aug	102139	0	20.72	7.65	0.1325	8.44	94.2
14	LH12	29-Aug	103438	0	19.35	7.15	0.1027	8.33	90.5
14	LH11	29-Aug	105153	0	21.45	6.99	0.1980	6.37	72.1
14	LH10	29-Aug	112238	0	22.09	7.28	0.1150	8.70	99.7
14	LH9	29-Aug	121044	0	15.90	6.57	0.4820	8.65	87.6
14	LH8	29-Aug	124828	1	21.40	6.97	0.0936	8.09	91.5
14	LH7	29-Aug	132003	0	18.92	4.76	0.1520	8.77	94.4
14	LH6	29-Aug	135502	0	15.36	4.61	0.1429	8.67	86.7
14	LH5	29-Aug	142428	0	16.13	4.28	0.1610	8.74	88.8
14	LH4	29-Aug	145756	0	15.93	6.71	0.1530	9.03	91.4
14	LH3	29-Aug	144615	0	24.05	7.50	0.1092	8.42	100.2
14	LH2	29-Aug	162240	0	21.66	6.91	0.0915	7.92	90.0
14	LH1	29-Aug	153728	0	23.26	7.45	0.0882	7.59	88.9
15	LH17	4-Sep	91442	0	20.50	7.47	0.1371	7.95	88.3
15	LH16	4-Sep	95503	0	20.33	7.42	0.1405	8.62	95.5
15	LH15	4-Sep	102319	0	19.95	7.46	0.1317	8.31	91.3
15	LH14	4-Sep	104114	0	20.31	7.80	0.2930	8.75	96.9
15	LH13	4-Sep	110719	0	20.07	7.93	0.1255	7.78	85.7
15	LH12	4-Sep	112744	0	18.43	7.49	0.0959	7.19	76.6
15	LH11	4-Sep	115008	0	20.10	7.01	0.1910	6.01	66.3
15	LH10	4-Sep	125944	0	20.77	8.11	0.1152	8.74	97.6
15	LH9	4-Sep	134236	0	16.39	6.67	0.4030	8.01	81.9
15	LH8	4-Sep	142139	0	20.18	7.16	0.0937	7.03	77.6
15	LH7	4-Sep	144852	0	17.70	4.79	0.1590	8.02	84.2
15	LH6	4-Sep	151737	0	14.94	4.79	0.1323	8.48	84.0
15	LH5	4-Sep	154343	0	15.28	4.63	0.1232	8.28	82.6
15	LH4	4-Sep	162524	0	15.06	6.44	0.1298	8.87	88.1
15	LH3	4-Sep	161043	0	21.26	7.12	0.1066	8.00	90.2
15	LH2	4-Sep	180839	0	20.15	6.90	0.0917	7.79	86.0
15	LH1	4-Sep	171029	0	20.24	7.31	0.0921	7.04	77.8
16	LH17	12-Sep	90136	1	19.88	7.21	0.1490	9.04	99.2
16	LH16	12-Sep	92924	0	16.07	7.26	0.2580	8.74	88.8
16	LH15	12-Sep	94916	0	18.21	7.17	0.1492	8.70	92.3

16	LH14	12-Sep	100709	1	17.83	7.37	0.2940	9.55	100.6
16	LH13	12-Sep	102328	0	16.92	7.60	0.1335	8.93	92.3
16	LH12	12-Sep	104200	0	17.11	7.17	0.0953	8.54	88.6
16	LH11	12-Sep	110036	0	19.03	6.86	0.1930	6.67	72.0
16	LH10	12-Sep	114446	1	19.63	7.42	0.1224	9.57	104.5
16	LH9	12-Sep	122121	0	13.84	6.54	0.5080	9.35	90.6
16	LH8	12-Sep	125908	0	19.39	7.16	0.1006	8.79	95.5
16	LH7	12-Sep	133145	0	15.86	4.65	0.1690	9.43	95.3
16	LH6	12-Sep	140758	1	13.18	4.63	0.1432	9.30	88.7
16	LH5	12-Sep	143346	0	13.68	4.52	0.1427	9.40	90.6
16	LH4	12-Sep	151004	0	13.49	6.41	0.1480	9.36	89.8
16	LH3	12-Sep	145536	0	21.47	7.29	0.1052	8.39	95.0
16	LH2	13-Sep	73453	0	19.13	6.78	0.0912	8.06	87.1
16	LH1	12-Sep	155110	0	21.48	7.13	0.0946	8.47	95.9
17	LH17	17-Sep	91718	1	16.87	7.47	0.1313	8.87	91.6
17	LH16	17-Sep	93957	0	15.70	7.55	0.2020	8.96	90.3
17	LH15	17-Sep	95647	0	14.73	7.55	0.1367	9.04	89.2
17	LH14	17-Sep	100929	1	14.50	7.53	0.2830	9.44	92.7
17	LH13	17-Sep	102151	0	13.59	7.85	0.1334	9.84	94.7
17	LH12	17-Sep	103205	0	15.06	7.68	0.0934	8.91	88.5
17	LH11	17-Sep	104702	1	15.55	7.07	0.2070	7.21	72.4
17	LH10	17-Sep	112955	0	17.05	7.77	0.1189	9.17	95.0
17	LH9	17-Sep	115628	0	12.32	6.83	0.5060	9.82	92.0
17	LH8	17-Sep	122351	0	16.41	7.60	0.0981	9.23	94.3
17	LH7	17-Sep	124848	0	12.41	4.85	0.1740	10.40	97.5
17	LH6	17-Sep	131522	0	10.74	4.83	0.1390	10.10	91.1
17	LH5	17-Sep	133738	0	11.11	4.78	0.1417	10.09	91.8
17	LH4	17-Sep	140633	0	11.17	6.86	0.1470	10.82	98.6
17	LH3	17-Sep	135535	0	18.10	7.17	0.0993	9.81	103.9
17	LH2	17-Sep	152525	0	17.49	7.22	0.0907	9.59	100.3
17	LH1	17-Sep	144404	0	18.02	7.70	0.0955	9.20	97.2
18	LH17	24-Sep	95825	2	19.39	7.28	0.1540	7.92	86.1
18	LH16	24-Sep	101844	1	18.93	7.41	0.1870	7.97	85.8
18	LH15	24-Sep	103953	1	18.57	7.19	0.1431	8.37	89.5
18	LH14	24-Sep	105221	2	17.20	7.18	0.2360	8.04	83.6
18	LH13	24-Sep	110300	1	17.90	7.48	0.1443	8.24	86.9
18	LH12	24-Sep	111310	1	16.77	7.28	0.1057	8.31	85.6
18	LH11	24-Sep	112604	1	18.17	6.94	0.2230	6.30	66.8
18	LH10	24-Sep	115534	2	17.26	7.38	0.1190	8.26	86.0
18	LH9	24-Sep	124924	1	14.27	6.64	0.4490	8.53	83.4
18	LH8	24-Sep	133035	1	17.11	7.36	0.0968	8.27	85.8
18	LH7	24-Sep	135105	0	14.41	4.66	0.1810	9.01	88.3
18	LH6	24-Sep	141523	1	13.33	4.71	0.1352	8.92	85.3
18	LH5	24-Sep	145028	0	13.82	4.50	0.1431	8.81	85.2
18	LH4	24-Sep	151853	0	13.54	6.59	0.1510	8.96	86.1
18	LH3	24-Sep	150841	0	17.43	6.93	0.0983	8.80	91.9
18	LH2	24-Sep	165154	-1	17.79	7.07	0.0877	8.26	86.9
18	LH1	24-Sep	160118	0	17.26	7.41	0.0939	8.33	86.7
19	LH17	2-Oct	93053	2	12.99	6.51	0.1426	9.87	93.7
19	LH16	2-Oct	102442	1	13.11	7.16	0.1378	11.08	105.5
19	LH15	2-Oct	105234	1	12.44	6.97	0.1393	10.53	98.7
19	LH14	2-Oct	111043	2	12.75	7.12	0.2610	9.77	92.3

19	LH13	2-Oct	112930	1	12.20	7.58	0.1086	10.29	96.0
19	LH12	2-Oct	115141	1	13.14	7.42	0.1037	9.15	87.1
19	LH11	2-Oct	120818	1	13.06	6.96	0.1910	8.37	79.6
19	LH10	2-Oct	131616	0	14.20	6.85	0.1087	9.91	96.6
19	LH9	2-Oct	135156	1	12.40	6.62	0.3830	8.90	83.5
19	LH8	2-Oct	144611	1	14.24	6.70	0.0950	8.95	87.3
19	LH7	2-Oct	151712	0	12.06	4.28	0.1690	9.83	91.4
19	LH6	2-Oct	155447	0	10.76	4.72	0.1384	9.56	86.3
19	LH5	2-Oct	162808	0	11.58	4.28	0.1590	10.07	92.6
19	LH4	2-Oct	170428	0	12.19	6.27	0.1167	9.58	89.3
19	LH3	2-Oct	164953	0	15.99	6.88	0.1001	9.37	94.9
19	LH2	2-Oct	184346	0	12.91	6.90	0.0885	9.50	90.0
19	LH1	2-Oct	175635	0	14.93	7.10	0.0874	8.91	88.2
20	LH17	9-Oct	91051	2	9.26	6.93	0.1530	10.09	87.9
20	LH16	9-Oct	94454	2	8.48	6.04	0.1630	10.94	93.5
20	LH15	9-Oct	101158	1	8.18	6.98	0.1438	10.68	90.6
20	LH14	9-Oct	103301	2	7.89	6.68	0.2740	10.49	88.4
20	LH13	9-Oct	105050	2	7.28	7.45	0.1144	11.97	99.4
20	LH12	9-Oct	110717	2	9.93	7.33	0.1003	9.15	81.0
20	LH11	9-Oct	112356	1	8.74	7.12	0.1860	8.81	75.8
20	LH10	9-Oct	120238	1	9.64	7.07	0.1209	11.08	97.4
20	LH9	9-Oct	131516	2	9.06	6.43	0.4410	10.84	94.1
20	LH8	9-Oct	140156	2	9.69	7.11	0.0954	9.92	87.3
20	LH7	9-Oct	150709	1	7.82	4.67	0.1790	10.37	87.3
20	LH6	9-Oct	154546	1	6.91	4.81	0.1391	10.26	84.4
20	LH5	9-Oct	162950	1	7.54	4.49	0.1540	11.36	94.9
20	LH4	9-Oct	171038	1	8.30	6.56	0.1318	11.10	94.5
20	LH3	9-Oct	165511	1	11.04	6.58	0.1037	9.63	87.4
20	LH2	9-Oct	184307	1	10.13	7.00	0.0896	9.49	84.4
20	LH1	9-Oct	175032	1	9.66	6.55	0.0910	9.23	81.2
21	LH17	18-Oct	85413	1	9.48	6.81	0.1309	10.27	89.9
21	LH16	18-Oct	92622	1	9.09	6.28	0.1318	10.63	92.2
21	LH15	18-Oct	94816	1	8.69	6.48	0.1325	10.55	90.6
21	LH14	18-Oct	100129	1	8.32	6.29	0.2600	10.10	86.1
21	LH13	18-Oct	101636	1	8.25	7.13	0.1144	11.63	98.9
21	LH12	18-Oct	103626	1	9.57	6.60	0.0860	9.83	86.2
21	LH11	18-Oct	104841	1	9.17	6.88	0.1780	9.24	80.3
21	LH10	18-Oct	112739	1	9.71	7.15	0.1070	10.40	91.6
21	LH9	18-Oct	115926	1	8.86	6.35	0.3060	9.47	81.8
21	LH8	18-Oct	123316	1	8.93	7.17	0.0911	10.12	87.4
21	LH7	18-Oct	125917	1	8.19	4.72	0.1367	10.45	88.7
21	LH6	18-Oct	132824	1	7.53	4.50	0.1247	9.44	78.8
21	LH5	18-Oct	135904	0	7.58	4.49	0.1355	10.40	87.0
21	LH4	18-Oct	142629	0	7.93	5.99	0.1335	10.88	91.8
21	LH3	18-Oct	141448	0	11.87	6.18	0.0953	9.65	89.3
21	LH2	18-Oct	154742	0	10.61	7.07	0.0840	10.42	93.7
21	LH1	18-Oct	150044	1	10.04	6.52	0.0838	9.08	80.5
22	LH17	23-Oct	85301	1	12.78	7.19	0.1680	8.50	80.3
22	LH16	23-Oct	92211	0	11.67	7.41	0.2500	8.66	79.8
22	LH15	23-Oct	93857	0	12.49	7.27	0.1464	9.20	86.4
22	LH14	23-Oct	95333	1	12.16	7.19	0.2780	8.79	81.9
22	LH13	23-Oct	100851	0	12.24	7.51	0.1269	9.05	84.5

22	LH12	23-Oct	102348	0	12.87	7.36	0.0987	8.29	78.5
22	LH11	23-Oct	104113	0	12.66	7.04	0.1860	6.66	62.8
22	LH10	23-Oct	110936	1	12.13	7.30	0.1168	8.84	82.3
22	LH9	23-Oct	113528	1	11.86	6.73	0.4470	8.36	77.5
22	LH8	23-Oct	121816	0	12.00	7.51	0.0949	8.84	82.1
22	LH7	23-Oct	124333	0	10.87	4.82	0.1600	9.17	83.0
22	LH6	23-Oct	130541	1	10.38	5.04	0.1344	8.54	76.4
22	LH5	23-Oct	132907	-1	10.75	4.66	0.1461	9.25	83.4
22	LH4	23-Oct	140433	0	10.62	6.99	0.1379	10.55	94.9
22	LH3	23-Oct	135218	0	11.72	7.31	0.0993	9.48	87.4
22	LH2	23-Oct	161036	0	10.88	7.34	0.0880	9.09	82.2
22	LH1	23-Oct	171959	0	12.88	7.35	0.0861	8.24	78.0
23	LH17	23-Sep	101200	2	7.00	6.73	0.1443	12.96	106.9
23	LH16	23-Sep	104009	2	5.52	7.10	0.2550	13.19	104.8
23	LH15	23-Sep	105911	2	6.43	7.09	0.1411	13.50	109.7
23	LH14	23-Sep	111156	2	6.51	6.96	0.2770	11.15	90.9
23	LH13	23-Sep	112401	2	6.26	7.30	0.1283	11.31	91.5
23	LH12	23-Sep	113334	2	8.57	7.29	0.0934	10.07	86.3
23	LH11	23-Sep	114734	2	8.16	6.93	0.2070	8.70	73.8
23	LH10	23-Sep	122733	2	8.34	7.13	0.1197	10.63	90.6
23	LH9	23-Sep	132351	2	7.84	6.61	0.4410	9.82	82.8
23	LH8	23-Sep	135653	2	7.06	7.22	0.0955	10.86	89.7
23	LH7	23-Sep	142525	1	5.69	4.66	0.1730	12.75	101.7
23	LH6	23-Sep	145631	2	5.40	4.78	0.1327	12.48	98.8
23	LH5	23-Sep	152559	1	5.62	4.09	0.1415	11.12	88.5
23	LH4	23-Sep	155913	1	6.32	6.27	0.1403	10.45	84.7
23	LH3	23-Sep	154531	1	8.73	6.82	0.0974	12.81	110.2
23	LH2	23-Sep	173247	1	8.04	6.70	0.0876	12.04	101.8
23	LH1	23-Sep	164146	1	6.21	6.65	0.0887	10.22	82.6
24	LH17	16-Jul	93851	2	9.65	6.75	0.1500	10.96	96.4
24	LH16	16-Jul	100802	1	7.77	7.19	0.2520	9.55	80.3
24	LH15	16-Jul	102704	1	8.92	7.23	0.1455	11.34	98.0
24	LH14	16-Jul	104334	2	8.45	7.07	0.2750	11.26	96.2
24	LH13	16-Jul	105755	1	8.05	7.45	0.1207	9.71	82.1
24	LH12	16-Jul	111053	1	8.42	7.35	0.0990	9.27	79.1
24	LH11	16-Jul	112657	1	9.31	7.01	0.1890	9.14	79.7
24	LH10	16-Jul	121011	1	9.69	7.27	0.1358	8.82	77.6
24	LH9	16-Jul	124438	2	8.91	6.68	0.4380	10.55	91.2
24	LH8	16-Jul	132051	2	8.27	7.11	0.0951	9.93	84.4
24	LH7	16-Jul	134857	1	6.98	4.74	0.1650	11.60	95.6
24	LH6	16-Jul	141931	1	6.97	4.86	0.1264	9.39	77.4
24	LH5	16-Jul	144636	1	7.01	4.59	0.1400	9.29	76.6
24	LH4	16-Jul	151518	1	7.01	6.31	0.1412	9.73	80.2
24	LH3	16-Jul	150235	0	7.13	6.92	0.0992	10.30	85.2
24	LH2	16-Jul	171015	0	9.41	6.79	0.0772	9.62	84.1
24	LH1	16-Jul	155228	0	6.92	6.78	0.0881	11.43	94.0

Lehigh Flows

Tributary	Date	Staff gauge	Flow	Staff gauge	Notes
Bertsch Creek	5/30/2001	16	8.46	16	Bad meter readings
Bertsch Creek	6/4/2001	16.38	8.22	16.38	Bad meter readings
Bertsch Creek	6/11/2001	14	5.25	14	Bad meter readings
Bertsch Creek	7/2/2001	19.38	5.99	19.38	
Bertsch Creek	7/20/2001	16.13	3.22	16.13	
Bertsch Creek	8/9/2001	14.38	1.53	14.38	
Bertsch Creek	9/27/2001	18	4.95	18	
Aquashicola Creek	5/30/2001	25.88	88.47	25.88	staff gauge swapped
Aquashicola Creek	6/4/2001	27.38	92.44	27.38	for readability
Aquashicola Creek	6/11/2001	23.38	55.74	23.38	does not need rerated
Aquashicola Creek	7/2/2001	23.88	53.37	23.88	
Aquashicola Creek	7/20/2001	20.13	38.87	20.13	
Aquashicola Creek	8/9/2001	19	32.98	19	
Aquashicola Creek	9/18/2001	17.5	21.41	17.5	
Aquashicola Creek	9/27/2001	29.88	147.86	29.88	
Lizard Creek	5/30/2001	20.5	40	20.5	staff gauge swapped
Lizard Creek	6/4/2001	21	47.04	21	for readability
Lizard Creek	6/11/2001	18	21.92	18	does not need rerated
Lizard Creek	7/2/2001	21.25	47.22	21.25	
Lizard Creek	7/20/2001	16.38	18.53	16.38	
Lizard Creek	8/9/2001	17.5	26.42	17.5	
Lizard Creek	8/30/2001	14.5	11.41	14.5	
Lizard Creek	9/26/2001	22.88	88.37	22.88	
Mahoning Creek	5/30/2001	20.38	19.49	20.38	staff gauge swapped
Mahoning Creek	6/4/2001	22.5	34.14	22.5	for readability
Mahoning Creek	6/11/2001	20.25	17.78	20.25	does not need rerated
Mahoning Creek	7/2/2001	21.38	21	21.38	
Mahoning Creek	7/19/2001	18.88	15.09	18.88	
Mahoning Creek	8/9/2001	17.5	8.42	17.5	
Mahoning Creek	9/18/2001	16.125	5.42	16.125	
Mahoning Creek	9/26/2001	21.63	33.43	21.63	
Lausanne Tunnel	5/31/2001	0.55	7.87	0.55	
Lausanne Tunnel	6/5/2001	0.53	6.22	0.53	
Lausanne Tunnel	6/12/2001	0.52	5.93	0.52	
Lausanne Tunnel	7/3/2001	0.59	6.85	0.59	
Lausanne Tunnel	7/19/2001	0.51	8.51	0.51	
Lausanne Tunnel	8/9/2001	0.47	5.78	0.47	
Lausanne Tunnel	8/28/2001	0.29	3.87	0.29	

Lehigh Flows

Tributary	Date	Staff gauge	Flow	Staff gauge	Notes
Nesquehoning Creek	5/31/2001	14.75	38.47	14.75	
Nesquehoning Creek	6/5/2001	15.88	41.28	15.88	
Nesquehoning Creek	6/12/2001	13.5	22.79	13.5	
Nesquehoning Creek	7/3/2001	13	16.53	13	* staff gauge replaced
Nesquehoning Creek	7/19/2001	11	14.06	11	will need rerated
Nesquehoning Creek	8/9/2001	10.13	11.08	10.13	
Nesquehoning Creek	8/28/2001	8.875	8.28	8.875	
Nesquehoning Creek	9/18/2001	8.125	5.83	8.125	
Nesquehoning Creek	9/26/2001	16.88	66.74	16.88	
Black Creek	5/31/2001	17.75	38.68	17.75	
Black Creek	6/5/2001	19	39.59	19	
Black Creek	6/12/2001	17.88	35.51	17.88	
Black Creek	7/3/2001	18.5	27.55	18.5	
Black Creek	7/19/2001	16.25	28.8	16.25	
Black Creek	8/9/2001	14.25	17.19	14.25	
Black Creek	9/18/2001	13.125	12.6	13.125	
Black Creek	9/26/2001	22.63	95.52	22.63	
Buck Mountain	5/31/2001	19.38	5.63	19.38	
Buck Mountain	6/5/2001	19.75	5.62	19.75	
Buck Mountain	6/12/2001	19.25	4.15	19.25	
Buck Mountain	7/3/2001	19.62	3.84	19.62	
Buck Mountain	7/19/2001	19.13	6.74	19.13	
Buck Mountain	8/10/2001	19.13	7.15	19.13	
Buck Mountain	8/28/2001	26.625	12.53	26.625	New staff gauge installed
Buck Mountain	9/18/2001	24.375	8.23	24.375	a large rain event.
Buck Mountain	9/26/2001	29.75	23.66	29.75	
Sandy Run	5/31/2001	18.75	20.63	18.75	
Sandy Run	6/5/2001	19.38	14.9	19.38	
Sandy Run	6/12/2001	19.5	15.35	19.5	
Sandy Run	7/3/2001	19.25	14.77	19.25	
Sandy Run	7/19/2001	18.75	18.06	18.75	
Sandy Run	8/10/2001	17.75	14.66	17.75	
Sandy Run	8/28/2001	19.625	24.19	19.625	
Sandy Run	9/26/2001	24.75	75.13	24.75	
Hayes Creek	5/31/2001	16.25	13.4	16.25	
Hayes Creek	6/5/2001	16.88	12.78	16.88	
Hayes Creek	6/11/2001	15.75	11.61	15.75	
Hayes Creek	7/3/2001	17.12	14.22	17.12	

Lehigh Flows

Hayes Creek	7/19/2001	17.25	17.98	17.25	
Hayes Creek	8/10/2001	14.88	9.96	14.88	
Hayes Creek	9/26/2001	22.13	56.07	22.13	

Note: On July 10, 2001, meter was showing erroneous readings at Big Spring. They were too low.
Meter was repaired after this date

Table A-1. Summary of stratification monitoring at Betzville

Station	DATE	Depth (F)	Temp ©	pH	DO (mg/L)	DO (%)	Cond (mS/cm)
BZ1	24-Apr	0	11.57	7.18	*	*	0.086
	24-May	0	8.25	8.24	11.66	99.10	0.078
	14-Jun	0	10.81	6.84	10.53	95.10	0.078
	17-Jul	0	12.15	6.18	9.67	90.06	0.080
	7-Aug	0	12.49	6.64	9.33	87.56	0.077
	25-Sep	0	13.54	6.62	8.20	78.78	0.085
	24-Oct	0	12.09	7.02	8.20	76.30	0.079
BZ2	24-Apr	0	11.83	7.66	*	*	0.070
	24-May	0	11.87	8.15	10.57	97.81	0.070
	14-Jun	0	14.10	6.91	9.69	94.25	0.071
	17-Jul	0	16.49	6.59	9.27	94.91	0.065
	7-Aug	0	17.72	6.50	8.43	88.55	0.066
	25-Sep	0	15.31	7.04	7.85	78.38	0.073
	24-Oct	0	11.70	7.00	7.56	69.70	0.057
	24-Apr	100	5.18	6.88	*	*	0.082
		95	5.19	6.87	*	*	0.082
		90	5.20	6.86	*	*	0.082
		85	5.24	6.86	*	*	0.082
		80	5.27	6.85	*	*	0.082
		75	5.27	6.86	*	*	0.082
		70	5.32	6.86	*	*	0.082
		65	5.60	6.87	*	*	0.081
		60	5.74	6.89	*	*	0.081
		55	5.83	6.89	*	*	0.081
		50	6.01	6.91	*	*	0.081
		45	6.38	6.94	*	*	0.080
		40	6.66	6.96	*	*	0.080
		35	6.99	6.98	*	*	0.080
		30	7.30	7.02	*	*	0.080
		25	7.61	7.04	*	*	0.080
		20	8.72	7.11	*	*	0.079
		15	10.14	7.21	*	*	0.079
	10	10.38	7.23	*	*	0.080	
	5	10.49	7.26	*	*	0.080	
	0	10.78	7.28	*	*	0.080	
	24-May	95	5.75	7.98	8.51	67.97	0.079
		90	5.73	7.80	10.06	80.31	0.078
		85	5.85	7.72	8.38	67.10	0.078
		80	6.12	7.60	8.62	69.50	0.078
		75	6.23	7.57	8.70	70.34	0.078
		70	6.39	7.44	8.56	69.49	0.078
		65	6.64	7.42	8.48	69.27	0.078
60		6.85	7.39	8.43	69.23	0.078	
55		7.13	7.38	8.43	69.71	0.077	
51		7.28	7.36	8.77	72.79	0.077	
50	7.33	7.30	8.34	69.31	0.077		
45	7.62	7.29	8.42	70.47	0.077		
40	8.45	7.30	8.68	74.13	0.077		
35	9.27	7.33	9.04	78.74	0.077		

BZ3

	30	11.36	7.37	8.77	80.22	0.076
	25	15.84	7.45	8.37	84.52	0.076
	20	15.89	7.47	8.34	84.31	0.076
	15	16.84	7.53	8.52	87.87	0.076
	10	17.28	7.57	8.37	87.12	0.076
	5	17.50	7.60	8.65	90.45	0.076
	0	17.95	7.61	8.96	94.56	0.076
14-Jun	90	6.30	6.43	7.72	62.53	0.079
	85	6.49	6.40	7.85	63.88	0.078
	80	6.71	6.39	8.06	65.96	0.078
	75	7.03	6.37	8.07	66.57	0.078
	70	7.19	6.35	7.76	64.26	0.078
	65	7.36	6.34	7.67	63.79	0.078
	60	7.68	6.31	7.35	61.61	0.078
	55	7.95	6.30	7.24	61.09	0.078
	50	8.30	6.31	7.63	64.93	0.078
	45	9.50	6.34	7.76	67.96	0.077
	40	12.10	6.40	7.45	69.30	0.078
	35	14.20	6.46	7.43	72.43	0.079
	30	15.60	6.51	7.89	79.27	0.078
	25	16.96	6.60	8.88	91.82	0.076
	20	17.60	6.71	9.24	96.82	0.076
	15	19.34	6.98	9.34	#####	0.076
10	21.47	7.04	8.88	#####	0.076	
5	23.74	7.05	8.51	#####	0.074	
0	24.27	7.06	8.49	#####	0.075	
17-Jul	97	6.13	6.19	6.02	48.55	0.076
	95	6.19	6.01	6.67	53.87	0.076
	90	6.41	5.98	6.69	54.33	0.076
	85	6.70	5.98	6.99	57.19	0.075
	80	6.93	5.99	7.06	58.09	0.075
	75	7.28	5.98	7.09	58.85	0.075
	70	7.90	5.97	6.88	57.98	0.075
	65	8.19	5.96	6.62	56.18	0.075
	60	8.41	5.94	6.18	52.73	0.075
	55	8.80	5.91	5.43	46.77	0.076
	50	9.75	5.93	5.40	47.58	0.075
	45	10.95	5.95	5.78	52.37	0.075
	40	13.62	6.01	5.79	55.72	0.076
	35	15.82	6.08	6.23	62.89	0.075
	30	17.89	6.20	7.11	74.94	0.073
	25	19.74	6.28	7.81	85.47	0.073
	20	22.37	6.45	8.25	95.05	0.071
	15	23.78	6.84	8.39	99.28	0.070
10	24.18	7.22	8.44	#####	0.070	
5	24.36	7.33	8.40	#####	0.070	
0	24.48	7.35	8.49	#####	0.070	
	100	6.44	5.95	5.45	44.30	0.078
	95	6.57	5.87	5.33	43.46	0.078
	90	6.71	5.83	5.43	44.43	0.078
	85	6.72	5.81	5.43	44.45	0.078
	80	7.07	5.79	5.61	46.32	0.077

7-Aug	75	7.50	5.77	5.22	43.56	0.078
	70	7.79	5.75	5.07	42.61	0.077
	65	8.38	5.73	4.59	39.14	0.078
	60	8.88	5.72	3.86	33.31	0.078
	55	9.29	5.70	3.36	29.28	0.078
	50	10.01	5.69	3.32	29.43	0.078
	45	11.59	5.73	3.98	36.60	0.077
	40	13.84	5.77	3.89	37.62	0.077
	35	16.39	5.83	3.98	40.66	0.077
	30	19.07	5.91	4.82	52.04	0.075
	25	21.11	6.00	5.50	61.84	0.075
	20	23.50	6.18	6.65	78.28	0.072
	15	24.76	6.56	7.75	93.40	0.070
	10	25.45	7.31	8.19	99.97	0.070
	5	26.59	7.10	7.80	97.20	0.070
0	26.76	7.08	7.90	98.75	0.070	
25-Sep	100	6.45	6.07	1.86	15.12	0.082
	95	6.52	5.99	1.74	14.17	0.081
	90	6.85	5.94	1.63	13.39	0.080
	85	7.25	5.93	1.87	15.51	0.080
	80	7.84	5.94	2.13	17.92	0.080
	75	8.35	5.93	1.97	16.78	0.080
	70	8.91	5.93	1.11	9.59	0.080
	65	9.61	5.93	0.70	6.15	0.080
	60	10.13	5.94	0.51	4.53	0.080
	55	11.17	5.96	1.16	10.56	0.079
	50	13.18	6.00	0.98	9.34	0.079
	45	14.80	6.03	0.87	8.59	0.078
	40	17.25	6.07	0.04	0.42	0.079
	35	19.13	6.27	4.17	45.08	0.081
	30	21.20	6.49	5.98	67.36	0.072
25	21.46	6.71	7.31	82.75	0.071	
20	21.48	6.79	7.49	84.82	0.071	
15	21.48	6.86	7.55	85.50	0.071	
10	21.48	6.89	7.58	85.84	0.071	
5	21.46	6.93	7.68	86.94	0.071	
0	21.46	6.95	7.63	86.38	0.071	
24-Oct	95	7.28	6.14	0.13	1.10	0.083
	90	7.47	6.07	0.00	0.00	0.082
	85	7.81	6.04	0.00	0.00	0.082
	80	8.28	6.03	0.00	0.00	0.083
	75	8.96	6.05	0.00	0.00	0.084
	70	9.63	6.07	0.00	0.00	0.083
	65	10.86	6.09	0.00	0.00	0.082
	60	12.46	6.26	2.31	21.60	0.082
	55	13.35	6.48	5.53	52.90	0.080
	50	14.68	6.56	5.57	54.80	0.076
	45	14.86	6.60	6.07	60.00	0.076
	40	14.97	6.64	6.30	62.40	0.076
35	14.98	6.67	6.41	63.50	0.076	
30	15.01	6.73	6.53	64.70	0.076	
25	15.06	6.74	6.61	65.70	0.076	

		20	15.11	6.77	6.91	68.70	0.075	
		15	15.16	6.81	7.12	70.90	0.075	
		10	15.32	6.84	7.15	71.40	0.075	
		5	15.40	6.89	7.50	75.00	0.075	
		0	12.79	7.21	9.03	85.30	0.099	
		0	15.53	6.90	7.83	78.60	0.075	
BZ4	24-Apr	0	12.32	7.58	*	*	0.036	
	24-May	0	16.72	8.55	10.40	#####	0.035	
	14-Jun	0	23.04	7.04	7.80	91.01	0.037	
	17-Jul	0	10.74	6.75	11.20	#####	0.040	
	7-Aug	0	10.80	6.30	9.86	89.02	0.045	
	25-Sep	0	13.29	6.69	8.33	79.58	0.065	
	24-Oct	0	12.81	7.10	8.12	76.70	0.047	
BZ5	24-Apr	0	14.60	6.98	*	*	0.090	
	24-May	0	13.35	8.20	9.63	92.13	0.088	
	14-Jun	0	18.27	6.86	8.10	86.05	0.082	
	17-Jul	0	24.04	6.93	7.14	84.91	0.078	
	7-Aug	0	20.87	6.58	7.08	79.24	0.091	
	25-Sep	0	16.79	6.75	7.82	80.57	0.079	
	24-Oct	0	12.79	7.21	9.03	85.30	0.099	
24-Apr		122	5.07	6.87	*	*	0.081	
		120	5.11	6.77	*	*	0.081	
		115	5.14	6.76	*	*	0.083	
		110	5.24	6.77	*	*	0.082	
		105	5.26	6.76	*	*	0.081	
		100	5.32	6.77	*	*	0.081	
		95	5.36	6.77	*	*	0.081	
		90	5.39	6.77	*	*	0.081	
		85	5.46	6.77	*	*	0.087	
		80	5.47	6.78	*	*	0.081	
		75	5.57	6.79	*	*	0.081	
		70	5.67	6.79	*	*	0.081	
		65	5.81	6.80	*	*	0.081	
		60	5.92	6.82	*	*	0.080	
		55	6.21	6.84	*	*	0.080	
		50	6.47	6.86	*	*	0.081	
		45	6.59	6.88	*	*	0.080	
		40	6.94	6.91	*	*	0.080	
		35	7.17	6.93	*	*	0.080	
		30	7.56	6.97	*	*	0.080	
		25	8.08	7.08	*	*	0.080	
		20	8.33	7.03	*	*	0.079	
		15	8.62	7.07	*	*	0.079	
		10	8.79	7.10	*	*	0.080	
		5	9.22	7.13	*	*	0.079	
		0	10.62	7.20	*	*	0.080	
			124	5.58	7.60	9.19	73.09	0.078
			120	5.57	7.52	7.80	62.02	0.079
			115	5.59	7.49	8.17	64.99	0.079
			110	5.57	7.45	9.33	74.18	0.078
			105	5.61	7.39	9.29	73.94	0.078
			100	5.60	7.33	9.40	74.80	0.078

24-May	95	5.63	7.29	9.48	75.49	0.078
	90	5.94	7.27	9.11	73.12	0.078
	85	6.07	7.26	8.78	70.70	0.078
	80	6.21	7.26	8.88	71.76	0.078
	75	6.45	7.26	8.91	72.44	0.078
	70	6.61	7.24	8.82	72.00	0.078
	65	6.74	7.23	8.80	72.07	0.077
	60	6.93	7.23	9.09	74.79	0.077
	55	7.04	7.22	9.06	74.75	0.077
	51	7.12	7.22	9.03	74.65	0.077
	45	7.48	7.22	8.92	74.40	0.077
	40	8.39	7.25	9.02	76.93	0.077
	35	9.64	7.29	9.37	82.34	0.076
	30	10.88	7.35	9.72	87.93	0.076
	25	12.45	7.40	9.87	92.54	0.076
	20	14.99	7.45	9.09	90.14	0.075
	15	16.64	7.49	8.58	88.12	0.076
	10	17.42	7.54	8.64	90.19	0.076
	5	17.61	7.58	8.65	90.65	0.076
	0	18.22	7.59	8.71	92.43	0.076
14-Jun	126	5.70	6.31	6.80	54.25	0.080
	120	5.71	6.26	7.04	56.17	0.079
	115	5.72	6.24	7.03	56.11	0.079
	110	5.75	6.22	7.08	56.55	0.079
	105	5.76	6.20	7.11	56.81	0.079
	100	5.82	6.19	7.49	59.93	0.079
	95	6.03	6.19	7.71	62.02	0.078
	90	6.17	6.18	8.13	65.63	0.078
	85	6.36	6.19	8.24	66.84	0.078
	80	6.60	6.20	8.48	69.20	0.078
	75	6.86	6.20	8.38	68.83	0.078
	70	7.20	6.21	7.95	65.85	0.078
	65	7.37	6.21	8.17	67.96	0.078
	60	7.52	6.21	8.21	68.55	0.078
	55	7.93	6.23	8.31	70.08	0.077
	50	8.61	6.26	8.46	72.53	0.077
	45	9.20	6.29	8.57	74.52	0.077
	40	11.30	6.35	8.24	75.27	0.077
	40	11.82	6.37	7.85	72.56	0.078
	35	13.82	6.39	7.72	74.63	0.079
30	15.68	6.45	8.14	81.92	0.078	
25	17.09	6.60	9.22	95.59	0.075	
20	17.97	6.88	9.50	#####	0.076	
15	18.99	7.10	9.62	#####	0.076	
10	23.93	7.06	8.40	99.68	0.076	
5	24.08	7.07	8.37	99.61	0.076	
0	24.48	7.08	8.41	#####	0.076	
	123	5.83	5.96	5.37	42.98	0.077
	120	5.83	5.92	5.78	46.26	0.077
	115	5.84	5.92	5.90	47.23	0.077
	110	5.86	5.91	5.92	47.42	0.076
	105	5.88	5.91	6.07	48.64	0.076

BZ6

17-Jul

100	5.91	5.90	6.09	48.84	0.076
95	6.02	5.91	6.45	51.87	0.076
90	6.32	5.93	7.02	56.89	0.075
85	6.50	5.95	7.15	58.20	0.075
80	6.85	5.95	7.40	60.77	0.075
75	7.24	5.96	7.39	61.27	0.074
70	7.85	5.97	7.34	61.78	0.074
65	8.36	5.98	7.40	63.06	0.074
60	8.48	5.99	7.44	63.59	0.074
55	9.44	5.99	7.28	63.67	0.074
50	10.85	5.99	6.75	61.02	0.074
45	13.70	6.01	6.24	60.16	0.075
40	15.95	6.09	6.71	67.92	0.074
35	17.75	6.22	7.48	78.62	0.072
30	19.99	6.42	8.66	95.24	0.071
25	22.58	6.48	8.37	96.82	0.070
20	23.54	6.71	8.18	96.36	0.070
15	23.65	6.97	8.28	97.74	0.070
10	23.76	7.18	8.40	99.36	0.070
5	24.07	7.27	8.50	#####	0.070
0	24.29	7.28	8.44	#####	0.070

7-Aug

115	5.98	6.10	4.92	39.53	0.080
110	5.96	5.97	5.02	40.31	0.079
105	6.00	5.90	5.11	41.08	0.079
100	6.11	5.86	5.21	42.00	0.078
95	6.18	5.84	5.56	44.90	0.078
90	6.37	5.83	5.85	47.47	0.077
85	6.68	5.83	6.28	51.35	0.077
80	6.99	5.81	6.18	50.93	0.077
75	7.35	5.80	6.06	50.38	0.076
70	7.86	5.79	5.70	47.99	0.077
65	8.48	5.78	5.47	46.75	0.076
60	8.81	5.79	5.74	49.45	0.076
55	9.33	5.80	5.84	50.94	0.076
50	10.00	5.80	5.65	50.07	0.076
45	11.66	5.80	5.24	48.26	0.076
40	13.35	5.82	4.57	43.72	0.077
35	15.70	5.89	4.83	48.63	0.076
30	18.15	5.94	5.28	55.95	0.074
25	21.02	6.06	6.18	69.36	0.074
20	23.55	6.15	6.36	74.94	0.071
15	24.71	6.56	7.61	91.63	0.070
10	25.30	6.89	7.89	96.04	0.070
5	25.90	7.48	8.00	98.45	0.070
0	26.50	7.25	7.82	97.29	0.070

120	6.21	5.97	0.58	4.69	0.089
115	6.17	5.93	0.32	2.58	0.081
111	6.15	5.88	0.90	7.26	0.081
105	6.29	5.87	1.30	10.53	0.080
100	6.37	5.86	2.10	17.04	0.080
95	6.52	5.86	2.51	20.44	0.079
90	6.73	5.88	2.99	24.48	0.079

25-Sep	85	7.01	5.89	3.34	27.54	0.079
	80	7.54	5.90	3.35	27.98	0.079
	75	8.13	5.91	2.71	22.97	0.079
	70	8.69	5.91	1.98	17.01	0.079
	65	9.38	5.92	1.82	15.89	0.079
	60	10.68	5.96	2.04	18.37	0.078
	55	11.66	5.97	1.73	15.93	0.078
	50	13.38	5.99	0.94	9.00	0.078
	45	15.78	6.02	0.21	2.12	0.078
	40	17.88	6.03	0.00	0.00	0.078
	35	19.17	6.12	0.67	7.25	0.079
	30	19.84	6.15	0.60	6.58	0.078
	25	21.04	6.35	3.52	39.52	0.073
	20	21.57	6.63	7.04	79.87	0.071
	15	21.53	6.77	7.17	81.28	0.071
	10	21.55	6.83	7.48	84.83	0.071
	5	21.58	6.90	7.57	85.90	0.071
0	21.56	6.93	7.67	87.00	0.071	
24-Oct	124	6.34	6.46	0.00	0.00	0.088
	120	6.34	6.47	0.00	0.00	0.083
	115	6.34	6.32	0.00	0.00	0.083
	111	6.38	6.21	0.00	0.00	0.081
	105	6.38	6.15	0.02	0.20	0.081
	100	6.48	6.09	0.41	3.30	0.081
	95	6.80	6.08	1.07	8.70	0.080
	90	7.18	6.07	1.45	12.00	0.080
	85	7.62	6.07	1.52	12.70	0.080
	80	8.58	6.06	0.31	2.60	0.081
	75	9.23	6.07	0.00	0.00	0.081
	70	9.81	6.08	0.00	0.00	0.081
	65	10.93	6.10	0.00	0.00	0.081
	60	12.75	6.14	0.00	0.00	0.080
	55	13.85	6.27	2.19	21.20	0.079
	50	14.47	6.37	3.87	38.00	0.077
	45	14.57	6.47	4.83	47.50	0.077
40	14.81	6.52	5.35	52.90	0.076	
35	15.03	6.69	6.72	66.70	0.076	
35	15.13	6.76	7.05	70.20	0.075	
30	15.11	6.74	6.84	68.00	0.075	
20	15.17	6.79	7.14	71.10	0.075	
15	15.17	6.83	7.23	72.00	0.075	
10	15.27	6.84	7.38	73.60	0.075	
5	15.32	6.90	7.47	74.60	0.075	
0	15.45	6.93	7.86	78.70	0.075	
24-Apr	50	6.94	6.84	*	*	0.080
	45	7.05	6.84	*	*	0.080
	40	7.27	6.84	*	*	0.080
	35	8.42	6.89	*	*	0.084
	30	9.91	6.97	*	*	0.084
	25	10.87	7.06	*	*	0.078
	20	12.01	7.15	*	*	0.076
15	12.60	7.18	*	*	0.077	

BZ7

	10	12.99	7.21	*	*	0.076
	5	13.45	7.24	*	*	0.077
	0	15.40	7.27	*	*	0.085
24-May	50	7.90	7.38	9.57	80.65	0.078
	45	8.10	7.31	9.34	79.10	0.078
	40	8.59	7.28	9.16	78.50	0.078
	35	11.18	7.28	8.71	79.34	0.081
	30	13.50	7.29	8.75	83.99	0.084
	25	15.13	7.34	8.93	88.82	0.079
	20	16.00	7.38	9.44	95.65	0.076
	15	16.57	7.45	9.75	99.99	0.076
	10	17.00	7.47	9.83	#####	0.076
	5	17.38	7.51	9.70	#####	0.076
0	18.03	7.54	9.59	#####	0.076	
14-Jun	50	8.41	6.56	6.19	52.82	0.080
	45	8.42	6.42	6.27	53.51	0.079
	40	8.55	6.33	6.42	54.96	0.079
	35	9.32	6.29	6.27	54.68	0.079
	30	11.82	6.27	5.96	55.09	0.081
	25	15.31	6.34	6.17	61.61	0.083
	20	17.03	6.46	6.66	68.96	0.082
	15	17.96	6.66	7.68	81.07	0.077
	10	19.74	7.34	7.99	87.44	0.074
	5	20.88	7.92	8.40	94.02	0.073
0	21.62	7.84	8.24	93.57	0.071	
17-Jul	50	11.24	6.06	3.62	33.02	0.078
	45	12.81	6.06	3.45	32.61	0.078
	40	15.04	6.09	3.47	34.45	0.078
	35	16.26	6.05	4.12	41.98	0.076
	30	17.40	6.09	4.51	47.06	0.076
	25	20.19	6.39	6.91	76.30	0.081
	20	21.51	6.47	7.17	81.25	0.078
	15	24.44	6.65	7.56	90.57	0.071
	10	25.07	7.07	7.95	96.36	0.070
	5	25.35	7.43	8.17	99.54	0.070
0	25.49	7.53	8.25	#####	0.070	
7-Aug	50	11.66	5.80	1.41	12.99	0.082
	45	14.66	5.80	1.31	12.90	0.081
	40	16.42	5.81	1.80	18.40	0.080
	35	17.98	5.83	2.60	27.46	0.079
	30	18.76	5.87	3.09	33.16	0.078
	25	20.70	5.99	4.22	47.07	0.079
	20	22.79	6.21	5.78	67.13	0.082
	15	24.84	6.45	6.82	82.32	0.073
	10	27.37	7.02	7.49	94.65	0.070
	5	27.48	7.16	7.45	94.33	0.070
0	27.52	7.26	7.79	98.71	0.070	
	50	14.17	6.27	0.03	0.29	0.088
	45	17.88	6.42	4.59	48.38	0.091
	40	19.34	6.60	6.61	71.76	0.089
	35	20.21	6.67	6.82	75.34	0.084
	30	20.65	6.68	6.55	72.99	0.080

25-Sep	25	21.21	6.63	6.03	67.93	0.074
	20	21.49	6.72	6.81	77.14	0.071
	15	21.53	6.77	6.87	77.88	0.071
	10	21.52	6.80	7.03	79.68	0.071
	5	21.52	6.84	6.94	78.66	0.071
	0	21.50	6.85	7.08	80.21	0.072
24-Oct	50	13.83	6.86	8.58	83.00	0.087
	45	14.26	6.87	8.77	85.60	0.082
	40	14.67	6.88	8.54	84.10	0.078
	35	14.80	6.86	8.39	82.80	0.076
	30	14.86	6.85	8.37	82.80	0.076
	25	14.94	6.85	8.37	82.90	0.076
	20	15.04	6.87	8.47	84.10	0.076
	15	15.14	6.89	8.38	83.40	0.075
	10	15.39	6.92	8.94	89.40	0.075
	5	15.64	7.00	9.39	94.50	0.075
0	15.94	7.07	9.51	96.20	0.072	

Dissolved Oxygen was not sampled in April due to a probe malfunction

Table 3-2. Summary of surface, middle, and bottom water quality															
STATION	DATE	NH3	NO2	NO3	PO4	TKN	TP	TDS	TSS	BOD5	ALK	CHL_A	TIC	TOC	
BZ-1S	24-Apr	< 0.30	< 0.005	< 0.100	< 0.05	< 0.30	< 0.05	28	8.0	< 3.0	10.0	2.3	< 5	< 5	
BZ-1S	24-May	< 0.10	< 0.005	< 0.700	< 0.05	< 0.10	< 0.05	96	2.0	< 3.0	8.0	1.5	< 5	< 5	
BZ-1S	14-Jun	< 0.10	< 0.005	< 0.100	< 0.05	< 4.30	< 0.05	82	6.0	< 2.0	10.0	4.8	< 5	< 5	
BZ-1S	17-Jul	< 0.10	< 0.008	< 0.400	< 0.05	< 0.23	< 0.05	80	2.0	< 1.0	10.0	3.2	< 5	< 5	
BZ-1S	7-Aug	< 0.10	< 0.100	< 0.700	< 0.05	< 0.42	< 0.05	38	1.0	< 2.0	14.0	1.7	< 5	< 5	
BZ-1S	25-Sep	< 0.10	< 0.100	< 0.500	< 0.05	< 0.20	< 0.05	105	4.0	< 2.0	16.0	0.9	< 5	< 5	
BZ-1S	24-Oct	< 0.10	< 0.500	< 0.500	< 0.16	< 1.00	< 0.07	64	< 1.0	< 2.0	10.0	2.6	< 5	< 5	
Mean		0.13	0.103	0.429	0.07	0.94	0.05	70	3.4	2.1	11.1	2.4	5	5	
Maximum		0.30	0.500	0.700	0.16	4.30	0.07	105	8.0	3.0	16.0	4.8	5	5	
Minimum		0.10	0.005	0.100	0.05	0.10	0.05	28	1.0	1.0	8.0	0.9	5	5	
Std. Dev		0.08	0.180	0.250	0.04	1.51	0.01	29	2.7	0.7	2.8	1.3	5	5	
No. of D		1.00	1.000	5.000	1.00	4.00	1.00	7	6.0	1.0	7.0	7.0	5	5	
BZ-2S	24-Apr	< 0.20	< 0.005	< 0.100	< 0.05	< 0.10	< 0.05	< 10	< 14.0	< 3.0	6.0	0.6	< 5	< 5	
BZ-2S	24-May	< 0.10	< 0.005	< 0.400	< 0.05	< 0.10	< 0.05	72	< 1.0	< 3.0	6.0	0.2	< 5	< 5	
BZ-2S	14-Jun	< 0.10	< 0.005	< 0.100	< 0.05	< 5.40	< 0.05	58	9.0	< 2.0	8.0	2.1	< 5	< 5	
BZ-2S	17-Jul	< 0.10	< 0.005	< 0.300	< 0.05	< 0.45	< 0.05	84	3.0	< 1.0	10.0	0.2	< 5	< 5	
BZ-2S	7-Aug	< 0.10	< 0.100	< 0.300	< 1.20	< 0.74	< 0.05	28	6.0	< 2.0	10.0	0.3	< 5	< 5	
BZ-2S	25-Sep	< 0.10	< 0.100	< 0.200	< 0.07	< 0.20	< 0.05	66	4.0	< 1.0	10.0	0.8	< 5	< 5	
BZ-2S	24-Oct	< 0.10	< 0.500	< 0.500	< 0.07	< 1.00	< 0.05	56	< 1.0	< 2.0	10.0	0.1	< 5	< 5	
Mean		0.11	0.103	0.271	0.22	1.14	0.05	53	5.4	2.0	8.6	0.6	5	5	
Maximum		0.20	0.500	0.500	1.20	5.40	0.05	84	14.0	3.0	10.0	2.1	5	5	
Minimum		0.10	0.005	0.100	0.05	0.10	0.05	10	1.0	1.0	6.0	0.1	5	5	
Std. Dev		0.04	0.181	0.150	0.43	1.91	0.00	26	4.7	0.8	1.9	0.7	5	5	
No. of D		4.00	0.000	4.000	3.00	4.00	0.00	6	5.0	1.0	7.0	7.0	5	5	
BZ-3S	24-Apr	< 0.10	< 0.005	< 0.100	< 0.05	< 0.20	< 0.05	18	7.0	< 3.0	8.0	2.9	< 5	< 5	
BZ-3S	24-May	< 0.10	< 0.005	< 0.600	< 0.05	< 0.10	< 0.05	70	3.0	< 3.0	6.0	1.1	< 5	< 5	
BZ-3S	14-Jun	< 0.10	< 0.006	< 0.100	< 0.05	< 5.70	< 0.05	72	5.0	< 2.0	9.0	2.4	< 5	< 5	
BZ-3S	17-Jul	< 0.10	< 0.005	< 0.400	< 0.05	< 0.58	< 0.05	92	9.0	< 1.0	11.0	3.2	< 5	< 5	
BZ-3S	7-Aug	< 0.10	< 0.100	< 0.400	< 0.05	< 1.18	< 0.05	16	7.0	< 2.0	11.0	4.2	< 5	< 5	
BZ-3S	25-Sep	< 0.10	< 0.100	< 0.200	< 0.05	< 0.20	< 0.05	52	1.0	< 3.0	12.0	12.3	< 5	< 5	
BZ-3S	24-Oct	< 0.10	< 0.500	< 0.500	< 0.06	< 1.00	< 0.05	80	< 1.0	< 2.0	12.0	3.0	< 5	< 5	
Mean		0.10	0.103	0.329	0.05	1.28	0.05	57	4.7	2.3	9.9	4.2	5	5	
Maximum		0.10	0.500	0.600	0.06	5.70	0.05	92	9.0	3.0	12.0	12.3	5	5	
Minimum		0.10	0.005	0.100	0.05	0.10	0.05	16	1.0	1.0	6.0	1.1	5	5	
Std. Dev		0.00	0.181	0.198	0.00	1.99	0.00	30	3.1	0.8	2.3	3.7	5	5	
No. of D		2.00	2.000	5.000	1.00	4.00	0.00	7	6.0	1.0	7.0	7.0	5	5	
BZ-3M	24-Apr	< 0.10	< 0.005	< 0.100	< 0.05	< 0.40	< 0.05	< 10	< 3.0	< 3.0	8.0	2.7	< 5	< 5	
BZ-3M	24-May	< 0.10	< 0.005	< 0.600	< 0.05	< 0.10	< 0.05	76	7.0	< 3.0	6.0	1.0	< 5	< 5	
BZ-3M	14-Jun	< 0.10	< 0.005	< 0.100	< 0.05	< 3.40	< 0.05	74	5.0	< 2.0	9.0	8.5	< 5	< 5	
BZ-3M	17-Jul	< 0.10	< 0.005	< 0.500	< 0.05	< 0.53	< 0.05	104	5.0	< 1.0	12.0	1.2	< 5	< 5	
BZ-3M	7-Aug	< 0.10	< 0.100	< 0.700	< 0.05	< 0.53	< 0.05	34	< 1.0	< 2.0	10.0	1.4	< 5	< 5	
BZ-3M	25-Sep	< 0.10	< 0.100	< 0.500	< 0.06	< 0.20	< 0.05	61	4.0	< 1.0	12.0	0.8	< 5	< 5	
BZ-3M	24-Oct	< 0.10	< 0.500	< 0.500	< 0.08	< 1.00	< 0.05	84	< 1.0	< 2.0	16.0	2.1	< 5	< 5	
Mean		0.10	0.103	0.429	0.06	0.88	0.05	63	3.7	2.0	10.4	2.5	5	5	
Maximum		0.10	0.500	0.700	0.08	3.40	0.05	104	7.0	3.0	16.0	8.5	5	5	
Minimum		0.10	0.005	0.100	0.05	0.10	0.05	10	1.0	1.0	6.0	0.8	5	5	
Std. Dev		0.00	0.181	0.236	0.01	1.15	0.00	32	2.2	0.8	3.3	2.7	5	5	
No. of D		0.00	2.000	5.000	2.00	4.00	0.00	6	5.0	1.0	7.0	7.0	5	5	
BZ-3B	24-Apr	< 0.10	< 0.005	< 0.100	< 0.05	< 0.20	< 0.05	< 10	< 8.0	< 3.0	9.0	1.6	< 5	< 5	
BZ-3B	24-May	< 0.10	< 0.005	< 0.600	< 0.05	< 0.10	< 0.05	76	8.0	< 3.0	12.0	0.5	< 5	< 5	
BZ-3B	14-Jun	< 0.10	< 0.005	< 0.100	< 0.05	< 1.90	< 0.05	74	11.0	< 2.0	9.0	0.9	< 5	< 5	
BZ-3B	17-Jul	< 0.10	< 0.008	< 0.300	< 0.05	< 0.37	< 0.05	90	8.0	< 1.0	11.0	0.8	< 5	< 5	
BZ-3B	7-Aug	< 0.10	< 0.100	< 0.700	< 0.05	< 0.36	< 0.05	42	4.0	< 2.0	12.0	0.8	< 5	< 5	
BZ-3B	25-Sep	< 0.10	< 0.100	< 0.500	< 0.05	< 0.20	< 0.05	65	11.0	< 1.0	14.0	0.8	< 5	< 5	
BZ-3B	24-Oct	< 0.10	< 0.500	< 0.500	< 0.07	< 1.00	< 0.05	70	36.0	< 2.0	12.0	0.8	< 5	< 5	
Mean		0.10	0.103	0.400	0.05	0.59	0.05	61	12.3	2.0	11.3	0.9	5	5	
Maximum		0.10	0.500	0.700	0.07	1.90	0.05	90	36.0	3.0	14.0	1.6	5	5	
Minimum		0.10	0.005	0.100	0.05	0.10	0.05	10	4.0	1.0	9.0	0.5	5	5	
Std. Dev		0.00	0.180	0.238	0.01	0.65	0.00	27	10.7	0.8	1.8	0.3	5	5	
No. of D		1.00	3.000	5.000	2.00	4.00	0.00	6	7.0	1.0	7.0	7.0	5	5	

BZ-4S	24-Apr	<	0.10	<	0.005	<	0.100	<	0.05	<	0.40	<	0.05	<	10	<	5.0	<	3.0	<	5.0	<	1.9	<	5	<	5
BZ-4S	24-May	<	0.10	<	0.005	<	0.300	<	0.05	<	0.10	<	0.05	<	54	<	4.0	<	3.0	<	10.0	<	11.7	<	5	<	5
BZ-4S	14-Jun	<	0.10	<	0.005	<	0.100	<	0.05	<	5.90	<	0.05	<	42	<	4.0	<	2.0	<	7.0	<	1.1	<	5	<	5
BZ-4S	17-Jul	<	0.10	<	0.005	<	0.400	<	0.05	<	0.43	<	0.05	<	80	<	1.0	<	2.0	<	8.0	<	0.8	<	5	<	5
BZ-4S	7-Aug	<	0.10	<	0.100	<	0.200	<	0.05	<	0.38	<	0.05	<	40	<	9.0	<	6.0	<	10.0	<	1.3	<	5	<	5
BZ-4S	25-Sep	<	0.10	<	0.100	<	0.500	<	0.05	<	0.20	<	0.05	<	52	<	7.0	<	5.0	<	18.0	<	0.7	<	5	<	5
BZ-4S	24-Oct	<	0.10	<	0.500	<	0.500	<	0.07	<	1.00	<	0.05	<	72	<	1.0	<	2.0	<	10.0	<	0.9	<	5	<	5
Mean			0.10		0.103		0.300		0.05		1.20		0.05		50		4.4		3.3		9.7		2.6		5		5
Maximum			0.10		0.500		0.500		0.07		5.90		0.05		80		9.0		6.0		18.0		11.7		5		5
Minimum			0.10		0.005		0.100		0.05		0.10		0.05		10		1.0		2.0		5.0		0.7		5		5
Std. Dev			0.00		0.181		0.173		0.01		2.09		0.00		23		2.9		1.6		4.1		4.0		5		5
No. of D			1.00		1.000		4.000		1.00		5.00		0.00		7		6.0		2.0		7.0		7.0		5		5
BZ-5S	24-Apr	<	0.10	<	0.005	<	0.200	<	0.06	<	0.20	<	0.05	<	82	<	10.0	<	3.0	<	11.0	<	2.0	<	5	<	5
BZ-5S	24-May	<	0.10	<	0.025	<	1.000	<	0.05	<	0.10	<	0.05	<	82	<	6.0	<	3.0	<	10.0	<	1.2	<	5	<	5
BZ-5S	14-Jun	<	0.10	<	0.007	<	0.100	<	0.05	<	2.90	<	0.05	<	72	<	13.0	<	2.0	<	6.0	<	1.1	<	5	<	5
BZ-5S	17-Jul	<	0.10	<	0.011	<	0.500	<	0.11	<	0.40	<	0.05	<	86	<	6.0	<	2.0	<	13.0	<	14.8	<	5	<	5
BZ-5S	7-Aug	<	0.10	<	0.100	<	1.200	<	0.07	<	0.40	<	0.05	<	44	<	1.0	<	2.0	<	13.0	<	1.0	<	5	<	5
BZ-5S	25-Sep	<	0.10	<	0.100	<	0.800	<	0.28	<	0.20	<	0.10	<	89	<	73.0	<	1.0	<	20.0	<	3.1	<	5	<	5
BZ-5S	24-Oct	<	0.10	<	0.500	<	0.800	<	0.07	<	1.00	<	0.05	<	92	<	1.0	<	2.0	<	14.0	<	0.6	<	5	<	5
Mean			0.10		0.107		0.657		0.10		0.74		0.06		78		15.7		2.1		12.4		3.4		5		5
Maximum			0.10		0.500		1.200		0.28		2.90		0.10		92		73.0		3.0		20.0		14.8		5		5
Minimum			0.10		0.005		0.100		0.05		0.10		0.05		44		1.0		1.0		6.0		0.6		5		5
Std. Dev			0.00		0.178		0.408		0.08		1.00		0.02		16		25.6		0.7		4.3		5.1		5		5
No. of D			2.00		3.000		7.000		5.00		4.00		1.00		7		5.0		1.0		7.0		7.0		5		5
BZ-6S	24-Apr	<	0.10	<	0.005	<	0.100	<	0.05	<	0.30	<	0.05	<	86	<	1.0	<	3.0	<	5.0	<	1.9	<	5	<	5
BZ-6S	24-May	<	0.10	<	0.006	<	0.600	<	0.05	<	0.10	<	0.05	<	90	<	6.0	<	3.0	<	12.0	<	2.0	<	5	<	5
BZ-6S	14-Jun	<	0.10	<	0.007	<	0.100	<	0.05	<	9.20	<	0.05	<	36	<	10.0	<	2.0	<	9.0	<	2.5	<	5	<	5
BZ-6S	17-Jul	<	0.10	<	0.006	<	0.400	<	0.05	<	0.43	<	0.05	<	92	<	1.0	<	2.0	<	10.0	<	5.4	<	5	<	5
BZ-6S	7-Aug	<	0.10	<	0.100	<	0.400	<	0.05	<	0.53	<	0.05	<	28	<	4.0	<	2.0	<	11.0	<	3.6	<	5	<	5
BZ-6S	25-Sep	<	0.10	<	0.100	<	0.200	<	0.05	<	0.20	<	0.05	<	53	<	2.0	<	1.0	<	10.0	<	8.8	<	5	<	5
BZ-6S	24-Oct	<	0.10	<	0.500	<	0.500	<	0.07	<	1.00	<	0.05	<	66	<	1.0	<	2.0	<	12.0	<	3.9	<	5	<	5
Mean			0.10		0.103		0.329		0.05		1.68		0.05		64		3.6		2.1		9.9		4.0		5		5
Maximum			0.10		0.500		0.600		0.07		9.20		0.05		92		10.0		3.0		12.0		8.8		5		5
Minimum			0.10		0.005		0.100		0.05		0.10		0.05		28		1.0		1.0		5.0		1.9		5		5
Std. Dev			0.00		0.180		0.198		0.01		3.33		0.00		26		3.4		0.7		2.4		2.4		5		5
No. of D			0.00		3.000		5.000		1.00		4.00		0.00		7		6.0		0.0		7.0		7.0		5		5
BZ-6M	24-Apr	<	0.10	<	0.005	<	0.500	<	0.05	<	0.30	<	0.05	<	104	<	1.0	<	3.0	<	8.0	<	1.8	<	5	<	5
BZ-6M	24-May	<	0.10	<	0.005	<	0.700	<	0.05	<	0.10	<	0.05	<	92	<	3.0	<	3.0	<	10.0	<	0.8	<	5	<	5
BZ-6M	14-Jun	<	0.20	<	0.005	<	0.100	<	0.05	<	2.90	<	0.05	<	32	<	15.0	<	2.0	<	10.0	<	2.9	<	5	<	5
BZ-6M	17-Jul	<	0.10	<	0.008	<	0.600	<	0.05	<	0.34	<	0.05	<	110	<	6.0	<	2.0	<	10.0	<	2.0	<	5	<	5
BZ-6M	7-Aug	<	0.28	<	0.100	<	0.700	<	0.05	<	0.30	<	0.05	<	22	<	1.0	<	2.0	<	12.0	<	1.9	<	5	<	5
BZ-6M	25-Sep	<	0.10	<	0.100	<	0.600	<	0.05	<	0.20	<	0.05	<	51	<	3.0	<	1.0	<	12.0	<	9.2	<	5	<	5
BZ-6M	24-Oct	<	0.10	<	0.500	<	0.500	<	0.08	<	1.00	<	0.05	<	56	<	2.0	<	2.0	<	10.0	<	2.4	<	5	<	5
Mean			0.14		0.103		0.529		0.05		0.73		0.05		67		4.4		2.1		10.3		3.0		5		5
Maximum			0.28		0.500		0.700		0.08		2.90		0.05		110		15.0		3.0		12.0		9.2		5		5
Minimum			0.10		0.005		0.100		0.05		0.10		0.05		22		1.0		1.0		8.0		0.8		5		5
Std. Dev			0.07		0.180		0.206		0.01		1.00		0.00		35		5.0		0.7		1.4		2.8		5		5
No. of D			2.00		1.000		5.000		1.00		4.00		0.00		7		5.0		0.0		7.0		7.0		5		5
BZ-6B	24-Apr	<	0.10	<	0.005	<	0.200	<	0.05	<	0.30	<	0.05	<	80	<	3.0	<	3.0	<	10.0	<	1.3	<	5	<	5
BZ-6B	24-May	<	0.10	<	0.005	<	0.600	<	0.05	<	0.10	<	0.05	<	80	<	2.0	<	3.0	<	10.0	<	0.6	<	5	<	5
BZ-6B	14-Jun	<	0.10	<	0.005	<	0.100	<	0.05	<	4.10	<	0.05	<	44	<	20.0	<	2.0	<	9.0	<	1.1	<	5	<	5
BZ-6B	17-Jul	<	0.10	<	0.010	<	0.300	<	0.05	<	0.11	<	0.05	<	38	<	4.0	<	2.0	<	11.0	<	1.2	<	5	<	5
BZ-6B	7-Aug	<	0.12	<	0.100	<	0.700	<	0.06	<	0.28	<	0.05	<	22	<	1.0	<	2.0	<	12.0	<	1.0	<	5	<	5
BZ-6B	25-Sep	<	0.10	<	0.100	<	0.400	<	2.43	<	0.20	<	1.44	<	62	<	10.0	<	5.0	<	12.0	<	1.4	<	5	<	5
BZ-6B	24-Oct	<	0.10	<	0.500	<	0.500	<	0.07	<	1.00	<	0.05	<	78	<	1.0	<	2.0	<	12.0	<	0.5	<	5	<	5
Mean			0.10		0.104		0.400		0.39		0.87		0.25		58		5.9		2.7		10.9		1.0		5		5
Maximum			0.12		0.500		0.700		2.43		4.10		1.44		80		20.0		5.0		12.0		1.4		5		5
Minimum			0.10		0.005		0.100		0.05		0.10		0.05		22		1.0		2.0		9.0		0.5		5		5
Std. Dev			0.01		0.180		0.216		0.90		1.46		0.53		23		7.0		1.1		1.2		0.3		5		5
No. of D			2.00		2.000		5.000		3.00		4.00		1.00		7		6.0		1.0		7.0		7.0		5		5
BZ-7S	24-Apr	<	0.10	<	0.005	<	0.100	<	0.06	<	0.20	<	0.05	<	74	<	8.0	<	3.0	<	5.0	<	1.4	<	5	<	5
BZ-7S	24-May	<	0.10	<	0.007	<	0.600	<	0.05	<	0.10	<	0.05	<	84	<	3.0	<	3.0	<	10.0	<	4.8	<	5	<	5
BZ-7S	14-Jun	<	0.20	<	0.006	<	0.100	<	0.05	<	5.00	<	0.05	<	40	<	8.0	<	2.0	<	9.0	<	3.3	<	5	<	5
BZ-7S	17-Jul	<	0.10	<	0.006	<	0.400</																				

Table A-1. Summary of stratification monitoring at F.E. Walters Reservoir in 2001

Station	Date	Depth (F)	Temp ©	pH	DO(mg/L)	DO (%)	Cond (mS/Cm)
WA1	24-Apr	0	13.74	7.50	*	*	0.08
	23-May	0	14.65	7.72	9.49	93.42	0.08
	13-Jun	0	18.11	8.22	8.72	92.33	0.08
	18-Jul	0	20.61	6.35	17.29	192.50	0.07
	9-Aug	0	23.72	6.63	8.03	94.92	0.09
	27-Sep	0	15.23	7.04	9.13	91.01	0.09
	23-Oct	0	10.90	7.36	9.14	82.80	0.09
WA2	24-Apr	40	9.56	7.19	*	*	0.08
		35	11.40	7.16	*	*	0.08
		30	13.03	7.17	*	*	0.08
		25	13.27	7.15	*	*	0.08
		20	13.57	7.13	*	*	0.08
		15	14.32	7.14	*	*	0.08
		10	14.87	7.14	*	*	0.08
		5	15.11	7.14	*	*	0.08
		0	15.35	7.11	*	*	0.08
	23-May	40	14.00	8.20	8.80	85.41	0.08
		35	14.09	7.98	8.70	84.60	0.08
		30	14.19	7.92	8.64	84.20	0.08
		25	14.32	7.88	8.70	85.03	0.08
		20	14.58	7.84	8.59	84.43	0.08
		15	15.92	7.74	8.45	85.48	0.08
		10	16.24	7.72	8.80	89.62	0.08
		5	16.32	7.71	8.77	89.47	0.08
	13-Jun	0	16.33	7.70	8.86	90.41	0.08
		35	17.16	7.71	7.24	75.17	0.08
		30	17.36	7.62	7.41	77.26	0.08
		25	17.92	7.54	7.37	77.73	0.08
		20	18.21	7.51	7.47	79.26	0.08
		15	19.08	7.41	7.44	80.35	0.08
		10	19.82	7.32	7.97	87.36	0.08
		5	23.43	7.31	8.15	95.81	0.08
	18-Jul	0	23.97	7.32	8.03	95.37	0.08
		30	20.15	6.24	6.70	73.92	0.08
		25	20.66	6.27	6.90	76.90	0.07
		20	21.00	6.33	6.75	75.73	0.07
		15	21.54	6.39	7.39	83.79	0.07
		10	22.01	6.50	7.58	86.73	0.07
		5	23.94	6.65	7.53	89.38	0.07
	9-Aug	0	24.44	6.75	9.98	119.57	0.07
		45	22.87	6.30	3.93	45.72	0.09
		40	22.96	6.21	4.89	56.98	0.09
		35	23.14	6.18	5.03	58.81	0.09
30		23.56	6.26	5.81	68.47	0.09	
25		24.11	6.44	6.71	79.90	0.08	
20		24.53	6.58	7.35	88.21	0.08	
15		25.24	6.65	7.19	87.43	0.08	
10		25.86	6.73	7.54	92.73	0.08	
5	27.63	6.78	7.06	89.64	0.09		
0	28.11	6.81	7.19	92.07	0.09		

	27-Sep	50	14.13	6.85	7.72	75.14	0.09
		45	14.24	6.86	7.59	74.05	0.09
		40	14.41	6.81	7.44	72.86	0.09
		35	14.72	6.78	7.30	71.97	0.09
		30	14.85	6.83	7.06	69.80	0.09
		25	14.88	6.84	7.13	70.54	0.09
		20	15.27	6.84	7.40	73.83	0.09
		15	15.68	6.87	7.37	74.18	0.09
		10	16.18	6.91	7.34	74.66	0.09
		5	16.94	6.93	7.28	75.24	0.09
	0	16.98	6.96	7.82	80.89	0.09	
	23-Oct	35	10.36	7.08	8.12	72.60	0.09
		30	10.67	7.01	8.09	72.80	0.09
		25	11.19	6.98	8.00	72.90	0.09
		20	11.30	6.96	8.04	73.50	0.09
		15	11.47	6.96	7.92	72.60	0.09
		10	11.51	6.94	8.06	73.90	0.09
5		11.63	6.94	8.15	75.00	0.09	
0	11.86	6.96	8.42	77.9	0.09		
WA3	24-Apr	0	13.47	7.56	*	*	0.12
	23-May	0	14.17	8.06	9.95	96.9	0.09
	13-Jun	0	19.17	7.18	9.51	102.9	0.09
	18-Jul	0	19.02	6.78	14.61	157.6	0.09
	9-Aug	0	21.90	7.15	8.32	95.0	0.09
	27-Sep	0	15.09	7.05	9.42	93.6	0.09
	23-Oct	0	12.53	7.26	10.07	94.6	0.09
WA4	24-Apr	0	16.11	7.55	*	*	0.07
	23-May	0	13.52	8.25	10.23	98.2	0.08
	13-Jun	0	19.56	8.20	9.48	103.4	0.07
	18-Jul	0	19.82	7.07	8.79	96.3	0.07
	9-Aug	0	22.80	7.21	8.41	97.7	0.09
	27-Sep	0	11.60	6.92	8.50	78.2	0.10
	23-Oct	0	12.91	7.24	11.04	104.6	0.08
WA5	24-Apr	0	15.00	6.83	*	*	0.09
	23-May	0	13.00	8.24	9.78	92.9	0.14
	13-Jun	0	18.29	8.22	8.34	88.6	0.07
	18-Jul	0	19.29	6.29	7.08	76.8	0.08
	9-Aug	0	23.93	6.49	5.74	68.1	0.12
	27-Sep	0	11.06	6.20	8.57	77.9	0.10
	23-Oct	0	12.50	7.32	8.25	77.5	0.10
	24-Apr	20	14.11	6.61	*	*	0.08
		15	14.78	6.59	*	*	0.08
		10	15.43	6.60	*	*	0.08
		5	15.91	6.61	*	*	0.08
		0	16.82	6.65	*	*	0.08
	23-May	25	14.47	8.39	8.75	85.8	0.08
		20	14.72	7.87	8.76	86.4	0.08
		15	15.27	7.83	8.81	87.9	0.08
		10	15.59	7.78	8.84	88.8	0.08
		5	16.40	7.72	8.81	90.0	0.08
	0	16.45	7.70	9.45	96.7	0.08	
		25	18.08	7.70	7.70	81.5	0.07

WA6	13-Jun	20	18.43	7.64	7.73	82.4	0.07
		15	19.21	7.57	7.83	84.8	0.07
		10	20.17	7.51	8.05	88.9	0.07
		5	21.36	7.40	8.27	93.4	0.08
		0	22.96	7.40	8.27	96.4	0.08
	18-Jul	20	21.31	6.47	8.49	95.8	0.07
		15	21.51	6.55	8.39	95.1	0.07
		10	22.06	6.64	7.95	91.0	0.07
		5	23.49	6.74	8.06	94.9	0.07
		0	24.02	6.79	7.76	92.2	0.07
	9-Aug	20	24.34	6.59	6.32	75.6	0.09
		15	25.29	6.67	6.64	80.8	0.09
		10	26.21	6.56	6.67	82.6	0.09
		5	27.61	6.76	6.57	83.4	0.09
		0	28.21	6.85	6.78	87.0	0.09
	27-Sep	25	15.37	6.75	7.74	77.4	0.09
		20	15.77	6.79	7.49	75.5	0.09
		15	16.21	6.83	7.20	73.3	0.09
		10	16.64	6.86	7.25	74.5	0.09
		5	17.12	6.94	7.48	77.6	0.09
23-Oct	0	17.10	6.98	8.07	83.7	0.09	
	20	12.02	7.28	8.36	77.6	0.09	
	15	12.11	7.26	8.49	79.0	0.09	
	10	12.09	7.12	8.48	78.9	0.09	
	5	12.10	7.18	8.56	79.7	0.09	
24-Apr	0	12.11	7.18	8.79	81.8	0.09	
	20	15.14	6.75	*	*	0.08	
	15	15.58	6.76	*	*	0.08	
	10	15.70	6.76	*	*	0.08	
	5	15.80	6.76	*	*	0.08	
23-May	0	15.79	6.78	*	*	0.08	
	20	14.50	8.34	9.11	89.4	0.08	
	15	15.12	7.95	8.85	88.0	0.08	
	10	15.88	7.89	8.70	87.9	0.08	
	5	16.39	7.83	8.70	88.9	0.08	
13-Jun	0	16.41	7.83	8.90	91.0	0.08	
	25	17.55	7.71	6.74	70.5	0.08	
	20	18.40	7.64	6.96	74.1	0.08	
	15	19.00	7.57	7.26	78.3	0.08	
	10	19.77	7.52	7.20	78.8	0.08	
18-Jul	5	21.78	7.46	7.92	90.2	0.08	
	0	23.19	7.43	7.73	90.5	0.08	
	22	20.26	6.80	8.89	98.3	0.08	
	20	20.75	6.61	7.55	84.3	0.07	
	15	21.31	6.56	7.69	86.8	0.07	
9-Aug	10	21.82	6.70	7.95	90.6	0.07	
	5	22.68	6.91	8.37	97.0	0.07	
	0	23.95	6.89	8.10	96.2	0.07	
	25	23.63	6.28	3.40	40.1	0.09	
	20	24.20	6.41	5.84	69.7	0.09	
WA7	9-Aug	15	25.41	6.59	6.51	79.4	0.09
		10	26.90	6.72	7.15	89.6	0.09

		5	27.78	6.91	7.24	92.2	0.09	
		0	28.33	6.94	7.26	93.3	0.09	
	27-Sep	25	13.45	6.97	8.13	78.0	0.09	
		20	14.10	6.99	7.75	75.4	0.09	
		15	16.14	7.00	7.49	76.1	0.09	
		10	16.86	6.98	7.45	76.9	0.09	
		5	16.93	6.99	7.41	76.6	0.09	
		0	16.93	7.02	7.93	81.9	0.09	
		23-Oct	21	10.63	7.15	8.25	74.2	0.09
	15		11.63	7.12	8.35	76.8	0.09	
	10		11.90	7.14	8.30	76.9	0.09	
	5		11.94	7.12	8.42	78.0	0.09	
	0		12.20	7.16	8.69	81.0	0.09	
	* Dissolved Oxygen was not sampled in April due to a probe malfunction							

Canal next to Bertch Creek

Date	Time	Temperatu (*C)
20-Jun	10:34	23.66
20-Jun	11:04	23.83
20-Jun	11:34	24.01
20-Jun	12:04	24.36
20-Jun	12:34	24.53
20-Jun	13:04	25.05
20-Jun	13:34	25.39
20-Jun	14:04	25.39
20-Jun	14:34	25.74
20-Jun	15:04	25.91
20-Jun	15:34	25.74
20-Jun	16:04	25.74
20-Jun	16:34	25.91
20-Jun	17:04	25.91
20-Jun	17:34	26.26
20-Jun	18:04	25.74
20-Jun	18:34	25.74
20-Jun	19:04	25.39
20-Jun	19:34	25.22
20-Jun	20:04	25.22
20-Jun	20:34	25.22
20-Jun	21:04	25.22
20-Jun	21:34	25.22
20-Jun	22:04	25.05
20-Jun	22:34	24.70
20-Jun	23:04	24.70
20-Jun	23:34	24.53
21-Jun	0:04	24.53
21-Jun	0:34	24.36
21-Jun	1:04	24.36
21-Jun	1:34	24.18
21-Jun	2:04	24.18
21-Jun	2:34	24.18
21-Jun	3:04	24.01
21-Jun	3:34	24.01
21-Jun	4:04	23.83
21-Jun	4:34	23.83
21-Jun	5:04	23.66
21-Jun	5:34	23.66
21-Jun	6:04	23.66
21-Jun	6:34	23.49
21-Jun	7:04	23.49
21-Jun	7:34	23.49
21-Jun	8:04	23.49
21-Jun	8:34	23.32
21-Jun	9:04	23.49
21-Jun	9:34	23.49
21-Jun	10:04	23.66
21-Jun	10:34	23.66
21-Jun	11:04	23.66

21-Jun	11:34	23.66
21-Jun	12:04	23.66
21-Jun	12:34	23.66
21-Jun	13:04	23.83
21-Jun	13:34	24.01
21-Jun	14:04	24.18
21-Jun	14:34	24.01
21-Jun	15:04	24.01
21-Jun	15:34	24.18
21-Jun	16:04	24.01
21-Jun	16:34	23.83
21-Jun	17:04	23.83
21-Jun	17:34	23.83
21-Jun	18:04	23.66
21-Jun	18:34	23.66
21-Jun	19:04	23.66
21-Jun	19:34	23.66
21-Jun	20:04	23.49
21-Jun	20:34	23.49
21-Jun	21:04	23.49
21-Jun	21:34	23.32
21-Jun	22:04	23.32
21-Jun	22:34	23.32
21-Jun	23:04	23.32
21-Jun	23:34	23.32
22-Jun	0:04	23.32
22-Jun	0:34	23.15
22-Jun	1:04	23.15
22-Jun	1:34	23.15
22-Jun	2:04	23.15
22-Jun	2:34	23.15
22-Jun	3:04	23.15
22-Jun	3:34	23.15
22-Jun	4:04	22.98
22-Jun	4:34	22.98
22-Jun	5:04	22.98
22-Jun	5:34	22.98
22-Jun	6:04	22.98
22-Jun	6:34	22.98
22-Jun	7:04	22.98
22-Jun	7:34	22.98
22-Jun	8:04	22.98
22-Jun	8:34	22.98
22-Jun	9:04	23.15
22-Jun	9:34	23.15
22-Jun	10:04	23.15
22-Jun	10:34	23.15
22-Jun	11:04	23.15
22-Jun	11:34	23.15
22-Jun	12:04	23.32
22-Jun	12:34	23.32
22-Jun	13:04	22.98

22-Jun	13:34	22.98
22-Jun	14:04	22.65
22-Jun	14:34	21.98
22-Jun	15:04	19.68
22-Jun	15:34	19.68
22-Jun	16:04	19.52
22-Jun	16:34	19.52
22-Jun	17:04	19.68
22-Jun	17:34	19.52
22-Jun	18:04	19.36
22-Jun	18:34	19.52
22-Jun	19:04	19.52
22-Jun	19:34	19.68
22-Jun	20:04	19.68
22-Jun	20:34	19.68
22-Jun	21:04	19.52
22-Jun	21:34	19.68
22-Jun	22:04	19.68
22-Jun	22:34	19.85
22-Jun	23:04	20.17
22-Jun	23:34	20.33
23-Jun	0:04	20.49
23-Jun	0:34	20.49
23-Jun	1:04	20.66
23-Jun	1:34	20.66
23-Jun	2:04	20.66
23-Jun	2:34	20.66
23-Jun	3:04	20.66
23-Jun	3:34	20.66
23-Jun	4:04	20.66
23-Jun	4:34	20.49
23-Jun	5:04	20.49
23-Jun	5:34	20.49
23-Jun	6:04	20.49
23-Jun	6:34	20.49
23-Jun	7:04	20.33
23-Jun	7:34	20.33
23-Jun	8:04	20.33
23-Jun	8:34	20.33
23-Jun	9:04	20.33
23-Jun	9:34	20.33
23-Jun	10:04	20.49
23-Jun	10:34	20.33
23-Jun	11:04	20.49
23-Jun	11:34	20.49
23-Jun	12:04	20.66
23-Jun	12:34	20.82
23-Jun	13:04	20.82
23-Jun	13:34	20.99
23-Jun	14:04	20.99
23-Jun	14:34	21.15
23-Jun	15:04	21.15

23-Jun	15:34	21.15
23-Jun	16:04	21.15
23-Jun	16:34	21.32
23-Jun	17:04	21.15
23-Jun	17:34	20.99
23-Jun	18:04	20.99
23-Jun	18:34	20.82
23-Jun	19:04	20.66
23-Jun	19:34	20.66
23-Jun	20:04	20.49
23-Jun	20:34	20.49
23-Jun	21:04	20.49
23-Jun	21:34	20.33
23-Jun	22:04	20.33
23-Jun	22:34	20.17
23-Jun	23:04	20.01
23-Jun	23:34	20.01
24-Jun	0:04	19.85
24-Jun	0:34	19.85
24-Jun	1:04	19.85
24-Jun	1:34	19.85
24-Jun	2:04	19.68
24-Jun	2:34	19.68
24-Jun	3:04	19.68
24-Jun	3:34	19.68
24-Jun	4:04	19.68
24-Jun	4:34	19.68
24-Jun	5:04	19.52
24-Jun	5:34	19.52
24-Jun	6:04	19.52
24-Jun	6:34	19.52
24-Jun	7:04	19.52
24-Jun	7:34	19.52
24-Jun	8:04	19.52
24-Jun	8:34	19.68
24-Jun	9:04	19.68
24-Jun	9:34	19.85
24-Jun	10:04	20.01
24-Jun	10:34	20.17
24-Jun	11:04	20.49
24-Jun	11:34	20.49
24-Jun	12:04	20.66
24-Jun	12:34	20.82
24-Jun	13:04	21.15
24-Jun	13:34	21.32
24-Jun	14:04	21.48
24-Jun	14:34	21.48
24-Jun	15:04	21.65
24-Jun	15:34	22.15
24-Jun	16:04	22.15
24-Jun	16:34	21.98
24-Jun	17:04	21.98

24-Jun	17:34	22.15
24-Jun	18:04	21.98
24-Jun	18:34	21.98
24-Jun	19:04	21.82
24-Jun	19:34	21.82
24-Jun	20:04	21.82
24-Jun	20:34	21.65
24-Jun	21:04	21.65
24-Jun	21:34	21.48
24-Jun	22:04	21.48
24-Jun	22:34	21.32
24-Jun	23:04	21.32
24-Jun	23:34	21.15
25-Jun	0:04	20.99
25-Jun	0:34	20.99
25-Jun	1:04	20.82
25-Jun	1:34	20.66
25-Jun	2:04	20.66
25-Jun	2:34	20.49
25-Jun	3:04	20.33
25-Jun	3:34	20.33
25-Jun	4:04	20.33
25-Jun	4:34	20.17
25-Jun	5:04	20.01
25-Jun	5:34	20.01
25-Jun	6:04	20.01
25-Jun	6:34	19.85
25-Jun	7:04	19.85
25-Jun	7:34	19.85
25-Jun	8:04	20.01
25-Jun	8:34	20.01
25-Jun	9:04	20.33
25-Jun	9:34	20.49
25-Jun	10:04	20.66
25-Jun	10:34	20.99
25-Jun	11:04	23.15
25-Jun	11:34	24.87

End of DL1

Recorded data for a minute Operator error

16-Jul	11:03	23.15
16-Jul	11:33	23.32
16-Jul	12:03	23.66
16-Jul	12:33	24.18
16-Jul	13:03	24.53
16-Jul	13:33	24.7
16-Jul	14:03	24.7
16-Jul	14:33	24.87
16-Jul	15:03	24.7
16-Jul	15:33	25.05
16-Jul	16:03	25.05
16-Jul	16:33	24.87
16-Jul	17:03	24.87
16-Jul	17:33	24.87

16-Jul	18:03	24.87
16-Jul	18:33	24.87
16-Jul	19:03	24.7
16-Jul	19:33	24.7
16-Jul	20:03	24.53
16-Jul	20:33	24.36
16-Jul	21:03	24.36
16-Jul	21:33	24.18
16-Jul	22:03	24.18
16-Jul	22:33	24.01
16-Jul	23:03	24.01
16-Jul	23:33	24.01
17-Jul	0:03	23.83
17-Jul	0:33	23.83
17-Jul	1:03	23.83
17-Jul	1:33	23.66
17-Jul	2:03	23.66
17-Jul	2:33	23.66
17-Jul	3:03	23.49
17-Jul	3:33	23.49
17-Jul	4:03	23.49
17-Jul	4:33	23.32
17-Jul	5:03	23.32
17-Jul	5:33	23.32
17-Jul	6:03	23.32
17-Jul	6:33	23.15
17-Jul	7:03	23.15
17-Jul	7:33	23.15
17-Jul	8:03	23.15
17-Jul	8:33	23.15
17-Jul	9:03	23.15
17-Jul	9:33	23.32
17-Jul	10:03	23.49
17-Jul	10:33	23.66
17-Jul	11:03	23.83
17-Jul	11:33	24.01
17-Jul	12:03	24.18
17-Jul	12:33	24.36
17-Jul	13:03	24.53
17-Jul	13:33	24.87
17-Jul	14:03	24.87
17-Jul	14:33	25.22
17-Jul	15:03	25.39
17-Jul	15:33	25.57
17-Jul	16:03	25.91
17-Jul	16:33	26.09
17-Jul	17:03	26.09
17-Jul	17:33	26.09
17-Jul	18:03	26.26
17-Jul	18:33	26.09
17-Jul	19:03	26.09
17-Jul	19:33	25.91

17-Jul	20:03	25.91
17-Jul	20:33	25.91
17-Jul	21:03	25.74
17-Jul	21:33	25.57
17-Jul	22:03	25.39
17-Jul	22:33	25.05
17-Jul	23:03	25.05
17-Jul	23:33	24.87
18-Jul	0:03	24.7
18-Jul	0:33	24.7
18-Jul	1:03	24.7
18-Jul	1:33	24.53
18-Jul	2:03	24.53
18-Jul	2:33	24.53
18-Jul	3:03	24.36
18-Jul	3:33	24.36
18-Jul	4:03	24.36
18-Jul	4:33	24.18
18-Jul	5:03	24.18
18-Jul	5:33	24.18
18-Jul	6:03	24.01
18-Jul	6:33	24.01
18-Jul	7:03	24.01
18-Jul	7:33	24.01
18-Jul	8:03	24.01
18-Jul	8:33	24.01
18-Jul	9:03	24.01
18-Jul	9:33	24.01
18-Jul	10:03	24.01
18-Jul	10:33	24.18
18-Jul	11:03	24.36
18-Jul	11:33	24.36
18-Jul	12:03	24.53
18-Jul	12:33	24.7
18-Jul	13:03	24.87
18-Jul	13:33	24.87
18-Jul	14:03	25.05
18-Jul	14:33	25.22
18-Jul	15:03	25.22
18-Jul	15:33	25.22
18-Jul	16:03	25.05
18-Jul	16:33	25.22
18-Jul	17:03	25.22
18-Jul	17:33	25.22
18-Jul	18:03	25.05
18-Jul	18:33	24.87
18-Jul	19:03	24.87
18-Jul	19:33	24.7
18-Jul	20:03	24.7
18-Jul	20:33	24.53
18-Jul	21:03	24.53
18-Jul	21:33	24.53

18-Jul	22:03	24.53
18-Jul	22:33	24.53
18-Jul	23:03	24.36
18-Jul	23:33	24.36
19-Jul	0:03	24.18
19-Jul	0:33	24.18
19-Jul	1:03	24.18
19-Jul	1:33	24.01
19-Jul	2:03	24.01
19-Jul	2:33	24.01
19-Jul	3:03	23.83
19-Jul	3:33	23.83
19-Jul	4:03	23.83
19-Jul	4:33	23.83
19-Jul	5:03	23.66
19-Jul	5:33	23.66
19-Jul	6:03	23.66
19-Jul	6:33	23.49
19-Jul	7:03	23.49
19-Jul	7:33	23.49
19-Jul	8:03	23.49
19-Jul	8:33	23.49
19-Jul	9:03	23.49
19-Jul	9:33	23.49
19-Jul	10:03	23.66
19-Jul	10:33	23.66
19-Jul	11:03	24.01
19-Jul	11:33	24.36
19-Jul	12:03	24.7
19-Jul	12:33	24.87
19-Jul	13:03	24.87
19-Jul	13:33	25.05
19-Jul	14:03	25.39
19-Jul	14:33	25.57
19-Jul	15:03	25.57
19-Jul	15:33	25.91
19-Jul	16:03	25.91
19-Jul	16:33	25.91
19-Jul	17:03	25.91
19-Jul	17:33	25.91
19-Jul	18:03	25.74
19-Jul	18:33	25.57
19-Jul	19:03	25.39
19-Jul	19:33	25.39
19-Jul	20:03	25.22
19-Jul	20:33	25.05
19-Jul	21:03	25.05
19-Jul	21:33	24.87
19-Jul	22:03	24.87
19-Jul	22:33	24.7
19-Jul	23:03	24.7
19-Jul	23:33	24.53

20-Jul	0:03	24.53
20-Jul	0:33	24.36
20-Jul	1:03	24.36
20-Jul	1:33	24.18
20-Jul	2:03	24.18
20-Jul	2:33	24.01
20-Jul	3:03	24.01
20-Jul	3:33	23.83
20-Jul	4:03	23.83
20-Jul	4:33	23.66
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28-Aug	6:53	23.66
28-Aug	7:23	23.49
28-Aug	7:53	23.49
28-Aug	8:23	23.49
28-Aug	8:53	23.49
28-Aug	9:23	23.66
28-Aug	9:53	23.66
28-Aug	10:23	23.83
28-Aug	10:53	24.18
28-Aug	11:23	24.36
28-Aug	11:53	24.53
28-Aug	12:23	24.7
28-Aug	12:53	25.39
28-Aug	13:23	25.39
28-Aug	13:53	25.57
28-Aug	14:23	26.09
28-Aug	14:53	26.26
28-Aug	15:23	26.44
28-Aug	15:53	26.44
28-Aug	16:23	26.44
28-Aug	16:53	26.44
28-Aug	17:23	26.44
28-Aug	17:53	26.26
28-Aug	18:23	26.26
28-Aug	18:53	26.09
28-Aug	19:23	25.91
28-Aug	19:53	25.74
28-Aug	20:23	25.57
28-Aug	20:53	25.39
28-Aug	21:23	25.39
28-Aug	21:53	25.22
28-Aug	22:23	25.05
28-Aug	22:53	24.87
28-Aug	23:23	24.87
28-Aug	23:53	24.7
29-Aug	0:23	24.53
29-Aug	0:53	24.53
29-Aug	1:23	24.36

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29-Aug	2:53	24.01	
29-Aug	3:23	24.01	
29-Aug	3:53	24.01	
29-Aug	4:23	23.83	
29-Aug	4:53	23.66	
29-Aug	5:23	23.66	
29-Aug	5:53	23.66	
29-Aug	6:23	23.49	
29-Aug	6:53	23.49	
29-Aug	7:23	23.32	
29-Aug	7:53	23.32	
29-Aug	8:23	23.32	
29-Aug	8:53	23.32	
29-Aug	9:23	23.32	End of DL 4 (couldn't find probe did two dl)
29-Aug	9:58	23.59	
29-Aug	10:28	23.93	
29-Aug	10:58	24.11	
29-Aug	11:28	24.28	
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29-Aug	12:28	24.97	
29-Aug	12:58	25.14	
29-Aug	13:28	25.32	
29-Aug	13:58	25.49	
29-Aug	14:28	25.67	
29-Aug	14:58	25.84	
29-Aug	15:28	25.84	
29-Aug	15:58	25.84	
29-Aug	16:28	26.19	
29-Aug	16:58	26.19	
29-Aug	17:28	26.19	
29-Aug	17:58	26.19	
29-Aug	18:28	26.19	
29-Aug	18:58	26.01	
29-Aug	19:28	25.84	
29-Aug	19:58	25.67	
29-Aug	20:28	25.49	
29-Aug	20:58	25.32	
29-Aug	21:28	25.14	
29-Aug	21:58	25.14	
29-Aug	22:28	24.97	
29-Aug	22:58	24.79	
29-Aug	23:28	24.79	
29-Aug	23:58	24.62	
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30-Aug	10:58	23.42
30-Aug	11:28	23.42
30-Aug	11:58	23.59
30-Aug	12:28	23.93
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30-Aug	13:28	24.28
30-Aug	13:58	24.28
30-Aug	14:28	24.28
30-Aug	14:58	24.28
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30-Aug	21:58	24.28
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31-Aug	0:28	24.11
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31-Aug	1:28	23.93
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31-Aug	6:28	23.59
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31-Aug	7:28	23.42
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31-Aug	12:58	24.62
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31-Aug	13:58	24.79
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31-Aug	14:58	24.79
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1-Sep	21:28	24.45
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3-Sep	7:28	20.92
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3-Sep	23:58	22.58
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5-Sep	15:28	23.93

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5-Sep	22:58	22.74
5-Sep	23:28	22.58
5-Sep	23:58	22.41
6-Sep	0:28	22.24
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8-Sep	21:28	22.58

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9-Sep	21:28	22.92
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9-Sep	23:28	22.58

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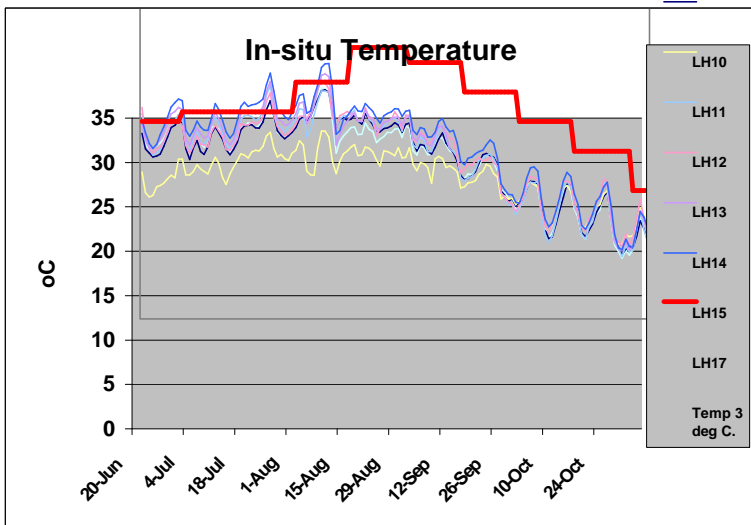
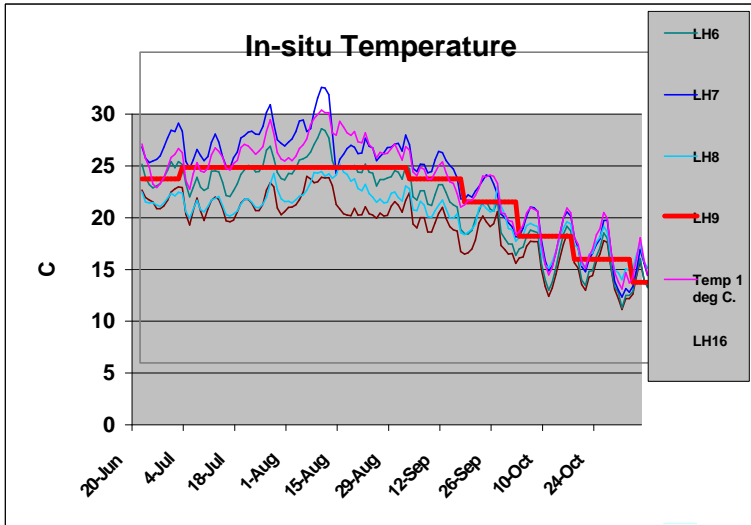
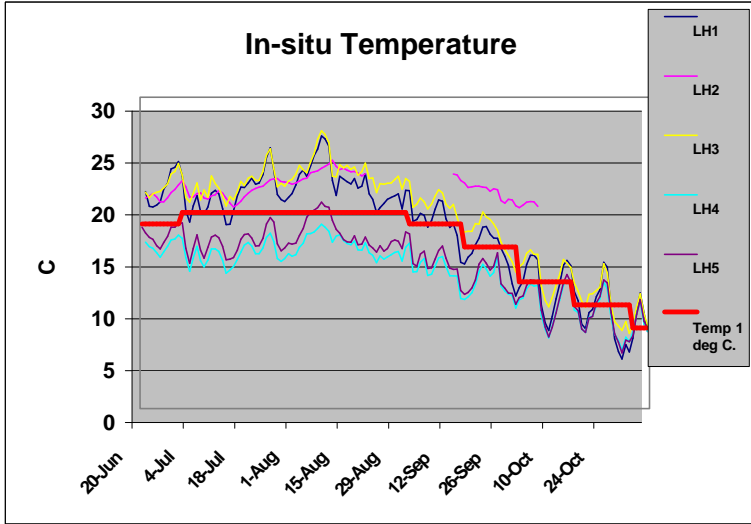
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1-Nov	3:45	7.71
1-Nov	4:15	7.71
1-Nov	4:45	7.56
1-Nov	5:15	7.56
1-Nov	5:45	7.56
1-Nov	6:15	7.41
1-Nov	6:45	7.41
1-Nov	7:15	7.41
1-Nov	7:45	7.25
1-Nov	8:15	7.25
1-Nov	8:45	7.25
1-Nov	9:15	7.25
1-Nov	9:45	7.41
1-Nov	10:15	7.41
1-Nov	10:45	7.56
1-Nov	11:15	7.71
1-Nov	11:45	7.87
1-Nov	12:15	8.02
1-Nov	12:45	8.17
1-Nov	13:15	8.48
1-Nov	13:45	8.64
1-Nov	14:15	8.94
1-Nov	14:45	9.26
1-Nov	15:15	9.41
1-Nov	15:45	9.26
1-Nov	16:15	9.41
1-Nov	16:45	9.72
1-Nov	17:15	9.87
1-Nov	17:45	9.87
1-Nov	18:15	9.72
1-Nov	18:45	9.87
1-Nov	19:15	9.87
1-Nov	19:45	9.87
1-Nov	20:15	9.72
1-Nov	20:45	9.72
1-Nov	21:15	9.72
1-Nov	21:45	9.56
1-Nov	22:15	9.56
1-Nov	22:45	9.41
1-Nov	23:15	9.41
1-Nov	23:45	9.41
2-Nov	0:15	9.26
2-Nov	0:45	9.26
2-Nov	1:15	9.26

2-Nov	1:45	9.1
2-Nov	2:15	9.1
2-Nov	2:45	9.1
2-Nov	3:15	8.94
2-Nov	3:45	8.94
2-Nov	4:15	8.79
2-Nov	4:45	8.79
2-Nov	5:15	8.79
2-Nov	5:45	8.79
2-Nov	6:15	8.64
2-Nov	6:45	8.64
2-Nov	7:15	8.48
2-Nov	7:45	8.48
2-Nov	8:15	8.48
2-Nov	8:45	8.48
2-Nov	9:15	8.64
2-Nov	9:45	8.64
2-Nov	10:15	8.79
2-Nov	10:45	8.94
2-Nov	11:15	9.1
2-Nov	11:45	9.1
2-Nov	12:15	9.26
2-Nov	12:45	9.41
2-Nov	13:15	9.72
2-Nov	13:45	10.34
2-Nov	14:15	10.81
2-Nov	14:45	10.81
2-Nov	15:15	10.96
2-Nov	15:45	10.96
2-Nov	16:15	10.96
2-Nov	16:45	11.27
2-Nov	17:15	11.58
2-Nov	17:45	11.58
2-Nov	18:15	11.42
2-Nov	18:45	11.42
2-Nov	19:15	11.42
2-Nov	19:45	11.27
2-Nov	20:15	11.27
2-Nov	20:45	11.11
2-Nov	21:15	10.96
2-Nov	21:45	10.96
2-Nov	22:15	10.96
2-Nov	22:45	10.96
2-Nov	23:15	10.96
2-Nov	23:45	10.81
3-Nov	0:15	10.81
3-Nov	0:45	10.81
3-Nov	1:15	10.81
3-Nov	1:45	10.65
3-Nov	2:15	10.65
3-Nov	2:45	10.65
3-Nov	3:15	10.65

3-Nov	3:45	10.65
3-Nov	4:15	10.49
3-Nov	4:45	10.49
3-Nov	5:15	10.49
3-Nov	5:45	10.49
3-Nov	6:15	10.49
3-Nov	6:45	10.49
3-Nov	7:15	10.49
3-Nov	7:45	10.49
3-Nov	8:15	10.49
3-Nov	8:45	10.65
3-Nov	9:15	10.65
3-Nov	9:45	10.65
3-Nov	10:15	10.81
3-Nov	10:45	10.81
3-Nov	11:15	10.96
3-Nov	11:45	11.42
3-Nov	12:15	11.73
3-Nov	12:45	12.04
3-Nov	13:15	12.2
3-Nov	13:45	12.51
3-Nov	14:15	12.66
3-Nov	14:45	12.82
3-Nov	15:15	12.82
3-Nov	15:45	12.82
3-Nov	16:15	12.82
3-Nov	16:45	12.66
3-Nov	17:15	12.66
3-Nov	17:45	12.66
3-Nov	18:15	12.51
3-Nov	18:45	12.51
3-Nov	19:15	12.35
3-Nov	19:45	12.35
3-Nov	20:15	12.2
3-Nov	20:45	12.04
3-Nov	21:15	12.04
3-Nov	21:45	11.89
3-Nov	22:15	11.73
3-Nov	22:45	11.73
3-Nov	23:15	11.58
3-Nov	23:45	11.58
4-Nov	0:15	11.42
4-Nov	0:45	11.27
4-Nov	1:15	11.27
4-Nov	1:45	11.11
4-Nov	2:15	10.96
4-Nov	2:45	10.96
4-Nov	3:15	10.81
4-Nov	3:45	10.65
4-Nov	4:15	10.65
4-Nov	4:45	10.49
4-Nov	5:15	10.49

4-Nov	5:45	10.34
4-Nov	6:15	10.18
4-Nov	6:45	10.18
4-Nov	7:15	10.03
4-Nov	7:45	10.03
4-Nov	8:15	9.87
4-Nov	8:45	9.87
4-Nov	9:15	9.87
4-Nov	9:45	9.87
4-Nov	10:15	10.03
4-Nov	10:45	10.18
4-Nov	11:15	10.34
4-Nov	11:45	10.49
4-Nov	12:15	10.65
4-Nov	12:45	10.81
4-Nov	13:15	11.11
4-Nov	13:45	11.11
4-Nov	14:15	11.27
4-Nov	14:45	11.27
4-Nov	15:15	11.27
4-Nov	15:45	11.27
4-Nov	16:15	11.42
4-Nov	16:45	11.42
4-Nov	17:15	11.42
4-Nov	17:45	11.42
4-Nov	18:15	11.42
4-Nov	18:45	11.27
4-Nov	19:15	11.27
4-Nov	19:45	11.11
4-Nov	20:15	11.11
4-Nov	20:45	10.96
4-Nov	21:15	10.96
4-Nov	21:45	10.96
4-Nov	22:15	10.96
4-Nov	22:45	10.96
4-Nov	23:15	10.96
4-Nov	23:45	10.81
5-Nov	0:15	10.81
5-Nov	0:45	10.65
5-Nov	1:15	10.65
5-Nov	1:45	10.49
5-Nov	2:15	10.49
5-Nov	2:45	10.34
5-Nov	3:15	10.34
5-Nov	3:45	10.18
5-Nov	4:15	10.18
5-Nov	4:45	10.03
5-Nov	5:15	10.03
5-Nov	5:45	9.87
5-Nov	6:15	9.87
5-Nov	6:45	9.87
5-Nov	7:15	9.72

5-Nov	7:45	9.72
5-Nov	8:15	9.72
5-Nov	8:45	9.56
5-Nov	9:15	9.56
5-Nov	9:45	9.56
5-Nov	10:15	9.72



TRIP	STATION	DATE	Chl a Avg (ug/L)	TRIP	STATION	DATE	Chl a Avg (ug/L)	TRIP	STATION	DATE	Chl a Avg (ug/L)
1	LH1	5/31/2001	3.2	2	LH1	6/5/2001	4.0	3	LH1	6/13/2001	1.1
	LH2	5/30/2001	2.7		LH2	6/6/2001	2.2		LH2	6/13/2001	1.0
	LH3	5/30/2001	2.0		LH3	6/6/2001	3.5		LH3	6/13/2001	0.7
	LH4	5/30/2001	0.3		LH4	6/6/2001	0.6		LH4	6/13/2001	0.2
	LH5	5/30/2001	0.6		LH5	6/5/2001	0.9		LH5	6/13/2001	1.3
	LH6	5/30/2001	0.3		LH6	6/5/2001	0.4		LH6	6/13/2001	0.2
	LH7	5/30/2001	1.5		LH7	6/5/2001	1.0		LH7	6/13/2001	3.5
	LH8	5/30/2001	1.4		LH8	6/5/2001	2.0		LH8	6/13/2001	0.8
	LH9	5/31/2001	0.8		LH9	6/5/2001	0.8		LH9	6/14/2001	0.7
	LH10	5/30/2001	1.8		LH10	6/5/2001	2.8		LH10	6/14/2001	1.0
	LH11	5/30/2001	0.9		LH11	6/5/2001	1.1		LH11	6/14/2001	1.8
	LH12	5/30/2001	1.3		LH12	6/5/2001	1.7		LH12	6/14/2001	2.1
	LH13	5/30/2001	0.6		LH13	6/5/2001	0.6		LH13	6/14/2001	1.1
	LH14	5/30/2001	0.3		LH14	6/5/2001	0.9		LH14	6/15/2001	2.2
	LH15	5/30/2001	2.7		LH15	6/5/2001	1.5		LH15	6/15/2001	2.1
	LH16	5/31/2001	1.9		LH16	6/5/2001	5.0		LH16	6/15/2001	8.5
	LH17	5/31/2001	2.7		LH17	6/5/2001	3.4		LH17	6/15/2001	1.8
	Ave.		1.5		Ave.		1.9		Ave.		1.8
4	LH1	6/21/2001	1.0	5	LH1	6/26/2001	1.3	6	LH1	7/2/2001	1.2
	LH2	6/21/2001	0.9		LH2	6/26/2001	1.2		LH2	7/2/2001	1.5
	LH3	6/21/2001	1.3		LH3	6/25/2001	0.6		LH3	7/2/2001	0.6
	LH4	6/21/2001	0.3		LH4	6/25/2001	0.2		LH4	7/2/2001	0.6
	LH5	6/20/2001	1.8		LH5	6/25/2001	1.0		LH5	7/2/2001	0.5
	LH6	6/20/2001	0.5		LH6	6/25/2001	0.3		LH6	7/2/2001	0.3
	LH7	6/20/2001	0.5		LH7	6/25/2001	0.6		LH7	7/2/2001	0.9
	LH8	6/20/2001	0.9		LH8	6/25/2001	0.8		LH8	7/2/2001	0.8
	LH9	6/20/2001	0.6		LH9	6/25/2001	0.4		LH9	7/2/2001	0.4
	LH10	6/20/2001	0.9		LH10	6/25/2001	0.9		LH10	7/2/2001	0.5
	LH11	6/20/2001	1.0		LH11	6/25/2001	0.6		LH11	7/2/2001	1.0
	LH12	6/20/2001	2.6		LH12	6/25/2001	1.5		LH12	7/2/2001	1.1
	LH13	6/20/2001	0.7		LH13	6/25/2001	0.7		LH13	7/2/2001	1.7
	LH14	6/20/2001	1.6		LH14	6/25/2001	1.9		LH14	7/2/2001	2.4
	LH15	6/20/2001	1.8		LH15	6/25/2001	1.1		LH15	7/2/2001	2.0
	LH16	6/20/2001	3.8		LH16	6/25/2001	0.8		LH16	7/2/2001	3.1
	LH17	6/20/2001	3.0		LH17	6/25/2001	1.0		LH17	7/2/2001	0.9
	Ave.		1.4		Ave.		0.9		Ave.		1.1

TRIP	STATION	DATE	Chl a Avg (ug/L)	TRIP	STATION	DATE	Chl a Avg (ug/L)	TRIP	STATION	DATE	Chl a Avg (ug/L)
7	LH1	7/10/2001	1.3	8	LH1	7/16/2001	0.6	9	LH1	7/24/2001	1.9
	LH2	7/10/2001	1.2		LH2	7/16/2001	1.5		LH2	7/25/2001	1.2
	LH3	7/10/2001	0.3		LH3	7/16/2001	0.5		LH3	7/24/2001	0.6
	LH4	7/10/2001	0.6		LH4	7/16/2001	0.2		LH4	7/24/2001	0.2
	LH5	7/10/2001	1.1		LH5	7/16/2001	0.4		LH5	7/24/2001	0.2
	LH6	7/10/2001	0.3		LH6	7/16/2001	0.0		LH6	7/24/2001	0.2
	LH7	7/10/2001	1.0		LH7	7/16/2001	0.8		LH7	7/24/2001	0.5
	LH8	7/10/2001	0.6		LH8	7/16/2001	0.6		LH8	7/24/2001	0.8
	LH9	7/10/2001	1.7		LH9	7/16/2001	0.3		LH9	7/24/2001	0.2
	LH10	7/10/2001	1.1		LH10	7/16/2001	0.9		LH10	7/24/2001	1.1
	LH11	7/10/2001	1.1		LH11	7/16/2001	1.1		LH11	7/24/2001	1.4
	LH12	7/10/2001	1.1		LH12	7/16/2001	0.7		LH12	7/24/2001	0.7
	LH13	7/10/2001	0.7		LH13	7/16/2001	0.3		LH13	7/24/2001	0.4
	LH14	7/10/2001	2.5		LH14	7/16/2001	3.0		LH14	7/24/2001	8.4
	LH15	7/10/2001	3.0		LH15	7/16/2001	1.0		LH15	7/24/2001	2.1
	LH16	7/10/2001	3.2		LH16	7/16/2001	1.9		LH16	7/24/2001	2.4
	LH17	7/10/2001	1.1		LH17	7/16/2001	0.8		LH17	7/24/2001	1.7
	Ave.		1.3		Ave.		0.9		Ave.		1.4
10	LH1	7/31/2001	0.4	11	LH1	8/6/2001	0.9	12	LH1	8/16/2001	0.6
	LH2	8/1/2001	0.9		LH2	8/6/2001	0.9		LH2	8/16/2001	1.6
	LH3	7/31/2001	0.4		LH3	8/6/2001	0.4		LH3	8/16/2001	0.6
	LH4	7/31/2001	0.1		LH4	8/6/2001	0.3		LH4	8/16/2001	0.1
	LH5	7/31/2001	0.1		LH5	8/6/2001	0.3		LH5	8/16/2001	0.3
	LH6	7/31/2001	0.0		LH6	8/6/2001	0.3		LH6	8/16/2001	0.1
	LH7	7/31/2001	0.7		LH7	8/6/2001	1.2		LH7	8/16/2001	0.2
	LH8	7/31/2001	0.7		LH8	8/6/2001	1.0		LH8	8/16/2001	0.2
	LH9	7/31/2001	0.2		LH9	8/6/2001	0.5		LH9	8/16/2001	0.3
	LH10	7/31/2001	0.7		LH10	8/6/2001	1.3		LH10	8/16/2001	0.4
	LH11	7/31/2001	1.1		LH11	8/6/2001	1.2		LH11	8/16/2001	0.8
	LH12	7/31/2001	0.5		LH12	8/6/2001	1.6		LH12	8/16/2001	0.5
	LH13	7/31/2001	0.6		LH13	8/6/2001	0.9		LH13	8/16/2001	0.8
	LH14	7/31/2001	6.0		LH14	8/6/2001	3.8		LH14	8/16/2001	2.8
	LH15	7/31/2001	1.9		LH15	8/6/2001	2.2		LH15	8/16/2001	1.1
	LH16	7/31/2001	1.6		LH16	8/6/2001	3.9		LH16	8/16/2001	3.7
	LH17	7/31/2001	1.5		LH17	8/6/2001	1.7		LH17	8/16/2001	1.0
	Ave.		1.0		Ave.		1.3		Ave.		0.9

TRIP	STATION	DATE	Chl a Avg (ug/L)	TRIP	STATION	DATE	Chl a Avg (ug/L)	TRIP	STATION	DATE	Chl a Avg (ug/L)
13	LH1	8/20/2001	0.8	14	LH1	8/29/2001	0.7	15	LH1	9/4/2001	0.6
	LH2	8/20/2001	0.9		LH2	8/29/2001	0.9		LH2	9/4/2001	1.1
	LH3	8/20/2001	0.6		LH3	8/29/2001	0.5		LH3	9/4/2001	0.6
	LH4	8/20/2001	0.2		LH4	8/29/2001	0.2		LH4	9/4/2001	0.4
	LH5	8/20/2001	0.6		LH5	8/29/2001	1.2		LH5	9/4/2001	0.8
	LH6	8/20/2001	0.0		LH6	8/29/2001	0.2		LH6	9/4/2001	0.5
	LH7	8/20/2001	0.6		LH7	8/29/2001	0.8		LH7	9/4/2001	0.7
	LH8	8/20/2001	0.1		LH8	8/29/2001	0.2		LH8	9/4/2001	0.6
	LH9	8/20/2001	0.1		LH9	8/29/2001	0.4		LH9	9/4/2001	0.3
	LH10	8/20/2001	0.3		LH10	8/29/2001	0.9		LH10	9/4/2001	0.9
	LH11	8/20/2001	1.5		LH11	8/29/2001	2.5		LH11	9/4/2001	0.8
	LH12	8/20/2001	0.7		LH12	8/29/2001	0.9		LH12	9/4/2001	0.7
	LH13	8/20/2001	0.6		LH13	8/29/2001	0.8		LH13	9/4/2001	0.5
	LH14	8/20/2001	4.5		LH14	8/29/2001	4.3		LH14	9/4/2001	4.0
	LH15	8/20/2001	1.5		LH15	8/29/2001	4.3		LH15	9/4/2001	1.5
	LH16	8/20/2001	2.6		LH16	8/29/2001	1.2		LH16	9/4/2001	2.0
	LH17	8/20/2001	1.1		LH17	8/29/2001	1.9		LH17	9/4/2001	1.5
	Ave.		1.0		Ave.		1.3		Ave.		1.0
16	LH1	9/12/2001	0.3	17	LH1	9/17/2001	0.5	18	LH1	9/24/2001	0.8
	LH2	9/12/2001	1.4		LH2	9/17/2001	1.7		LH2	9/24/2001	0.6
	LH3	9/12/2001	0.5		LH3	9/17/2001	0.5		LH3	9/24/2001	1.1
	LH4	9/12/2001	0.0		LH4	9/17/2001	0.1		LH4	9/24/2001	1.3
	LH5	9/12/2001	0.2		LH5	9/17/2001	0.2		LH5	9/24/2001	0.0
	LH6	9/12/2001	0.1		LH6	9/17/2001	0.0		LH6	9/24/2001	0.1
	LH7	9/12/2001	0.2		LH7	9/17/2001	0.2		LH7	9/24/2001	0.2
	LH8	9/12/2001	1.0		LH8	9/17/2001	0.6		LH8	9/24/2001	0.4
	LH9	9/12/2001	0.2		LH9	9/17/2001	0.2		LH9	9/24/2001	0.1
	LH10	9/12/2001	0.5		LH10	9/17/2001	0.8		LH10	9/24/2001	1.0
	LH11	9/12/2001	1.8		LH11	9/17/2001	1.4		LH11	9/24/2001	2.2
	LH12	9/12/2001	0.7		LH12	9/17/2001	0.7		LH12	9/24/2001	1.1
	LH13	9/12/2001	0.6		LH13	9/17/2001	0.5		LH13	9/24/2001	0.4
	LH14	9/12/2001	2.6		LH14	9/17/2001	2.1		LH14	9/24/2001	0.5
	LH15	9/12/2001	1.9		LH15	9/17/2001	2.1		LH15	9/24/2001	1.4
	LH16	9/12/2001	2.6		LH16	9/17/2001	2.8		LH16	9/24/2001	1.9
	LH17	9/13/2001	1.5		LH17	9/17/2001	1.2		LH17	9/24/2001	1.0
	Ave.		1.0		Ave.		0.9		Ave.		0.8

TRIP	STATION	DATE	Chl a Avg (ug/L)	TRIP	STATION	DATE	Chl a Avg (ug/L)	TRIP	STATION	DATE	Chl a Avg (ug/L)
19	LH1	10/2/2001	1.6	20	LH1	10/9/2001	2.5	21	LH1	10/18/2001	2.5
	LH2	10/2/2001	5.0		LH2	10/9/2001	5.2		LH2	10/18/2001	5.2
	LH3	10/2/2001	2.5		LH3	10/9/2001	1.4		LH3	10/18/2001	1.4
	LH4	10/2/2001	0.1		LH4	10/9/2001	0.1		LH4	10/18/2001	0.1
	LH5	10/2/2001	0.2		LH5	10/9/2001	0.3		LH5	10/18/2001	0.3
	LH6	10/2/2001	0.1		LH6	10/9/2001	0.1		LH6	10/18/2001	0.1
	LH7	10/2/2001	0.2		LH7	10/9/2001	0.2		LH7	10/18/2001	0.2
	LH8	10/2/2001	0.7		LH8	10/9/2001	0.5		LH8	10/18/2001	0.5
	LH9	10/2/2001	0.2		LH9	10/9/2001	0.1		LH9	10/18/2001	0.1
	LH10	10/2/2001	0.7		LH10	10/9/2001	0.3		LH10	10/18/2001	0.3
	LH11	10/2/2001	1.8		LH11	10/9/2001	1.2		LH11	10/18/2001	1.2
	LH12	10/2/2001	0.7		LH12	10/9/2001	1.1		LH12	10/18/2001	1.1
	LH13	10/2/2001	0.4		LH13	10/9/2001	0.9		LH13	10/18/2001	0.9
	LH14	10/2/2001	0.3		LH14	10/9/2001	0.9		LH14	10/18/2001	0.9
	LH15	10/2/2001	0.6		LH15	10/9/2001	0.8		LH15	10/18/2001	0.8
	LH16	10/2/2001	1.3		LH16	10/9/2001	1.5		LH16	10/18/2001	1.5
	LH17	10/2/2001	0.5		LH17	10/9/2001	0.9		LH17	10/18/2001	0.9
	Ave.		1.0		Ave.		1.1		Ave.		1.1
22	LH1	10/23/2001	1.6	23	LH1	10/29/2001	2.1	24	LH1	11/5/2001	2.2
	LH2	10/23/2001	3.5		LH2	10/29/2001	3.3		LH2	11/5/2001	5.3
	LH3	10/23/2001	1.2		LH3	10/29/2001	1.7		LH3	11/5/2001	2.3
	LH4	10/23/2001	0.1		LH4	10/29/2001	0.1		LH4	11/5/2001	0.1
	LH5	10/23/2001	0.3		LH5	10/29/2001	0.1		LH5	11/5/2001	0.3
	LH6	10/23/2001	0.0		LH6	10/29/2001	0.1		LH6	11/5/2001	0.1
	LH7	10/23/2001	0.2		LH7	10/29/2001	0.9		LH7	11/5/2001	0.1
	LH8	10/23/2001	0.9		LH8	10/29/2001	0.3		LH8	11/5/2001	0.5
	LH9	10/23/2001	0.1		LH9	10/29/2001	0.2		LH9	11/5/2001	0.4
	LH10	10/23/2001	0.8		LH10	10/29/2001	0.5		LH10	11/5/2001	0.6
	LH11	10/23/2001	0.9		LH11	10/29/2001	0.9		LH11	11/5/2001	0.7
	LH12	10/23/2001	1.1		LH12	10/29/2001	1.1		LH12	11/5/2001	0.9
	LH13	10/23/2001	0.3		LH13	10/29/2001	0.5		LH13	11/5/2001	0.6
	LH14	10/23/2001	1.9		LH14	10/29/2001	1.9		LH14	11/5/2001	2.6
	LH15	10/23/2001	1.4		LH15	10/29/2001	1.0		LH15	11/5/2001	1.7
	LH16	10/23/2001	3.5		LH16	10/29/2001	4.5		LH16	11/5/2001	3.0
	LH17	10/23/2001	1.4		LH17	10/29/2001	1.7		LH17	11/5/2001	1.7
	Ave.		1.1		Ave.		1.2		Ave.		1.4

Staff gage readings and estimated flows for all Lehigh River tributaries sampled from May 30-November 4, 2001

Station	Week	Water Sample	Hayes Creek				Sandy Run					
			Gage	Measured Q (cfs)	Est Q (cfs)	Est Q (mgd)	Est Q (gpm)	Gage	Measured Q (cfs)	Est Q (cfs)	Est Q (mgd)	Est Q (gpm)
30-May												
31-May	1	30	16.25	13.4	13.8	8.894	6177	18.75	20.6	19.1	12.347	8574
4-Jun												
5-Jun	2	30	16.88		16.0	10.344	7183	19.38		22.1	14.284	9919
11-Jun			15.75		12.2	7.890	5479					
12-Jun								19.50		22.7	14.686	10198
13-Jun	3	30	15.88		12.6	8.130	5646	19.00		20.3	13.082	9085
14-Jun												
20-Jun	4	30										
21-Jun	5	30	19.00		26.6	17.190	11938					
25-Jun			17.75		19.7	12.741	8848	19.88		24.8	16.016	11122
2-Jul	6	30										
3-Jul			17.12		17.0	10.956	7608	19.25		21.5	13.861	9625
9-Jul	7	30	16.75		15.5	10.026	6963	18.75		19.1	12.347	8574
16-Jul	8	30	15.75		12.2	7.890	5479	18.50		18.0	11.653	8093
19-Jul			17.25	18.0	17.5	11.303	7849	18.75	18.1	19.1	12.347	8574
20-Jul												
24-Jul	9	30	15.25		10.8	6.999	4861	17.75		15.2	9.797	6804
31-Jul	10	30	15.00		10.2	6.592	4578	17.38		13.9	8.983	6238
6-Aug	11	30	15.38		11.2	7.212	5008	19.25		21.5	13.861	9625
9-Aug												
10-Aug			14.88	10.0	9.9	6.405	4448	17.75	14.7	15.2	9.797	6804
16-Aug	12	30	16.50		14.6	9.443	6558	23.63		59.0	38.128	26477
20-Aug	13	30	15.63		11.9	7.657	5318	21.88		39.4	25.437	17664
28-Aug								19.63	24.2	23.4	15.117	10498
29-Aug	14	30	15.50		11.5	7.431	5161	19.88		24.8	16.016	11122
30-Aug												
4-Sep	15	30	17.75		19.7	12.741	8848	21.50		36.1	23.323	16197
12-Sep	15	30	13.25		6.7	4.334	3010	18.38		17.5	11.321	7862
17-Sep	17	30										
18-Sep												
24-Sep	18	30	14.50		9.1	5.848	4061	21.50		36.1	23.323	16197
26-Sep			22.13	56.1	56.3	36.392	25272	24.75	75.1	76.6	49.459	34346
27-Sep												
2-Oct	19	30	17.40		18.1	11.716	8136	20.90		31.4	20.301	14098
9-Oct	20	30	16.25		13.8	8.894	6177	19.25		21.5	13.861	9625
18-Oct	21	30	16.88		16.0	10.331	7174	18.88		19.7	12.709	8826
23-Oct	22	30	16.00		13.0	8.377	5817	18.00		16.1	10.381	7209
29-Oct	23	30	15.00		10.2	6.592	4578	17.25		13.5	8.727	6061

Staff gage readings and estimated flows for all Lehigh River tributaries sampled from May 30-November 4, 2001

5-Nov	24	30	15.50		11.5	7.431	5161	14.50		7.2	4.620	3208
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Staff gage readings and estimated flows for all Lehigh River tributaries sampled from May 30-November 4, 2001

Buck Mountain					Black Creek					Lausanne Tunn		
Gage	Measured Q (cfs)	Est Q (cfs)	Est Q (mgd)	Est Q (gpm)	Gage	Measured Q (cfs)	Est Q (cfs)	Est Q (mgd)	Est Q (gpm)	Gage	Measured Q (cfs)	Est Q (cfs)
19.38		6.5	4.199	2916	17.75	38.7	36.3	23.459	16291	0.55	7.9	8.5
19.75		6.5	4.199	2916	19.00		47.4	30.595	21246	0.53		8.0
19.25		6.5	4.199	2916	17.88		37.3	24.116	16747	0.52		7.7
19.25		6.5	4.199	2916	19.50		52.7	34.024	23627			
19.50		6.5	4.199	2916	18.75		44.9	29.012	20147	0.50		7.2
										0.55		8.5
20.00		6.5	4.199	2916	18.25		40.4	26.088	18117	0.50		7.2
19.62		6.5	4.199	2916	18.50		42.6	27.511	19105	0.59		9.7
19.75		6.5	4.199	2916	12.25		11.3	7.292	5064	0.54		8.2
19.13		6.5	4.199	2916	16.75		29.4	18.969	13173	0.56		8.8
19.13		6.5	4.199	2916	16.25	28.8	26.4	17.057	11845	0.51	8.5	7.5
18.63		6.5	4.199	2916	14.88		19.7	12.736	8844	0.55		8.5
18.50		6.5	4.199	2916	14.75		19.2	12.402	8613	0.50		7.2
21.50		6.5	4.199	2916	15.75		23.7	15.338	10651	0.50		7.2
					14.25	17.2	17.3	11.152	7745	0.47	5.8	6.5
19.13		6.5	4.199	2916								
					17.00		31.0	20.004	13891	0.45		6.1
					15.75		23.7	15.338	10651	0.40		5.2
26.63	12.5	12.7	8.211	5702						0.29	3.9	3.6
26.75		13.0	8.416	5844	16.00		25.0	16.175	11232	0.28		3.5
26.38		12.1	7.816	5428	14.25		17.3	11.152	7745	0.28		3.5
24.88		9.0	5.816	4039	13.25		14.0	9.018	6262	0.22		2.9
					24.50		152.4	98.430	68354	0.22		2.9
24.38	8.2	8.2	5.271	3660	13.13	12.6	13.6	8.781	6098			
24.50		8.4	5.402	3752	14.25		17.3	11.152	7745	0.19		2.6
29.75	23.7	23.5	15.197	10553	22.63	95.5	102.4	66.158	45943			
26.80		13.2	8.499	5902	17.75		36.3	23.459	16291	0.21		2.8
26.00		11.2	7.260	5041	16.00		25.0	16.175	11232	0.22		2.9
20.00		3.4	2.226	1546	16.38		27.1	17.516	12164	0.25		3.2
25.50		10.2	6.579	4568	15.50		22.5	14.545	10100	0.20		2.7
25.00		9.2	5.961	4140	15.88		24.4	15.751	10938	0.20		2.7

Staff gage readings and estimated flows for all Lehigh River tributaries sampled from May 30-November 4, 2001

25.38		9.9	6.419	4457	14.38		17.7	11,452	7953	0.19		2.6
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Staff gage readings and estimated flows for all Lehigh River tributaries sampled from May 30-November 4, 2001

1el		Nesquehoning Creek					Mahoning Creek					
Est Q (mgd)	Est Q (gpm)	Gage	Measured Q (cfs)	Est Q (cfs)	Est Q (mgd)	Est Q (gpm)	Gage	Measured Q (cfs)	Est Q (cfs)	Est Q (mgd)	Est Q (gpm)	Gage
							20.38	19.5	21.9	14.116	9803	20.50
5.493	3815	14.75	38.5	34.5	22.313	15495						
							22.50		43.6	28.182	19571	21.00
5.143	3572	15.88		44.6	28.825	20017						20.50
							20.25		20.9	13.531	9396	18.00
4.977	3456	13.50		23.4	15.110	10493						
4.660	3236	14.00		27.9	17.991	12494						17.88
5.493	3815	16.25		47.9	30.957	21498	23.75		65.6	42.365	29420	21.50
4.660	3236	14.88		35.7	23.034	15995	23.38		58.0	37.488	26033	24.50
							21.38		30.3	19.559	13583	21.25
6.266	4351	13.00		23.8	15.346	10657						
5.315	3691	12.38		20.0	12.950	8993	20.63		23.7	15.291	10618	19.50
5.677	3942	11.13		14.3	9.223	6405	19.00		13.9	9.001	6251	17.25
4.816	3344	11.00	14.1	13.8	8.915	6191	18.88	15.1	13.4	8.655	6011	
												16.38
5.493	3815	10.50		12.0	7.783	5405	18.00		10.1	6.496	4511	15.50
4.660	3236	10.50		12.0	7.783	5405	17.88		9.7	6.237	4331	15.50
4.660	3236	11.50		15.8	10.211	7091	19.50		16.4	10.595	7358	20.38
4.222	2932	10.13	11.1	10.9	7.039	4888	17.50	8.4	8.5	5.519	3832	17.50
3.953	2745	11.00		13.8	8.915	6191	18.00		10.1	6.496	4511	16.75
3.354	2329	9.88		10.2	6.568	4561	17.50		8.5	5.519	3832	15.88
2.336	1622	8.88	8.3	7.7	5.006	3476						
2.260	1569	9.25		8.6	5.543	3849	17.50		8.5	5.519	3832	15.00
												14.50
2.260	1569	9.63		9.5	6.137	4262	16.50		6.2	3.983	2766	13.88
1.855	1288	8.00		6.1	3.947	2741	16.38		5.9	3.824	2656	13.88
1.855	1288	8.13		6.3	4.089	2840	16.50		6.2	3.983	2766	13.68
		8.13	5.8	6.3	4.089	2840	16.13	5.4	5.5	3.530	2452	
1.681	1167	8.50		7.0	4.521	3140	17.00		7.3	4.688	3256	15.25
		16.88	66.7	68.1	44.014	30565	21.63	33.4	32.8	21.221	14736	22.88
1.795	1247	10.50		12.0	7.783	5405	18.38		11.4	7.341	5098	18.50
1.855	1288	9.25		8.6	5.543	3849	17.50		8.5	5.519	3832	16.50
2.048	1422	10.50		12.0	7.783	5405	18.50		11.8	7.647	5310	17.88
1.737	1206	9.00		8.0	5.179	3596	17.88		9.7	6.237	4331	16.50
1.737	1206	9.75		9.8	6.349	4409	17.50		8.5	5.519	3832	15.68

Staff gage readings and estimated flows for all Lehigh River tributaries sampled from May 30-November 4, 2001

1.681	1167	8.75		7.5	4.839	3360	17.63		8.9	5.748	3992	15.50
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Staff gage readings and estimated flows for all Lehigh River tributaries sampled from May 30-November 4, 2001

Lizard Creek				Aquashicola Creek					Bertsch Creel		
Measured Q (cfs)	Est Q (cfs)	Est Q (mgd)	Est Q (gpm)	Gage	Measured Q (cfs)	Est Q (cfs)	Est Q (mgd)	Est Q (gpm)	Gage	Measured Q (cfs)	Est Q (cfs)
40.0	47.7	30.834	21413	25.88	88.5	86.0	55.542	38570	16.00		10.3
	53.7	34.688	24089	27.38		107.9	69.679	48388	16.38		3.4
	47.7	30.834	21413	27.00		101.8	65.789	45687	15.63		2.7
	26.5	17.112	11883	23.38		58.9	38.061	26431	14.00		1.2
	25.7	16.616	11539	22.75		53.6	34.603	24030			
	60.4	39.023	27099	20.00		35.3	22.833	15856	18.25		5.1
	122.5	79.103	54933	25.50		81.2	52.441	36417	22.50		8.9
	57.0	36.792	25550	23.88		63.5	41.049	28506	19.38	6.0	6.1
	37.7	24.364	16919	23.13		56.7	36.621	25431	18.50		5.3
	22.2	14.341	9959	20.63		38.8	25.095	17427	17.25		4.2
18.5	18.1	11.684	8114	20.13	38.9	36.0	23.286	16171	16.13	3.2	3.2
	14.7	9.497	6595	19.50		32.8	21.170	14701	15.50		2.6
	14.7	9.497	6595	19.25		31.6	20.385	14156	15.38		2.5
	46.3	29.940	20791	19.88		34.7	22.405	15559	15.00		2.1
26.4	23.5	15.211	10563	19.00	33.0	30.4	19.629	13631	14.38	1.5	1.6
	19.7	12.748	8853	19.00		30.4	19.629	13631	14.63		1.8
	16.1	10.374	7204	18.75		29.3	18.901	13126	14.50		1.7
	13.1	8.442	5862	18.75		29.3	18.901	13126	13.88		1.1
11.4	11.6	7.504	5211								
	10.0	6.477	4498	18.00		26.1	16.875	11719	13.75		1.0
	10.0	6.477	4498	17.50		24.2	15.646	10865	14.00		1.2
	9.6	6.179	4291	18.00		26.1	16.875	11719	15.25		2.4
				17.50	21.4	24.2	15.646	10865			
	13.9	8.954	6218	21.88		46.9	30.315	21052	15.75		2.8
88.4	83.6	54.011	37508								
				29.88	147.9	157.4	101.682	70612	18.00	5.0	4.8
	29.8	19.251	13369	23.13		56.7	36.621	25431	16.88		3.8
	18.6	12.019	8347	20.38		37.4	24.164	16781	16.38		3.4
	25.7	16.616	11539	20.75		39.6	25.574	17760	17.25		4.2
	18.6	12.019	8347	19.88		34.7	22.405	15559	16.50		3.5
	15.3	9.897	6873	19.13		31.0	20.003	13891	17.75		4.6

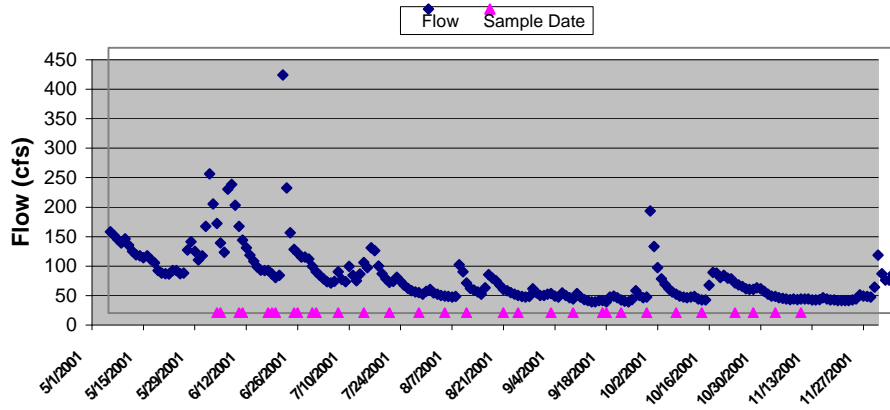
Staff gage readings and estimated flows for all Lehigh River tributaries sampled from May 30-November 4, 2001

	14.7	9.497	6595	19.13		31.0	20.003	13891	19.13		5.9
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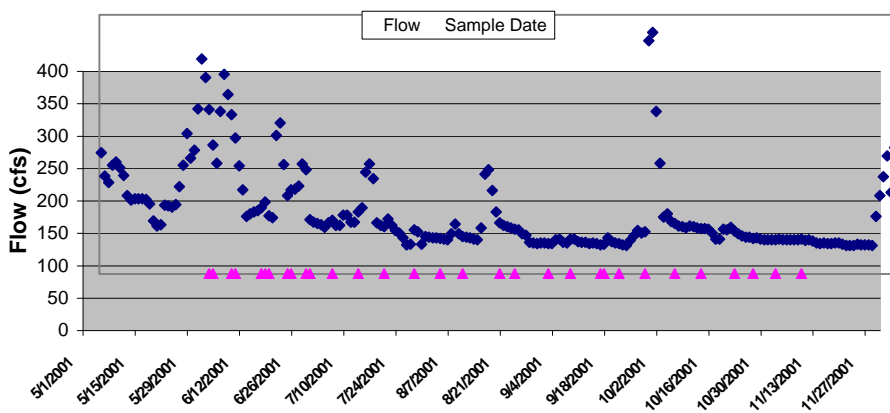
STATION	DATE	S_ Al-dissolve	S_ (Cd-dissolve	S_ F Fe-dissolve	S_ Mn-dissolve	S_ Z Zn-dissolve
LH2	6/21/2001	0.03	< 0.005	< 0.005	0.084	< 0.005
LH3	6/21/2001	< 0.02	< 0.005	< 0.005	0.023	< 0.005
LH6	6/20/2001	0.21	< 0.005	0.014	0.064	< 0.005
LH7	6/20/2001	0.22	< 0.005	0.046	0.067	< 0.005
LH8	6/20/2001	0.03	< 0.005	< 0.005	0.033	< 0.005
LH10	6/20/2001	0.03	< 0.005	< 0.005	0.042	< 0.005
LH14	6/20/2001	< 0.02	< 0.005	< 0.005	0.116	0.629
LH17	6/20/2001	< 0.02	< 0.005	< 0.005	0.027	0.038

DRBC Chronic	0.087	0.001	none	none	0.082
PADEP			1.5	1	
NJDEP Chronic	none	none	none	none	0.1
EPA Chronic	none	0.002	none	none	0.12

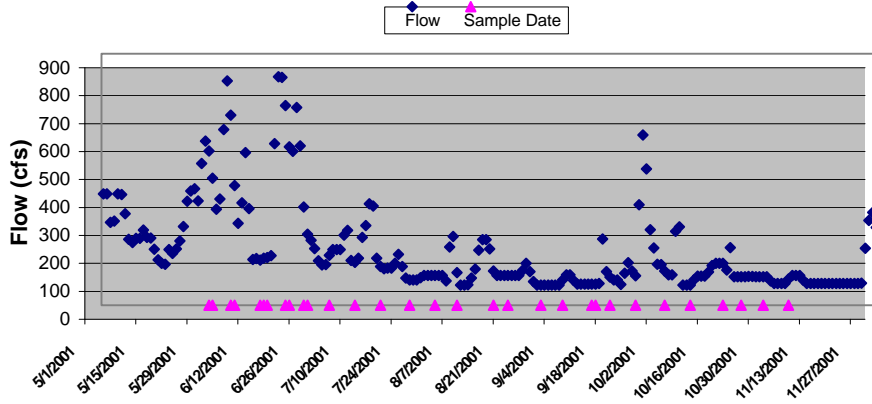
Lehigh River at Stoddartsville, PA (01447500)



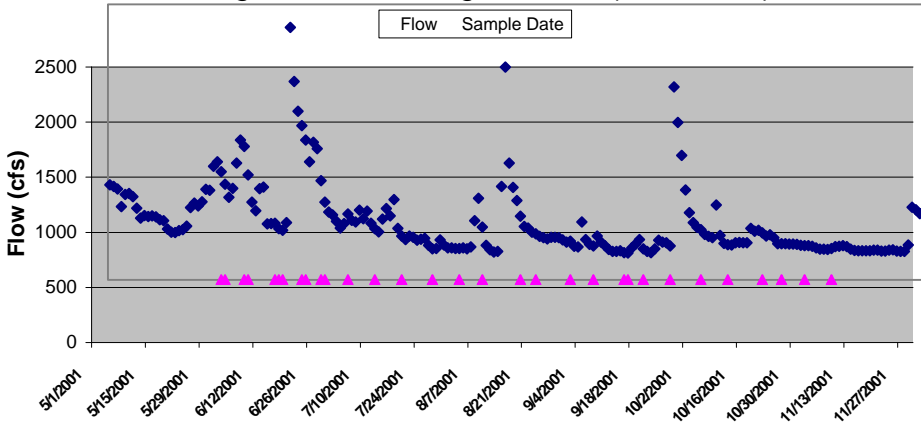
Tobyhanha Creek (01447720)

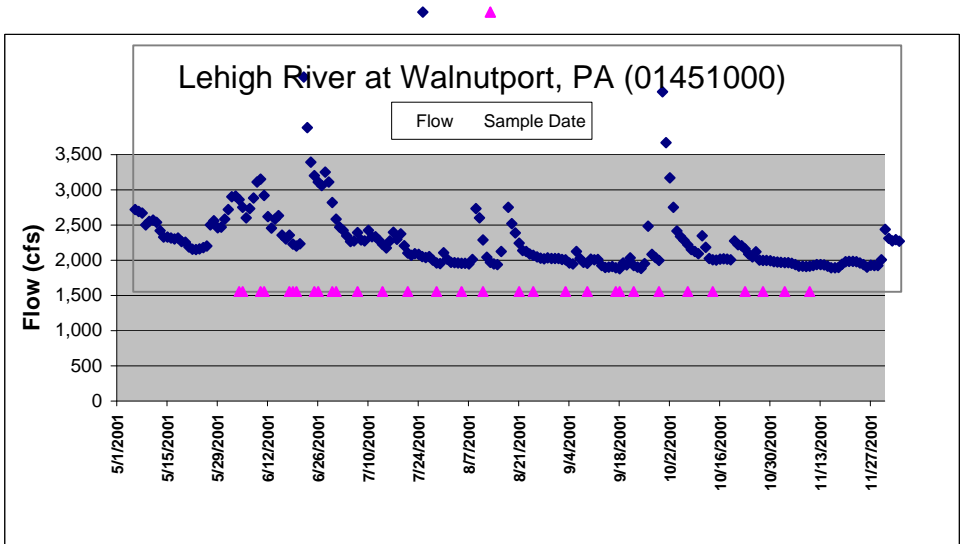
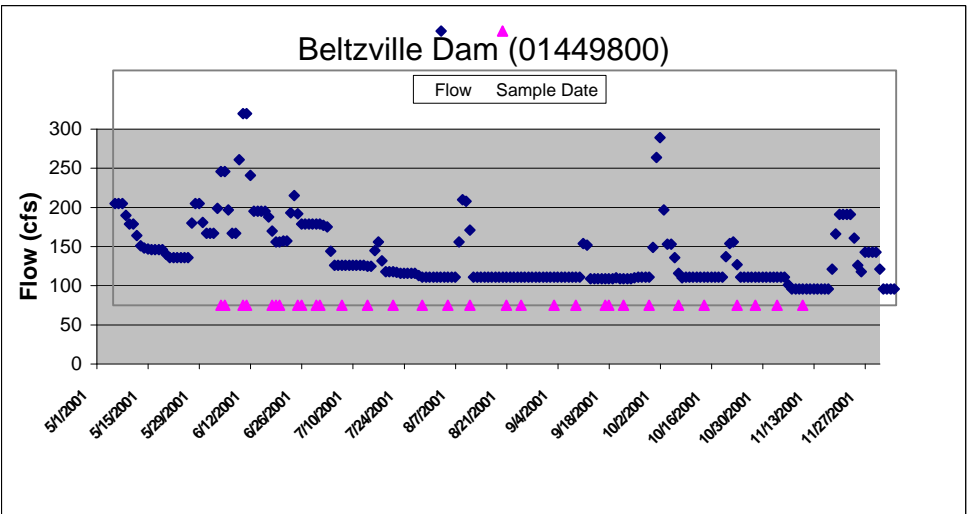
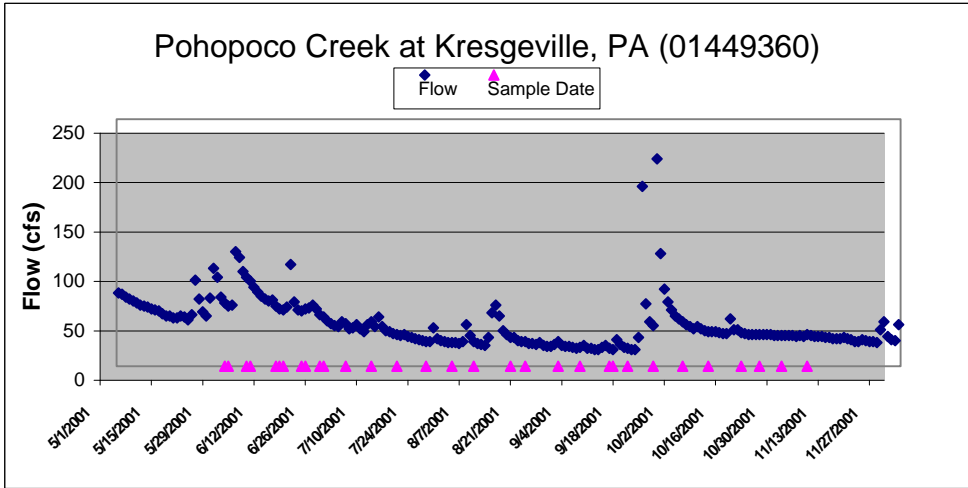


Francis E. Walter Reservoir (01447800)



Lehigh River at Lehighton, PA (01449000)





TRIP	STATION	DATE	S_ALK	S_NH3-N	S_BOD-5	S_NITRATE	S_NITRITE	S_P, diss	S_PO4, diss	S_SIO2-diss	S_TIC	S_TOC
1	LH1	5/31/2001	7	< 0.1	< 3	0.7	< 0.005	< 0.05	0.07	< 1	< 5	< 5
	LH2	5/30/2001	5	< 0.1	< 3	0.6	< 0.005	< 0.05	< 0.05	1	< 5	< 5
	LH3	5/30/2001	6	< 0.1	< 3	0.6	< 0.005	< 0.05	< 0.05	< 1	< 5	< 5
	LH4	5/30/2001	4	< 0.1	< 3	0.6	< 0.005	< 0.05	0.06	< 1	< 5	< 5
	LH5	5/30/2001	< 1	< 0.1	< 3	0.6	< 0.005	< 0.05	0.06	2	< 5	< 5
	LH6	5/30/2001	< 1	< 0.1	< 3	0.9	< 0.005	< 0.05	0.05	< 2	< 5	< 5
	LH7	5/30/2001	2	< 0.1	< 3	0.7	< 0.005	< 0.05	0.05	< 2	< 5	< 5
	LH8	5/30/2001	5	< 0.1	< 3	0.6	< 0.005	< 0.05	< 0.05	< 1	< 5	< 5
	LH9	5/31/2001	22	< 0.1	< 3	0.6	< 0.005	< 0.05	0.12	1	< 5	< 5
	LH10	5/30/2001	6	< 0.1	< 3	0.6	< 0.005	< 0.05	0.05	< 2	< 5	< 5
	LH11	5/30/2001	23	0.7	< 3	1.6	0.028	0.11	0.35	1	< 5	< 5
	LH12	5/30/2001	11	< 0.1	< 3	0.9	< 0.005	< 0.05	< 0.05	3	< 5	< 5
	LH13	5/30/2001	26	< 0.1	< 3	1.2	0.006	< 0.05	< 0.05	< 2	< 5	< 5
	LH14	5/30/2001	34	0.3	< 3	1.3	0.012	< 0.05	0.07	< 2	< 5	7
	LH15	5/30/2001	14	0.1	< 3	0.8	< 0.005	< 0.05	0.07	1	< 5	< 5
	LH16	5/31/2001	46	< 0.1	< 3	1.6	< 0.005	< 0.05	0.06	< 2	< 5	10
	LH17	5/31/2001	15	< 0.1	< 3	0.9	< 0.005	< 0.05	< 0.05	1	< 5	< 5
2	LH1	6/5/2001	6	< 0.1	< 3	0.4	< 0.005	< 0.05	0.06	1.3	< 5	< 5
	LH2	6/6/2001	4	< 0.1	< 3	0.4	< 0.005	< 0.05	0.06	2.4	< 5	< 5
	LH3	6/6/2001	4	< 0.1	< 3	0.4	< 0.005	< 0.05	0.09	1.5	< 5	< 5
	LH4	6/6/2001	4	< 0.1	< 3	0.5	< 0.005	< 0.05	0.07	1.7	< 5	< 5
	LH5	6/5/2001	< 1	< 0.1	< 3	0.5	< 0.005	< 0.05	0.07	2	< 5	< 5
	LH6	6/5/2001	< 1	< 0.1	< 3	0.7	< 0.005	< 0.05	0.09	2.6	< 5	< 5
	LH7	6/5/2001	< 1	< 0.1	< 3	0.5	< 0.005	< 0.05	0.07	1.6	< 5	< 5
	LH8	6/5/2001	4	0.2	< 3	0.8	< 0.005	< 0.05	0.09	2.2	< 5	< 5
	LH9	6/5/2001	12	0.2	< 3	0.4	0.005	0.09	0.27	1.4	< 5	< 5
	LH10	6/5/2001	6	0.2	< 3	0.4	0.005	< 0.05	0.07	3	< 5	< 5
	LH11	6/5/2001	22	0.3	< 3	1.5	0.042	0.11	0.35	1.4	< 5	< 5
	LH12	6/5/2001	10	0.1	< 3	0.7	0.006	< 0.05	0.09	1.3	< 5	< 5
	LH13	6/5/2001	24	< 0.1	< 3	1	0.008	< 0.05	0.08	1.4	< 5	< 5
	LH14	6/5/2001	34	0.2	< 3	0.7	0.013	< 0.05	0.12	2.6	< 5	< 5
	LH15	6/5/2001	10	0.1	< 3	0.8	0.006	0.08	0.24	2.2	< 5	< 5
	LH16	6/5/2001	26	0.1	< 3	0.8	0.012	0.09	0.27	1.6	< 5	< 5
	LH17	6/5/2001	12	0.1	< 3	0.6	0.007	0.05	0.15	1.3	< 5	< 5

TRIP	STATION	DATE	S_ALK	S_NH3-N	S_BOD-5	S_NITRATE	S_NITRITE	S_P, diss	S_PO4, diss	S_SIO2-diss	S_TIC	S_TOC
3	LH1	6/13/2001	8	0.2	< 2	< 0.1	< 0.005	< 0.05	0.05	2	< 5	< 5
	LH2	6/13/2001	7	0.2	< 2	0.1	< 0.005	< 0.05	0.05	2	< 5	< 5
	LH3	6/13/2001	6	< 0.1	< 2	< 0.1	0.005	< 0.05	0.07	2	< 5	< 5
	LH4	6/13/2001	5	< 0.1	< 2	< 0.1	< 0.005	< 0.05	< 0.05	2	< 5	< 5
	LH5	6/13/2001	< 1	0.2	< 2	< 0.1	< 0.005	< 0.05	< 0.05	3	< 5	< 5
	LH6	6/13/2001	< 1	< 0.1	< 2	< 0.1	< 0.005	< 0.05	< 0.05	2	< 5	< 5
	LH7	6/13/2001	9	< 0.1	< 2	< 0.1	< 0.005	< 0.05	0.13	2	< 5	< 5
	LH8	6/13/2001	7	< 0.1	< 2	< 0.1	< 0.005	< 0.05	< 0.05	3	< 5	< 5
	LH9	6/14/2001	19	0.1	4	< 0.1	< 0.005	0.05	0.15	2	< 5	< 5
	LH10	6/14/2001	10	0.2	< 2	< 0.1	< 0.005	< 0.05	< 0.05	2	< 5	< 5
	LH11	6/14/2001	25	0.2	10	< 0.1	0.025	0.11	0.35	2	< 5	9
	LH12	6/14/2001	14	0.3	< 2	< 0.1	< 0.005	< 0.05	0.05	2.3	< 5	< 5
	LH13	6/14/2001	13	1.1	< 2	< 0.1	< 0.005	< 0.05	0.06	2	< 5	< 5
	LH14	6/15/2001	41	< 0.1	< 2	< 0.1	0.017	< 0.05	< 0.05	1.5	< 5	< 5
	LH15	6/15/2001	16	< 0.1	< 2	0.4	0.005	< 0.05	< 0.05	0.9	< 5	< 5
	LH16	6/15/2001	31	< 0.1	< 2	< 0.1	0.006	< 0.05	0.09	1.9	< 5	< 5
	LH17	6/15/2001	18	< 0.1	< 2	< 0.1	0.006	< 0.05	< 0.05	0.8	< 5	< 5
4	LH1	6/21/2001	7	< 0.1	< 2	0.1	< 0.005	< 0.05	< 0.05	< 1	< 5	5
	LH2	6/21/2001	4	< 0.1	< 2	0.1	< 0.005	< 0.05	< 0.05	< 1	< 5	5
	LH3	6/21/2001	5	< 0.1	< 2	0.1	< 0.005	0.06	< 0.05	< 1	< 5	5
	LH4	6/21/2001	4	< 0.1	< 2	0.1	< 0.005	< 0.05	0.08	< 1	< 5	< 5
	LH5	6/20/2001	< 1	< 0.1	< 2	0.2	< 0.005	< 0.05	0.08	< 1	< 5	< 5
	LH6	6/20/2001	1	< 0.1	< 2	0.3	< 0.005	0.07	0.21	2	< 5	< 5
	LH7	6/20/2001	1	< 0.1	< 2	0.2	< 0.005	< 0.05	0.11	1	< 5	< 5
	LH8	6/20/2001	3	< 0.1	< 2	0.1	< 0.005	< 0.05	0.06	1	< 5	< 5
	LH9	6/20/2001	11	< 0.1	< 2	0.1	< 0.005	0.05	0.14	2	< 5	< 5
	LH10	6/20/2001	5	< 0.1	< 2	0.1	< 0.005	< 0.05	< 0.05	1	< 5	< 5
	LH11	6/20/2001	18	0.2	< 2	0.9	0.026	0.32	0.1	1	< 5	< 5
	LH12	6/20/2001	15	< 0.1	< 2	0.3	< 0.005	< 0.05	< 0.05	< 1	< 5	< 5
	LH13	6/20/2001	23	< 0.1	< 2	0.9	0.008	< 0.05	< 0.05	1	< 5	< 5
	LH14	6/20/2001	42	0.2	< 2	0.4	0.018	< 0.05	0.09	1	< 5	11
	LH15	6/20/2001	9	< 0.1	< 2	0.3	< 0.005	0.11	< 0.05	1	< 5	< 5
	LH16	6/20/2001	27	< 0.1	< 2	0.3	0.007	0.14	< 0.05	2	6	< 5
	LH17	6/20/2001	9	< 0.1	< 2	0.2	< 0.005	< 0.05	< 0.05	1	< 5	< 5

TRIP	STATION	DATE	S_ALK	S_NH3-N	S_BOD-5	S_NITRATE	S_NITRITE	S_P, diss	S_PO4, diss	S_SIO2-diss	S_TIC	S_TOC
5	LH1	6/26/2001	6	< 0.1	< 3	0.1	< 0.005	< 0.05	0.12	< 1	< 5	5
	LH2	6/26/2001	2	< 0.1	< 3	0.2	< 0.005	0.11	< 0.05	< 1	< 5	< 5
	LH3	6/25/2001	8	< 0.1	< 3	0.3	0.007	< 0.05	0.13	< 1	< 5	< 5
	LH4	6/25/2001	4	< 0.1	< 3	0.5	< 0.005	0.71	2.18	1	< 5	< 5
	LH5	6/25/2001	< 1	< 0.1	< 3	0.3	< 0.005	0.07	< 0.05	1	< 5	< 5
	LH6	6/25/2001	1	< 0.1	< 3	0.2	< 0.005	0.06	0.19	1	< 5	< 5
	LH7	6/25/2001	< 1	0.2	< 3	0.2	< 0.005	0.06	0.18	2	< 5	< 5
	LH8	6/25/2001	4	< 0.1	< 3	0.2	< 0.005	0.17	0.52	1	< 5	< 5
	LH9	6/25/2001	16	< 0.1	< 3	0.2	< 0.005	0.58	0.19	< 1	< 5	< 5
	LH10	6/25/2001	7	< 0.1	< 3	0.2	< 0.005	0.13	< 0.05	2	< 5	< 5
	LH11	6/25/2001	18	0.1	< 3	0.1	0.022	0.28	0.09	< 1	< 5	< 5
	LH12	6/25/2001	10	< 0.1	< 3	0.1	0.005	0.11	< 0.05	2	< 5	< 5
	LH13	6/25/2001	20	0.1	< 3	0.1	0.007	0.16	0.05	2	< 5	< 5
	LH14	6/25/2001	37	0.2	< 3	0.1	0.019	0.18	0.06	< 1	< 5	< 5
	LH15	6/25/2001	12	< 0.1	< 3	0.2	0.005	0.06	0.18	1	< 5	< 5
	LH16	6/25/2001	35	0.1	< 3	0.2	0.011	0.18	0.06	2	< 5	6
	LH17	6/25/2001	16	< 0.1	< 3	0.2	0.006	0.17	0.06	1	< 5	< 5
6	LH1	7/2/2001	10	< 0.1	< 2	0.148	< 0.01	< 0.05	< 0.05	< 1	< 5	5
	LH2	7/2/2001	6	< 0.1	< 2	0.136	< 0.01	0.22	0.07	3	< 5	< 5
	LH3	7/2/2001	7	< 0.1	< 2	0.167	< 0.01	< 0.05	0.12	2.2	< 5	< 5
	LH4	7/2/2001	6	< 0.1	< 2	< 0.01	< 0.01	< 0.05	0.11	2.6	< 5	< 5
	LH5	7/2/2001	< 1	< 0.1	< 2	0.292	< 0.01	0.12	< 0.05	< 5	< 5	< 5
	LH6	7/2/2001	< 1	< 0.1	< 2	0.502	< 0.01	< 0.05	0.09	3	< 5	< 5
	LH7	7/2/2001	< 1	0.1	< 2	0.301	< 0.01	< 0.05	0.11	2.2	< 5	< 5
	LH8	7/2/2001	4	< 0.1	< 2	0.168	< 0.01	0.09	< 0.05	2.6	< 5	< 5
	LH9	7/2/2001	24	0.1	< 2	0.453	< 0.01	0.07	0.22	< 2	< 5	< 5
	LH10	7/2/2001	8	0.2	< 2	0.229	< 0.01	< 0.05	0.09	2.9	< 5	< 5
	LH11	7/2/2001	22	0.7	< 2	1.798	< 0.01	0.15	0.47	3.2	< 5	< 5
	LH12	7/2/2001	12	0.2	< 2	0.784	< 0.01	0.06	< 0.05	2.8	< 5	< 5
	LH13	7/2/2001	27	0.2	< 2	1.128	< 0.01	0.1	< 0.05	2.9	< 5	< 5
	LH14	7/2/2001	40	0.5	< 2	1.31	< 0.01	< 0.05	0.07	2.7	< 5	< 5
	LH15	7/2/2001	18	0.2	< 2	0.518	< 0.01	0.09	< 0.05	2	< 5	< 5
	LH16	7/2/2001	37	0.3	< 2	1.142	< 0.01	0.06	0.18	2.6	< 5	< 5
	LH17	7/2/2001	21	0.3	< 2	0.727	< 0.01	< 0.05	0.11	1.6	< 5	< 5

TRIP	STATION	DATE	S_ALK	S_NH3-N	S_BOD-5	S_NITRATE	S_NITRITE	S_P, diss	S_PO4, diss	S_SIO2-diss	S_TIC	S_TOC
7	LH1	7/10/2001	7	0.2	< 3	< 0.01	< 0.01	< 0.05	< 0.05	< 1	< 5	< 5
	LH2	7/10/2001	6	0.2	< 3	< 0.01	0.307	< 0.05	< 0.05	< 1	< 5	< 5
	LH3	7/10/2001	7	0.2	< 3	0.975	0.333	< 0.05	0.05	< 1	< 5	< 5
	LH4	7/10/2001	4	0.1	< 3	< 0.01	0.82	< 0.05	< 0.05	< 1	< 5	< 5
	LH5	7/10/2001	1	0.1	< 3	0.343	< 0.01	< 0.05	< 0.05	1.2	< 5	< 5
	LH6	7/10/2001	1	< 0.1	< 3	0.68	< 0.01	< 0.05	< 0.05	1.2	< 5	< 5
	LH7	7/10/2001	1	< 0.1	< 3	0.663	< 0.01	< 0.05	< 0.05	1.4	< 5	< 5
	LH8	7/10/2001	4	< 0.1	< 3	0.275	< 0.01	< 0.05	< 0.05	< 1	< 5	< 5
	LH9	7/10/2001	34	< 0.1	< 3	0.762	< 0.01	0.08	0.26	1.1	< 5	< 5
	LH10	7/10/2001	8	< 0.1	< 3	0.221	< 0.01	< 0.05	< 0.05	< 1	< 5	< 5
	LH11	7/10/2001	25	0.3	4	4.216	< 0.01	0.22	0.67	1.6	< 5	< 5
	LH12	7/10/2001	13	< 0.1	< 3	2.197	< 0.01	< 0.05	< 0.05	1.6	< 5	< 5
	LH13	7/10/2001	30	0.1	< 3	1.189	< 0.01	< 0.05	< 0.05	1.7	< 5	< 5
	LH14	7/10/2001	48	< 0.1	< 3	1.239	< 0.01	< 0.05	0.14	2.3	< 5	< 5
	LH15	7/10/2001	18	< 0.1	< 3	0.691	< 0.01	< 0.05	0.09	2.2	< 5	< 5
	LH16	7/10/2001	36	< 0.1	< 3	1.102	< 0.01	0.06	0.2	< 2	< 5	< 5
	LH17	7/10/2001	34	< 0.1	< 3	0.69	< 0.01	< 0.05	0.1	< 1	< 5	< 5
8	LH1	7/16/2001	8	< 0.1	< 2	0.1	< 0.005	< 0.05	0.06	< 1	< 5	< 5
	LH2	7/16/2001	8	0.2	< 2	0.1	< 0.005	< 0.05	0.12	< 1	< 5	< 5
	LH3	7/16/2001	8	< 0.1	< 2	0.2	0.007	< 0.05	0.08	< 1	< 5	< 5
	LH4	7/16/2001	4	0.1	< 2	0.2	< 0.005	< 0.05	0.07	1.3	< 5	< 5
	LH5	7/16/2001	< 1	0.1	< 2	0.2	< 0.005	< 0.05	0.08	1.7	< 5	< 5
	LH6	7/16/2001	2	0.1	< 2	0.4	< 0.005	0.12	0.36	3	< 5	< 5
	LH7	7/16/2001	3	0.1	< 2	0.2	< 0.005	< 0.05	< 0.05	1.3	< 5	< 5
	LH8	7/16/2001	5	0.1	< 2	0.1	< 0.005	< 0.05	0.05	1.3	< 5	< 5
	LH9	7/16/2001	43	0.2	< 2	0.4	< 0.005	0.09	0.29	3.2	5	< 5
	LH10	7/16/2001	8	< 0.1	< 2	0.2	< 0.005	< 0.05	0.1	1.4	< 5	< 5
	LH11	7/16/2001	31	0.1	7	1.1	0.122	0.42	1.28	1.7	< 5	< 5
	LH12	7/16/2001	13	0.1	< 2	0.3	0.005	< 0.05	0.07	1.9	< 5	< 5
	LH13	7/16/2001	32	< 0.1	< 2	0.5	0.005	< 0.05	0.08	1.4	< 5	< 5
	LH14	7/16/2001	54	0.3	< 2	0.5	0.046	0.07	0.22	1.4	6	< 5
	LH15	7/16/2001	16	< 0.1	< 2	0.4	0.005	< 0.05	0.08	1.1	< 5	< 5
	LH16	7/16/2001	38	< 0.1	< 2	0.6	0.005	0.07	0.2	< 1	< 5	< 5
	LH17	7/16/2001	21	< 0.1	< 2	0.8	0.005	< 0.05	0.11	< 1	< 5	< 5

TRIP	STATION	DATE	S_ALK	S_NNH3-N	S_BOD-5	S_NITRATE	S_NITRITE	S_P, diss	S_PO4, diss	S_SIO2-diss	S_TIC	S_TOC
9	LH1	7/24/2001	10	< 0.1	< 2	< 0.1	< 0.005	0.08	0.24	< 1	< 5	< 5
	LH2	7/25/2001	7	0.11	< 2	0.133	< 0.005	< 0.05	0.11	< 1	< 5	< 5
	LH3	7/24/2001	7	< 0.1	< 2	< 0.1	< 0.005	0.41	1.24	< 1	< 5	< 5
	LH4	7/24/2001	4	< 0.1	< 2	0.138	< 0.005	< 0.05	0.08	1.14	< 5	< 5
	LH5	7/24/2001	< 1	0.248	< 2	0.13	< 0.005	< 0.05	0.06	< 1	< 5	< 5
	LH6	7/24/2001	< 1	< 0.1	< 2	0.185	< 0.005	0.05	0.16	1.47	< 5	< 5
	LH7	7/24/2001	< 1	0.136	< 2	0.128	< 0.005	1.15	3.53	1.35	< 5	< 5
	LH8	7/24/2001	40	0.151	< 2	< 0.1	< 0.005	< 0.05	0.07	1.69	< 5	< 5
	LH9	7/24/2001	42	0.174	< 2	0.141	< 0.005	0.11	0.34	< 1	< 5	< 5
	LH10	7/24/2001	7.86	0.116	< 2	< 0.1	< 0.005	0.72	2.22	1.19	< 5	< 5
	LH11	7/24/2001	14	0.974	< 2	0.756	0.077	0.32	0.99	1.12	< 5	< 5
	LH12	7/24/2001	22	0.142	< 2	0.101	< 0.005	0.08	0.26	1.06	< 5	< 5
	LH13	7/24/2001	32	0.158	< 2	0.12	< 0.005	< 0.05	0.09	1.62	< 5	< 5
	LH14	7/24/2001	48	0.147	< 2	0.179	0.028	0.09	0.29	3.13	< 5	< 5
	LH15	7/24/2001	17	< 0.1	< 2	0.123	< 0.005	< 0.05	0.08	2.39	< 5	< 5
	LH16	7/24/2001	38	0.149	< 2	0.312	< 0.005	0.07	0.2	< 2	< 5	< 5
	LH17	7/24/2001	18	< 0.1	< 2	0.151	0.005	0.09	0.26	1.13	< 5	< 5
10	LH1	7/31/2001	8	< 0.1	< 2	< 0.1	< 0.005	< 0.05	< 0.05	< 1	< 5	< 5
	LH2	8/1/2001	9	< 0.1	< 2	0.113	< 0.005	0.39	1.2	< 1	< 5	< 5
	LH3	7/31/2001	9	< 0.1	< 2	0.232	0.007	< 0.05	0.09	< 1	< 5	< 5
	LH4	7/31/2001	4	< 0.1	< 2	0.184	< 0.005	< 0.05	< 0.05	1.26	< 5	< 5
	LH5	7/31/2001	< 1	< 0.1	< 2	0.119	< 0.005	0.16	0.48	2.48	< 5	< 5
	LH6	7/31/2001	< 1	< 0.1	< 2	0.199	< 0.005	< 0.05	0.06	2.93	< 5	< 5
	LH7	7/31/2001	< 1	< 0.1	< 2	0.333	< 0.005	< 0.05	0.13	2.51	< 5	< 5
	LH8	7/31/2001	5	< 0.1	< 2	0.176	< 0.005	0.39	1.2	< 1	< 5	< 5
	LH9	7/31/2001	44	0.105	< 2	0.219	< 0.005	0.07	0.23	1.74	6.6	< 5
	LH10	7/31/2001	7	< 0.1	< 2	0.107	< 0.005	< 0.05	0.06	< 1	< 5	< 5
	LH11	7/31/2001	26	< 0.1	< 2	1.04	0.092	0.35	1.09	< 1	< 5	< 5
	LH12	7/31/2001	12	0.85	< 2	0.176	< 0.005	< 0.05	0.09	< 1	< 5	< 5
	LH13	7/31/2001	34	< 0.1	< 2	1.09	< 0.005	< 0.05	0.07	< 1	< 5	< 5
	LH14	7/31/2001	55	0.178	< 2	0.34	0.057	0.05	0.15	< 1	< 5	< 5
	LH15	7/31/2001	18	< 0.1	< 2	0.119	0.009	< 0.05	0.09	1.18	< 5	< 5
	LH16	7/31/2001	35	0.137	< 2	0.247	0.006	0.06	0.17	< 1	< 5	< 5
	LH17	7/31/2001	19	< 0.1	< 2	0.162	0.006	< 0.05	0.05	< 1	< 5	< 5

TRIP	STATION	DATE	S_ALK	S_NH3-N	S_BOD-5	S_NITRATE	S_NITRITE	S_P, diss	S_PO4, diss	S_SIO2-diss	S_TIC	S_TOC
11	LH1	8/6/2001	13	< 0.1	< 2	0.164	< 0.01	< 0.05	0.09	< 1	< 5	< 5
	LH2	8/6/2001	8	< 0.1	< 2	0.179	< 0.01	< 0.05	0.07	< 1	< 5	< 5
	LH3	8/6/2001	10	< 0.1	< 2	0.223	< 0.01	3.14	9.63	< 1	< 5	< 5
	LH4	8/6/2001	6	< 0.1	< 2	0.139	< 0.01	< 0.05	< 0.05	1.39	< 5	< 5
	LH5	8/6/2001	4	< 0.1	< 2	0.248	< 0.01	< 0.05	< 0.05	2.19	< 5	< 5
	LH6	8/6/2001	4	< 0.1	< 2	0.699	< 0.01	< 0.05	0.09	2.2	< 5	< 5
	LH7	8/6/2001	5	< 0.1	< 2	0.355	< 0.01	< 0.05	0.05	< 1	< 5	< 5
	LH8	8/6/2001	9	< 0.1	< 2	0.2	< 0.01	< 0.05	< 0.05	1.35	< 5	< 5
	LH9	8/6/2001	32	< 0.1	< 2	0.519	0.067	0.11	0.33	1.52	< 5	< 5
	LH10	8/6/2001	14	< 0.1	< 2	0.219	< 0.01	< 0.05	0.05	1.25	< 5	< 5
	LH11	8/6/2001	40	0.43	3	2.194	0.554	0.29	0.89	1	< 5	< 5
	LH12	8/6/2001	16	< 0.1	< 2	0.737	< 0.01	< 0.05	0.06	< 1	< 5	< 5
	LH13	8/6/2001	10	< 0.1	< 2	1.01	< 0.01	< 0.05	0.08	1.25	< 5	< 5
	LH14	8/6/2001	60	< 0.1	< 2	0.771	< 0.01	0.05	0.15	1.03	< 5	< 5
	LH15	8/6/2001	18	< 0.1	< 2	0.472	< 0.01	< 0.05	0.09	< 1	< 5	< 5
	LH16	8/6/2001	36	< 0.1	< 2	0.496	< 0.01	< 0.05	0.09	< 1	< 5	< 5
	LH17	8/6/2001	20	< 0.1	< 2	0.584	< 0.01	0.06	0.18	< 1	< 5	< 5
12	LH1	8/16/2001	9	< 0.1	< 2	0.093	< 0.01	< 0.05	0.07	< 1	< 1	6
	LH2	8/16/2001	10	< 0.1	< 2	0.144	< 0.01	< 0.05	0.09	< 1	< 1	6
	LH3	8/16/2001	10	< 0.1	< 2	0.177	< 0.01	< 0.05	0.11	< 1	< 1	6
	LH4	8/16/2001	4	< 0.1	< 2	0.134	< 0.01	< 0.05	0.07	< 1	< 1	3
	LH5	8/16/2001	< 1	< 0.1	< 2	0.198	< 0.01	< 0.05	0.07	< 1	1	2
	LH6	8/16/2001	< 1	< 0.1	< 2	0.531	< 0.01	< 0.05	0.06	< 1	< 1	4
	LH7	8/16/2001	2	< 0.1	< 2	0.413	< 0.01	< 0.05	0.05	< 1	< 1	3
	LH8	8/16/2001	2	< 0.1	< 2	0.209	< 0.01	< 0.05	0.07	< 1	< 1	3
	LH9	8/16/2001	34	< 0.1	< 2	0.318	< 0.01	0.09	0.27	< 1	6	1
	LH10	8/16/2001	6	< 0.1	< 2	0.225	< 0.01	< 0.05	0.07	< 1	< 1	3
	LH11	8/16/2001	28	0.43	3	2.142	0.441	0.3	0.91	< 1	< 1	5
	LH12	8/16/2001	14	< 0.1	< 2	0.836	< 0.01	< 0.05	0.11	< 1	< 1	2
	LH13	8/16/2001	34	< 0.1	< 2	0.509	< 0.01	< 0.05	0.07	< 1	< 1	3
	LH14	8/16/2001	57	< 0.1	< 2	1.065	< 0.01	0.12	0.36	< 1	1	2
	LH15	8/16/2001	14	< 0.1	< 2	0.419	< 0.01	< 0.05	0.07	< 1	< 1	2
	LH16	8/16/2001	32	< 0.1	< 2	0.73	< 0.01	0.05	0.15	< 1	< 1	3
	LH17	8/16/2001	11	< 0.1	< 2	0.625	0.49	< 0.05	0.08	< 1	< 1	3

TRIP	STATION	DATE	S_ALK	S_NNH3-N	S_BOD-5	S_NITRATE	S_NITRITE	S_P, diss	S_PO4, diss	S_SIO2-diss	S_TIC	S_TOC
13	LH1	8/20/2001	9	0.42	< 3	0.116	< 0.01	< 0.05	0.07	< 1	< 5	6
	LH2	8/20/2001	8	0.31	< 3	0.113	< 0.01	< 0.05	0.05	< 1	< 5	6
	LH3	8/20/2001	10	0.18	< 3	0.139	< 0.01	< 0.05	0.08	< 1	< 1	5
	LH4	8/20/2001	4	< 0.1	< 3	0.116	< 0.01	< 0.05	0.06	< 1	< 1	2
	LH5	8/20/2001	< 1	0.27	< 3	0.15	< 0.01	< 0.05	0.05	< 1	< 1	2
	LH6	8/20/2001	< 1	0.14	< 3	0.459	< 0.01	< 0.05	< 0.05	< 1	< 1	2
	LH7	8/20/2001	1	0.47	< 3	0.299	< 0.01	< 0.05	0.07	< 1	< 1	2
	LH8	8/20/2001	2	< 0.1	< 3	0.148	< 0.01	< 0.05	0.06	< 1	< 1	2
	LH9	8/20/2001	33	0.17	< 3	0.585	< 0.01	0.11	0.35	< 1	< 1	2
	LH10	8/20/2001	6	< 0.1	< 3	0.191	< 0.01	< 0.05	0.05	< 1	< 1	2
	LH11	8/20/2001	30	0.45	< 3	1.939	0.313	0.47	1.44	< 1	1	5
	LH12	8/20/2001	16	0.25	< 3	0.59	< 0.01	< 0.05	0.05	< 1	< 1	3
	LH13	8/20/2001	37	0.17	< 3	0.284	< 0.01	< 0.05	0.05	< 1	< 1	3
	LH14	8/20/2001	61	< 0.1	4	0.523	< 0.01	0.07	0.22	< 1	2	2
	LH15	8/20/2001	12	0.22	< 3	0.257	< 0.01	< 0.05	< 0.05	< 1	< 1	2
	LH16	8/20/2001	32	0.11	< 3	0.68	< 0.01	0.09	0.27	< 1	1	4
	LH17	8/20/2001	12	< 0.1	< 3	0.274	< 0.01	< 0.05	0.07	< 1	< 1	2
14	LH1	8/29/2001	8	< 0.1	< 2	0.093	< 0.01	< 0.05	0.07	< 1	< 5	< 5
	LH2	8/29/2001	8	< 0.1	< 2	0.117	< 0.01	< 0.05	0.09	< 1	< 5	< 5
	LH3	8/29/2001	10	< 0.1	< 2	0.15	< 0.01	< 0.05	0.13	< 1	< 5	< 5
	LH4	8/29/2001	4	< 0.1	< 2	0.091	< 0.01	< 0.05	0.07	< 1	< 5	< 5
	LH5	8/29/2001	< 1	< 0.1	< 2	0.182	< 0.01	< 0.05	0.05	< 1	< 5	< 5
	LH6	8/29/2001	< 1	< 0.1	< 2	0.505	< 0.01	< 0.05	0.07	< 1	< 5	< 5
	LH7	8/29/2001	< 1	< 0.1	< 2	0.311	< 0.01	< 0.05	0.07	< 1	< 5	< 5
	LH8	8/29/2001	6	< 0.1	< 2	0.169	< 0.01	< 0.05	0.07	< 1	< 5	< 5
	LH9	8/29/2001	50	< 0.1	< 2	0.469	< 0.01	0.13	0.4	< 1	6	< 5
	LH10	8/29/2001	16	< 0.1	< 2	0.144	< 0.01	< 0.05	0.07	< 1	< 5	< 5
	LH11	8/29/2001	44	0.4	< 2	0.337	< 0.01	0.33	1.02	< 1	5	< 5
	LH12	8/29/2001	16	< 0.1	< 2	0.571	< 0.01	< 0.05	0.08	< 1	< 5	< 5
	LH13	8/29/2001	50	< 0.1	< 2	0.393	< 0.01	< 0.05	0.11	< 1	6	< 5
	LH14	8/29/2001	86	< 0.1	< 2	0.761	< 0.01	0.12	0.36	< 1	6	< 5
	LH15	8/29/2001	20	0.18	< 2	0.25	< 0.01	< 0.05	0.07	< 1	< 5	< 5
	LH16	8/29/2001	70	< 0.1	< 2	1.491	< 0.01	0.16	0.48	< 1	7	< 5
	LH17	8/29/2001	20	< 0.1	< 2	0.219	< 0.01	< 0.05	0.06	< 1	< 5	< 5

TRIP	STATION	DATE	S_ALK	S_NNH3-N	S_BOD-5	S_NITRATE	S_NITRITE	S_P, diss	S_PO4, diss	S_SIO2-diss	S_TIC	S_TOC
15	LH1	9/4/2001	8	< 0.1	< 2	0.128	< 0.01	< 0.05	0.09	< 1	< 5	< 5
	LH2	9/4/2001	10	< 0.1	< 2	0.088	< 0.01	< 0.05	0.08	< 1	< 5	< 5
	LH3	9/4/2001	12	< 0.1	< 2	0.139	< 0.01	0.05	0.15	< 1	< 5	< 5
	LH4	9/4/2001	4	< 0.1	< 2	0.11	< 0.01	< 0.05	0.08	< 1	< 5	< 5
	LH5	9/4/2001	< 1	< 0.1	< 2	0.163	< 0.01	< 0.05	0.06	< 1	< 5	< 5
	LH6	9/4/2001	< 1	< 0.1	< 2	0.528	< 0.01	< 0.05	0.07	< 1	< 5	< 5
	LH7	9/4/2001	< 1	< 0.1	< 2	0.292	< 0.01	< 0.05	0.07	< 1	< 5	< 5
	LH8	9/4/2001	6	< 0.1	< 2	0.101	< 0.01	< 0.05	0.08	< 1	< 5	< 5
	LH9	9/4/2001	42	0.1	< 2	0.81	< 0.01	0.12	0.37	< 1	5.5	< 5
	LH10	9/4/2001	8	0.26	< 2	0.084	< 0.01	< 0.05	0.07	< 1	< 5	< 5
	LH11	9/4/2001	30	1.62	7	1.651	0.345	0.38	1.17	< 1	6.8	< 5
	LH12	9/4/2001	12	< 0.1	< 2	0.485	< 0.01	< 0.05	0.08	< 1	< 5	< 5
	LH13	9/4/2001	42	< 0.1	< 2	0.242	< 0.01	< 0.05	0.12	< 1	5.3	< 5
	LH14	9/4/2001	62	< 0.1	< 2	0.77	< 0.01	0.12	0.37	< 1	8.7	< 5
	LH15	9/4/2001	18	< 0.1	< 2	0.193	< 0.01	< 0.05	0.08	< 1	< 5	< 5
	LH16	9/4/2001	38	< 0.1	< 2	0.592	< 0.01	0.16	0.5	< 1	< 5	< 5
	LH17	9/4/2001	18	< 0.1	< 2	0.212	< 0.01	< 0.05	0.07	< 1	< 5	< 5
16	LH1	9/12/2001	8	< 0.1	< 2	0.3	< 0.005	< 0.05	0.13	4	< 5	< 5
	LH2	9/12/2001	10	< 0.1	< 2	0.3	< 0.005	0.35	1.09	< 1	< 5	< 5
	LH3	9/12/2001	12	< 0.1	< 2	0.2	0.006	0.09	0.27	3	6	< 5
	LH4	9/12/2001	10	< 0.1	< 2	0.2	< 0.005	0.06	0.18	4	< 5	< 5
	LH5	9/12/2001	10	< 0.1	< 2	0.8	< 0.005	< 0.05	0.05	6	< 5	< 5
	LH6	9/12/2001	12	< 0.1	< 2	0.3	< 0.005	< 0.05	0.07	10	< 5	< 5
	LH7	9/12/2001	10	< 0.1	< 2	0.3	< 0.005	0.64	1.96	8	< 5	< 5
	LH8	9/12/2001	8	< 0.1	4	0.2	< 0.005	< 0.05	< 0.05	3	< 5	< 5
	LH9	9/12/2001	42	< 0.1	10	0.3	< 0.005	0.09	0.27	15	< 5	< 5
	LH10	9/12/2001	24	< 0.1	10	0.2	< 0.005	< 0.05	0.08	5	< 5	< 5
	LH11	9/12/2001	32	0.6	13	2.1	0.108	< 0.05	0.1	6	< 5	< 5
	LH12	9/12/2001	22	< 0.1	9	0.4	< 0.005	< 0.05	0.06	2	< 5	< 5
	LH13	9/12/2001	46	< 0.1	9	0.3	< 0.005	< 0.05	0.06	2	< 5	< 5
	LH14	9/12/2001	72	< 0.1	11	0.5	0.041	< 0.05	0.08	5	< 5	< 5
	LH15	9/12/2001	20	< 0.1	9	0.3	< 0.005	< 0.05	0.08	3	< 5	< 5
	LH16	9/12/2001	46	< 0.1	8	0.6	< 0.005	< 0.05	0.09	6	< 5	< 5
	LH17	9/13/2001	18	< 0.1	11	0.3	0.006	< 0.05	0.05	3	< 5	< 5

TRIP	STATION	DATE	S_ALK	S_NH3-N	S_BOD-5	S_NITRATE	S_NITRITE	S_P, diss	S_PO4, diss	S_SIO2-diss	S_TIC	S_TOC
17	LH1	9/17/2001	8	< 0.1	< 2	0.046	< 0.01	0.06	< 0.05	3	< 5	< 5
	LH2	9/17/2001	12	< 0.1	< 2	0.075	< 0.01	0.05	< 0.05	3	< 5	< 5
	LH3	9/17/2001	8	< 0.1	< 2	0.059	< 0.01	< 0.05	0.08	2	< 5	< 5
	LH4	9/17/2001	6	< 0.1	< 2	0.05	< 0.01	0.07	< 0.05	5	< 5	< 5
	LH5	9/17/2001	2	< 0.1	< 2	0.198	< 0.01	0.07	< 0.05	8	< 5	< 5
	LH6	9/17/2001	2	< 0.1	< 2	0.308	< 0.01	< 0.05	0.05	9	< 5	< 5
	LH7	9/17/2001	2	< 0.1	< 2	0.165	< 0.01	0.07	< 0.05	9	< 5	< 5
	LH8	9/17/2001	4	< 0.1	< 2	0.132	< 0.01	< 0.05	0.16	4	< 5	< 5
	LH9	9/17/2001	36	< 0.1	< 2	0.361	< 0.01	0.37	0.12	13	7	< 5
	LH10	9/17/2001	12	< 0.1	< 2	0.09	< 0.01	< 0.05	0.07	5	< 5	< 5
	LH11	9/17/2001	26	0.4	7	1.583	0.058	1.69	0.55	8	< 5	5
	LH12	9/17/2001	16	< 0.1	< 2	0.23	< 0.01	0.06	< 0.05	5	< 5	< 5
	LH13	9/17/2001	52	< 0.1	< 2	0.184	< 0.01	0.07	< 0.05	3	< 5	< 5
	LH14	9/17/2001	56	0.1	< 2	0.409	< 0.01	0.05	0.16	6	7	< 5
	LH15	9/17/2001	36	< 0.1	3	0.147	< 0.01	0.07	< 0.05	4	< 5	< 5
	LH16	9/17/2001	32	< 0.1	< 2	0.302	< 0.01	0.06	0.18	4	6	< 5
	LH17	9/17/2001	14	< 0.1	< 2	0.123	< 0.01	0.07	< 0.05	4	< 5	< 5
18	LH1	9/24/2001	12	< 0.1	2	0.06	< 0.01	< 0.05	0.06	< 1	< 5	< 5
	LH2	9/24/2001	8	< 0.1	2	0.063	< 0.01	< 0.05	0.05	1	< 5	< 5
	LH3	9/24/2001	12	< 0.1	2	0.101	< 0.01	< 0.05	< 0.05	1	< 5	< 5
	LH4	9/24/2001	6	< 0.1	< 1	0.075	< 0.01	< 0.05	< 0.05	4	< 5	< 5
	LH5	9/24/2001	2	< 0.1	< 1	0.237	< 0.01	< 0.05	< 0.05	6	< 5	< 5
	LH6	9/24/2001	2	< 0.1	< 1	0.571	< 0.01	< 0.05	0.05	7	< 5	< 5
	LH7	9/24/2001	2	< 0.1	< 1	0.337	< 0.01	< 0.05	0.05	7	< 5	< 5
	LH8	9/24/2001	8	< 0.1	< 1	0.086	< 0.01	< 0.05	0.05	3	< 5	< 5
	LH9	9/24/2001	32	0.1	< 1	0.676	< 0.01	0.1	0.31	7	< 5	< 5
	LH10	9/24/2001	10	< 0.1	5	0.157	< 0.01	< 0.05	0.05	3	< 5	< 5
	LH11	9/24/2001	40	0.7	8	1.796	0.155	0.54	0.17	5	6	< 5
	LH12	9/24/2001	12	< 0.1	< 1	0.499	< 0.01	< 0.05	0.05	11	< 5	< 5
	LH13	9/24/2001	38	0.1	3	0.436	< 0.01	< 0.05	0.05	4	< 5	< 5
	LH14	9/24/2001	40	0.2	1	1.129	< 0.01	0.06	< 0.05	5	< 5	< 5
	LH15	9/24/2001	18	0.1	< 1	0.375	< 0.01	< 0.05	0.07	4	< 5	< 5
	LH16	9/24/2001	42	0.1	5	0.86	< 0.01	0.06	0.18	6	< 5	< 5
	LH17	9/24/2001	22	0.1	2	0.436	< 0.01	< 0.05	0.05	3	< 5	< 5

TRIP	STATION	DATE	S_ALK	S_NH3-N	S_BOD-5	S_NITRATE	S_NITRITE	S_P, diss	S_PO4, diss	S_SIO2-diss	S_TIC	S_TOC
19	LH1	10/2/2001	8	< 0.1	< 2	< 0.01	< 0.01	< 0.05	0.07	< 1	< 5	< 5
	LH2	10/2/2001	18	< 0.1	< 2	0.039	< 0.01	< 0.05	0.06	< 1	< 5	< 5
	LH3	10/2/2001	8	< 0.1	< 2	0.07	< 0.01	< 0.05	< 0.05	< 1	< 5	< 5
	LH4	10/2/2001	4	< 0.1	< 2	0.052	< 0.01	< 0.05	0.05	3	< 5	< 5
	LH5	10/2/2001	< 1	< 0.1	< 2	0.144	< 0.01	< 0.05	0.06	5	< 5	< 5
	LH6	10/2/2001	2	< 0.1	< 2	0.61	< 0.01	< 0.05	0.05	6	< 5	< 5
	LH7	10/2/2001	2	< 0.1	< 2	0.326	< 0.01	< 0.05	0.07	6	< 5	< 5
	LH8	10/2/2001	4	< 0.1	< 2	0.118	< 0.01	< 0.05	< 0.05	2	< 5	< 5
	LH9	10/2/2001	26	< 0.1	4	0.668	< 0.01	0.11	0.34	6	< 5	< 5
	LH10	10/2/2001	4	< 0.1	< 2	0.149	< 0.01	< 0.05	0.09	3	< 5	< 5
	LH11	10/2/2001	34	0.5	3	1.518	< 0.01	0.56	1.71	4	< 5	< 5
	LH12	10/2/2001	12	< 0.1	< 2	0.516	< 0.01	< 0.05	0.07	9	< 5	< 5
	LH13	10/2/2001	26	< 0.1	3	0.948	< 0.01	< 0.05	0.06	3	< 5	< 5
	LH14	10/2/2001	36	< 0.1	< 2	1.384	< 0.01	< 0.05	0.08	5	< 5	< 5
	LH15	10/2/2001	18	< 0.1	4	0.471	< 0.01	< 0.05	0.08	5	< 5	< 5
	LH16	10/2/2001	30	< 0.1	< 2	0.871	< 0.01	0.08	0.24	5	< 5	< 5
	LH17	10/2/2001	14	< 0.1	4	0.567	< 0.01	< 0.05	0.08	3	< 5	< 5
20	LH1	10/9/2001	14	< 0.1	< 2	< 0.01	< 0.01	< 0.05	0.05	< 1	< 5	< 5
	LH2	10/9/2001	10	< 0.1	< 2	< 0.01	< 0.01	< 0.05	0.07	1	< 5	5
	LH3	10/9/2001	16	< 0.1	< 2	0.079	< 0.01	< 0.05	0.07	< 1	< 5	< 5
	LH4	10/9/2001	6	< 0.1	< 2	< 0.01	< 0.01	< 0.05	0.07	3	< 5	< 5
	LH5	10/9/2001	2	< 0.1	< 2	0.116	< 0.01	< 0.05	0.07	5	< 5	< 5
	LH6	10/9/2001	2	< 0.1	< 2	0.568	< 0.01	< 0.05	0.05	6	< 5	< 5
	LH7	10/9/2001	2	< 0.1	< 2	0.265	< 0.01	< 0.05	0.06	6	< 5	< 5
	LH8	10/9/2001	4	< 0.1	< 2	0.142	< 0.01	< 0.05	0.07	2	< 5	< 5
	LH9	10/9/2001	50	0.1	< 2	0.927	< 0.01	0.1	0.32	5	9	< 5
	LH10	10/9/2001	6	< 0.1	< 2	0.16	< 0.01	< 0.05	0.08	4	< 5	< 5
	LH11	10/9/2001	46	0.7	< 2	1.581	< 0.01	0.32	0.99	3	8	< 5
	LH12	10/9/2001	14	< 0.1	< 2	0.461	< 0.01	< 0.05	0.07	5	< 5	< 5
	LH13	10/9/2001	32	< 0.1	< 2	0.634	< 0.01	< 0.05	0.07	4	8	< 5
	LH14	10/9/2001	44	0.1	< 2	1.155	< 0.01	0.7	0.23	3	10	< 5
	LH15	10/9/2001	36	0.1	< 2	0.434	< 0.01	< 0.05	0.7	3	5	< 5
	LH16	10/9/2001	38	0.1	< 2	0.909	< 0.01	0.1	0.3	5	9	< 5
	LH17	10/9/2001	18	0.3	< 2	0.452	< 0.01	< 0.05	0.07	4	< 5	< 5

TRIP	STATION	DATE	S_ALK	S_NNH3-N	S_BOD-5	S_NITRATE	S_NITRITE	S_P, diss	S_PO4, diss	S_SIO2-diss	S_TIC	S_TOC
21	LH1	10/18/2001	8	0.4	< 2	0.066	< 0.01	< 0.05	0.07	1	< 5	5
	LH2	10/18/2001	12	0.4	< 2	0.023	< 0.01	< 0.05	0.08	1	< 5	< 5
	LH3	10/18/2001	10	0.4	< 2	0.043	< 0.01	< 0.05	0.07	< 1	< 5	< 5
	LH4	10/18/2001	8	0.3	< 2	0.052	< 0.01	0.05	0.15	3	< 5	< 5
	LH5	10/18/2001	2	0.3	< 2	0.109	< 0.01	< 0.05	< 0.05	6	< 5	< 5
	LH6	10/18/2001	4	0.3	< 2	0.394	< 0.01	< 0.05	0.08	6	< 5	< 5
	LH7	10/18/2001	4	0.4	< 2	0.18	< 0.01	< 0.05	0.08	6	< 5	< 5
	LH8	10/18/2001	10	0.6	< 2	0.054	< 0.01	< 0.05	0.07	3	< 5	< 5
	LH9	10/18/2001	36	0.9	< 2	0.424	< 0.01	0.1	0.31	6	< 5	< 5
	LH10	10/18/2001	10	0.8	< 2	0.071	< 0.01	< 0.05	0.07	5	< 5	< 5
	LH11	10/18/2001	10	1	8	0.92	< 0.01	0.35	1.06	4	< 5	5
	LH12	10/18/2001	14	0.6	< 2	0.444	< 0.01	< 0.05	0.07	5	< 5	< 5
	LH13	10/18/2001	34	0.3	< 2	0.391	< 0.01	0.09	0.27	5	< 5	< 5
	LH14	10/18/2001	48	0.7	2	0.752	< 0.01	< 0.05	0.07	3	5	< 5
	LH15	10/18/2001	16	0.4	< 2	0.23	< 0.01	< 0.05	0.08	3	< 5	< 5
	LH16	10/18/2001	38	0.7	< 2	0.353	< 0.01	0.11	0.32	6	< 5	< 5
	LH17	10/18/2001	20	1.1	< 2	0.239	< 0.01	< 0.05	0.07	5	< 5	< 5
22	LH1	10/23/2001	8	< 0.1	< 2	0.049	< 0.01	< 0.05	0.07	1	< 5	6
	LH2	10/23/2001	10	< 0.1	< 2	0.028	< 0.01	< 0.05	0.05	1	< 5	6
	LH3	10/23/2001	8	< 0.1	< 2	0.049	< 0.01	< 0.05	0.06	1	< 5	5
	LH4	10/23/2001	6	< 0.1	< 2	0.044	< 0.01	< 0.05	0.06	3	< 5	< 5
	LH5	10/23/2001	2	< 0.1	< 2	0.147	< 0.01	< 0.05	0.07	6	< 5	< 5
	LH6	10/23/2001	2	< 0.1	< 2	0.505	< 0.01	< 0.05	0.06	6	< 5	< 5
	LH7	10/23/2001	2	< 0.1	< 2	0.256	< 0.01	< 0.05	0.07	7	< 5	< 5
	LH8	10/23/2001	4	< 0.1	< 2	0.083	< 0.01	< 0.05	0.07	3	< 5	< 5
	LH9	10/23/2001	32	< 0.1	< 2	0.655	< 0.01	0.09	0.29	6	6	< 5
	LH10	10/23/2001	10	0.1	< 2	0.116	< 0.01	< 0.05	0.07	5	< 5	< 5
	LH11	10/23/2001	34	1.1	< 2	0.868	0.095	0.35	1.08	4	5	6
	LH12	10/23/2001	12	< 0.1	< 2	0.365	< 0.01	< 0.05	0.07	5	< 5	< 5
	LH13	10/23/2001	34	< 0.1	3	0.486	< 0.01	0.09	0.27	4	5	< 5
	LH14	10/23/2001	50	< 0.1	< 2	0.856	0.069	< 0.05	0.07	3	8	< 5
	LH15	10/23/2001	20	< 0.1	< 2	0.26	< 0.01	< 0.05	0.07	3	< 5	< 5
	LH16	10/23/2001	38	< 0.1	< 2	0.515	< 0.01	0.1	0.31	6	< 5	< 5
	LH17	10/23/2001	18	< 0.1	< 2	0.279	< 0.01	< 0.05	0.06	5	< 5	< 5

TRIP	STATION	DATE	S_ALK	S_NNH3-N	S_BOD-5	S_NITRATE	S_NITRITE	S_P, diss	S_PO4, diss	S_SIO2-diss	S_TIC	S_TOC
23	LH1	10/29/2001	8	0.1	< 2	0.078	< 0.01	< 0.05	0.09	< 1	< 5	< 5
	LH2	10/29/2001	8	0.1	10	0.039	< 0.01	< 0.05	0.09	< 1	< 5	< 5
	LH3	10/29/2001	10	0.1	< 2	0.046	< 0.01	< 0.05	0.09	< 1	< 5	< 5
	LH4	10/29/2001	4	0.1	< 2	0.063	< 0.01	< 0.05	0.08	3	< 5	< 5
	LH5	10/29/2001	2	0.1	< 2	0.147	< 0.01	< 0.05	0.09	6	< 5	< 5
	LH6	10/29/2001	2	0.1	< 2	0.536	< 0.01	< 0.05	0.09	6	< 5	< 5
	LH7	10/29/2001	2	0.2	< 2	0.248	< 0.01	< 0.05	0.1	6	< 5	< 5
	LH8	10/29/2001	8	0.2	< 2	0.091	< 0.01	< 0.05	0.1	3	< 5	< 5
	LH9	10/29/2001	30	0.3	< 2	0.979	< 0.01	0.08	0.25	6	7	< 5
	LH10	10/29/2001	14	0.2	< 2	0.128	< 0.01	< 0.05	0.11	5	< 5	< 5
	LH11	10/29/2001	32	0.4	4	1.824	0.118	0.55	1.67	4	6	8
	LH12	10/29/2001	12	0.2	< 2	0.332	< 0.01	< 0.05	0.09	5	< 5	< 5
	LH13	10/29/2001	38	0.3	< 2	0.399	< 0.01	0.08	0.24	4	7	< 5
	LH14	10/29/2001	54	0.4	< 2	0.735	0.096	< 0.05	0.09	3	9	< 5
	LH15	10/29/2001	16	0.1	< 2	0.294	< 0.01	< 0.05	0.11	4	< 5	< 5
	LH16	10/29/2001	48	0.1	< 2	0.498	< 0.01	0.12	0.37	6	9	6
	LH17	10/29/2001	18	0.3	< 2	0.26	< 0.01	0.06	0.17	5	< 5	< 5
24	LH1	11/5/2001	16	< 0.1	< 2	0.091	< 0.01	< 0.05	0.09	1	< 5	< 5
	LH2	11/5/2001	12	< 0.1	< 2	0.011	< 0.01	< 0.05	0.08	1	< 5	< 5
	LH3	11/5/2001	14	< 0.1	< 2	0.13	< 0.01	< 0.05	0.08	1	< 5	< 5
	LH4	11/5/2001	8	< 0.1	< 2	0.081	0.098	< 0.05	0.09	3	< 5	< 5
	LH5	11/5/2001	2	< 0.1	< 2	0.208	< 0.01	< 0.05	0.09	3	< 5	< 5
	LH6	11/5/2001	6	< 0.1	< 2	0.586	< 0.01	< 0.05	0.09	6	< 5	< 5
	LH7	11/5/2001	2	< 0.1	< 2	0.283	0.027	< 0.05	0.1	6	< 5	< 5
	LH8	11/5/2001	8	< 0.1	< 2	0.146	< 0.01	< 0.05	0.12	3	< 5	< 5
	LH9	11/5/2001	48	< 0.1	< 2	0.912	0.042	0.08	0.25	7	9	< 5
	LH10	11/5/2001	10	< 0.1	< 2	0.192	< 0.01	< 0.05	0.09	5	< 5	< 5
	LH11	11/5/2001	48	1.1	9	1.511	0.092	0.55	1.68	4	10	< 5
	LH12	11/5/2001	18	< 0.1	< 2	0.405	0.046	< 0.05	0.08	5	< 5	< 5
	LH13	11/5/2001	54	< 0.1	< 2	0.522	< 0.01	0.08	0.25	4	10	< 5
	LH14	11/5/2001	24	< 0.1	< 2	0.795	0.079	< 0.05	0.06	4	11	< 5
	LH15	11/5/2001	24	< 0.1	< 2	0.652	< 0.01	< 0.05	0.1	4	6	< 5
	LH16	11/5/2001	60	< 0.1	< 2	0.375	< 0.01	0.13	0.4	5	12	< 5
	LH17	11/5/2001	28	0.1	< 2	0.3	< 0.01	0.05	0.17	4	5	< 5