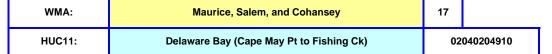
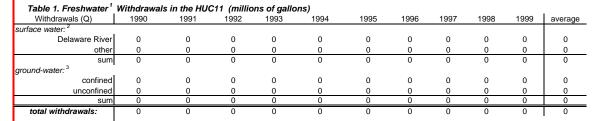
New Jersey Water Withdrawals, Uses, Transfers, and Discharges by HUC11, 1990 to 1999

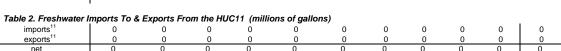
Appendix 17: HUC11 Tables, Figures and Maps WMA 17 - Maurice, Salem and Cohansey



Water Withdrawals, Transfers and Discharges for DELAWARE BAY (CAPE MAY PT TO FISHING CK) --- 02040204910







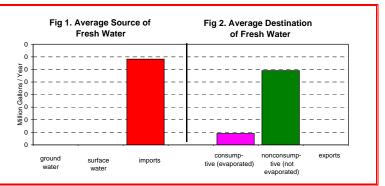


Table 3. Nonconsum	otive⁴ & Col	nsumptive⁵	Water Use	in the H	UC11, by Us	se Type (mi	llions of g	allons)			_
Water use	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	averag
potable purveyors											
nonconsumptive	0	0	0	0	0	0	0	0	0	0	0
consumptive	0	0	0	0	0	0	0	0	0	0	0
domestic wells											
nonconsumptive	0	0	0	0	0	0	0	0	0	0	0
consumptive	0	0	0	0	0	0	0	0	0	0	0
industrial & commercial & m	ining										
nonconsumptive	0	0	0	0	0	0	0	0	0	0	0
consumptive	0	0	0	0	0	0	0	0	0	0	0
agricultural & non-agricultura	al irrigation										
nonconsumptive	0	0	0	0	0	0	0	0	0	0	0
consumptive	0	0	0	0	0	0	0	0	0	0	0
power generation											
nonconsumptive	0	0	0	0	0	0	0	0	0	0	0
consumptive	0	0	0	0	0	0	0	0	0	0	0
SUM:											
nonconsumptive	0	0	0	0	0	0	0	0	0	0	0
consumptive	0	0	0	0	0	0	0	0	0	0	0
PERCENTAGES:	-				-				·		
nonconsumptive	85.2%	85.0%	87.0%	87.0%	86.9%	86.9%	86.9%	99.3%	86.6%	87.0%	86.7%
consumptive	14.8%	15.0%	13.0%	13.0%	13.1%	13.1%	13.1%	0.7%	13.4%	13.0%	13.3%

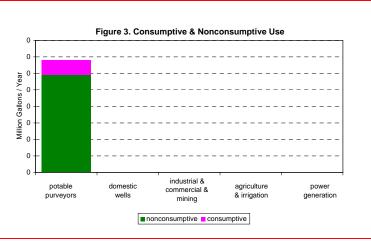


Table 4. Average Sea	Table 4. Average Seasonal Use - Nonconsumptive & Consumptive (millions of gallons)													
	Wi	nter	Sp	ring	Sun	nmer	F	all	Yearl	y Avg.				
Use Group	Noncon-	Consump-	Noncon-	Consump-	Noncon-	Consump-	Noncon-	Consump-	Noncon-	Consump-				
	sumptive	tive	sumptive	tive	sumptive	tive	sumptive	tive	sumptive	tive				
potable purveyors	0	0	0	0	0	0	0	0	0	0				
domestic wells	0	0	0	0	0	0	0	0	0	0				
industrial & commercial & mining	0	0	0	0	0	0	0	0	0	0				
agricultural & non- agricultural irrig.	0	0	0	0	0	0	0	0	0	0				
power generation	0	0	0	0	0	0	0	0	0	0				
SUM:	0	0	0	0	0	0	0	0	0	0				

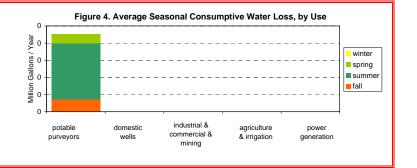


Table 5. Sewage Gen	eration & Tr	ansfers [®] in	the HUC11	(millions	of gallons)						
	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	average
generated in HUC11	1	1	1	1	1	1	1	1	1	1	1
imported to HUC11	0	0	0	0	0	0	0	0	0	0	0
exported from HUC11	1	1	1	1	1	1	1	1	1	1	1

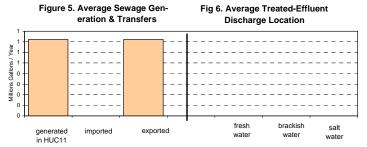
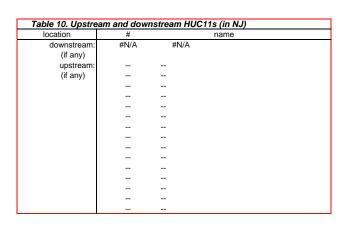


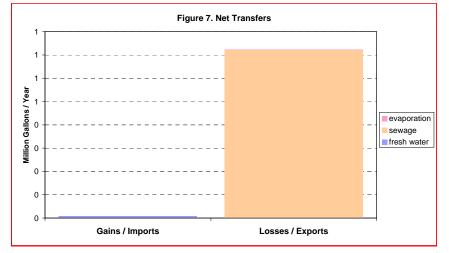
Table 6. Destination of	of Treated E	ffluent (Rec	laimed-Wa	ter) Discha	rges ⁹ in the	e HUC11 (m	illions of	gallons)			
destination	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	average
fresh water	0	0	0	0	0	0	0	0	0	0	0
brackish water	0	0	0	0	0	0	0	0	0	0	0
salt water	0	0	0	0	0	0	0	0	0	0	0
cum:	Λ	۸	Λ	Λ	Λ	Λ	Λ	Λ	Λ	Λ	Λ

Table 7. 1999 Water All Water	ocations ' Source	" in	HUC11 by
Water Source	MGY		
surface water	0		
ground water	0		
tota	I 0		
Table 8. 1999 Water All	ocations 1	° in	HUC11 by
	ocations ¹ se Group	o in	HUC11 by
		° in	HUC11 by
Water U		° in	
Water U Use Group		° in	MGY
Water Use Group agricultural		° in	MGY
Water U Use Group agricultural commercial		° in	MGY
Water U Use Group agricultural commercial industrial		° in	MGY 0 0 0
Water U. Use Group agricultural commercial industrial irrigation	se Group	° in	MGY 0 0 0
Water U Use Group agricultural commercial industrial irrigation mining	se Group	° in	MGY 0 0 0 0

Area:									
in this HU	C11 only	348.6	sq. mi.						
upstream	HUC11s	0.0	sq. mi.						
total wat	tershed	348.6	sq. mi.						
(this HUC11 o	nshore area:	0.0	sq. mi.)						
Populatio	n of this HUO	C11:							
Year	•								
1940	0	-	_						
1950	0	43.3%							
1960	0	31.7%							
1970	0	18.7%							
1980	0	13.7%							
1990	0	-0.1%							
2000	0	8.6%							
2010	0	7.7%	est.12						
2020	0	10.0%	est.12						
2030	0	7.9%	est.12						
I and I lea	of this HUC	11.							
	Yea								
Туре	1986	1995	 Change 						
ag.	0.0%	0.0%	0.0%						
barren	0.0%	0.0%	0.0%						
forest	0.0%	0.0%	0.0%						
urban	0.0%	0.0%	0.0%						
water	100.0%	100.0%	0.0%						
wetlands	0.0%	0.0%	0.0%						
% of this F									
Pinelands: 0.0%									
Highla	ands:	0.0%							

Table 9. HUC11 Descriptive Statistics

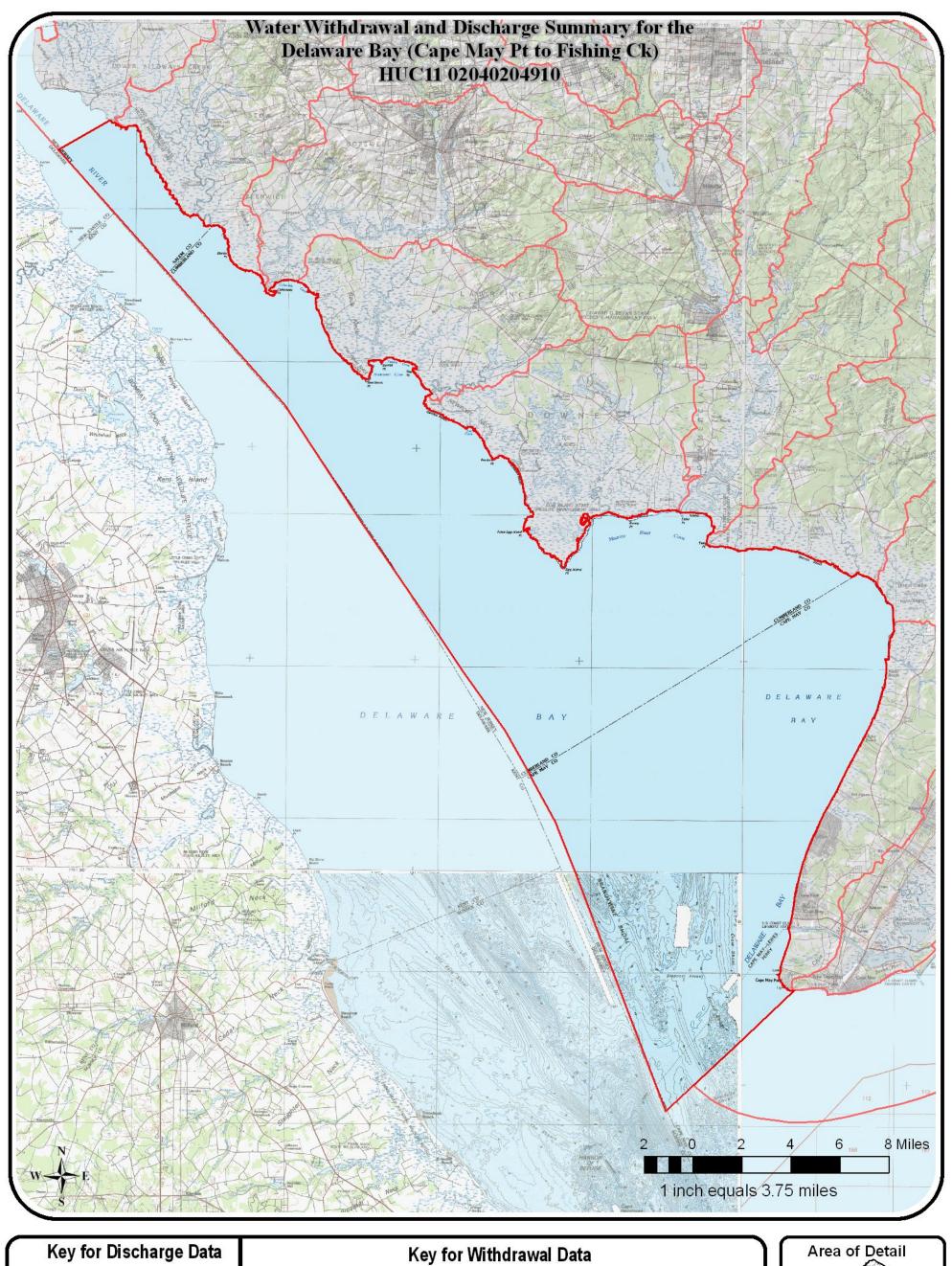


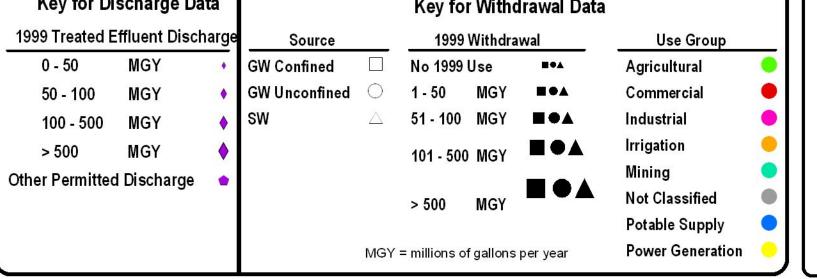


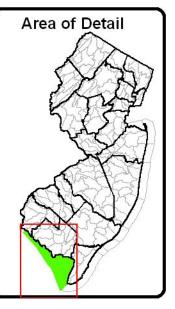
NOTES:

- 1 Salt and brackish water withdrawal and use is not included in this data.
- 2 This does not account for water released from onstream reservoirs for downstream intakes.
- ${\small 3\>\> Includes\> both\> permitted\> ground-water\> with drawals\> and\> estimated\> domestic\> well\> with drawals.}$ 4 Nonconsumptive water use refers to water used in the watershed but not evaporated.
- 5 Consumptive water use refers to water evaporated in the watershed. It does not include exports.
- 6 Use refers only to water actually used in that HUC11. It is equal to freshwater withdrawals + imports exports. 7 Winter is Jan, Feb, Dec of the same year; spring is March-May; summer is June-Aug; fall is Sept-Nov.
- 8 Sewage generation and transfers are based on intersection of sewer service areas with HUC11s. 9 Based on discharge volumes reported under NJPDES program.
- 10 The allocated volume is calculated from allocation permits on file with the Bureau of Water Allocation, NJDEP, as of 1999.

 11 Import and export volumes based on reported transfers between purveyors and on intersection of purveyor service areas with HUC11s.
- 12 Projected population estimates based on NJ Metropolitan Planning Organization estimates.
- 13 Subject to revision.
- $14\,$ Withdrawals for offstream reservoirs are problematic and complicate Figures 1 and 2.



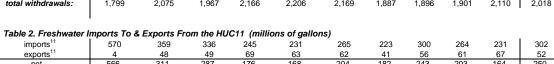




Water Withdrawals, Transfers and Discharges for PENNSVILLE / PENNS GROVE TRIBS --- 02040206020

WMA:	Maurice, Salem, and Cohansey	17	
HUC11:	Pennsville / Penns Grove tribs	02	040206020

Table 1. Freshwater 1	Withdrawal	s in the HU	C11 (millio	ons of gallo	ons)						
Withdrawals (Q)	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	average
surface water: 2											
Delaware River	0	0	0	0	0	0	0	0	0	0	0
other	0	0	0	0	0	0	0	0	0	0	0
sum	0	0	0	0	0	0	0	0	0	0	0
ground-water: 3											
confined	1,386	1,379	1,121	1,225	1,230	1,309	1,104	1,036	1,022	1,111	1,192
unconfined	413	696	846	940	976	859	783	860	880	999	825
sum	1,799	2,075	1,967	2,166	2,206	2,169	1,887	1,896	1,901	2,110	2,018
total withdrawals:	1,799	2,075	1,967	2,166	2,206	2,169	1,887	1,896	1,901	2,110	2,018



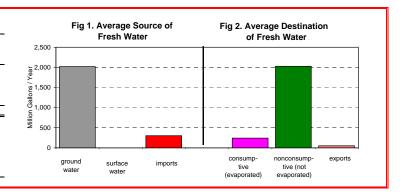


Table 3. Nonconsump	tive⁴ & Co	nsumptive⁵	Water Use	e ⁶ in the H	UC11, by Us	se Type (mi	llions of g	allons)			
Water use	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	average
potable purveyors											
nonconsumptive	824	891	796	809	799	788	662	777	783	797	793
consumptive	91	109	89	95	94	100	75	100	100	102	95
domestic wells											
nonconsumptive	17	17	17	17	18	18	18	19	19	19	18
consumptive	2	2	2	2	3	3	3	3	3	3	3
industrial & commercial & mir	ning										
nonconsumptive	1,280	1,230	1,214	1,266	1,309	1,309	1,176	1,100	1,052	1,203	1,214
consumptive	143	137	135	141	146	146	131	123	117	134	135
agricultural & non-agricultura	l irrigation										
nonconsumptive	1	0	0	1	1	1	0	2	1	2	1
consumptive	7	0	0	9	5	7	4	17	8	15	7
power generation											
nonconsumptive	0	0	0	0	0	0	0	0	0	0	0
consumptive	0	0	0	0	0	0	0	0	0	0	0
SUM:											
nonconsumptive	2,122	2,138	2,027	2,094	2,127	2,117	1,857	1,897	1,855	2,020	2,025
consumptive	244	249	227	248	247	256	212	242	228	254	241
PERCENTAGES:					•						
nonconsumptive	89.7%	89.6%	89.9%	89.4%	89.6%	89.2%	89.7%	88.7%	89.1%	88.8%	89.4%
consumptive	10.3%	10.4%	10.1%	10.6%	10.4%	10.8%	10.3%	11.3%	10.9%	11.2%	10.6%

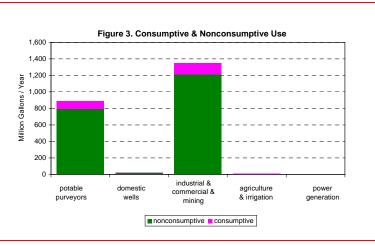


Table 4. Average Sea	Table 4. Average Seasonal Use - Nonconsumptive Consumptive (millions of gallons)													
	Wi	nter	Sp	ring	Sun	nmer	F	all	Year	ly Avg.				
Use Group	Noncon-	Consump-	Noncon-	Consump-	Noncon-	Consump-	Noncon-	Consump-	Noncon-	Consump-				
	sumptive	tive	sumptive	tive	sumptive	tive	sumptive	tive	sumptive	tive				
potable purveyors	207	0	199	13	187	65	202	17	795	95				
domestic wells	4	0	4	0	5	2	4	0	18	3				
industrial & commercial & mining	292	32	298	33	320	36	303	34	1,214	135				
agricultural & non- agricultural irrig.	0	0	0	1	1	5	0	2	1	7				
power generation	0	0	0	0	0	0	0	0	0	0				
SUM:	503	32	502	47	513	108	510	53	2,027	241				

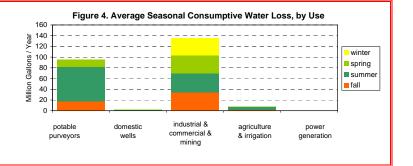


Table 5. Sewage Gen	eration & Tra	ansfers* in	the HUC11	(millions	of gallons)						
	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	average
generated in HUC11	551	632	647	672	684	594	809	676	622	647	653
imported to HUC11	133	208	264	271	274	223	376	283	253	279	256
exported from HUC11	0	0	0	0	0	0	0	0	0	0	0

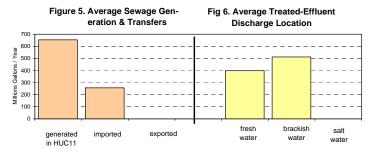


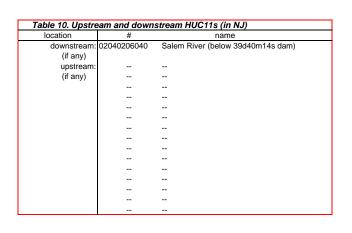
Table 6. Destination of	of Treated E	ffluent (Rec	laimed-Wa	ter) Discha	rges ⁹ in the	e HUC11 (m	nillions of	gallons)			
destination	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	average
fresh water	229	324	391	430	441	342	564	441	405	415	398
brackish water	454	516	520	513	517	475	621	518	470	511	512
salt water	0	0	0	0	0	0	0	0	0	0	0
	000	0.40	0.1.1	0.40	050	0.47	4 405	050	070	000	040

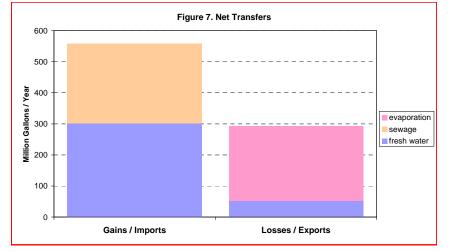
Water Source										
Water Source	MGY	•								
surface water	0	•								
ground water	8,470	_								
total	8,470									
Table 8. 1999 Water Allo	cations ¹⁰ ii	n HUC11 by								
Water Use	Group									
Use Group		MGY								
agricultural		28								
commercial		37								
industrial		7,547								
irrigation		37								
mining		0								
potable supply		821								
potable supply power generatior	1	821 0								

Table 7. 1999 Water Allocations 10 in HUC11 by

	JC11 only	23.5	sq. mi.					
	n HUC11s	0.0	sq. mi.					
total wa	atershed	23.5	sq. mi.					
(this HUC11	onshore area:	22.6	sq. mi.)					
Population of this HUC11:								
Year	Population	Change						
1940	10,992	-	_					
1950	12,902	17.4%						
1960	14,446	12.0%						
1970	14,968	3.6%						
1980	15,692	4.8%						
1990	15,113	-3.7%						
2000	14,247	-5.7%						
2010	14,119	-0.9%	est.12					
2020	13,809	-2.2%	est.12					
2030	13,743	-0.5%	est.12					
Land Use	of this HUC							
Type	Yea		- Change					
	1986	1995						
ag.	10.6%	9.8%	-0.9%					
barren	2.7%	2.7%	0.0%					
forest	9.7%	11.1%	1.4%					
			0.1%					
urban	28.8%	28.9%						
water	7.7%	7.4%	-0.3%					
water wetlands	7.7% 40.5% HUC11 in:	7.4%	-0.3%					
water wetlands % of this Pine	7.7% 40.5%	7.4%	-0.3%					

Table 9. HUC11 Descriptive Statistics

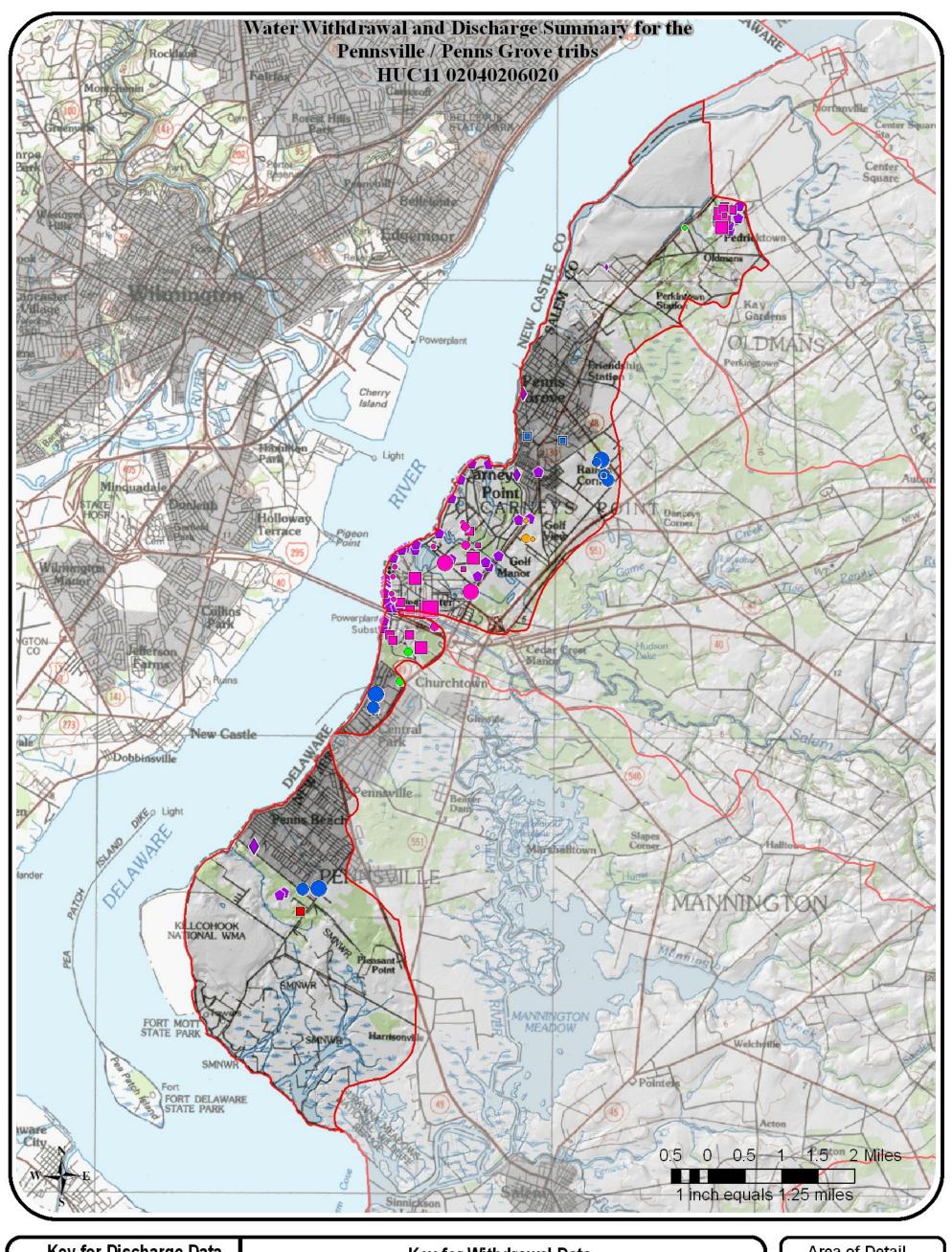


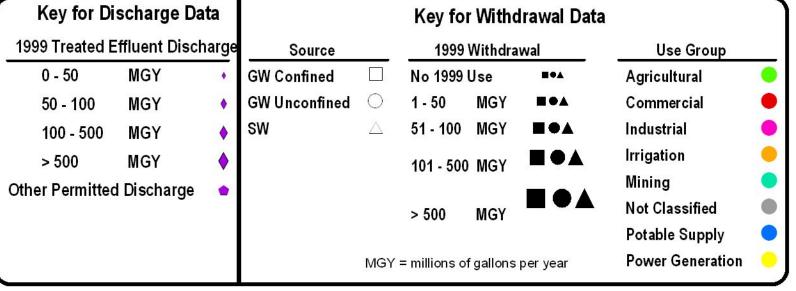


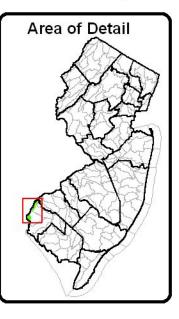
NOTES:

- 1 Salt and brackish water withdrawal and use is not included in this data.
- 2 This does not account for water released from onstream reservoirs for downstream intakes.
- ${\small 3\>\> Includes\> both\> permitted\> ground-water\> with drawals\> and\> estimated\> domestic\> well\> with drawals.}$ 4 Nonconsumptive water use refers to water used in the watershed but not evaporated.
- 5 Consumptive water use refers to water evaporated in the watershed. It does not include exports.
- 6 Use refers only to water actually used in that HUC11. It is equal to freshwater withdrawals + imports exports. 7 Winter is Jan, Feb, Dec of the same year; spring is March-May; summer is June-Aug; fall is Sept-Nov.
- 8 Sewage generation and transfers are based on intersection of sewer service areas with HUC11s. 9 Based on discharge volumes reported under NJPDES program.
- 10 The allocated volume is calculated from allocation permits on file with the Bureau of Water Allocation, NJDEP, as of 1999.

 11 Import and export volumes based on reported transfers between purveyors and on intersection of purveyor service areas with HUC11s.
- 12 Projected population estimates based on NJ Metropolitan Planning Organization estimates.
- 13 Subject to revision.
- $14\,$ Withdrawals for offstream reservoirs are problematic and complicate Figures 1 and 2.

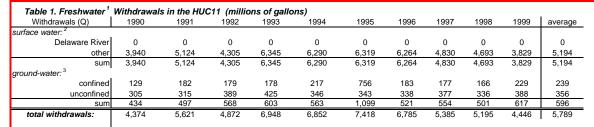


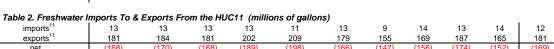




Water Withdrawals, Transfers and Discharges for UPPER SALEM R/SALEM CANAL --- 02040206030

WMA:	Maurice, Salem, and Cohansey	17		_
HUC11:	Upper Salem River / Salem Canal	02	040206030	





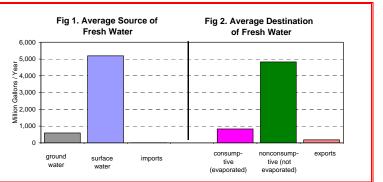


Table 3. Nonconsump	tive⁴ & Co	nsumptive⁵	Water Use	e ⁶ in the H	UC11, by Us	se Type (mi	llions of g	allons)			
Water use	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	averag
potable purveyors											
nonconsumptive	103	115	111	112	119	129	120	128	124	122	118
consumptive	12	14	13	14	14	16	13	16	15	15	14
domestic wells											
nonconsumptive	108	109	111	113	116	119	121	122	124	125	117
consumptive	15	15	16	16	16	17	17	17	17	18	16
industrial & commercial & mir	ning										
nonconsumptive	3,527	4,577	3,901	4,584	5,615	6,031	5,600	4,417	4,088	3,288	4,563
consumptive	392	511	436	513	627	684	626	491	454	365	510
agricultural & non-agricultura	l irrigation										
nonconsumptive	5	11	12	141	15	25	18	28	26	37	32
consumptive	47	99	104	1,269	132	229	159	255	236	333	286
power generation											
nonconsumptive	0	0	0	0	0	0	0	0	0	0	0
consumptive	0	0	0	0	0	0	0	0	0	0	0
SUM:											
nonconsumptive	3,743	4,812	4,135	4,951	5,865	6,305	5,858	4,695	4,362	3,572	4,830
consumptive	466	639	570	1,812	790	947	815	779	723	731	827
PERCENTAGES:	•	•									
nonconsumptive	88.9%	88.3%	87.9%	73.2%	88.1%	86.9%	87.8%	85.8%	85.8%	83.0%	85.4%
consumptive	11.1%	11.7%	12.1%	26.8%	11.9%	13.1%	12.2%	14.2%	14.2%	17.0%	14.6%

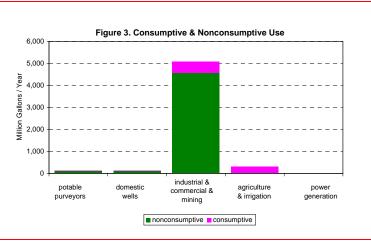


Table 4. Average Sea	Table 4. Average Seasonal 7 Use - Nonconsumptive 4 & Consumptive 5 (millions of gallons)											
	Wi	nter	Sp	Spring Summer			F	all	Yearly Avg.			
Use Group	Noncon-	Consump-	Noncon-	Consump-	Noncon-	Consump-	Noncon-	Consump-	Noncon-	Consump-		
	sumptive	tive	sumptive	tive	sumptive	tive	sumptive	tive	sumptive	tive		
potable purveyors	30	0	30	2	28	10	30	3	118	14		
domestic wells	27	0	27	2	34	12	29	3	117	16		
industrial & commercial & mining	1,161	129	1,200	134	1,194	135	1,008	112	4,563	510		
agricultural & non- agricultural irrig.	0	0	5	48	22	201	4	38	32	286		
power generation	0	0	0	0	0	0	0	0	0	0		
SUM:	1,219	129	1,263	186	1,278	357	1,071	156	4,830	827		

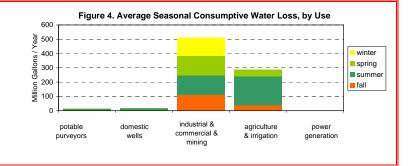
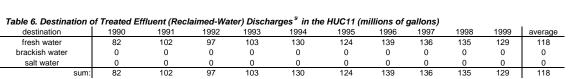


Table 5. Sewage Generation & Transfers ⁸ in the HUC11 (millions of gallons)											
	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	average
generated in HUC11	88	167	216	231	259	214	341	274	256	265	231
imported to HUC11	3	3	3	4	5	5	5	5	4	4	4
exported from HUC11	9	68	123	131	133	94	207	142	125	140	117



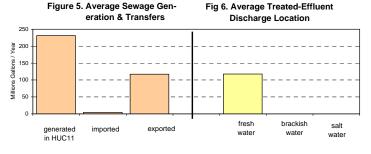


Table 7. 1999 Water Al	locations 10	in HU	C11 by						
Water	Source	_							
Water Source MGY									
surface water	3,019								
ground water	3,234	_							
tota	al 6,254								
Table 9 4000 Weter Al	lacations 10	:	C44 b.						
Table 8. 1999 Water Al Water U	locations ¹⁰ Ise Group	in HU	C11 by						
	Ise Group		C11 by //GY						
Water L	Ise Group	N							
Water U Use Group	Ise Group	N	ИGY						
Water L Use Group agricultural	Ise Group	<u>N</u>	//GY ,683						
Water L Use Group agricultural commercial	Ise Group	<u>N</u>	//GY ,683 0						
Water U Use Group agricultural commercial industrial	Ise Group	<u>N</u>	MGY ,683 0 ,020						
Water L Use Group agricultural commercial industrial irrigation	Jse Group		MGY ,683 0 ,020 37						
Water L Use Group agricultural commercial industrial irrigation mining	Jse Group		MGY ,683 0 ,020 37						

Population of this HUC11:								
Population	Change	_						
7,531	-							
9,392	24.7%							
11,541	22.9%							
11,299	-2.1%							
12,336	9.2%							
12,526	1.5%							
12,562	0.3%							
12,798	1.9%	est.12						
13,380	4.5%	est.12						
13,507	1.0%	est.12						
		- Chang						
1986	1995	Chang						
62.0%	59.8%	-2.3%						
0.4%	0.2%	-0.1%						
9.5%	10.0%	0.5%						
8.5%	10.3%	1.9%						
1.6%	1.7%	0.1%						
18.0%	17.9%	-0.1%						
IUC11 in:								
	0.0%							
	Population 7,531 9,392 11,541 11,299 12,336 12,526 12,562 12,798 13,380 13,507 of this HUC: Yee 1986 62.0% 0.4% 9.5% 8.5% 1.6%	Population Change 7,531 - 9,392 2.47% 11,541 22.9% 11,299 -2.1% 12,536 1.5% 12,562 0.3% 12,798 1.9% 13,380 4.5% 13,507 1.0% Year 1886 1995 62.0% 59.8% 0.4% 0.2% 9.5% 10.0% 8.5% 1.3% 1.6% 1.7% 18.0% 17.9% MUC11 in: nds: 0.0%						

Table 9. HUC11 Descriptive Statistics

58.3 sq. mi. 0.0 sq. mi. 58.3 sq. mi.

in this HUC11 only

upstream HUC11s total watershed

		stream HUC11s (in NJ)
location	#	name
downstream:	02040206020	Pennsville / Penns Grove tribs
(if any)		
upstream:		
(if any)		
		

NOTES:

1 Salt and brackish water withdrawal and use is not included in this data 2 This does not account for water released from onstream reservoirs for downstream intakes.

3 Includes both permitted ground-water withdrawals and estimated domestic well withdrawals.

4 Nonconsumptive water use refers to water used in the watershed but not evaporated. 5 Consumptive water use refers to water evaporated in the watershed. It does not include exports.

6 Use refers only to water actually used in that HUC11. It is equal to freshwater withdrawals + imports - exports.

7 Winter is Jan, Feb, Dec of the same year; spring is March-May; summer is June-Aug; fall is Sept-Nov.

8 Sewage generation and transfers are based on intersection of sewer service areas with HUC11s. 9 Based on discharge volumes reported under NJPDES program.

10 The allocated volume is calculated from allocation permits on file with the Bureau of Water Allocation, NJDEP, as of 1999.

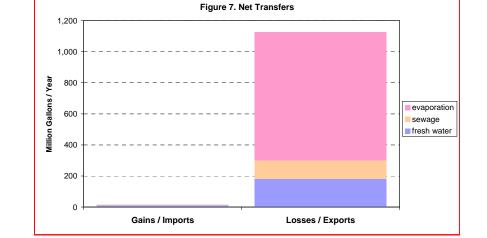
11 Import and export volumes based on reported transfers between purveyors and on intersection of purveyor service areas with HUC11s.

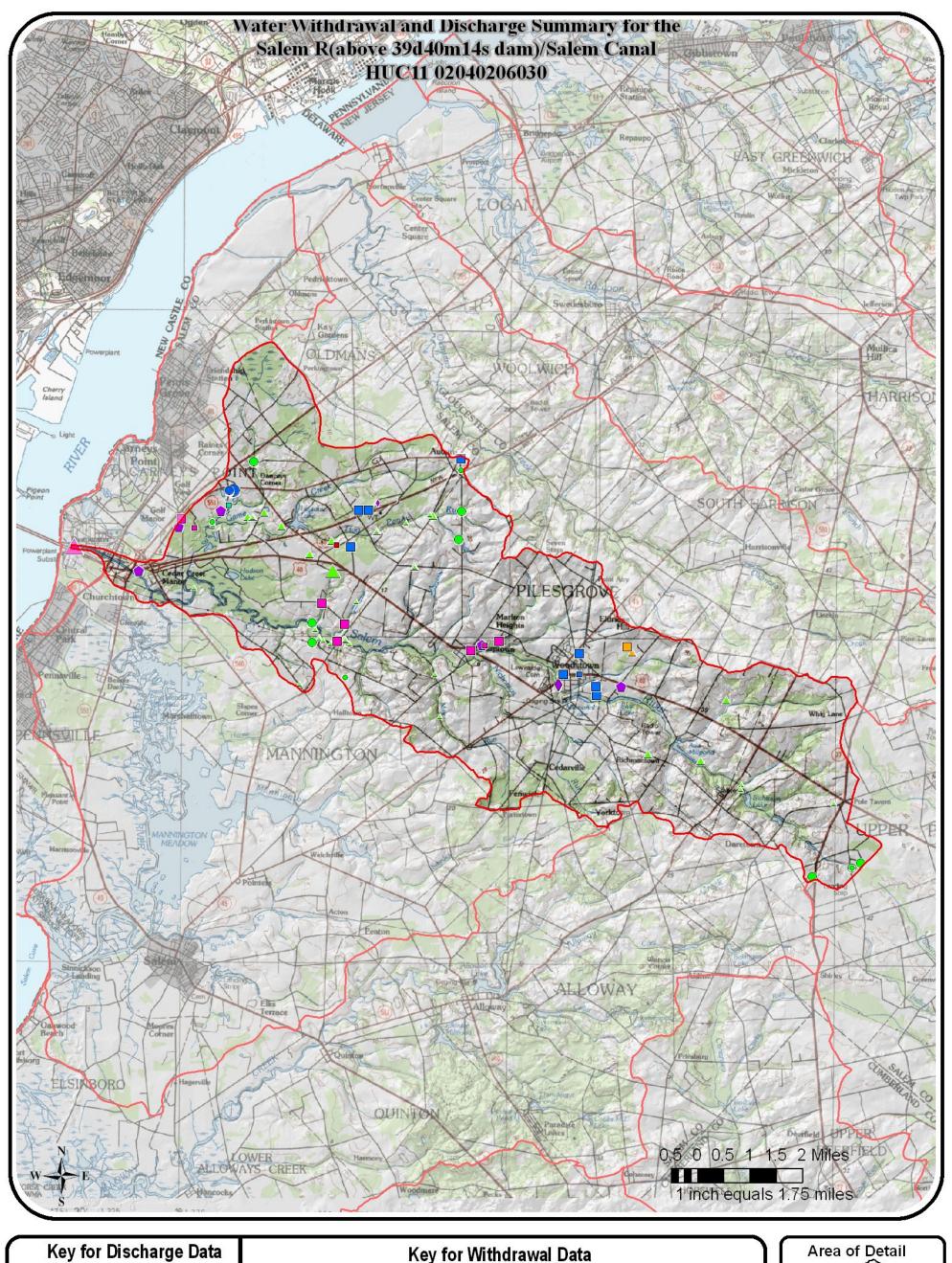
12 Projected population estimates based on NJ Metropolitan Planning Organization estimates.

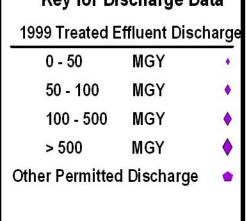
13 Subject to revision.

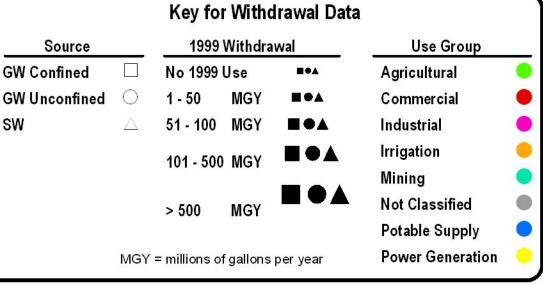
 $14\,$ Withdrawals for offstream reservoirs are problematic and complicate Figures 1 and 2.

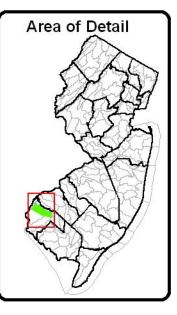
2006 New Jersey Water Supply Plan





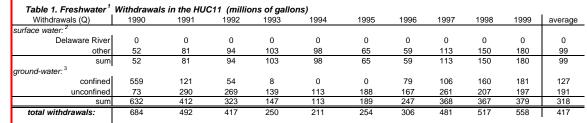


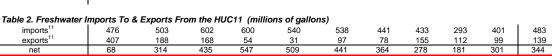




Water Withdrawals, Transfers and Discharges for LOWER SALEM RIVER --- 02040206040

WMA:	Maurice, Salem, and Cohansey	17	
HUC11:	Lower Salem River	02	040206040





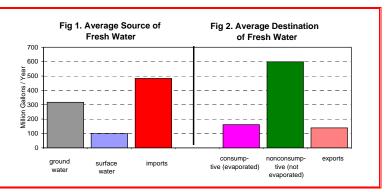


Table 3. Nonconsumpt	tive⁴ & Coı	nsumptive⁵	Water Use	e ⁶ in the H	UC11, by Us	se Type (mi	llions of g	allons)			
Water use	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	average
potable purveyors											
nonconsumptive	565	583	612	549	486	494	476	490	409	526	519
consumptive	63	69	70	68	59	60	54	59	47	57	61
domestic wells											
nonconsumptive	64	64	65	66	66	67	67	68	68	69	66
consumptive	9	9	9	9	9	9	9	10	10	10	9
industrial & commercial & mir	ning										
nonconsumptive	0	0	0	0	0	0	2	10	11	12	4
consumptive	0	0	0	0	0	0	0	1	1	1	0
agricultural & non-agricultural	l irrigation										
nonconsumptive	5	8	10	11	10	7	6	12	15	19	10
consumptive	47	73	86	95	89	59	55	108	136	167	91
power generation											
nonconsumptive	0	0	0	0	0	0	0	0	0	0	0
consumptive	0	0	0	0	0	0	0	0	0	0	0
SUM:											
nonconsumptive	634	655	686	625	562	567	551	580	504	625	599
consumptive	119	151	165	172	158	128	119	178	194	234	162
PERCENTAGES:	•	•	•	•	•	•					
nonconsumptive	84.2%	81.3%	80.6%	78.5%	78.1%	81.6%	82.3%	76.5%	72.3%	72.7%	78.7%
consumptive	15.8%	18.7%	19.4%	21.5%	21.9%	18.4%	17.7%	23.5%	27.7%	27.3%	21.3%

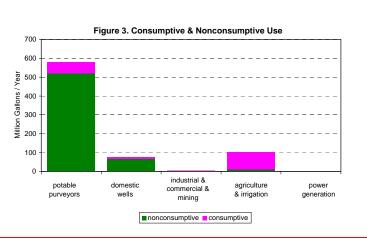


Table 4. Average Sea	Table 4. Average Seasonal 7 Use - Nonconsumptive 4 & Consumptive 5 (millions of gallons)											
	Wi	nter	Sp	ring	Sum	nmer	F	all	Yearly Avg.			
Use Group	Noncon-	Consump-	Noncon-	Consump-	Noncon-	Consump-	Noncon-	Consump-	Noncon-	Consump-		
	sumptive	tive	sumptive	tive	sumptive	tive	sumptive	tive	sumptive	tive		
potable purveyors	140	0	134	9	118	41	127	11	519	61		
domestic wells	15	0	16	1	19	7	16	1	66	9		
industrial & commercial & mining	1	0	1	0	1	0	1	0	4	0		
agricultural & non- agricultural irrig.	0	0	0	4	8	76	1	12	10	91		
power generation	0	0	0	0	0	0	0	0	0	0		
SUM:	156	0	151	14	147	124	145	24	599	162		

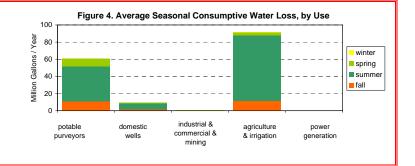
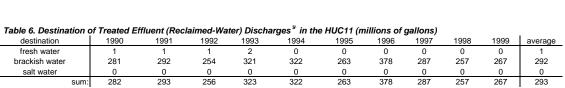


Table 5. Sewage Gen	eration & Tra	ansfers [®] in	the HUC11	(millions	of gallons)						
	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	average
generated in HUC11	408	437	400	466	468	396	552	432	389	410	436
imported to HUC11	0	0	0	0	0	0	0	0	0	0	0
exported from HUC11	126	144	144	143	145	134	174	145	132	143	143



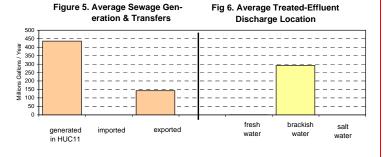


Table 7. 1999 Water Al	locations 10	in	HUC11 by
Water	Source		
Water Source	MGY		
surface water	1,022		
ground water	1,065		
tota	al 2,087		
Table 8. 1999 Water Al	locations 10	in	HUC11 by
	locations ¹⁰ Ise Group	in	HUC11 by
	Ise Group	in	HUC11 by MGY
Water L	Ise Group	in	
Water L Use Group	Ise Group	in	MGY
Water L Use Group agricultural	Ise Group	in	MGY
Water L Use Group agricultural commercial	Ise Group	in	MGY 1,112 0
Water U Use Group agricultural commercial industrial	Ise Group) in	MGY 1,112 0 37
Water L Use Group agricultural commercial industrial irrigation	Jse Group	in	MGY 1,112 0 37 0
Water L Use Group agricultural commercial industrial irrigation mining	Jse Group	in	MGY 1,112 0 37 0

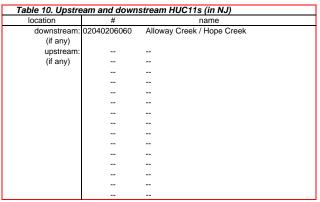
total wa	itershed	58.9	sq. mi.
(this HUC11	onshore area:	54.4	sq. mi.)
Populatio	n of this HUC		
Year	Population	Change	_
1940	13,177	-	
1950	14,860	12.8%	
1960	16,909	13.8%	
1970	17,041	0.8%	
1980	16,572	-2.8%	
1990	16,358	-1.3%	
2000	14,909	-8.9%	
2010	14,774	-0.9%	est.12
_0.0			
2020	14,445	-2.2%	est.12
	14,445 14,377	-2.2% -0.5%	est. 12
2020 2030 Land Use	, -	-0.5% 11:	est. ¹²
2020 2030	14,377	-0.5% 11:	est. 12 est. 12
2020 2030 Land Use	of this HUC:	-0.5% 11:	est. ¹²
2020 2030 Land Use Type	14,377 of this HUC: Yes 1986	-0.5% 11: ar 1995	est. ¹² - Change
2020 2030 Land Use Type ag.	14,377 of this HUC: Yea 1986 40.2%	-0.5% 11: ar 1995 39.3%	est. ¹² - Change
2020 2030 Land Use Type ag. barren	14,377 of this HUC: Yea 1986 40.2% 0.5%	-0.5% 11: ar 1995 39.3% 0.6%	est. ¹² - Change -0.9% 0.1%
2020 2030 Land Use Type ag. barren forest	14,377 of this HUC: Yes 1986 40.2% 0.5% 7.7%	-0.5% 11: ar 1995 39.3% 0.6% 7.9%	est. ¹² - Change -0.9% 0.1% 0.1%
2020 2030 Land Use Type ag. barren forest urban	14,377 of this HUC: Yes 1986 40.2% 0.5% 7.7% 9.1%	-0.5% 11: ar 1995 39.3% 0.6% 7.9% 9.8%	est. ¹² - Change -0.9% 0.1% 0.1% 0.7%
2020 2030 Land Use Type ag. barren forest urban water wetlands	14,377 of this HUC: Yes 1986 40.2% 0.5% 7.7% 9.1% 12.8%	-0.5% 11: 1995 39.3% 0.6% 7.9% 9.8% 13.3%	est. ¹² - Change -0.9% 0.1% 0.1% 0.7% 0.5%
2020 2030	14,377 of this HUC: Yea 1986 40.2% 0.5% 7.7% 9.1% 12.8% 29.7%	-0.5% 11: 1995 39.3% 0.6% 7.9% 9.8% 13.3%	est. ¹² - Change -0.9% 0.1% 0.1% 0.7% 0.5%

Table 9. HUC11 Descriptive Statistics

58.9 sq. mi.

in this HUC11 only

upstream HUC11s



0

Gains / Imports

NOTES: 1 Salt and brackish water withdrawal and use is not included in this data.

2 This does not account for water released from onstream reservoirs for downstream intakes.

3 Includes both permitted ground-water withdrawals and estimated domestic well withdrawals.

4 Nonconsumptive water use refers to water used in the watershed but not evaporated.

5 Consumptive water use refers to water evaporated in the watershed. It does not include exports.

6 Use refers only to water actually used in that HUC11. It is equal to freshwater withdrawals + imports - exports.

7 Winter is Jan, Feb, Dec of the same year; spring is March-May; summer is June-Aug; fall is Sept-Nov.

8 Sewage generation and transfers are based on intersection of sewer service areas with HUC11s. 9 Based on discharge volumes reported under NJPDES program.

10 The allocated volume is calculated from allocation permits on file with the Bureau of Water Allocation, NJDEP, as of 1999.

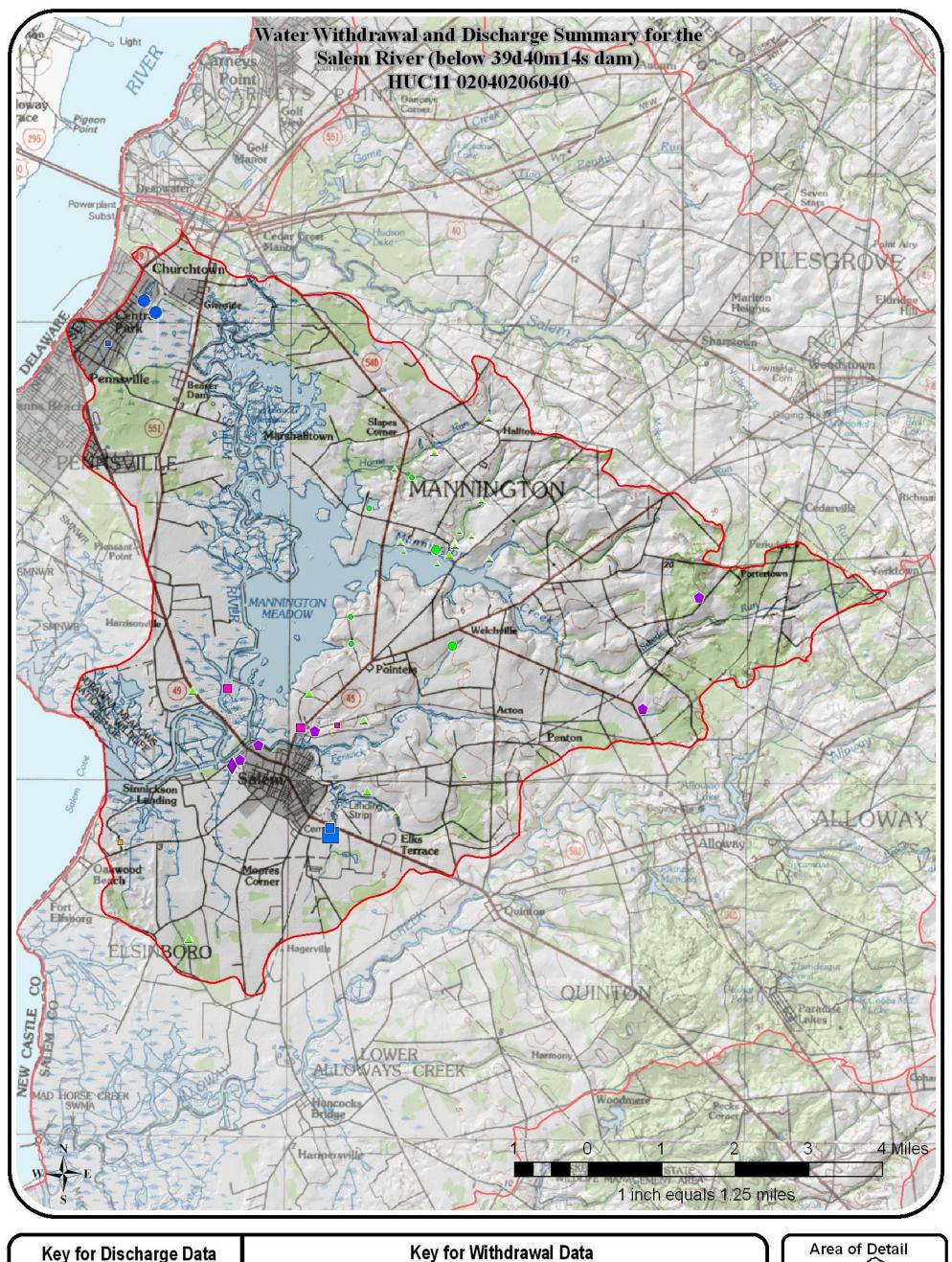
11 Import and export volumes based on reported transfers between purveyors and on intersection of purveyor service areas with HUC11s.

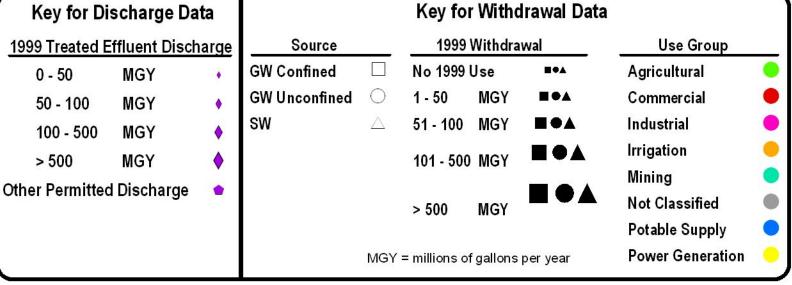
12 Projected population estimates based on NJ Metropolitan Planning Organization estimates. 13 Subject to revision. $14\,$ Withdrawals for offstream reservoirs are problematic and complicate Figures 1 and 2.

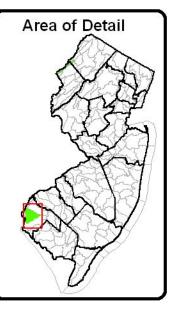
2006 New Jersey Water Supply Plan V3.0 NJ Department of Environmental Protection - Land Use Management - New Jersey Geological Survey & Division of Water Supply



Losses / Exports

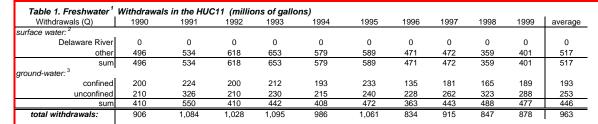


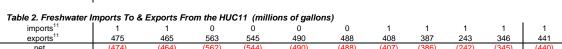


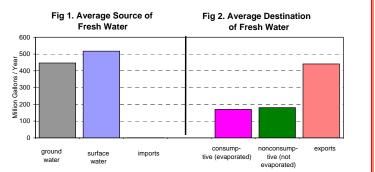


Water Withdrawals, Transfers and Discharges for ALLOWAY CREEK / HOPE CREEK --- 02040206060

WMA:	Maurice, Salem, and Cohansey	17	
HUC11:	Alloway Creek / Hope Creek	02	040206060







Water use	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	average
potable purveyors											
nonconsumptive	4	5	5	4	4	4	4	4	3	4	4
consumptive	0	24	22	23	20	24	12	19	17	18	18
domestic wells											
nonconsumptive	152	153	155	158	160	161	163	164	165	167	160
consumptive	21	22	22	22	22	23	23	23	23	24	23
industrial & commercial & mir	ning										
nonconsumptive	0	0	0	0	0	0	0	0	0	22	2
consumptive	0	0	0	0	0	0	0	0	0	2	0
agricultural & non-agricultural	l irrigation										
nonconsumptive	6	22	8	15	12	15	10	16	25	15	14
consumptive	50	199	75	138	105	137	91	141	223	134	129
power generation											
nonconsumptive	0	0	0	0	0	0	0	0	0	0	0
consumptive	0	0	0	0	0	0	0	0	0	0	0
SUM:											
nonconsumptive	162	180	168	177	175	180	177	183	193	208	180
consumptive	72	245	118	183	148	184	126	183	263	178	170
PERCENTAGES:							·			·	
nonconsumptive	69.2%	42.4%	58.8%	49.2%	54.2%	49.5%	58.4%	50.0%	42.3%	53.8%	51.5%
consumptive	30.8%	57.6%	41.2%	50.8%	45.8%	50.5%	41.6%	50.0%	57.7%	46.2%	48.5%

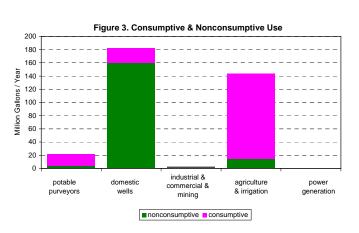


Table 4. Average Sea	sonal ⁷ Use	- Nonconsu	mptive⁴ &	Consump	tive ⁵ (millio	ns of gallor	1s)			
	Wi	nter	Sp	ring	Sum	nmer	F	all	Year	ly Avg.
Use Group	Noncon-	Consump-	Noncon-	Consump-	Noncon-	Consump-	Noncon-	Consump-	Noncon-	Consump-
	sumptive	tive	sumptive	tive	sumptive	tive	sumptive	tive	sumptive	tive
potable purveyors	48	0	42	2	38	13	48	4	177	20
domestic wells	37	0	38	3	47	16	39	4	160	23
industrial & commercial & mining	0	0	0	0	1	0	1	0	2	0
agricultural & non- agricultural irrig.	0	0	1	10	12	110	1	9	14	129
power generation	0	0	0	0	0	0	0	0	0	0
SUM:	85	0	81	16	98	140	89	16	353	172

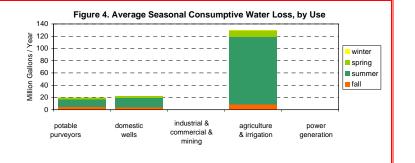
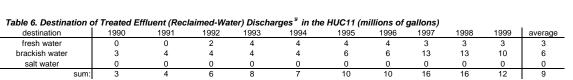


Table 5. Sewage Gen	eration & Tra	ansfers* in	the HUC11	(millions	of gallons)						
	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	average
generated in HUC11	3	4	6	8	7	10	10	16	16	12	9
imported to HUC11	0	0	0	0	0	0	0	0	0	0	0
exported from HUC11	0	0	0	0	0	0	0	0	0	0	0



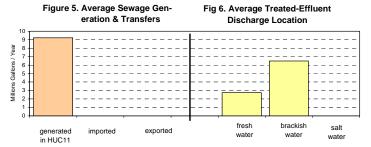


Table 7. 1999 Water			in	HUC11 by
Wa	iter So			
Water Source		MGY		
surface water		1,187		
ground water		854		
-	total	2,041		
		10		
Wate	er Use	ations ¹⁰ Group	in	
Wate Use Gro	er Use		in	MGY
Wate Use Gro agricultu	er Use oup ural		in	MGY 1,281
Wate Use Gro agricultu commer	oup ural cial		in	MGY 1,281 0
Wate Use Gro agricultu	oup ural cial		in	MGY 1,281
Use Gro agricultu commer	oup ural rcial ial		in	MGY 1,281 0
Wate Use Gro agricultu commer industri	oup oup oral orial ial		in	MGY 1,281 0 20
Wate Use Gro agricultu commer industri irrigatio	oup ural cial ial on		in	MGY 1,281 0 20 31
Wate Use Gro agricultu commer industri irrigatic mining	er Use bup ural rcial ial on g upply		in	MGY 1,281 0 20 31 0

Area:			
in this HU	C11 only	85.8	sq. mi.
upstream	HUC11s	0.0	sq. mi.
total wa	tershed	85.8	sq. mi.
(this HUC11 c	onshore area:	77.1	sq. mi.)
Populatio			
Year	Population	Change	
1940	3,222	-	
1950	3,726	15.6%	
1960	4,781	28.3%	
1970	5,149	7.7%	
1980	5,587	8.5%	
1990	5,573	-0.2%	
2000	5,735	2.9%	
2010	5,858	2.1%	est.12
2020	6,161	5.2%	est.12
2030	6,227	1.1%	est.12
I and Uso	of this HUC	11.	
Land Use	Yea		
Type	1986	1995	 Change
ag.	26.6%	25.8%	-0.8%
barren	0.3%	0.2%	0.0%
forest	15.6%	15.9%	0.3%
urban	5.4%	6.0%	0.7%
water	14.2%	14.3%	0.0%
wetlands	37.9%	37.8%	-0.1%
% of this l			
Pinela		0.0%	
Highle	ands:	0.0%	

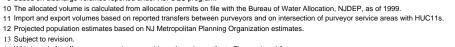
Table 9. HUC11 Descriptive Statistics

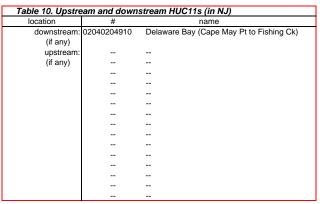
bie io. opsiie	aiii aiiu uowii	stream HUC11s (in NJ)
location	#	name
downstream:	02040204910	Delaware Bay (Cape May Pt to Fishing Ck
(if any)		
upstream:		
(if any)		

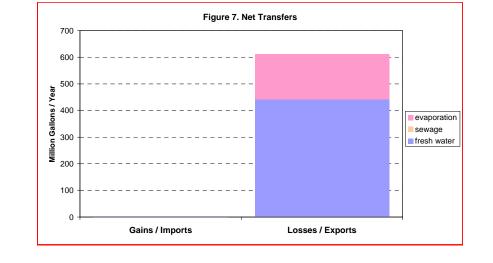
NOTES:

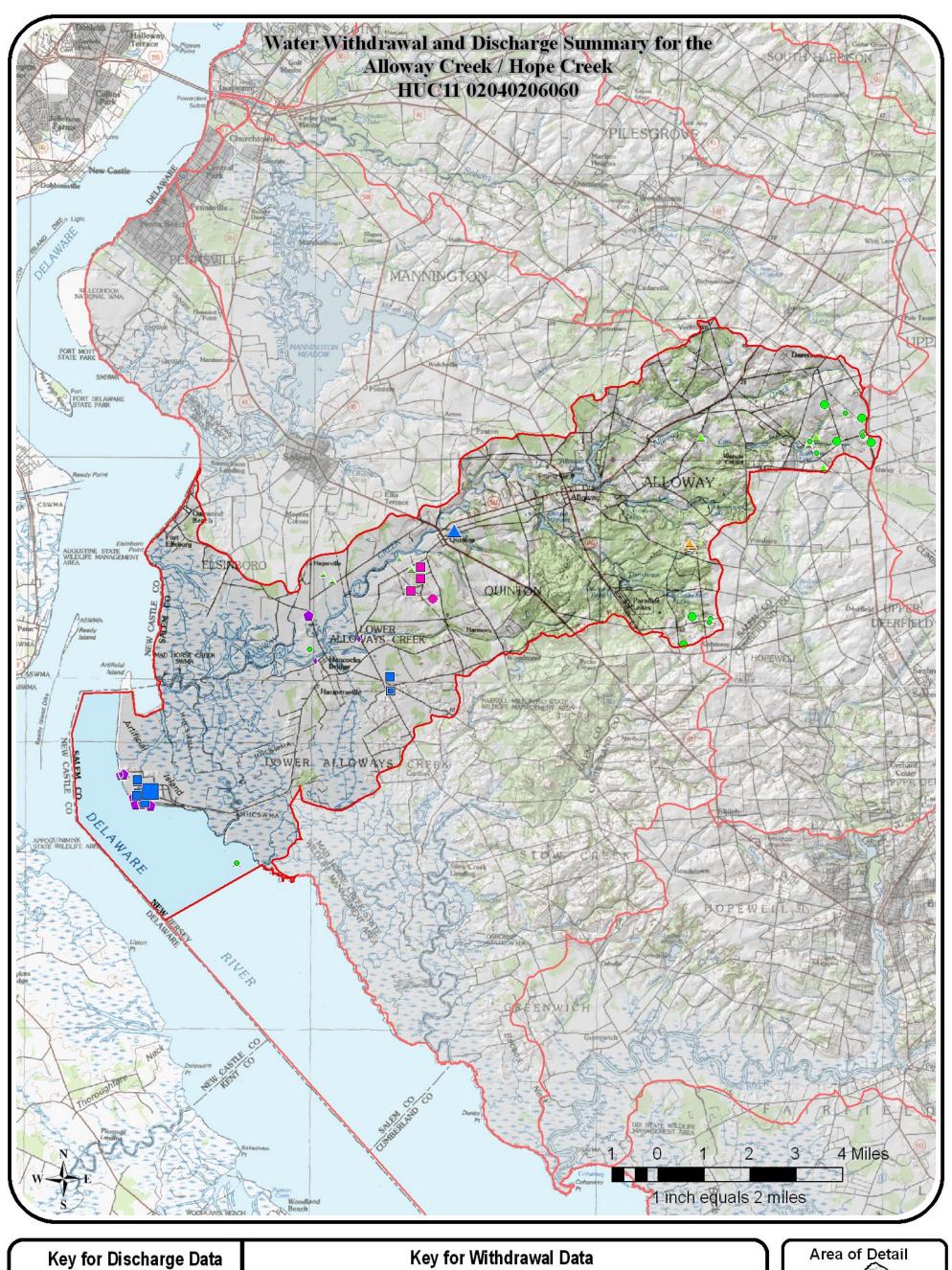
- 1 Salt and brackish water withdrawal and use is not included in this data.
- 2 This does not account for water released from onstream reservoirs for downstream intakes.
- ${\small 3\>\> Includes\> both\> permitted\> ground-water\> with drawals\> and\> estimated\> domestic\> well\> with drawals.}$ 4 Nonconsumptive water use refers to water used in the watershed but not evaporated.
- 5 Consumptive water use refers to water evaporated in the watershed. It does not include exports.
- 6 Use refers only to water actually used in that HUC11. It is equal to freshwater withdrawals + imports exports. 7 Winter is Jan, Feb, Dec of the same year; spring is March-May; summer is June-Aug; fall is Sept-Nov.
- 8 Sewage generation and transfers are based on intersection of sewer service areas with HUC11s. 9 Based on discharge volumes reported under NJPDES program.

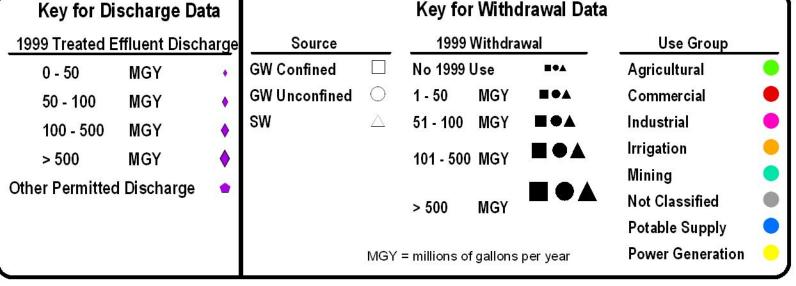
- $14\,$ Withdrawals for offstream reservoirs are problematic and complicate Figures 1 and 2.

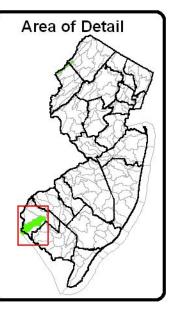






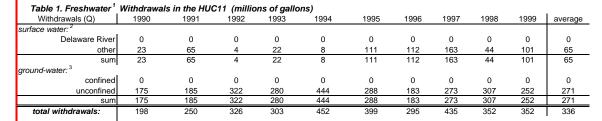






Water Withdrawals, Transfers and Discharges for STOW CREEK --- 02040206070

WMA:	Maurice, Salem, and Cohansey	17	
HUC11:	Stow Creek	02	040206070





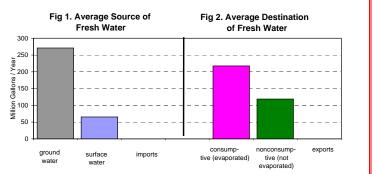


Table 3. Nonconsump	tive⁴ & Co	nsumptive⁵	Water Use	e in the H	UC11, by Us	se Type (mi	illions of g	allons)			
Water use	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	average
potable purveyors											
nonconsumptive	0	0	0	0	0	0	0	0	0	0	0
consumptive	0	0	0	0	0	0	0	0	0	0	0
domestic wells											
nonconsumptive	92	93	94	95	96	97	98	98	99	100	96
consumptive	13	13	13	13	14	14	14	14	14	14	14
industrial & commercial & mi	ning										
nonconsumptive	0	0	0	0	0	0	0	0	0	0	0
consumptive	0	0	0	0	0	0	0	0	0	0	0
agricultural & non-agricultura	al irrigation										
nonconsumptive	9	14	22	19	34	29	18	32	24	24	23
consumptive	83	129	197	174	309	260	165	291	215	214	204
power generation											
nonconsumptive	0	0	0	0	0	0	0	0	0	0	0
consumptive	0	0	0	0	0	0	0	0	0	0	0
SUM:											
nonconsumptive	102	107	116	115	130	126	116	130	123	124	119
consumptive	96	142	210	188	322	273	179	305	229	228	217
PERCENTAGES:											
nonconsumptive	51.4%	43.0%	35.6%	37.9%	28.8%	31.5%	39.4%	30.0%	34.9%	35.2%	35.4%
consumptive	48.6%	57.0%	64.4%	62.1%	71.2%	68.5%	60.6%	70.0%	65.1%	64.8%	64.6%

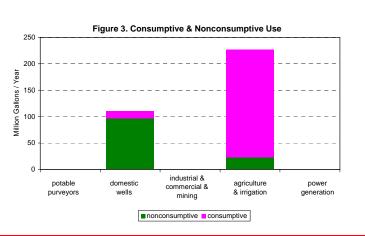


Table 4. Average Seasonal 7 Use - Nonconsumptive 4 & Consumptive 5 (millions of gallons)										
	Wi	nter	Sp	Spring		nmer	F	all	Yearly Avg.	
Use Group	Noncon-	Consump-	Noncon-	Consump-	Noncon-	Consump-	Noncon-	Consump-	Noncon-	Consump-
	sumptive	tive	sumptive	tive	sumptive	tive	sumptive	tive	sumptive	tive
potable purveyors	0	0	0	0	0	0	0	0	0	0
domestic wells	22	0	23	2	28	10	23	2	96	14
industrial & commercial & mining	0	0	0	0	0	0	0	0	0	0
agricultural & non- agricultural irrig.	0	4	2	21	17	149	3	30	23	204
power generation	0	0	0	0	0	0	0	0	0	0
SUM:	23	4	25	22	45	159	27	32	119	217

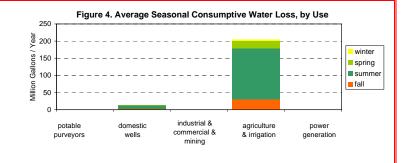
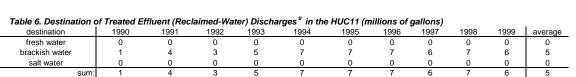


Table 5. Sewage Generation & Transfers ⁸ in the HUC11 (millions of gallons)											
	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	average
generated in HUC11	1	4	3	5	7	7	7	6	7	6	5
imported to HUC11	0	0	0	0	0	0	0	0	0	0	0
exported from HUC11	0	0	0	0	0	0	0	0	0	0	0



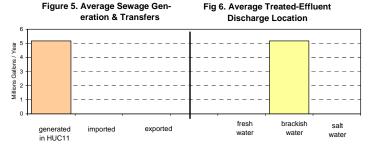


Table 7. 1999 Wate				by
И	/ater Sc	ource		
Water Source		MGY	_	
surface water		800		
ground water		685		
	total	1,485		
Table 8. 1999 Wate	er Alloc	ations 10	in	HUC11 by
Wa	ter Use		in	
<i>Wa</i> Use G	<i>ter Use</i> roup		in	MGY
Wa	<i>ter Use</i> roup		in	
<i>Wa</i> Use G	<i>ter Use</i> roup tural		in	MGY
Wa Use G agricul	ter Use roup Itural ercial		in	MGY 1,485
Wa Use G agricul comme	ter Use roup Itural ercial trial		in	MGY 1,485 0
Wa Use G agricul comme indus	ter Use roup Itural ercial trial tion		in	MGY 1,485 0 0
Wa Use G agricul comme indus irrigat	ter Use roup Itural ercial trial tion ng		in	MGY 1,485 0 0

Area:			
in this HU	C11 only	55.2	sq. mi.
upstream		0.0	sq. mi.
total wat	tershed	55.2	sq. mi.
(this HUC11 c	nshore area:	54.7	sq. mi.)
Populatio	n of this HU(C11:	
Year	Population	Change	
1940	2,072	-	_
1950	2,555	23.3%	
1960	2,878	12.6%	
1970	2,951	2.5%	
1980	3,412	15.6%	
1990	3,441	0.9%	
2000	3,503	1.8%	
2010	3,699	5.6%	est.12
2020	4,032	9.0%	est.12
2030	4,241	5.2%	est.12
I and IIse	of this HUC	11.	
	Yea		
Type	1986	1995	 Change
ag.	28.5%	28.1%	-0.3%
barren	0.5%	0.4%	-0.1%
forest	20.0%	19.7%	-0.3%
urban	3.6%	4.5%	0.9%
water	5.4%	5.4%	0.1%
wetlands	42.0%	41.9%	-0.1%
			•
% of this I			
Pinela		0.0%	
Highla	anas:	0.0%	

Table 9. HUC11 Descriptive Statistics

location	#	name
downstream:	02040204910	Delaware Bay (Cape May Pt to Fishing Ck
(if any)		, , , ,
upstream:		
(if any)		

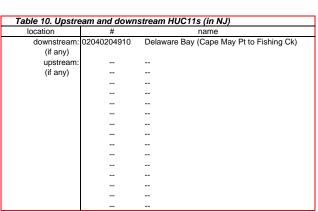
NOTES:

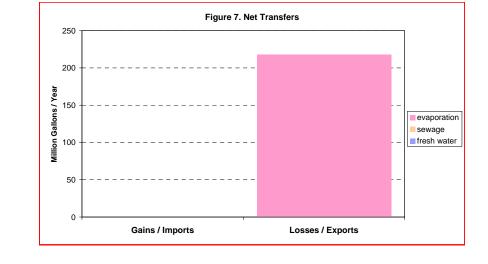
- 1 Salt and brackish water withdrawal and use is not included in this data.
- 2 This does not account for water released from onstream reservoirs for downstream intakes.
- ${\small 3\>\> Includes\> both\> permitted\> ground-water\> with drawals\> and\> estimated\> domestic\> well\> with drawals.}$ 4 Nonconsumptive water use refers to water used in the watershed but not evaporated.
- 5 Consumptive water use refers to water evaporated in the watershed. It does not include exports.
- 6 Use refers only to water actually used in that HUC11. It is equal to freshwater withdrawals + imports exports. 7 Winter is Jan, Feb, Dec of the same year; spring is March-May; summer is June-Aug; fall is Sept-Nov.
- 8 Sewage generation and transfers are based on intersection of sewer service areas with HUC11s. 9 Based on discharge volumes reported under NJPDES program.
- 10 The allocated volume is calculated from allocation permits on file with the Bureau of Water Allocation, NJDEP, as of 1999.

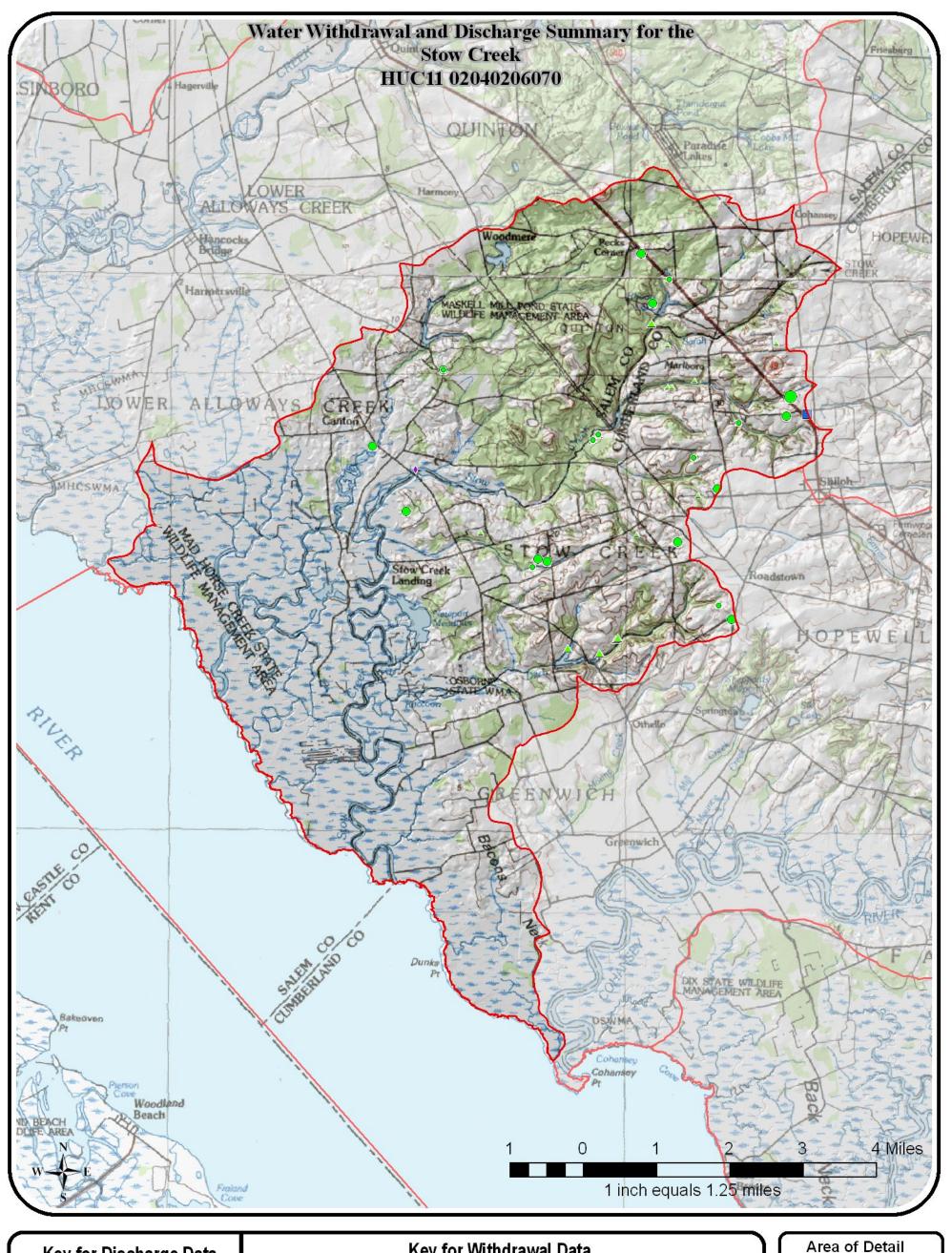
 11 Import and export volumes based on reported transfers between purveyors and on intersection of purveyor service areas with HUC11s.

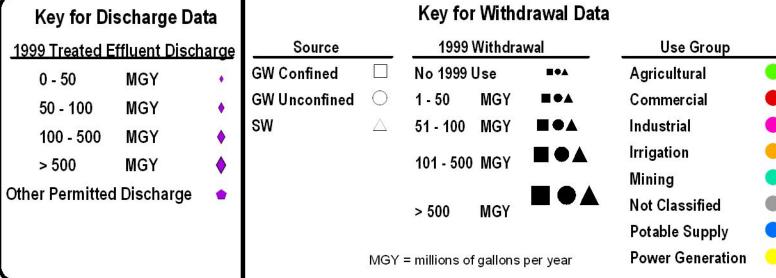
2006 New Jersey Water Supply Plan V3.0 NJ Department of Environmental Protection - Land Use Management - New Jersey Geological Survey & Division of Water Supply

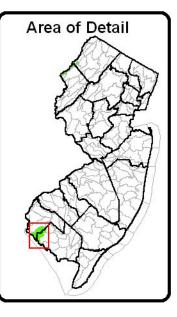
12 Projected population estimates based on NJ Metropolitan Planning Organization estimates. 13 Subject to revision. $14\,$ Withdrawals for offstream reservoirs are problematic and complicate Figures 1 and 2.





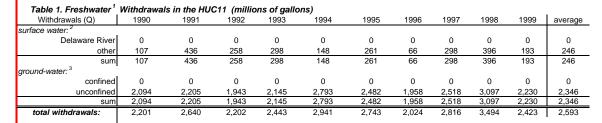


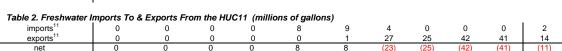




Water Withdrawals, Transfers and Discharges for UPPER COHANSEY RIVER --- 02040206080

WMA:	Maurice, Salem, and Cohansey	17		_
HUC11:	Upper Cohansey River	02	040206080	





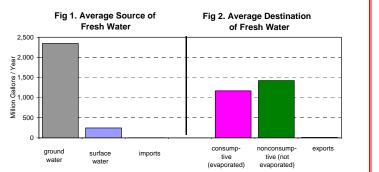


Table 3. Nonconsump	tive⁴ & Coı	nsumptive⁵	Water Use	e ⁶ in the H	UC11, by Us	se Type (mi	llions of g	allons)			_
Water use	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	average
potable purveyors											
nonconsumptive	141	118	138	115	160	167	166	180	208	181	157
consumptive	19	14	17	17	23	23	19	24	26	20	20
domestic wells											
nonconsumptive	146	147	149	150	152	154	155	156	157	158	153
consumptive	21	21	21	21	21	22	22	22	22	22	21
ndustrial & commercial & mir	ning										
nonconsumptive	1,037	986	828	996	1,115	803	1,013	1,115	1,107	998	1,000
consumptive	115	110	92	111	124	89	113	124	123	111	111
ngricultural & non-agricultural	irrigation										
nonconsumptive	72	124	96	101	134	147	53	117	186	97	113
consumptive	649	1,117	862	908	1,202	1,327	480	1,051	1,671	875	1,014
nower generation											
nonconsumptive	0	0	0	0	0	0	0	0	0	0	0
consumptive	0	0	0	0	0	0	0	0	0	0	0
SUM:											
nonconsumptive	1,397	1,375	1,210	1,362	1,561	1,271	1,387	1,567	1,658	1,435	1,422
consumptive	803	1,262	992	1,057	1,370	1,461	633	1,222	1,842	1,029	1,167
PERCENTAGES:											
nonconsumptive	63.5%	52.2%	55.0%	56.3%	53.3%	46.5%	68.7%	56.2%	47.4%	58.2%	54.9%
consumptive	36.5%	47.8%	45.0%	43.7%	46.7%	53.5%	31.3%	43.8%	52.6%	41.8%	45.1%

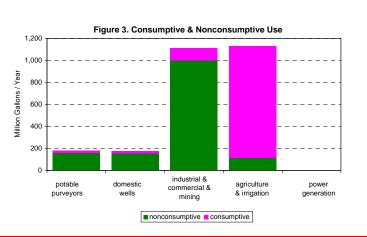


Table 4. Average Sea	sonal ⁷ Use	- Nonconsu	mptive⁴ 8	Consump	tive⁵ (millic	ns of gallor	1s)			
	Wi	nter	Sp	Spring		nmer	F	all	Yearly Avg.	
Use Group	Noncon-	Consump-	Noncon-	Consump-	Noncon-	Consump-	Noncon-	Consump-	Noncon-	Consump-
	sumptive	tive	sumptive	tive	sumptive	tive	sumptive	tive	sumptive	tive
potable purveyors	41	0	40	3	39	13	45	4	165	20
domestic wells	35	0	36	3	44	15	37	3	153	21
industrial & commercial & mining	170	19	227	25	296	33	308	34	1,000	111
agricultural & non- agricultural irrig.	2	19	10	86	86	770	15	139	113	1,014
power generation	0	0	0	0	0	0	0	0	0	0
SUM:	248	38	312	117	464	832	405	181	1,430	1,167

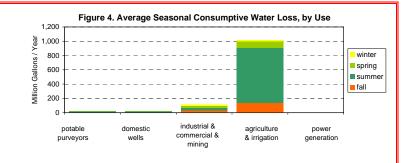
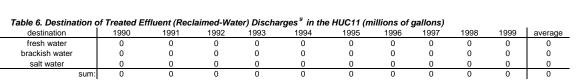
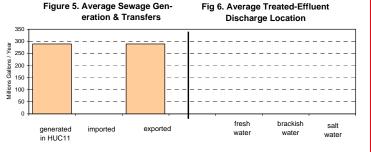


Table 5. Sewage Generation & Transfers ⁸ in the HUC11 (millions of gallons)											
	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	average
generated in HUC11	266	279	276	299	298	288	286	281	296	324	289
imported to HUC11	0	0	0	0	0	0	0	0	0	0	0
exported from HUC11	266	279	276	299	298	288	286	281	296	324	289

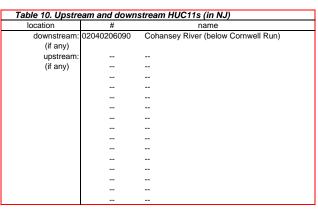




Water S	ource	-
Water Source	MGY	
surface water	2,065	
ground water	12,760	
total	14,825	
	10	
Table 8. 1999 Water Allo		1 HUC11 by
Water Use	e Group	
Use Group		MGY
agricultural		12,477
commercial		0
industrial		1,887
irrigation		37
mining		0
potable supply		423
power generation		
power generation	1	0

Table 7. 1999 Water Allocations 10 in HUC11 by

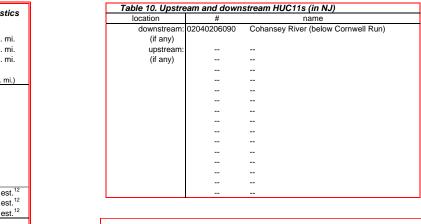
Table 9. H	HUC11 Desc	riptive S	tatistics					
Area:								
in this HL	JC11 only	37.4	sq. mi.					
upstream	HUC11s	0.0	sq. mi.					
total wa	tershed	37.4	sq. mi.					
(this HUC11	onshore area:	37.4	sq. mi.)					
Population of this HUC11:								
Year	Population	Change						
1940	2,474	-	-					
1950	4,561	84.3%						
1960	5,586	22.5%						
1970	6,156	10.2%						
1980	6,436	4.5%						
1990	6,387	-0.7%						
2000	6,896	8.0%						
2010	7,377	7.0%	est.12					
2020	8,071	9.4%	est.12					
2030	8,665	7.4%	est.12					
Land Use	of this HUC	11:						
Tuma	Yea	ar	Chana					
Туре	1986	1995	- Chang					
ag.	70.9%	69.4%	-1.5%					
	0.40/	0.3%	-0.1%					
barren	0.4%	0.3%						
barren forest	0.4% 12.7%	12.3%	-0.4%					
forest	12.7%	12.3%	-0.4%					
forest urban	12.7% 8.4%	12.3% 10.3%	-0.4% 1.9%					
forest urban water wetlands	12.7% 8.4% 0.4% 7.2%	12.3% 10.3% 0.5%	-0.4% 1.9% 0.0%					
forest urban water wetlands	12.7% 8.4% 0.4% 7.2% HUC11 in:	12.3% 10.3% 0.5%	-0.4% 1.9% 0.0%					

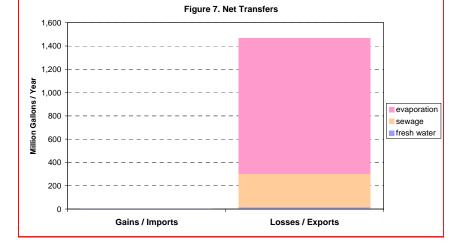


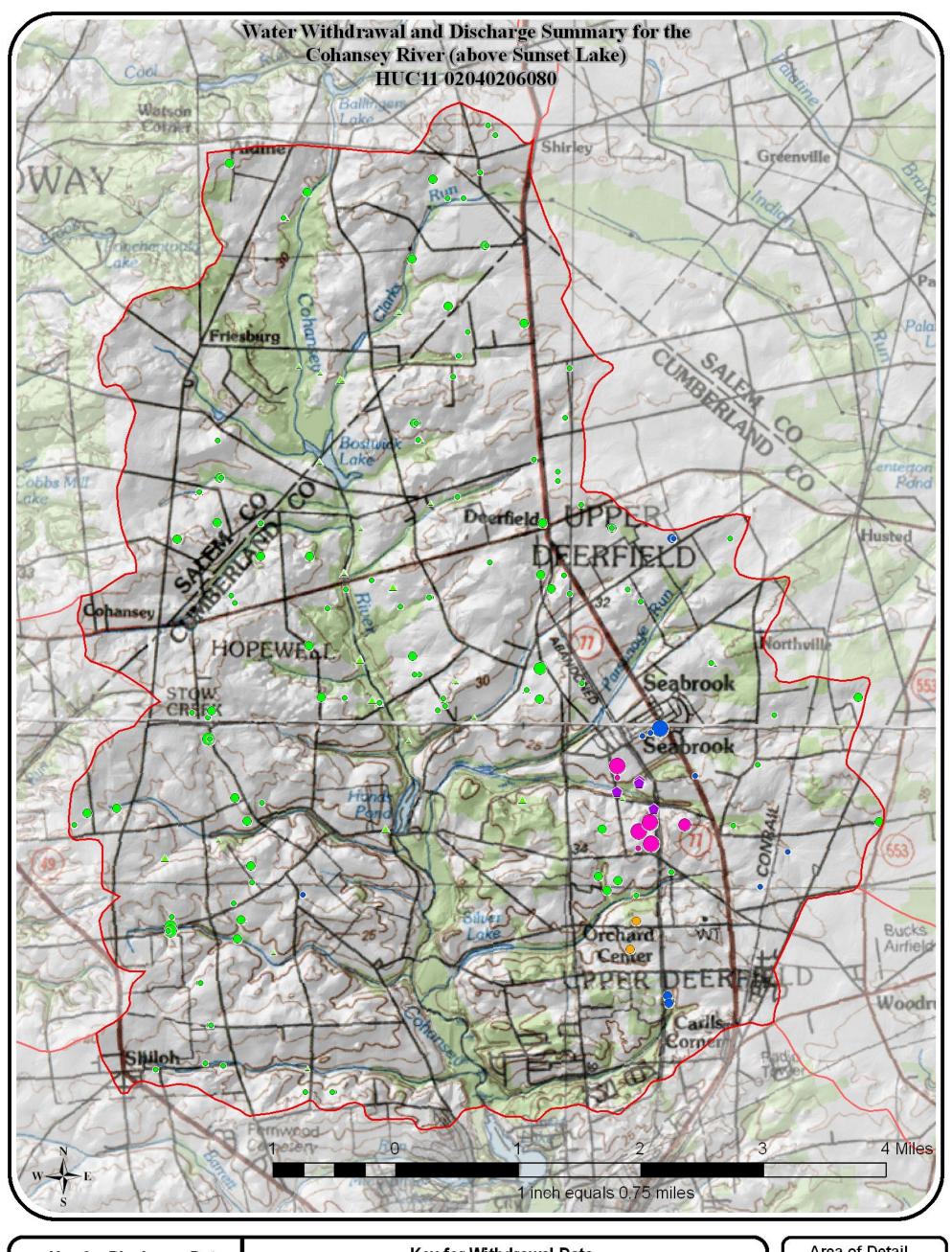
NOTES:

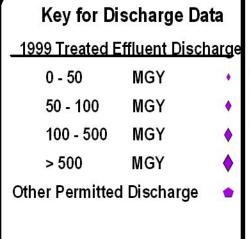
- 1 Salt and brackish water withdrawal and use is not included in this data
- 2 This does not account for water released from onstream reservoirs for downstream intakes.
- 3 Includes both permitted ground-water withdrawals and estimated domestic well withdrawals. 4 Nonconsumptive water use refers to water used in the watershed but not evaporated.
- 5 Consumptive water use refers to water evaporated in the watershed. It does not include exports.
- 6 Use refers only to water actually used in that HUC11. It is equal to freshwater withdrawals + imports exports.
- 7 Winter is Jan, Feb, Dec of the same year; spring is March-May; summer is June-Aug; fall is Sept-Nov.
- 8 Sewage generation and transfers are based on intersection of sewer service areas with HUC11s. 9 Based on discharge volumes reported under NJPDES program.
- 10 The allocated volume is calculated from allocation permits on file with the Bureau of Water Allocation, NJDEP, as of 1999.

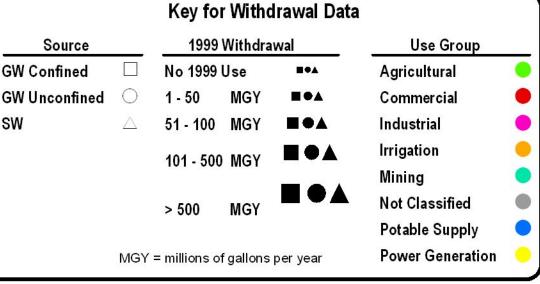
 11 Import and export volumes based on reported transfers between purveyors and on intersection of purveyor service areas with HUC11s.
- 12 Projected population estimates based on NJ Metropolitan Planning Organization estimates.
- 13 Subject to revision.
- $14\,$ Withdrawals for offstream reservoirs are problematic and complicate Figures 1 and 2.

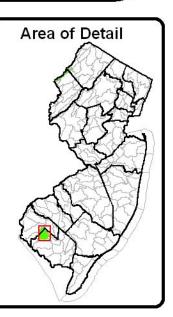






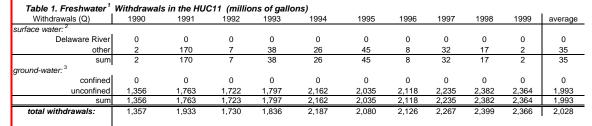






Water Withdrawals, Transfers and Discharges for LOWER COHANSEY RIVER --- 02040206090

WMA:	Maurice, Salem, and Cohansey	17	
HUC11:	Lower Cohansey River	02	040206090





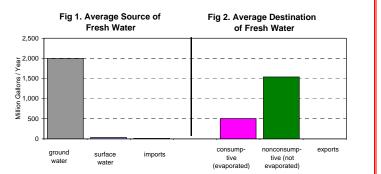


Table 3. Nonconsumpt	tive⁴ & Co	nsumptive⁵	Water Use	e ⁶ in the H	UC11, by Us	se Type (mi	llions of g	allons)			
Water use	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	average
potable purveyors											
nonconsumptive	881	923	1,033	1,072	1,080	1,055	1,019	1,018	1,055	1,124	1,026
consumptive	106	117	130	139	134	130	120	129	137	146	129
domestic wells											
nonconsumptive	197	198	200	202	204	206	207	208	210	212	204
consumptive	28	28	28	28	29	29	29	29	30	30	29
industrial & commercial & min	ning										
nonconsumptive	3	5	4	19	338	335	549	500	575	407	274
consumptive	3	5	4	18	46	46	75	68	78	55	40
agricultural & non-agricultural	irrigation										
nonconsumptive	16	66	33	36	36	28	15	34	35	43	34
consumptive	148	590	298	322	320	251	136	303	317	385	307
power generation											
nonconsumptive	0	0	0	0	0	0	0	0	0	0	0
consumptive	0	0	0	0	0	0	0	0	0	0	0
SUM:											
nonconsumptive	1,098	1,193	1,270	1,329	1,658	1,624	1,790	1,761	1,875	1,786	1,538
consumptive	285	740	460	507	529	456	360	529	561	616	505
PERCENTAGES:				•	•	•					
nonconsumptive	79.4%	61.7%	73.4%	72.4%	75.8%	78.1%	83.3%	76.9%	77.0%	74.3%	75.3%
consumptive	20.6%	38.3%	26.6%	27.6%	24.2%	21.9%	16.7%	23.1%	23.0%	25.7%	24.7%

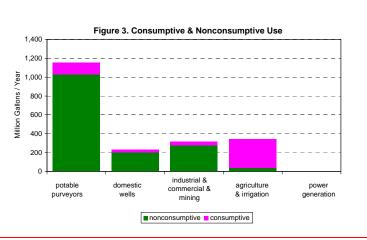


Table 4. Average Sea	Table 4. Average Seasonal ⁷ Use - Nonconsumptive ⁴ & Consumptive ⁵ (millions of gallons)												
	Winter		Sp	ring	Sun	nmer	F	all	Year	y Avg.			
Use Group	Noncon-	Consump-	Noncon-	Consump-	Noncon-	Consump-	Noncon-	Consump-	Noncon-	Consump-			
	sumptive	tive	sumptive	tive	sumptive	tive	sumptive	tive	sumptive	tive			
potable purveyors	251	0	266	18	255	88	255	23	1,027	129			
domestic wells	47	0	48	4	59	21	50	5	204	29			
industrial & commercial & mining	25	4	72	11	93	14	84	12	274	40			
agricultural & non- agricultural irrig.	1	5	4	33	25	227	5	42	34	307			
power generation	0	0	0	0	0	0	0	0	0	0			
SUM:	323	8	390	65	433	350	394	81	1,539	505			

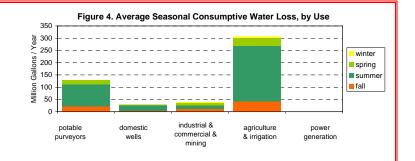
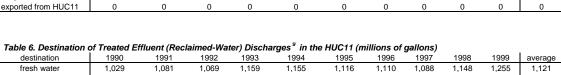


Table 5. Sewage Generation & Transfers ⁸ in the HUC11 (millions of gallons)											
	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	average
generated in HUC11	680	714	706	766	763	737	734	719	759	830	741
imported to HUC11	349	366	362	393	391	378	376	369	389	426	380
exported from HUC11	0	0	0	0	0	0	0	0	0	0	0



0

1,155

0

1,116

Table 9. HUC11 Descriptive Statistics

0

1,110

0

1,088

0

1,148

0

1,255

0

1,121

600

0

1,159

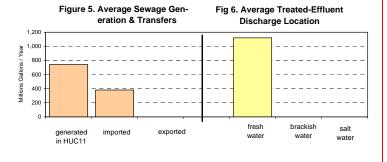


Table 7. 1999 Water A	llocations	¹⁰ in	HUC11 by
Wate	r Source		
Water Source	MGY		
surface water	643		
ground water	4,830		
tot	tal 5,473		
Table 8. 1999 Water A	llocations	¹⁰ in	HUC11 by
Table 8. 1999 Water A Water	llocations Use Group	¹⁰ in	HUC11 by
	Use Group	¹⁰ in	MGY
Water	Use Group	¹⁰ in	
Water Use Group	<u>Use Group</u> I	¹⁰ in	MGY
Water Use Group agricultura	<u>Use Group</u> I	¹⁰ in	MGY 3,085
Water Use Group agricultura commercia	<u>Use Group</u> I	¹⁰ in	MGY 3,085 37
Water Use Group agricultura commercia industrial	<u>Use Group</u> I	¹⁰ in	MGY 3,085 37 0
Water Use Group agricultura commercia industrial irrigation	<u>Use Group</u> o I al	¹⁰ in	MGY 3,085 37 0 149
Water Use Group agricultura commercia industrial irrigation mining	Use Group o i al	¹⁰ in	MGY 3,085 37 0 149 661

0

1,029

sum:

0

1,081

0

1,069

brackish water

salt water

Area:											
in this HU	IC11 only	69.7	sq. mi.								
upstream	HUC11s	37.4	sq. mi.								
total wa	tershed	107.1	sq. mi.								
(this HUC11 o	onshore area:	67.6	sq. mi.)								
Populatio	n of this HUC	C11:									
Year	Population	Change									
1940	19,552	-	_								
1950	23,259	19.0%									
1960	27,416	17.9%									
1970	27,760	1.3%									
1980	26,828	-3.4%									
1990	26,807	-0.1%									
2000	31,221	16.5%									
2010	33,455	7.2%	est.12								
2020	36,665	9.6%	est.12								
2030	39,435	7.6%	est.12								
I and I laa	of this HUC1	11.									
Land Use	Yea										
Type	1986	1995	 Change 								
ag.	34.2%	33.3%	-0.9%								
barren	0.7%	0.8%	0.1%								
forest	29.4%	28.5%	-0.8%								
urban	13.9%	15.6%	1.6%								
water	4.7%	5.9%	1.3%								
wetlands	17.1%	15.9%	-1.2%								
			70								
		% of this HUC11 in:									
	HUC11 in:										
		0.0%									

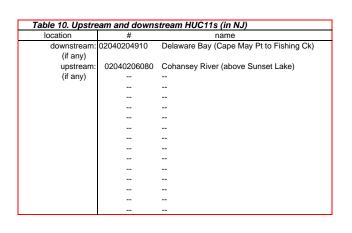


Figure 7. Net Transfers

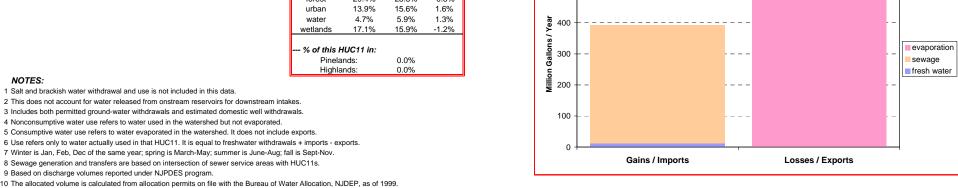
NOTES:

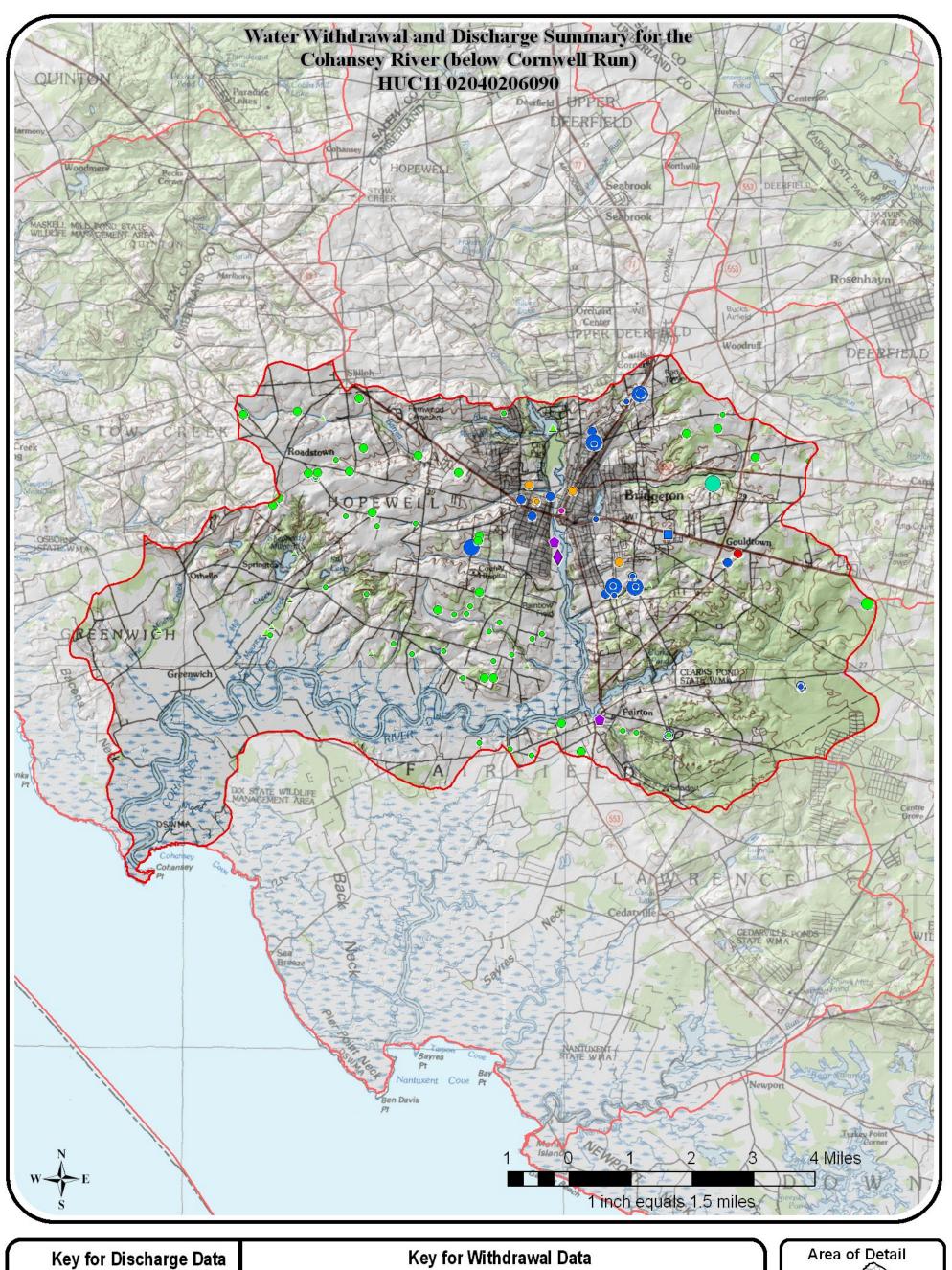
- 1 Salt and brackish water withdrawal and use is not included in this data.
- 2 This does not account for water released from onstream reservoirs for downstream intakes.
- 4 Nonconsumptive water use refers to water used in the watershed but not evaporated.
- 6 Use refers only to water actually used in that HUC11. It is equal to freshwater withdrawals + imports exports.
- 7 Winter is Jan, Feb, Dec of the same year; spring is March-May; summer is June-Aug; fall is Sept-Nov.

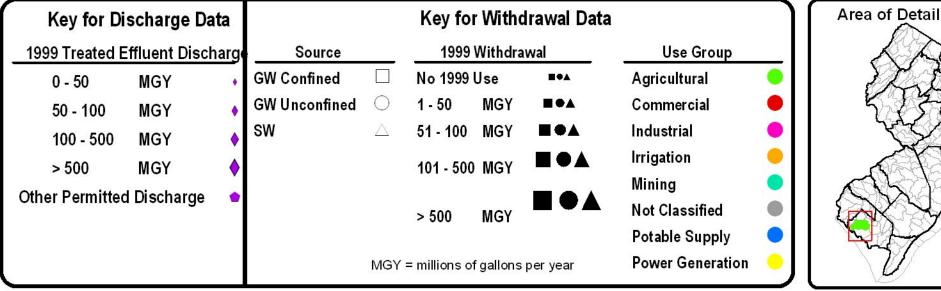
- 10 The allocated volume is calculated from allocation permits on file with the Bureau of Water Allocation, NJDEP, as of 1999.

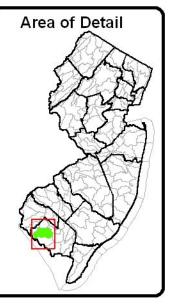
 11 Import and export volumes based on reported transfers between purveyors and on intersection of purveyor service areas with HUC11s.
- 12 Projected population estimates based on NJ Metropolitan Planning Organization estimates.
- 13 Subject to revision.
- $14\,$ Withdrawals for offstream reservoirs are problematic and complicate Figures 1 and 2.

2006 New Jersey Water Supply Plan



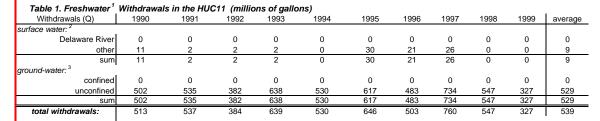


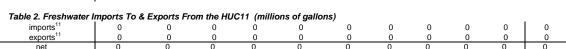




Water Withdrawals, Transfers and Discharges for BACK / CEDAR / NANTUXENT CREEKS --- 02040206100







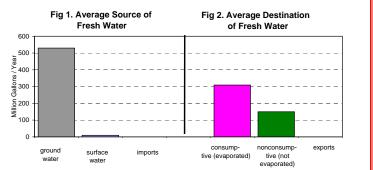


Table 3. Nonconsump											
Water use	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	averag
potable purveyors											
nonconsumptive	0	0	0	0	0	0	0	0	0	0	0
consumptive	0	0	0	15	28	29	26	28	29	26	18
domestic wells											
nonconsumptive	111	113	114	116	119	120	122	123	125	126	119
consumptive	16	16	16	16	17	17	17	17	18	18	17
industrial & commercial & mir	ning										
nonconsumptive	0	0	0	0	0	0	0	0	0	0	0
consumptive	0	0	0	0	0	0	0	0	0	0	0
agricultural & non-agricultura	l irrigation										
nonconsumptive	39	41	25	42	24	35	22	46	25	5	31
consumptive	348	368	228	382	214	314	196	418	229	49	275
power generation											
nonconsumptive	0	0	0	0	0	0	0	0	0	0	0
consumptive	0	0	0	0	0	0	0	0	0	0	0
SUM:											
nonconsumptive	150	154	140	159	142	155	144	170	150	131	149
consumptive	364	384	244	413	259	360	239	464	275	93	309
PERCENTAGES:		•									
nonconsumptive	29.2%	28.6%	36.4%	27.8%	35.5%	30.2%	37.5%	26.8%	35.3%	58.6%	32.6%
consumptive	70.8%	71.4%	63.6%	72.2%	64.5%	69.8%	62.5%	73.2%	64.7%	41.4%	67.4%

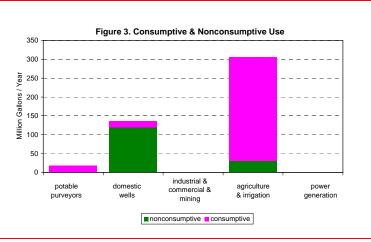


Table 4. Average Sea	sonal ⁷ Use	- Nonconsul	mptive⁴ 8	Consump	tive⁵ (millio	ons of gallor	1s)			
	Winter		Sp	ring	Sun	nmer	F	all	Yearl	ly Avg.
Use Group	Noncon-	Consump-	Noncon-	Consump-	Noncon-	Consump-	Noncon-	Consump-	Noncon-	Consump-
	sumptive	tive	sumptive	tive	sumptive	tive	sumptive	tive	sumptive	tive
potable purveyors	20	4	18	4	20	4	25	5	82	18
domestic wells	27	0	28	2	35	12	29	3	119	17
industrial & commercial & mining	0	0	0	0	0	0	0	0	0	0
agricultural & non- agricultural irrig.	0	0	6	56	18	163	6	55	31	275
power generation	0	0	0	0	0	0	0	0	0	0
SUM:	47	4	52	62	73	180	60	63	232	309

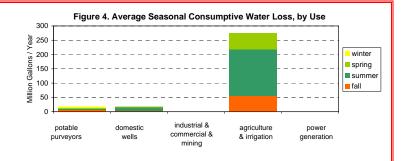
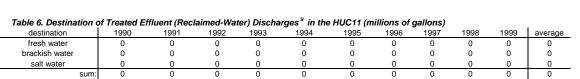
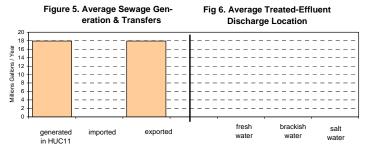


Table 5. Sewage Gen	Table 5. Sewage Generation & Transfers ⁸ in the HUC11 (millions of gallons)											
	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	average	
generated in HUC11	16	17	17	19	18	18	18	17	18	20	18	
imported to HUC11	0	0	0	0	0	0	0	0	0	0	0	
exported from HUC11	16	17	17	19	18	18	18	17	18	20	18	





		n HUC11 by
Water	Source	_
Water Source	MGY	_
surface water	0	
ground water	589	
tota	l 589	_
Table 8. 1999 Water All	ocations ¹⁰ i	n HIIC11 by
	se Group	ii iioci i by
11 0		
Use Group		MGY
agricultural		MGY 373
agricultural		373
agricultural commercial		373 0
agricultural commercial industrial		373 0 0
agricultural commercial industrial irrigation	٧	373 0 0 0
agricultural commercial industrial irrigation mining	•	373 0 0 0 0

		-							
Area:									
in this HU	JC11 only	51.0	sq. mi.						
upstream	n HUC11s	0.0	sq. mi.						
total wa	atershed	51.0	sq. mi.						
(this HUC11	onshore area:	49.7	sq. mi.)						
Populatio									
Year	Population	Change	_						
1940	2,268	-							
1950	2,907	28.2%							
1960	3,783	30.1%							
1970	3,993	5.6%							
1980	4,129	3.4%							
1990	4,368	5.8%							
2000	4,831	10.6%							
2010	5,195	7.5%	est.12						
2020	5,719	10.1%	est.12						
2030	6,170	7.9%	est.12						
Land Use	of this HUC								
Type	Yea		 Change 						
	1986	1995	0.00/						
ag.	16.0%	15.2%	-0.8%						
barren	0.3%	0.3%	0.0%						
forest	18.3%	18.5%	0.2%						
urban	2.6%	3.3%	0.7%						
water	6.8%	7.6%	0.8%						
wetlands	56.0%	55.1%	-0.9%						
0/ -6/6!-									
% of this		0.00/							
	lands: lands:	0.0% 0.0%							
підіі	iarius.	0.0%							

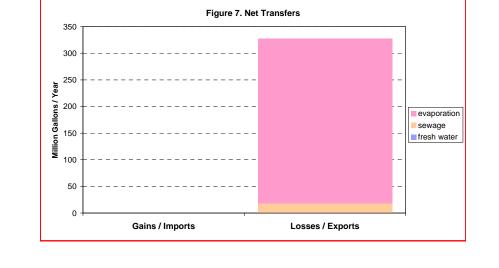
Table 9. HUC11 Descriptive Statistics

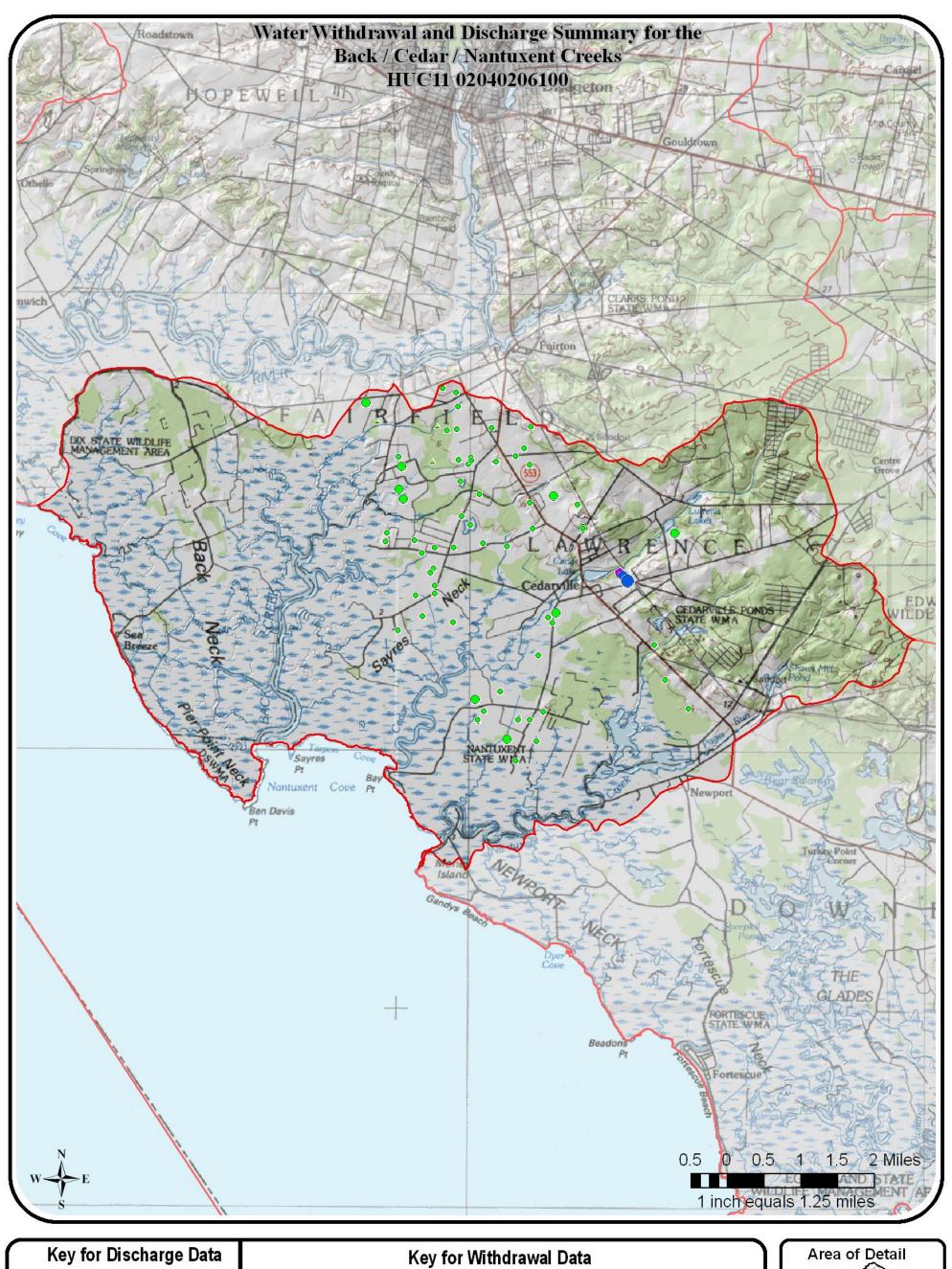
able 10. Upstre	eam and down	stream HUC11s (in NJ)
location	#	name
downstream: (if any)	02040204910	Delaware Bay (Cape May Pt to Fishing Ck)
upstream:		
(if any)		

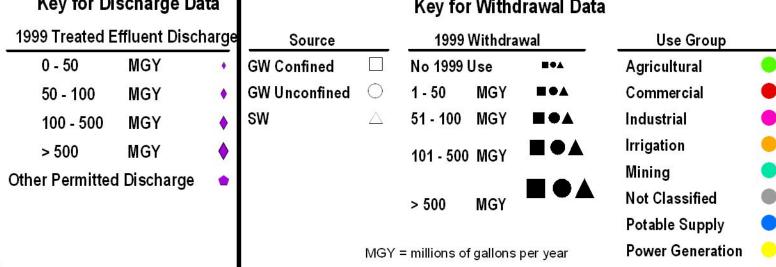
NOTES:

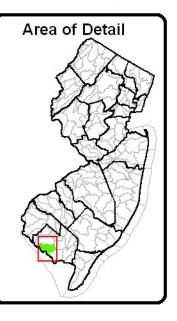
- 1 Salt and brackish water withdrawal and use is not included in this data.
- 2 This does not account for water released from onstream reservoirs for downstream intakes.
- ${\small 3\>\> Includes\> both\> permitted\> ground-water\> with drawals\> and\> estimated\> domestic\> well\> with drawals.}$ 4 Nonconsumptive water use refers to water used in the watershed but not evaporated.
- 5 Consumptive water use refers to water evaporated in the watershed. It does not include exports.
- 6 Use refers only to water actually used in that HUC11. It is equal to freshwater withdrawals + imports exports. 7 Winter is Jan, Feb, Dec of the same year; spring is March-May; summer is June-Aug; fall is Sept-Nov.
- 8 Sewage generation and transfers are based on intersection of sewer service areas with HUC11s. 9 Based on discharge volumes reported under NJPDES program.
- 10 The allocated volume is calculated from allocation permits on file with the Bureau of Water Allocation, NJDEP, as of 1999.

 11 Import and export volumes based on reported transfers between purveyors and on intersection of purveyor service areas with HUC11s.
- 12 Projected population estimates based on NJ Metropolitan Planning Organization estimates. 13 Subject to revision.
- 14 Withdrawals for offstream reservoirs are problematic and complicate Figures 1 and 2.



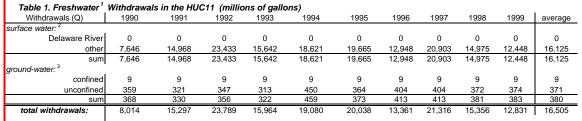


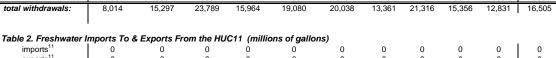




Water Withdrawals, Transfers and Discharges for DIVIDING CREEK --- 02040206110

WMA:	Maurice, Salem, and Cohansey	17	
HUC11:	Dividing Creek	02	040206110





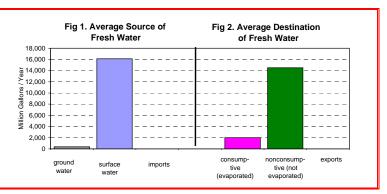


Table 3. Nonconsump	tive⁴ & Cor	nsumptive⁵	Water Use	in the H	UC11, by Us	se Type (mi	llions of g	allons)			
Water use	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	average
potable purveyors											
nonconsumptive	4	4	4	4	0	0	4	1	10	10	4
consumptive	1	1	1	1	0	0	1	0	2	2	1
domestic wells											
nonconsumptive	111	111	111	112	113	114	114	115	116	117	113
consumptive	16	16	16	16	16	16	16	16	16	16	16
industrial & commercial & mir	ning										
nonconsumptive	6,919	13,320	20,803	13,916	16,661	17,502	11,623	18,626	13,370	11,148	14,389
consumptive	943	1,816	2,837	1,898	2,272	2,387	1,585	2,540	1,823	1,520	1,962
agricultural & non-agricultural	l irrigation										
nonconsumptive	2	3	2	2	2	2	2	2	2	2	2
consumptive	19	27	17	16	17	17	16	16	16	16	18
power generation											
nonconsumptive	0	0	0	0	0	0	0	0	0	0	0
consumptive	0	0	0	0	0	0	0	0	0	0	0
SUM:											
nonconsumptive	7,035	13,438	20,920	14,034	16,776	17,618	11,743	18,744	13,498	11,277	14,508
consumptive	979	1,860	2,870	1,930	2,304	2,420	1,618	2,572	1,858	1,555	1,997
PERCENTAGES:											
nonconsumptive	87.8%	87.8%	87.9%	87.9%	87.9%	87.9%	87.9%	87.9%	87.9%	87.9%	87.9%
consumptive	12.2%	12.2%	12.1%	12.1%	12.1%	12.1%	12.1%	12.1%	12.1%	12.1%	12.1%

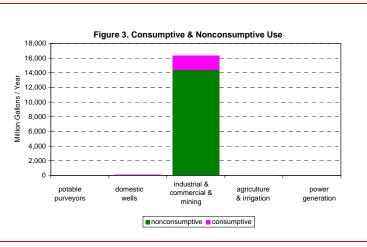


Table 4. Average Sea	sonal ⁷ Use	- Nonconsul	mptive⁴ 8	Consump	tive⁵ (millio	ons of gallor	1s)			
	Wi	nter	Sp	ring	Sun	nmer	F	all	Year	ly Avg.
Use Group	Noncon-	Consump-	Noncon-	Consump-	Noncon-	Consump-	Noncon-	Consump-	Noncon-	Consump-
	sumptive	tive	sumptive	tive	sumptive	tive	sumptive	tive	sumptive	tive
potable purveyors	1	0	1	0	1	0	1	0	4	1
domestic wells	26	0	27	2	33	11	28	3	113	16
industrial & commercial & mining	3,002	409	4,255	580	3,786	516	3,347	456	14,389	1,962
agricultural & non- agricultural irrig.	0	0	0	2	1	12	0	3	2	18
power generation	0	0	0	0	0	0	0	0	0	0
SUM:	3,029	410	4,283	585	3,821	541	3,376	462	14,508	1,997

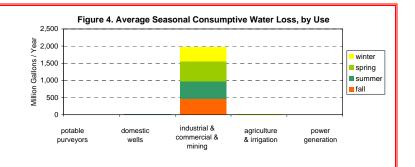


Table 5. Sewage Gen	eration & Tra	ansfers [®] in	the HUC11	(millions	of gallons)						
	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	average
generated in HUC11	0	0	0	0	0	0	0	0	0	0	0
imported to HUC11	0	0	0	0	0	0	0	0	0	0	0
exported from HUC11	0	0	0	0	0	0	0	0	0	0	0

0

0

0

0

Table 6. Destination of Treated Effluent (Reclaimed-Water) Discharges in the HUC11 (millions of gallons)

0

1992

0

0

37



1998

0

1999

0

Figure 5	5. Average Se eration & T		Fig 6.	-	Treated-Efflu E Location	ent
Millions Gallons / Year						
generated in HUC11	imported	exported	,	fresh water	brackish water	salt water

Table 7. 1999 Water	r Alloc	ations 10	in HUC11 by
Wa	ater So	ource	_
Water Source		MGY	
surface water		9,147	
ground water		28,919	
	total	38,066	
Table 8 1999 Water	r Alloc	eations 10	in HUC11 by
Table 8. 1999 Water			in HUC11 by
	er Use	ations ¹⁰ Group	in HUC11 by
Wate	er Use oup		
Wate Use Gro	e r Use oup ural		MGY
Wate Use Gro agriculti	er Use oup ural rcial		MGY 62
Wate Use Gro agricultr comme	er Use oup ural rcial rial		MGY 62 0

potable supply power generation

sum:

1990

0

destination

brackish water

salt water

Table 9. I	HUC11 Desc	riptive S	tatistics
Area:			
in this HU	JC11 only	60.1	sq. mi.
upstream	HUC11s	0.0	sq. mi.
total wa	itershed	60.1	sq. mi.
(this HUC11	onshore area:	59.8	sq. mi.)
Populatio	n of this HUC	C11:	
Year	Population	Change	
1940	2,550	-	-
1950	2,936	15.1%	
1960	3,011	2.5%	
1970	3,114	3.4%	
1980	3,573	14.7%	
1990	3,639	1.8%	
2000	3,679	1.1%	
2010	3,983	8.2%	est.12
2020	4,419	10.9%	est.12
2030	4,795	8.5%	est.12
Land Use	of this HUC1	11:	
Type	Yea	ar	- Change
туре	1986	1995	Change
ag.	3.0%	2.7%	-0.4%
barren	2.1%	1.7%	-0.4%
forest	11.6%	11.8%	0.2%
urban	2.0%	2.0%	0.1%
water	9.1%	10.8%	1.7%
wetlands	72.2%	71.0%	-1.3%
% of this	HUC11 in:		
	HUC11 in: ands:	0.0%	

1		stream HUC11s (in NJ)
location	#	name
downstream:	02040204910	Delaware Bay (Cape May Pt to Fishing Ck
(if any)		
upstream:		
(if any)		

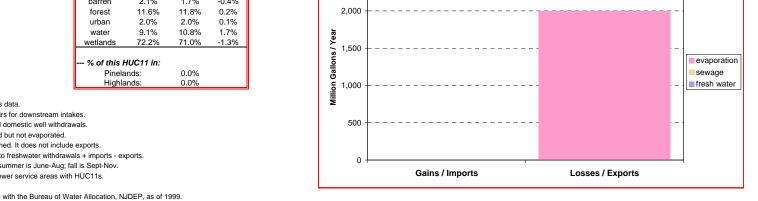
Figure 7. Net Transfers

NOTES:

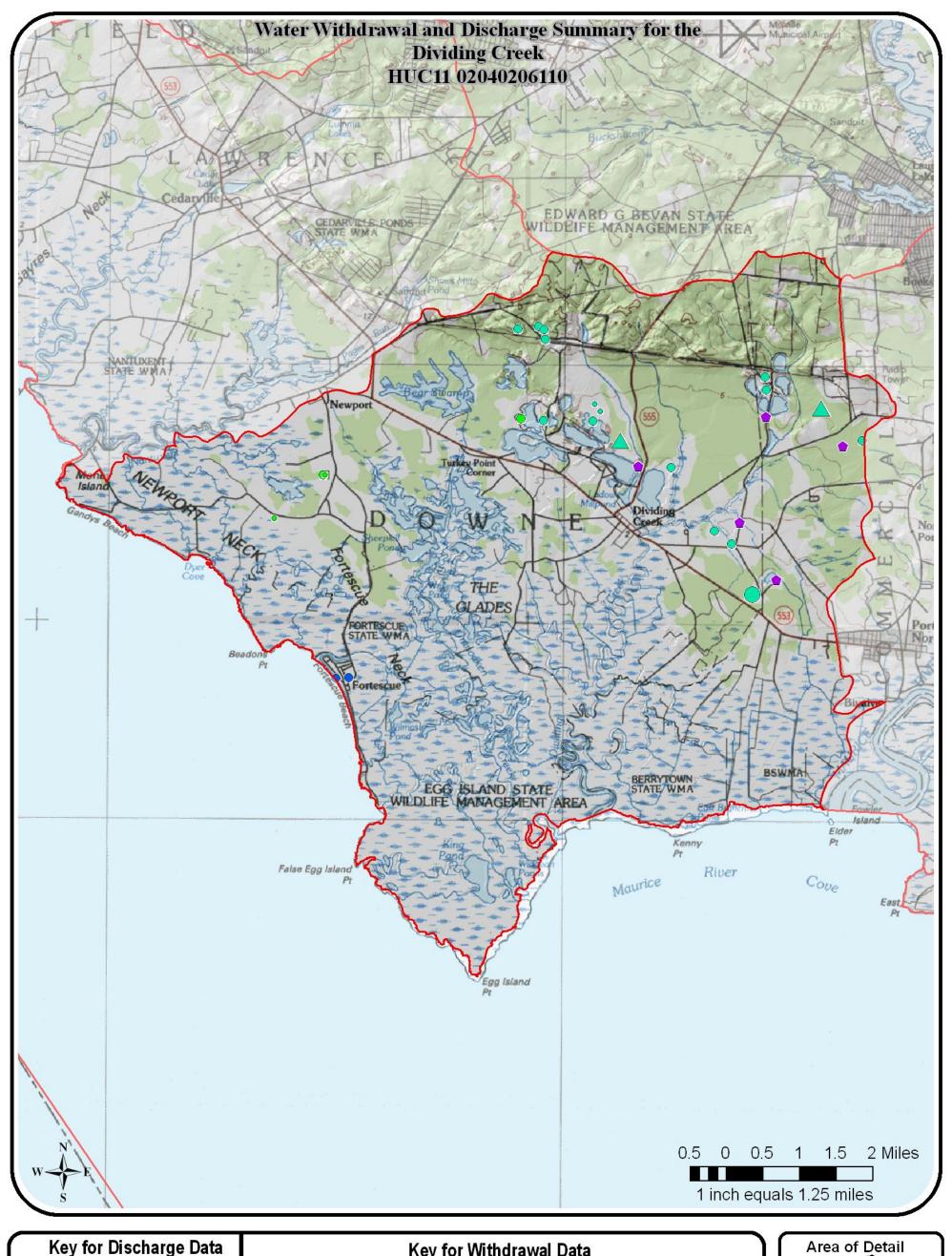
- 1 Salt and brackish water withdrawal and use is not included in this data.
- 2 This does not account for water released from onstream reservoirs for downstream intakes.
- 3 Includes both permitted ground-water withdrawals and estimated domestic well withdrawals. 4 Nonconsumptive water use refers to water used in the watershed but not evaporated.
- 5 Consumptive water use refers to water evaporated in the watershed. It does not include exports.
- 6 Use refers only to water actually used in that HUC11. It is equal to freshwater withdrawals + imports exports.
- 7 Winter is Jan, Feb, Dec of the same year; spring is March-May; summer is June-Aug; fall is Sept-Nov.
- 8 Sewage generation and transfers are based on intersection of sewer service areas with HUC11s. 9 Based on discharge volumes reported under NJPDES program.
- 10 The allocated volume is calculated from allocation permits on file with the Bureau of Water Allocation, NJDEP, as of 1999.

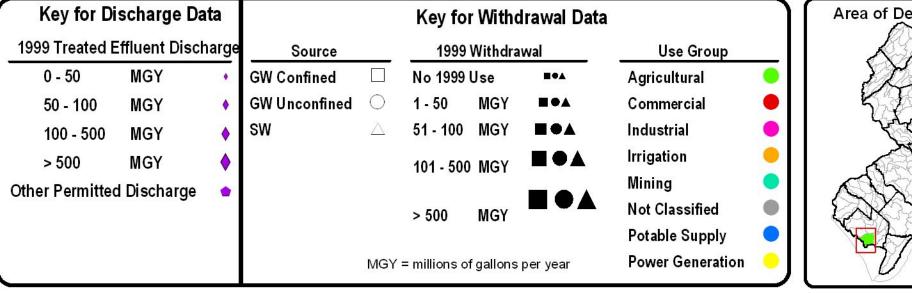
 11 Import and export volumes based on reported transfers between purveyors and on intersection of purveyor service areas with HUC11s.
- 12 Projected population estimates based on NJ Metropolitan Planning Organization estimates.
- 13 Subject to revision.
- $14\,$ Withdrawals for offstream reservoirs are problematic and complicate Figures 1 and 2.

2006 New Jersey Water Supply Plan



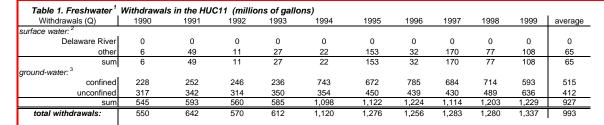
2,500

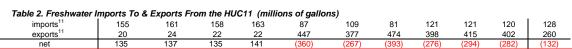




Water Withdrawals, Transfers and Discharges for STILL RUN / LITTLE EASE RUN --- 02040206120

WMA:	Maurice, Salem, and Cohansey	17	
HUC11:	Still Run / Little Ease Run	02	040206120





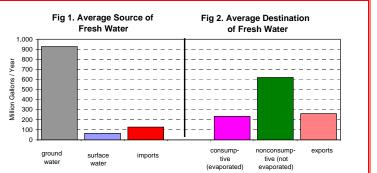


Table 3. Nonconsump	tive⁴ & Coı	nsumptive⁵	Water Use	e in the H	UC11, by Us	se Type (mi	llions of g	allons)			
Water use	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	average
potable purveyors											
nonconsumptive	323	351	336	342	367	379	368	387	393	376	362
consumptive	39	46	41	46	47	49	45	53	56	56	48
domestic wells											
nonconsumptive	220	221	223	225	227	229	231	233	235	238	228
consumptive	31	31	31	32	32	32	33	33	33	34	32
industrial & commercial & mir	ning										
nonconsumptive	24	16	21	16	13	12	16	0	6	4	13
consumptive	3	2	2	2	1	1	3	0	1	0	2
agricultural & non-agricultura	l irrigation										
nonconsumptive	4	11	5	9	7	30	16	30	25	32	17
consumptive	40	96	45	77	61	273	148	268	221	286	152
power generation											
nonconsumptive	0	0	0	0	0	0	0	0	0	0	0
consumptive	0	0	0	0	0	0	0	0	0	0	0
SUM:											
nonconsumptive	571	599	585	591	614	651	632	649	659	651	620
consumptive	112	175	120	157	141	356	228	354	310	377	233
PERCENTAGES:											
nonconsumptive	83.6%	77.4%	83.0%	79.1%	81.3%	64.6%	73.5%	64.7%	68.0%	63.3%	72.7%
consumptive	16.4%	22.6%	17.0%	20.9%	18.7%	35.4%	26.5%	35.3%	32.0%	36.7%	27.3%

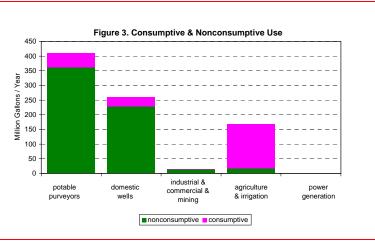


Table 4. Average Sea	sonal ⁷ Use	- Nonconsul	mptive⁴ &	Consump	tive ⁵ (millio	ons of gallor	1S)			
	Wi	nter	Sp	ring	Sun	nmer	F	all	Year	ly Avg.
Use Group	Noncon-	Consump-	Noncon-	Consump-	Noncon-	Consump-	Noncon-	Consump-	Noncon-	Consump-
	sumptive	tive	sumptive	tive	sumptive	tive	sumptive	tive	sumptive	tive
potable purveyors	89	0	92	6	96	33	93	8	369	48
domestic wells	52	0	54	4	66	23	56	5	228	32
industrial & commercial & mining	3	0	4	0	3	0	3	0	13	2
agricultural & non- agricultural irrig.	0	3	1	11	13	118	2	20	17	152
power generation	0	0	0	0	0	0	0	0	0	0
SUM:	144	3	151	21	178	175	154	34	627	233

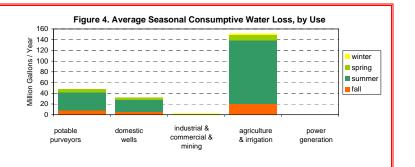
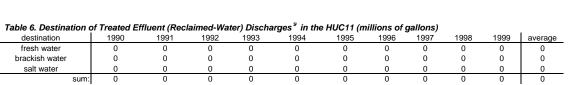


Table 5. Sewage Gen	eration & Tra	ansfers [®] in	the HUC11	(millions	of gallons)						
	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	average
generated in HUC11	720	787	932	637	1,007	926	1,064	1,120	1,030	1,023	925
imported to HUC11	0	0	0	0	0	0	0	0	0	0	0
exported from HUC11	720	787	932	637	1,007	926	1,064	1,120	1,030	1,023	925



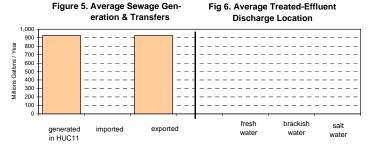


Table 7. 1999 Water Al		in	HUC11 by
	Source	_	
Water Source	MGY		
surface water	1,513		
ground water	4,576		
tota	al 6,089		
Table 8. 1999 Water Al		in	HUC11 by
Water L	Ise Group	in	MGY
	Ise Group	in	
Water U Use Group	Ise Group	in	MGY
Water U Use Group agricultural	Ise Group	in	MGY 4,905
Water L Use Group agricultural commercial	Ise Group	in	MGY 4,905 37
Water U Use Group agricultural commercial industrial	Ise Group	in	MGY 4,905 37 37
Water L Use Group agricultural commercial industrial irrigation	Jse Group	in	MGY 4,905 37 37 19
Water L Use Group agricultural commercial industrial irrigation mining	Jse Group	in	MGY 4,905 37 37 19 0

Area:								
in this Hl	JC11 only	46.1	sq. mi.					
upstream	n HUC11s	0.0	sq. mi.					
total wa	atershed	46.1	sq. mi.					
(this HUC11	onshore area:	46.1	sq. mi.)					
	on of this HUC							
Year	Population	Change	_					
1940	6,712	-						
1950	8,495	26.6%						
1960	13,203	55.4%						
1970	15,759	19.4%						
1980	19,090	21.1%						
1990	21,153	10.8%						
2000	23,921	13.1%						
2010	26,925	12.6%	est.12					
2020	30,414	13.0%	est.12					
2030	34,000	11.8%	est.12					
Land Use	of this HUC							
Type	Yea		- Change					
	1986	1995						
ag.	30.0%	27.2%	-2.7%					
barren	0.5%	1.0%	0.5%					
forest	28.4%	28.2%	-0.2%					
urban	17.6%	20.3%	2.7%					
water	0.9%	0.9%	0.0%					
wetlands	22.6%	22.4%	-0.3%					
0/ -6/6/-								
	HUC11 in:	0.00/						
	Pinelands: 0.0% Highlands: 0.0%							
пign	iaiius.	0.0%						

Table 9. HUC11 Descriptive Statistics

	eam and down	stream HUC11s (in NJ)
location	#	name
downstream: (if any)	02040206140	Maurice River (above Sherman Ave Bridge
upstream:		
(if any)		

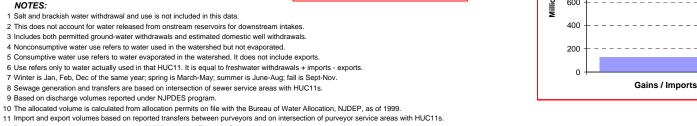
1,600

NOTES:

- 4 Nonconsumptive water use refers to water used in the watershed but not evaporated.
- 5 Consumptive water use refers to water evaporated in the watershed. It does not include exports.

- 12 Projected population estimates based on NJ Metropolitan Planning Organization estimates.
- 13 Subject to revision.
- $14\,$ Withdrawals for offstream reservoirs are problematic and complicate Figures 1 and 2.

2006 New Jersey Water Supply Plan



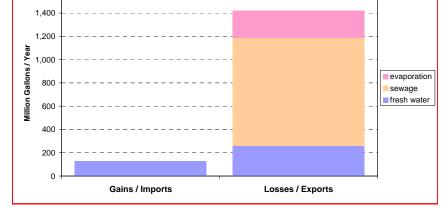
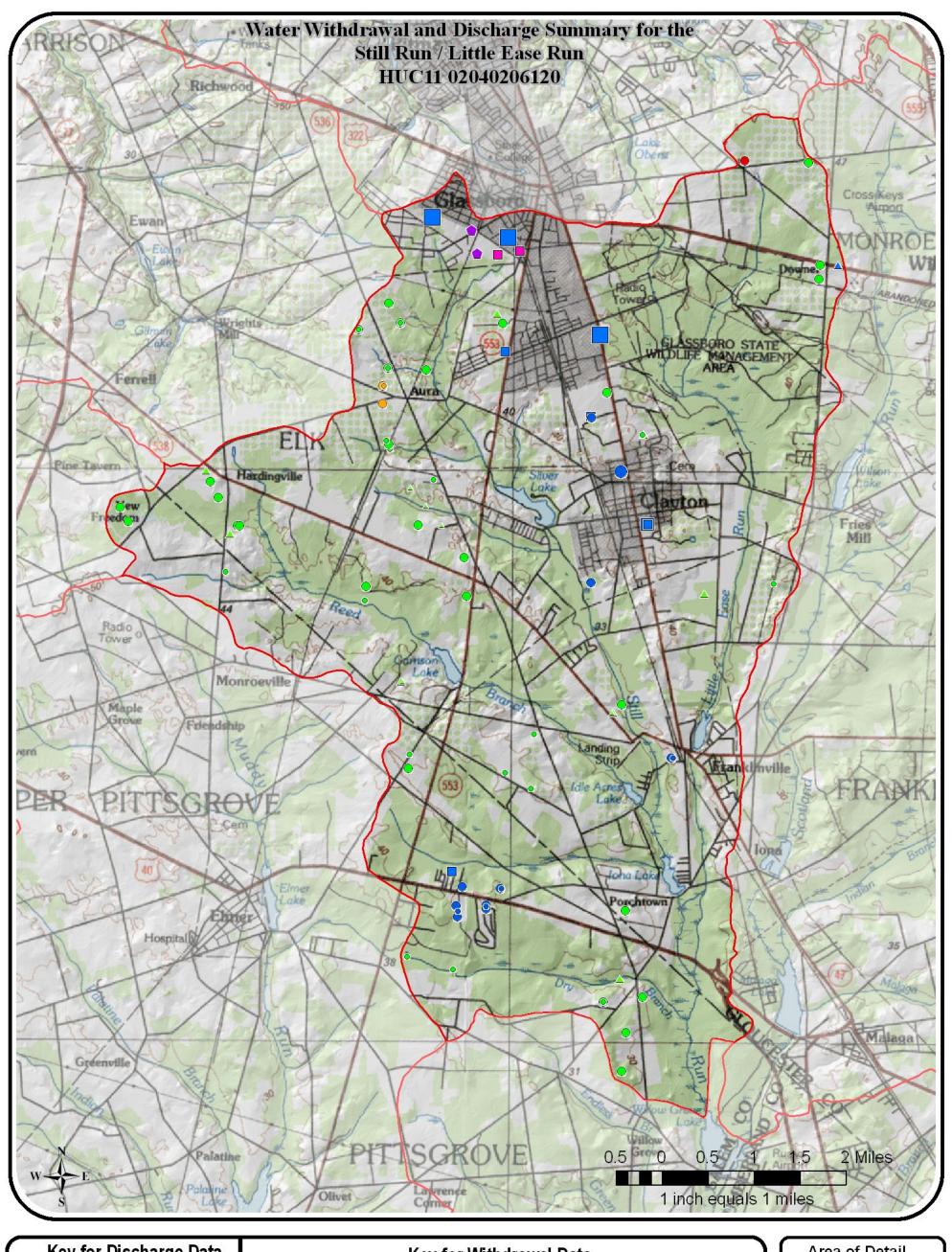
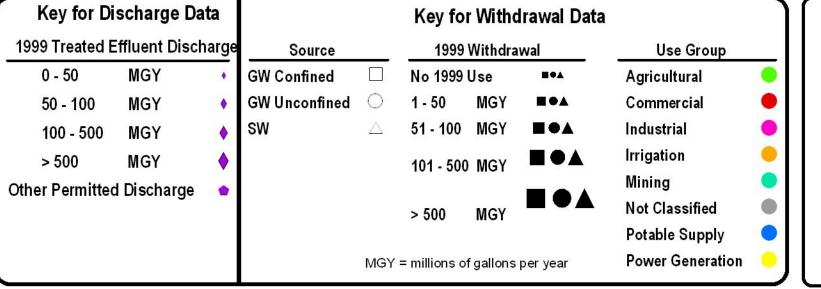
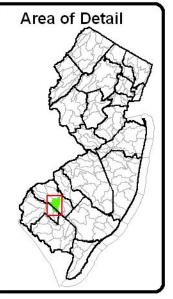


Figure 7. Net Transfers

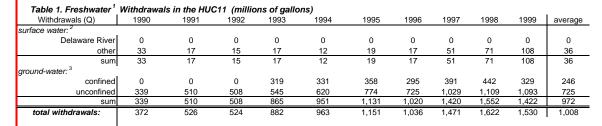


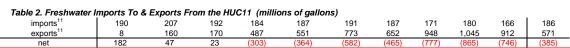




Water Withdrawals, Transfers and Discharges for SCOTLAND RUN --- 02040206130

WMA:	Maurice, Salem, and Cohansey	17	
HUC11:	Scotland Run	02	040206130





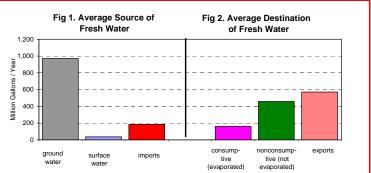
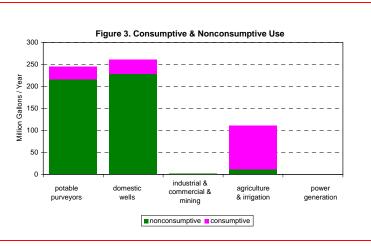


Table 3. Nonconsump	tive⁴ & Co	nsumptive⁵	Water Use	e in the H	UC11, by Us	e Type (mi	llions of g	allons)			
Water use	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	averag
potable purveyors											
nonconsumptive	205	221	208	205	205	203	200	230	246	237	216
consumptive	24	30	26	28	29	27	24	33	36	33	29
domestic wells											
nonconsumptive	219	220	223	225	227	230	232	234	236	239	228
consumptive	31	31	31	32	32	32	33	33	33	34	32
industrial & commercial & mi	ining										
nonconsumptive	0	0	0	0	7	0	0	0	10	4	2
consumptive	0	0	0	0	1	0	0	0	1	0	0
agricultural & non-agricultura	al irrigation										
nonconsumptive	7	6	6	8	9	7	8	16	19	24	11
consumptive	62	56	52	72	81	67	73	146	174	213	100
power generation											
nonconsumptive	0	0	0	0	0	0	0	0	0	0	0
consumptive	0	0	0	0	0	0	0	0	0	0	0
SUM:											
nonconsumptive	432	448	436	437	447	440	440	480	512	503	458
consumptive	118	117	109	132	142	127	130	213	244	280	161
PERCENTAGES:											
nonconsumptive	78.6%	79.3%	80.0%	76.9%	75.9%	77.6%	77.2%	69.3%	67.7%	64.3%	74.0%
consumptive	21.4%	20.7%	20.0%	23.1%	24.1%	22.4%	22.8%	30.7%	32.3%	35.7%	26.0%



Win	ter	_		Table 4. Average Seasonal ⁷ Use - Nonconsumptive ⁴ & Consumptive ⁵ (millions of gallons)										
		Sp	ring	Sum	nmer	F	all	Yearly Avg.						
Noncon-	Consump-	Noncon-	Consump-	Noncon-	Consump-	Noncon-	Consump-	Noncon-	Consump-					
sumptive	tive	sumptive	tive	sumptive	tive	sumptive	tive	sumptive	tive					
53	0	55	4	58	20	54	5	220	29					
52	0	54	4	66	23	56	5	228	32					
0	0	0	0	1	0	0	0	2	0					
0	3	2	15	7	62	2	19	11	100					
0	0	0	0	0	0	0	0	0	0					
106	4	111	23	133	105	113	29	462	161					
	53 52 0 0	sumptive tive 53 0 52 0 0 0 0 3 0 0	sumptive tive sumptive 53 0 55 52 0 54 0 0 0 0 3 2 0 0 0	sumptive tive sumptive tive 53 0 55 4 52 0 54 4 0 0 0 0 0 3 2 15 0 0 0 0	sumptive tive sumptive tive sumptive 53 0 55 4 58 52 0 54 4 66 0 0 0 1 0 3 2 15 7 0 0 0 0 0	sumptive tive sumptive tive sumptive tive 53 0 55 4 58 20 52 0 54 4 66 23 0 0 0 1 0 0 3 2 15 7 62 0 0 0 0 0 0	sumptive tive sumptive tive sumptive tive sumptive tive sumptive sumptive <td>sumptive tive sumptive tive sumptive tive sumptive tive sumptive tive 53 0 55 4 58 20 54 5 52 0 54 4 66 23 56 5 0 0 0 1 0 0 0 0 3 2 15 7 62 2 19 0 0 0 0 0 0 0 0</td> <td>sumptive tive sumptive tive sumptive tive sumptive tive sumptive tive sumptive tive sumptive sumptive</td>	sumptive tive sumptive tive sumptive tive sumptive tive sumptive tive 53 0 55 4 58 20 54 5 52 0 54 4 66 23 56 5 0 0 0 1 0 0 0 0 3 2 15 7 62 2 19 0 0 0 0 0 0 0 0	sumptive tive sumptive tive sumptive tive sumptive tive sumptive tive sumptive tive sumptive sumptive					

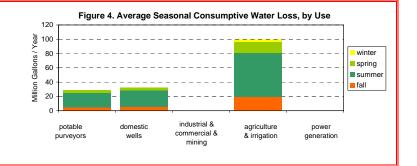


Fig 6. Average Treated-Effluent

Table 5. Sewage Gen	eration & Tra	ansfers ⁸ in	the HUC11	(millions	of gallons)						
	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	average
generated in HUC11	296	324	383	262	414	381	438	461	424	421	380
imported to HUC11	0	0	0	0	0	0	0	0	0	0	0
exported from HUC11	296	324	383	262	414	381	438	461	424	421	380



Table 6. Destination of	Table 6. Destination of Treated Effluent (Reclaimed-Water) Discharges in the HUC11 (millions of gallons)											
destination	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	average	
fresh water	0	0	0	0	0	0	0	0	0	0	0	
brackish water	0	0	0	0	0	0	0	0	0	0	0	
salt water	0	0	0	0	0	0	0	0	0	0	0	
cum:	Λ	۸	Λ	Λ	Λ	Λ	Λ	Λ	Λ	Λ	Λ	

Wa	ter Sou	ırce		
Water Source		MGY	_	
surface water		255		
ground water		2,056		
1	total	2,311	_	
			In HUC11 E	y
	r Use (y
Wate Use Gro	e r Use (oup		MGY	y
Wate	e r Use (oup iral			עי
Wate Use Gro agricultu	e r Use (oup oral cial		MGY 1,032) V
Wate Use Gro agricultu commerc	e r Use (oup oral cial al		MGY 1,032 74	, v
Wate Use Gro agricultu commerc industri	er Use (oup oral cial al		MGY 1,032 74 28	עי
Wate Use Gro agricultu commen industri irrigatio	er Use (pup iral cial al on		MGY 1,032 74 28 37	ני
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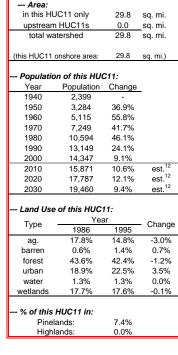
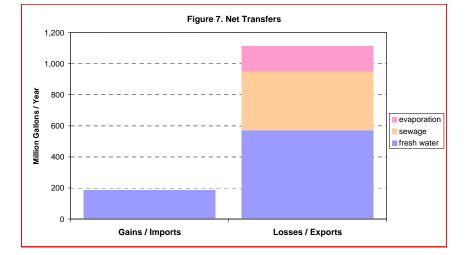


Table 9. HUC11 Descriptive Statistics

location	#	name
downstream: (if any)	02040206140	Maurice River (above Sherman Ave Bridge
upstream:		
(if any)		

Figure 5. Average Sewage Gen-

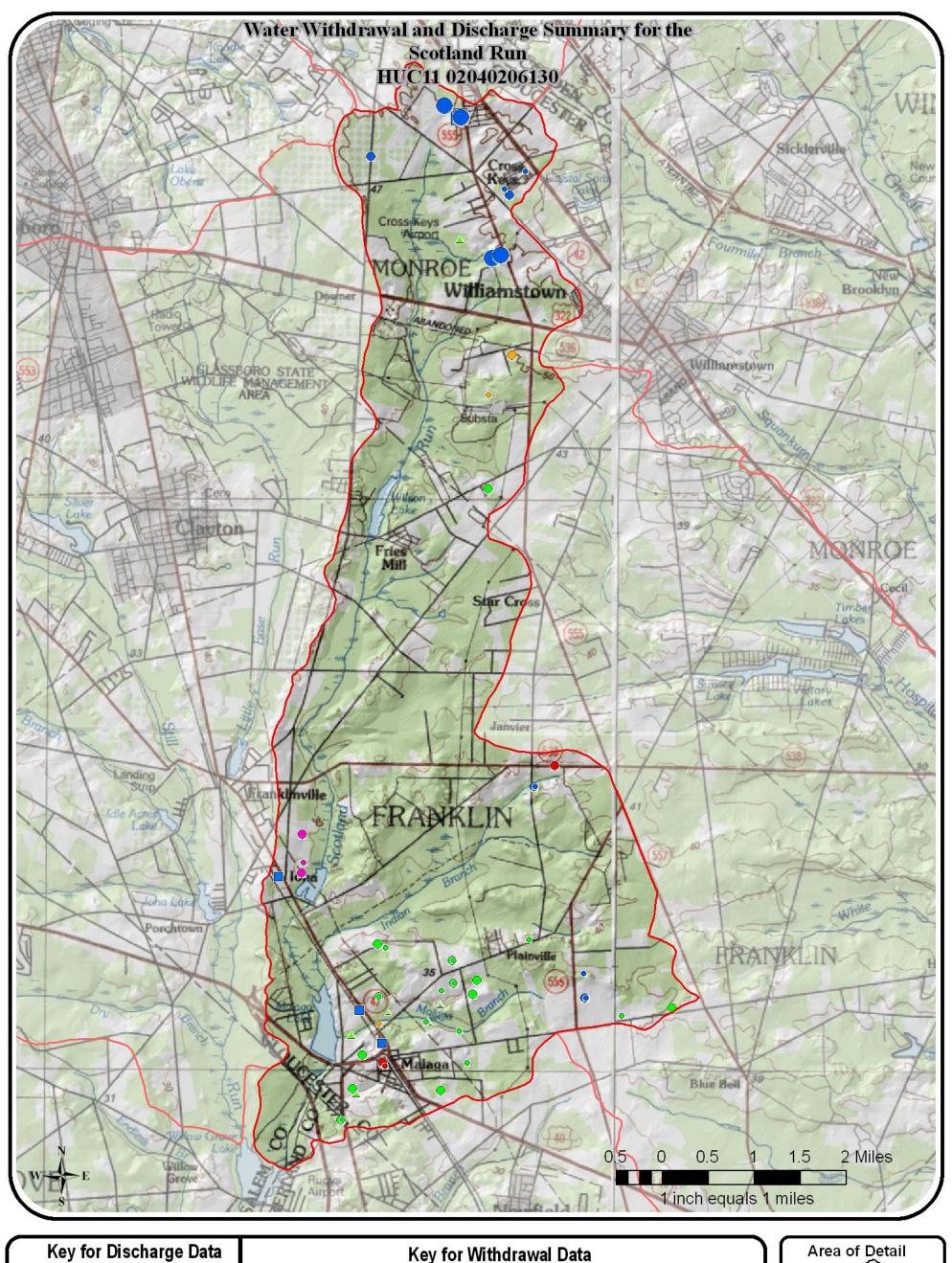
eration & Transfers

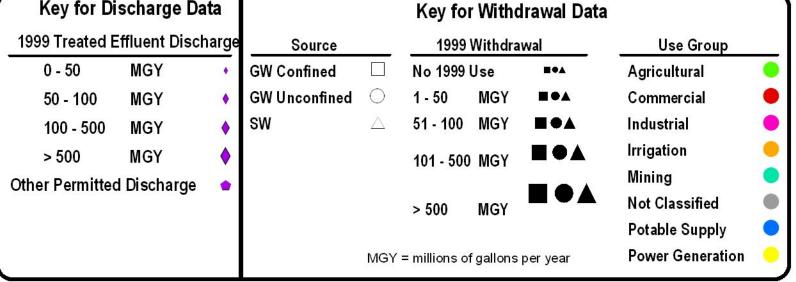


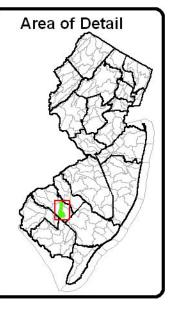
NOTES:

- 1 Salt and brackish water withdrawal and use is not included in this data
- 2 This does not account for water released from onstream reservoirs for downstream intakes
- 3 Includes both permitted ground-water withdrawals and estimated domestic well withdrawals. 4 Nonconsumptive water use refers to water used in the watershed but not evaporated.
- 5 Consumptive water use refers to water evaporated in the watershed. It does not include exports.
- 6 Use refers only to water actually used in that HUC11. It is equal to freshwater withdrawals + imports exports.
- 7 Winter is Jan, Feb, Dec of the same year; spring is March-May; summer is June-Aug; fall is Sept-Nov.
- 8 Sewage generation and transfers are based on intersection of sewer service areas with HUC11s. 9 Based on discharge volumes reported under NJPDES program.
- 10 The allocated volume is calculated from allocation permits on file with the Bureau of Water Allocation, NJDEP, as of 1999.

 11 Import and export volumes based on reported transfers between purveyors and on intersection of purveyor service areas with HUC11s.
- 12 Projected population estimates based on NJ Metropolitan Planning Organization estimates.
- 13 Subject to revision.
- 14 Withdrawals for offstream reservoirs are problematic and complicate Figures 1 and 2.

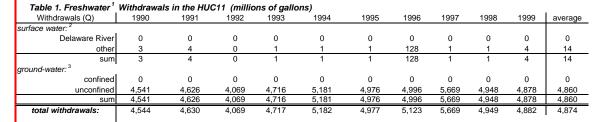


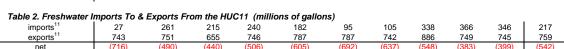




Water Withdrawals, Transfers and Discharges for MAURICE RIVER (ABOVE SHERMAN AVE BRIDGE) --- 02040206140

WMA:	Maurice, Salem, and Cohansey	17	
HUC11:	Maurice River (above Sherman Ave Bridge)	02	040206140





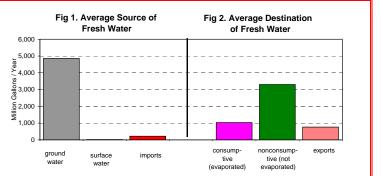


Table 3. Nonconsump	tive⁴ & Co	nsumptive⁵	Water Use	e ⁶ in the H	UC11, by Us	se Type (mi	llions of g	allons)			
Water use	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	average
potable purveyors											
nonconsumptive	2,108	2,339	2,042	2,294	2,357	2,287	2,146	2,759	2,412	2,369	2,311
consumptive	288	318	263	323	331	323	284	356	336	326	315
domestic wells											
nonconsumptive	222	223	225	228	231	234	236	238	241	243	232
consumptive	31	31	32	32	33	33	33	34	34	34	33
industrial & commercial & mir	ning										
nonconsumptive	743	656	583	755	751	688	684	716	680	672	693
consumptive	85	73	68	87	85	80	78	83	79	77	79
agricultural & non-agricultural	l irrigation										
nonconsumptive	35	50	42	49	79	64	103	94	78	76	67
consumptive	314	447	374	441	708	576	923	842	705	686	602
power generation											
nonconsumptive	0	0	0	0	0	0	0	0	0	0	0
consumptive	0	0	0	0	0	0	0	0	0	0	0
SUM:											
nonconsumptive	3,108	3,268	2,892	3,326	3,417	3,272	3,168	3,807	3,411	3,360	3,303
consumptive	718	870	736	884	1,157	1,012	1,318	1,314	1,154	1,123	1,029
PERCENTAGES:					•	•					
nonconsumptive	81.2%	79.0%	79.7%	79.0%	74.7%	76.4%	70.6%	74.3%	74.7%	74.9%	76.3%
consumptive	18.8%	21.0%	20.3%	21.0%	25.3%	23.6%	29.4%	25.7%	25.3%	25.1%	23.7%

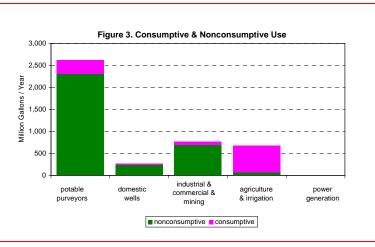


Table 4. Average Sea	Table 4. Average Seasonal 7 Use - Nonconsumptive 4 & Consumptive 5 (millions of gallons)										
	Wi	nter	Sp	ring	Sun	nmer	F	all	Yearly Avg.		
Use Group	Noncon-	Consump-	Noncon-	Consump-	Noncon-	Consump-	Noncon-	Consump-	Noncon-	Consump-	
	sumptive	tive	sumptive	tive	sumptive	tive	sumptive	tive	sumptive	tive	
potable purveyors	523	0	578	40	645	224	566	51	2,312	315	
domestic wells	53	0	55	4	68	24	57	5	232	33	
industrial & commercial & mining	156	18	166	19	190	22	181	21	693	79	
agricultural & non- agricultural irrig.	0	2	12	106	43	386	12	108	67	602	
power generation	0	0	0	0	0	0	0	0	0	0	
SUM:	732	20	809	168	946	656	816	185	3,304	1,029	

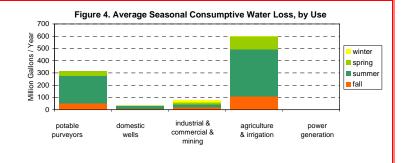
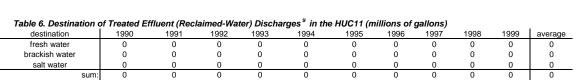


Table 5. Sewage Generation & Transfers ⁸ in the HUC11 (millions of gallons)											
	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	average
generated in HUC11	25	24	22	24	23	22	23	24	25	23	24
imported to HUC11	0	0	0	0	0	0	0	0	0	0	0
exported from HUC11	25	24	22	24	23	22	23	24	25	23	24



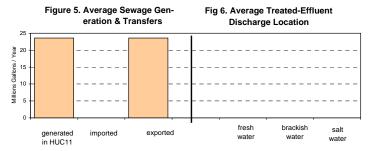


Table 7. 1999 Water All	ocations " in HUC11 by
Water	Source
Water Source	MGY
surface water	80
ground water	9,896
tota	9,976
Table 8, 1999 Water All	ocations ¹⁰ in HUC11 by
Water U	se Group
Use Group	MGY
agricultural	3,761
commercial	22
industrial	1,363
irrigation	0
mining	1,168
potable supply	3,662
power generation	on 0
	4e4e1 0.070

Area:			
in this HU	JC11 only	56.8	sq. mi.
upstream	HUC11s	133.8	sq. mi.
total wa	atershed	190.6	sq. mi.
(this HUC11	onshore area:	56.8	sq. mi.)
Populatio	on of this HUC	211:	
Year	Population	Change	
1940	12,538	-	_
1950	15,983	27.5%	
1960	20,516	28.4%	
1970	25,342	23.5%	
1980	29,435	16.1%	
1990	30,784	4.6%	
2000	31,673	2.9%	
2010	34,006	7.4%	est.12
2020	37,452	10.1%	est.12
2030	40,185	7.3%	est.12
Land Use	of this HUC1		
Type	Yea		- Change
	1986	1995	
ag.	21.4%	21.2%	-0.2%
	1.0%	1.2%	0.2%
barren			4 =c:
forest	32.6%	31.1%	-1.5%
forest urban	32.6% 28.8%	31.1% 30.4%	1.6%
forest urban water	32.6% 28.8% 0.9%	31.1% 30.4% 0.8%	1.6% -0.1%
forest urban	32.6% 28.8%	31.1% 30.4%	1.6%
forest urban water wetlands	32.6% 28.8% 0.9%	31.1% 30.4% 0.8%	1.6% -0.1%
forest urban water wetlands	32.6% 28.8% 0.9% 15.3%	31.1% 30.4% 0.8%	1.6% -0.1%

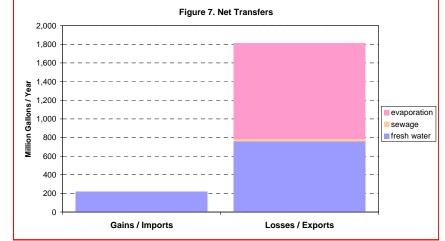
able 10. Upstre	eam and downs	stream HUC11s (in NJ)
location	#	name
downstream:	02040206160	Maurice River (Union Lk to Sherman Ave)
(if any)		
upstream:	02040206120	Still Run / Little Ease Run
(if any)	02040206130	Scotland Run
	02040206150	Muddy Run
		

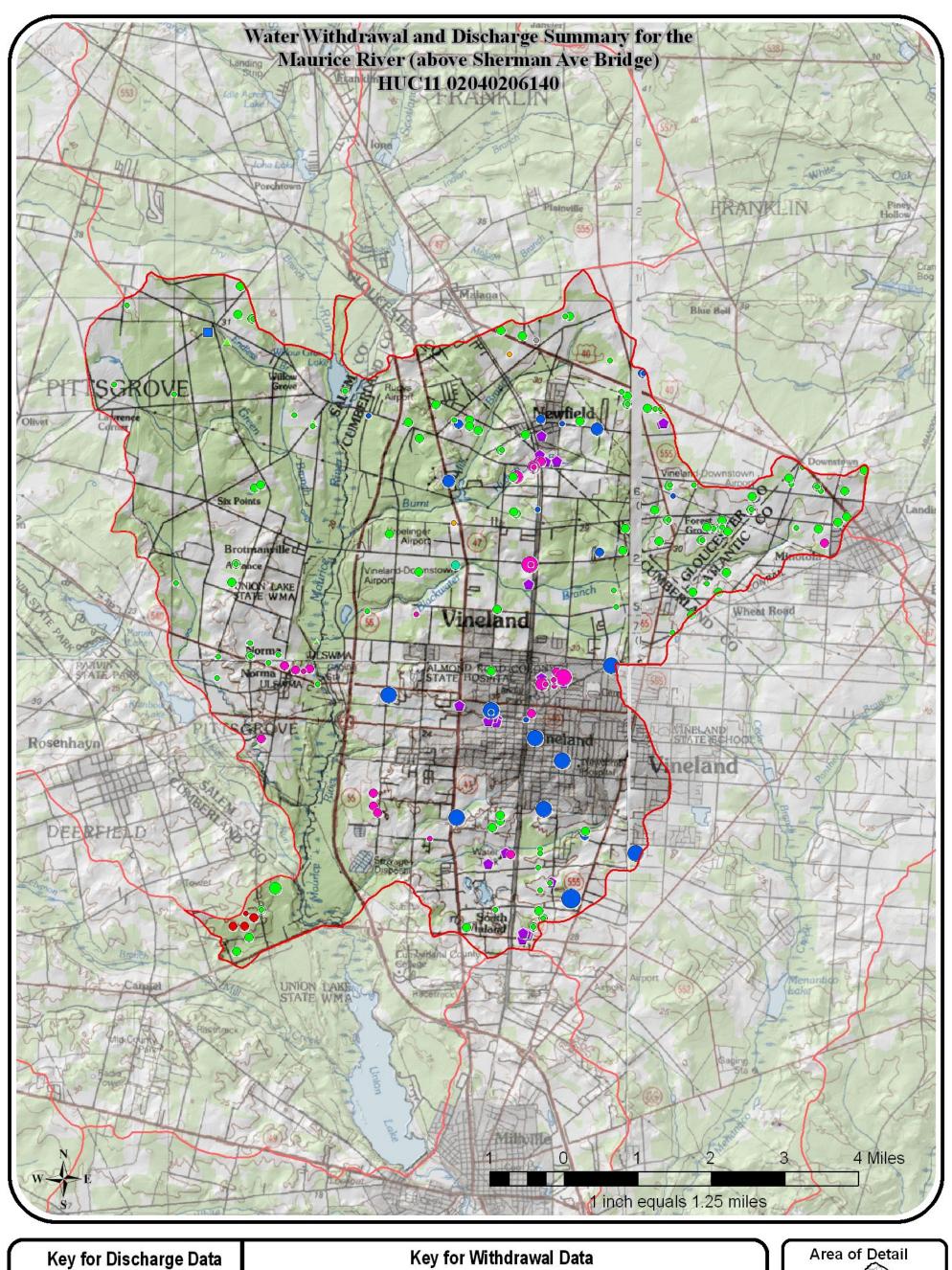
NOTES:

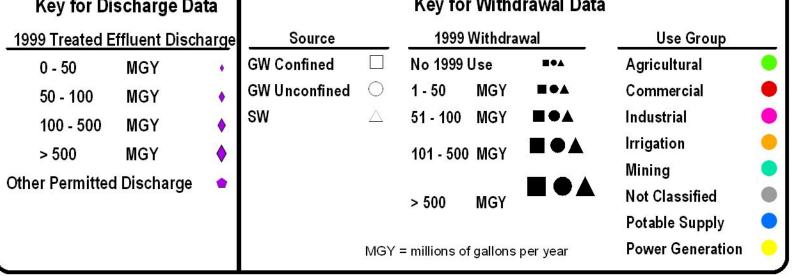
- 1 Salt and brackish water withdrawal and use is not included in this data
- 2 This does not account for water released from onstream reservoirs for downstream intakes.
- 3 Includes both permitted ground-water withdrawals and estimated domestic well withdrawals.
- 4 Nonconsumptive water use refers to water used in the watershed but not evaporated. 5 Consumptive water use refers to water evaporated in the watershed. It does not include exports.
- 6 Use refers only to water actually used in that HUC11. It is equal to freshwater withdrawals + imports exports.
- 7 Winter is Jan, Feb, Dec of the same year; spring is March-May; summer is June-Aug; fall is Sept-Nov.
- 8 Sewage generation and transfers are based on intersection of sewer service areas with HUC11s. 9 Based on discharge volumes reported under NJPDES program.
- 10 The allocated volume is calculated from allocation permits on file with the Bureau of Water Allocation, NJDEP, as of 1999.

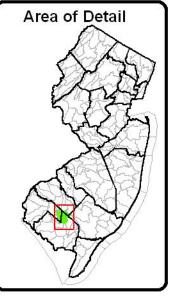
 11 Import and export volumes based on reported transfers between purveyors and on intersection of purveyor service areas with HUC11s.
- 12 Projected population estimates based on NJ Metropolitan Planning Organization estimates.
- 13 Subject to revision.
- $14\,$ Withdrawals for offstream reservoirs are problematic and complicate Figures 1 and 2.

Table 9. HUC11 Des	orintivo S	tatictics	Table 10. Upstream and downstream HUC11s (in NJ)					
Table 3. HUCTT Des	criptive 3	เลแรแตร	location	#	name			
Area:			downstream	: 02040206160	Maurice River (Union Lk to Sherman Ave			
in this HUC11 only	56.8	sq. mi.	(if any)					
upstream HUC11s	133.8	sq. mi.	upstream	: 02040206120	Still Run / Little Ease Run			
total watershed	190.6	sq. mi.	(if any)	02040206130	Scotland Run			
				02040206150	Muddy Run			
(this HUC11 onshore area:	56.8	sq. mi.)						
Population of this HU	IC11:							
Year Population	Change	<u>. </u>						
1940 12,538	-							
1950 15,983	27.5%							
1960 20,516	28.4%							
1970 25,342	23.5%							
1980 29,435	16.1%							
1990 30,784	4.6%							
2000 31,673	2.9%							
2010 34,006	7.4%	est.12						
2020 37,452	10.1%	est.12						
2020 01,.02	7.3%	est.12						









Water Withdrawals, Transfers and Discharges for MUDDY RUN --- 02040206150

27.1%

26.9%

73.1%

27.0%

28.7%

71.3%

WMA:	Maurice, Salem, and Cohansey	17	
HUC11:	Muddy Run	02	040206150

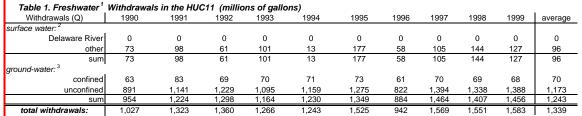


Table 2. Freshwater Imports To & Exports From the HUC11 (millions of gallons)

imports1

consumptiv

consumptive

nonconsumptive

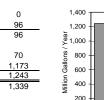
32.2%

67.8%

28.6%

71.4%

PERCENTAGES



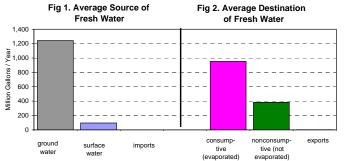


Table 3. Nonconsump	tive⁴ & Coı	nsumptive⁵	Water Use	in the H	UC11, by U	se Type (mi	llions of g	gallons)			
Water use	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	average
potable purveyors											
nonconsumptive	55	71	65	67	68	70	63	68	68	67	66
consumptive	7	10	9	10	10	11	8	11	10	11	10
domestic wells											
nonconsumptive	197	199	201	204	207	210	212	215	217	220	208
consumptive	28	28	28	29	29	30	30	30	31	31	29
industrial & commercial & mir	ning										
nonconsumptive	5	8	5	2	6	0	4	17	15	17	8
consumptive	3	6	3	0	0	0	0	2	2	4	2
agricultural & non-agricultura	l irrigation										
nonconsumptive	73	100	105	95	92	120	62	123	121	123	101
consumptive	659	900	943	859	824	1,077	560	1,106	1,089	1,111	913
power generation											
nonconsumptive	0	0	0	0	0	0	0	0	0	0	0
consumptive	0	0	0	0	0	0	0	0	0	0	0
SUM:	•			•		•					
nonconsumptive	330	378	376	368	372	399	341	422	421	427	384

30.1%

69.9%

26.3%

36.3%

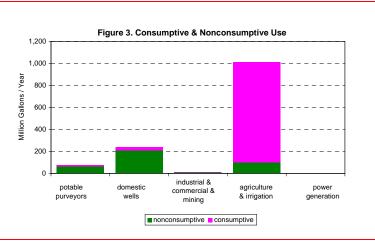


Table 4. Average Sea	sonal ⁷ Use	- Nonconsul	mptive4 8	Consump	tive ⁵ (millio	ons of gallor	1s)				
	Wi	nter	Sp	ring	Sun	nmer	F	all	Yearl	Yearly Avg.	
Use Group	Noncon-	Consump-	Noncon-	Consump-	Noncon-	Consump-	Noncon-	Consump-	Noncon-	Consump-	
	sumptive	tive	sumptive	tive	sumptive	tive	sumptive	tive	sumptive	tive	
potable purveyors	15	0	16	1	20	7	16	1	67	10	
domestic wells	48	0	49	4	61	21	51	5	208	29	
industrial & commercial & mining	2	1	2	1	2	0	2	0	8	2	
agricultural & non- agricultural irrig.	2	20	14	122	67	602	19	169	101	913	
power generation	0	0	0	0	0	0	0	0	0	0	
SUM:	67	21	81	127	150	630	87	175	384	954	

29.1%

70.9%

27.7%

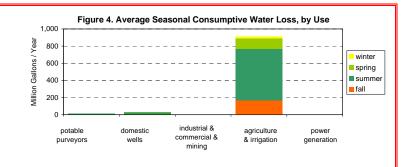


Table 5. Sewage Gen	eration & Tr	ansfers ⁸ in	the HUC11	(millions	of gallons)						
	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	average
generated in HUC11	7	8	7	8	8	8	8	8	8	9	8
imported to HUC11	0	0	0	0	0	0	0	0	0	0	0
exported from HUC11	7	8	7	8	8	8	8	8	8	9	8

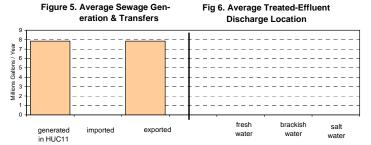


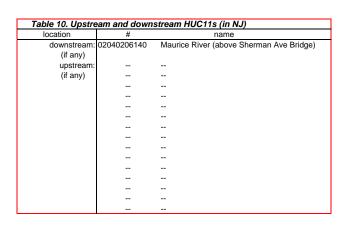
Table 6. Destination of	of Treated E	ffluent (Rec	laimed-Wa	ter) Discha	nrges ⁹ in the	e HUC11 (m	illions of	gallons)			
destination	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	average
fresh water	0	0	0	0	0	0	0	0	0	0	0
brackish water	0	0	0	0	0	0	0	0	0	0	0
salt water	0	0	0	0	0	0	0	0	0	0	0
cum:	Λ	Λ	Λ	Λ	Λ	Λ	Λ	Λ	Λ	Λ	Λ

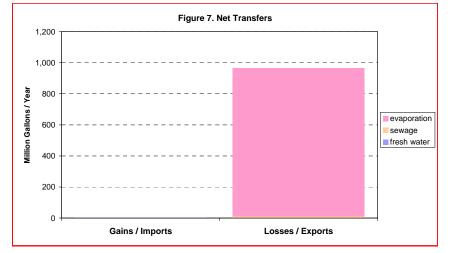
Water	Source	
Water Source	MGY	
surface water	1,488	 "
ground water	7,969	
tota	ıl 9,457	
	4.0	
Table 8. 1999 Water All	locations 10	in HUC11 by
Water U	se Group	
Use Group		MGY
agricultural		9,065
commercial		89
industrial		37
irrigation		112
mining		0
potable suppl	у	154
power generati	on	0
·	tot	al 9.457

Table 7. 1999 Water Allocations 10 in HUC11 by

Area:			
	UC11 only	57.9	sq. mi.
	,		•
	n HUC11s	0.0	_sq. mi.
total wa	atershed	57.9	sq. mi.
(this LITIC11	onshore area:	57.9	sq. mi.)
(tills HOCTT	Ulisilule alea.	31.3	5q. IIII.)
Populatio	on of this HU(C11:	
Year	Population	Change	
1940	4,460	-	_
1950	5,742	28.7%	
1960	6,834	19.0%	
1970	7,745	13.3%	
1980	9,137	18.0%	
1990	9,972	9.1%	
2000	10,458	4.9%	
2010	11,003	5.2%	est.12
2020	12,119	10.1%	est.12
2030	12,561	3.6%	est.12
1 111-	e of this HUC		
Lana Use			
Type	Yea	1995	 Change
	48.7%	47.3%	-1.4%
ag. barren	48.7% 0.1%	0.4%	0.3%
forest	22.3%	21.6%	-0.7%
urban	9.4%	11.2%	1.9%
water	1.1%	1.1%	0.0%
	1.170	,	
	18 5%	18 /10/	-N 10/-
wetlands	18.5%	18.4%	-0.1%
wetlands	18.5% HUC11 in:	18.4%	-0.1%
wetlands		0.0%	-0.1%

Table 9. HUC11 Descriptive Statistics

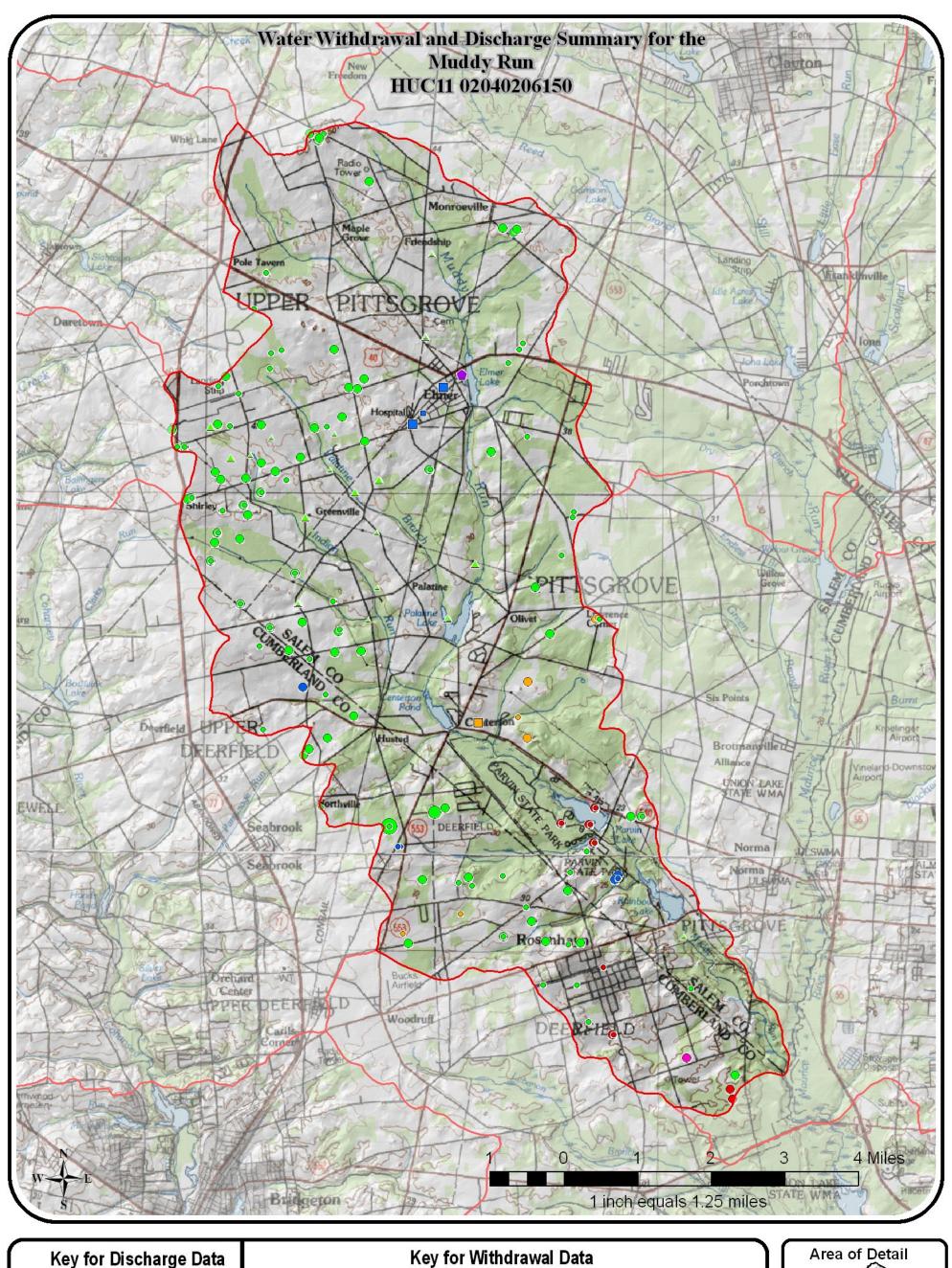


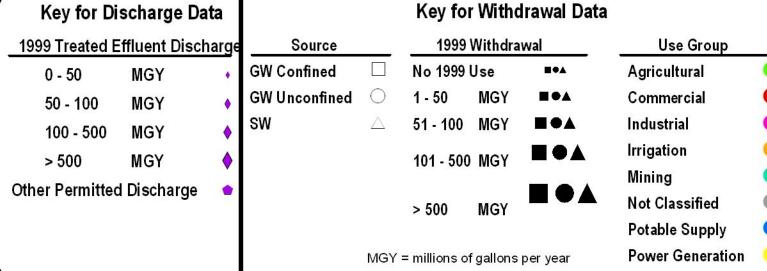


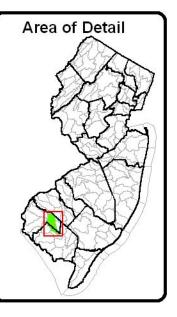
NOTES:

- 1 Salt and brackish water withdrawal and use is not included in this data.
- 2 This does not account for water released from onstream reservoirs for downstream intakes.
- 3 Includes both permitted ground-water withdrawals and estimated domestic well withdrawals. 4 Nonconsumptive water use refers to water used in the watershed but not evaporated.
- 5 Consumptive water use refers to water evaporated in the watershed. It does not include exports.
- 6 Use refers only to water actually used in that HUC11. It is equal to freshwater withdrawals + imports exports.
- 7 Winter is Jan, Feb, Dec of the same year; spring is March-May; summer is June-Aug; fall is Sept-Nov.
- 8 Sewage generation and transfers are based on intersection of sewer service areas with HUC11s. 9 Based on discharge volumes reported under NJPDES program.
- 10 The allocated volume is calculated from allocation permits on file with the Bureau of Water Allocation, NJDEP, as of 1999.

 11 Import and export volumes based on reported transfers between purveyors and on intersection of purveyor service areas with HUC11s.
- 12 Projected population estimates based on NJ Metropolitan Planning Organization estimates.
- 13 Subject to revision.
- $14\,$ Withdrawals for offstream reservoirs are problematic and complicate Figures 1 and 2.

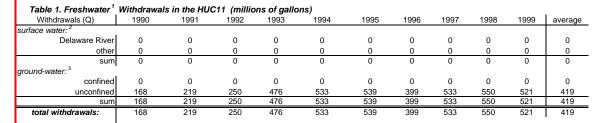


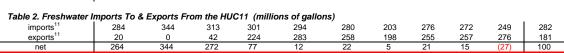




Water Withdrawals, Transfers and Discharges for MAURICE RIVER (UNION LK TO SHERMAN AVE) --- 02040206160

WMA:	Maurice, Salem, and Cohansey	17	
HUC11:	Maurice River (Union Lk to Sherman Ave)	02	040206160





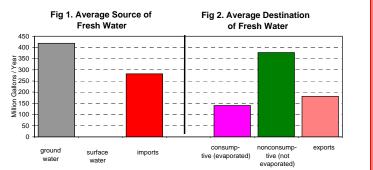


Table 3. Nonconsump Water use	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	avorag
	1990	1991	1992	1993	1394	1990	1990	1997	1990	1999	averag
potable purveyors											
nonconsumptive	251	302	281	302	306	288	210	286	281	264	277
consumptive	37	43	40	41	41	40	30	38	39	37	39
domestic wells											
nonconsumptive	86	87	88	89	90	91	91	92	93	94	90
consumptive	12	12	12	12	13	13	13	13	13	13	13
industrial & commercial & mi	ning										
nonconsumptive	0	0	0	0	0	0	0	0	0	0	0
consumptive	0	0	0	0	0	0	0	0	0	0	0
agricultural & non-agricultura	l irrigation										
nonconsumptive	4	11	10	11	9	13	6	12	14	8	10
consumptive	38	102	90	95	84	116	53	112	124	76	89
power generation											
nonconsumptive	0	0	0	0	0	0	0	0	0	0	0
consumptive	0	0	0	0	0	0	0	0	0	0	0
SUM:											
nonconsumptive	341	400	379	402	405	392	308	391	388	366	377
consumptive	86	157	143	149	138	168	96	163	176	126	140
PERCENTAGES:											
nonconsumptive	79.8%	71.9%	72.7%	73.0%	74.6%	69.9%	76.2%	70.6%	68.8%	74.3%	72.9%
consumptive	20.2%	28.1%	27.3%	27.0%	25.4%	30.1%	23.8%	29.4%	31.2%	25.7%	27.1%

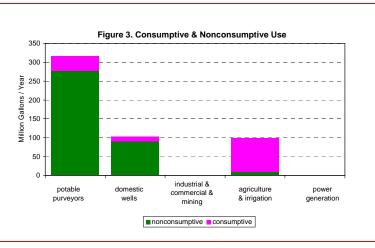


Table 4. Average Sea	sonal ⁷ Use	- Nonconsul	mptive⁴ 8	Consump	tive⁵ (millio	ons of gallor	1s)			
	Wi	nter	Sp	ring	Sun	nmer	F	all	Year	y Avg.
Use Group	Noncon-	Consump-	Noncon-	Consump-	Noncon-	Consump-	Noncon-	Consump-	Noncon-	Consump-
	sumptive	tive	sumptive	tive	sumptive	tive	sumptive	tive	sumptive	tive
potable purveyors	63	0	68	5	79	27	69	6	279	39
domestic wells	21	0	21	2	26	9	22	2	90	13
industrial & commercial & mining	0	0	0	0	0	0	0	0	0	0
agricultural & non- agricultural irrig.	0	0	1	12	6	53	3	24	10	89
power generation	0	0	0	0	0	0	0	0	0	0
SUM:	84	0	90	19	111	90	93	32	379	140

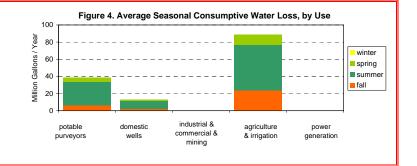
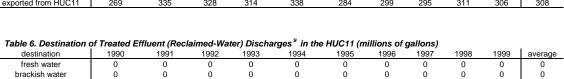


Table 5. Sewage Gen	eration & Tra	ansfers ⁸ in	the HUC11	(millions	of gallons)						
	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	average
generated in HUC11	269	335	328	314	338	284	299	295	311	306	308
imported to HUC11	0	0	0	0	0	0	0	0	0	0	0
exported from HUC11	269	335	328	314	338	284	299	295	311	306	308



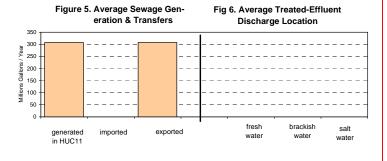


Table 7. 1999 Water A	Illocations	¹⁰ in	HUC11 by
Wate	er Source		
Water Source	MGY		
surface water	0		
ground water	907		
to	tal 907		
			HUC11 by
Water	Use Group		
	Use Group		MGY 365
Water Use Grou	Use Group p		MGY
Water Use Grou agricultura	Use Group p al al		MGY 365
Water Use Grou agricultura commercia	Use Group p al al		MGY 365 0
Water Use Grou agricultura commercia industrial	Use Group p al al		MGY 365 0 37
Water Use Grou agricultura commercia industrial irrigation	Use Group p al al		MGY 365 0 37 56
Use Grou agricultura commerci industrial irrigation mining	Use Group p al al		MGY 365 0 37 56 0

sum:

salt water

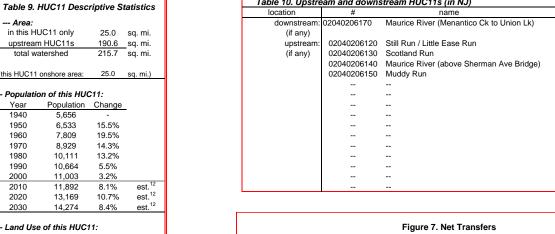
•	n of this HU		
Year	Population	Change	-
1940	5,656	-	
1950	6,533	15.5%	
1960	7,809	19.5%	
1970	8,929	14.3%	
1980	10,111	13.2%	
1990	10,664	5.5%	
2000	11,003	3.2%	
2010	11,892	8.1%	est.12
2020	13,169	10.7%	est.12
		0 407	. 12
2030	of this HUC	8.4% 11:	est. ¹²
Land Use	of this HUC	11:	
	of this HUC	11:	
Land Use	of this HUC	11: ar	
Land Use Type	of this HUC Yes	11: ar 1995	- Change
Type	of this HUC Yea 1986 28.6%	11: ar 1995 27.0%	- Change
Type ag. barren	of this HUC Yes 1986 28.6% 0.7%	11: ar 1995 27.0% 0.5%	- Change -1.5% -0.2%
Type ag. barren forest	of this HUC Yes 1986 28.6% 0.7% 42.8%	11: ar 1995 27.0% 0.5% 42.5%	- Change -1.5% -0.2% -0.3%
Type ag. barren forest urban	of this HUC Yes 1986 28.6% 0.7% 42.8% 10.1%	11: 1995 27.0% 0.5% 42.5% 12.2%	-1.5% -0.2% -0.3% 2.1%
Type ag. barren forest urban water	of this HUC 1986 28.6% 0.7% 42.8% 10.1% 5.3%	11: ar 1995 27.0% 0.5% 42.5% 12.2% 5.4%	- Change -1.5% -0.2% -0.3% 2.1% 0.1%
Type ag. barren forest urban water wetlands	of this HUC 1986 28.6% 0.7% 42.8% 10.1% 5.3%	11: ar 1995 27.0% 0.5% 42.5% 12.2% 5.4%	-1.5% -0.2% -0.3% 2.1% 0.1%
Type ag. barren forest urban water wetlands	of this HUC Yes 1986 28.6% 0.7% 42.8% 10.1% 5.3% 12.5%	11: ar 1995 27.0% 0.5% 42.5% 12.2% 5.4%	- Change -1.5% -0.2% -0.3% 2.1% 0.1%

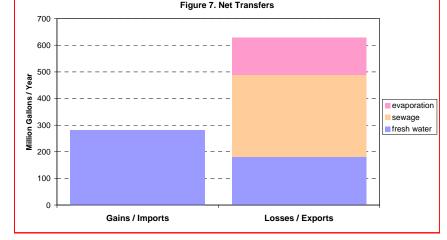
ible 10. Upstre	eam and downs	stream HUC11s (in NJ)
location	#	name
downstream:	02040206170	Maurice River (Menantico Ck to Union Lk)
(if any)		
upstream:	02040206120	Still Run / Little Ease Run
(if any)	02040206130	Scotland Run
	02040206140	Maurice River (above Sherman Ave Bridge
	02040206150	Muddy Run

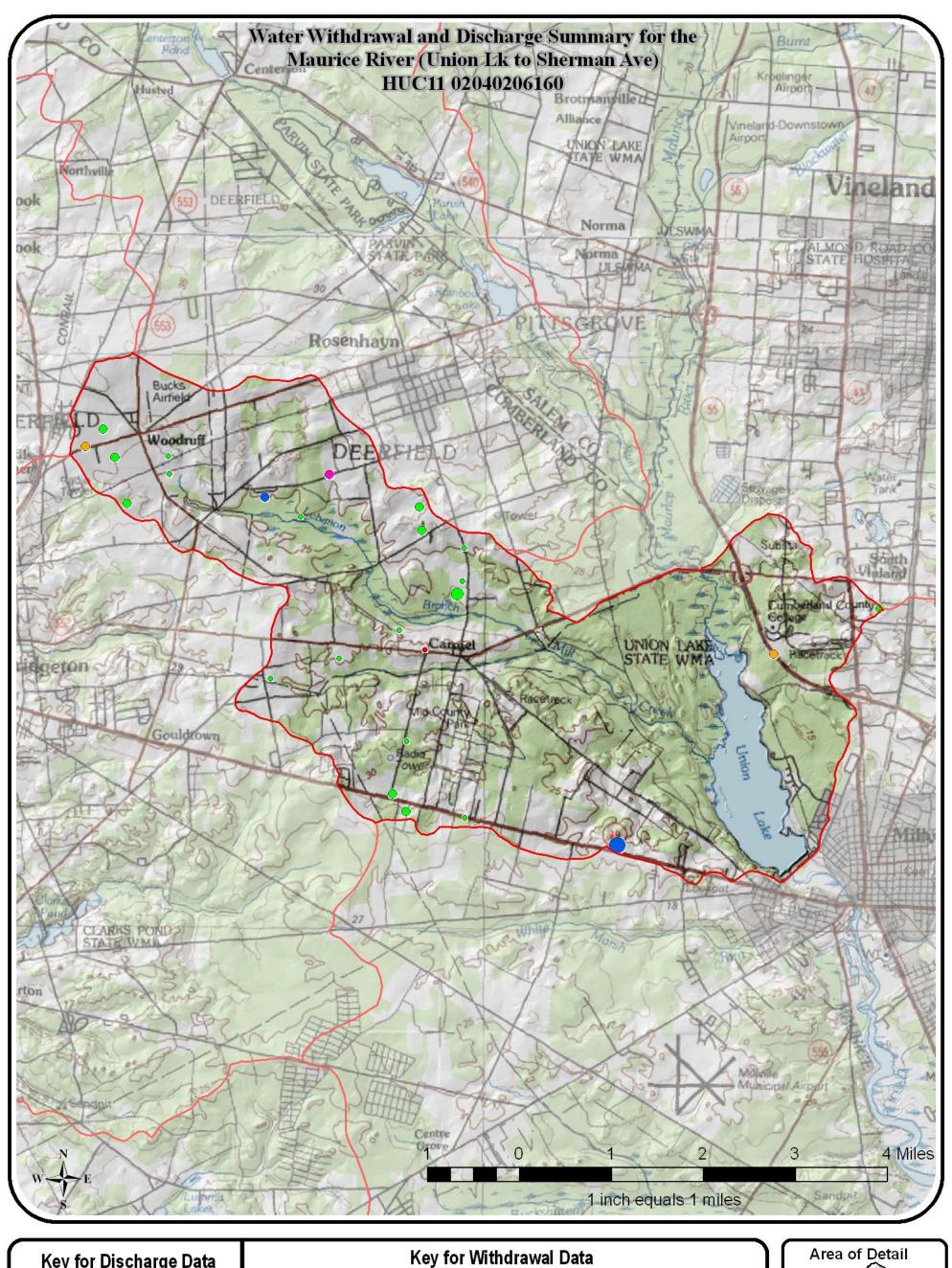
NOTES:

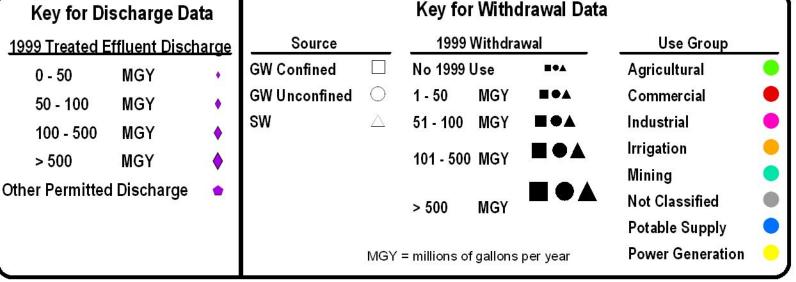
- 1 Salt and brackish water withdrawal and use is not included in this data
- 2 This does not account for water released from onstream reservoirs for downstream intakes.
- 3 Includes both permitted ground-water withdrawals and estimated domestic well withdrawals. 4 Nonconsumptive water use refers to water used in the watershed but not evaporated.
- 5 Consumptive water use refers to water evaporated in the watershed. It does not include exports.
- 6 Use refers only to water actually used in that HUC11. It is equal to freshwater withdrawals + imports exports. 7 Winter is Jan, Feb, Dec of the same year; spring is March-May; summer is June-Aug; fall is Sept-Nov.
- 8 Sewage generation and transfers are based on intersection of sewer service areas with HUC11s. 9 Based on discharge volumes reported under NJPDES program.
- 10 The allocated volume is calculated from allocation permits on file with the Bureau of Water Allocation, NJDEP, as of 1999.

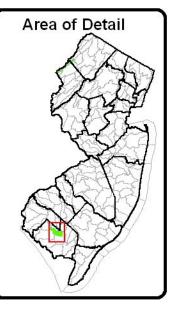
 11 Import and export volumes based on reported transfers between purveyors and on intersection of purveyor service areas with HUC11s.
- 12 Projected population estimates based on NJ Metropolitan Planning Organization estimates. 13 Subject to revision.
- $14\,$ Withdrawals for offstream reservoirs are problematic and complicate Figures 1 and 2.





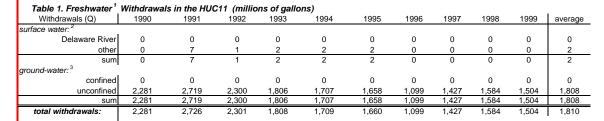


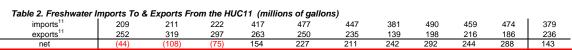




Water Withdrawals, Transfers and Discharges for MAURICE RIVER (MENANTICO CK TO UNION LK) --- 02040206170

WMA:	Maurice, Salem, and Cohansey	17	
HUC11:	Maurice River (Menantico Ck to Union Lk)	02	040206170





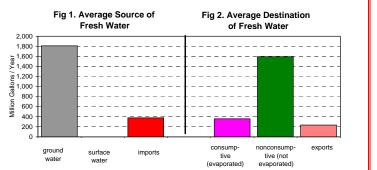


Table 3. Nonconsump	tive⁴ & Col	nsumptive⁵	Water Use	e ⁶ in the H	UC11, by Us	se Type (mi	llions of g	allons)			
Water use	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	average
potable purveyors											
nonconsumptive	994	1,220	1,153	1,227	1,238	1,160	781	1,080	1,104	1,023	1,098
consumptive	147	171	166	163	165	158	115	143	155	143	153
domestic wells											
nonconsumptive	104	105	106	107	109	110	111	112	113	115	109
consumptive	15	15	15	15	15	16	16	16	16	16	15
industrial & commercial & mir	ning										
nonconsumptive	792	798	612	272	208	234	158	182	206	242	370
consumptive	88	89	68	30	23	26	18	20	23	27	41
agricultural & non-agricultural	irrigation										
nonconsumptive	10	22	11	15	18	17	14	17	21	23	17
consumptive	89	199	95	133	160	151	127	149	189	203	150
power generation											
nonconsumptive	0	0	0	0	0	0	0	0	0	0	0
consumptive	0	0	0	0	0	0	0	0	0	0	0
SUM:											
nonconsumptive	1,899	2,145	1,882	1,621	1,573	1,521	1,065	1,391	1,445	1,402	1,594
consumptive	338	473	344	341	363	351	276	328	383	390	359
PERCENTAGES:											
nonconsumptive	84.9%	81.9%	84.5%	82.6%	81.2%	81.3%	79.4%	80.9%	79.0%	78.3%	81.6%
consumptive	15.1%	18.1%	15.5%	17.4%	18.8%	18.7%	20.6%	19.1%	21.0%	21.7%	18.4%

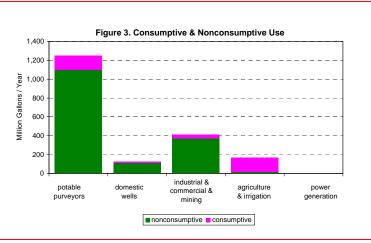


Table 4. Average Sea	sonal ⁷ Use	- Nonconsu	mptive⁴ 8	Consump	tive ⁵ (millio	ns of gallor	1s)			
	Wi	nter	Sp	ring	Sun	nmer	F	all	Year	ly Avg.
Use Group	Noncon-	Consump-	Noncon-	Consump-	Noncon-	Consump-	Noncon-	Consump-	Noncon-	Consump-
	sumptive	tive	sumptive	tive	sumptive	tive	sumptive	tive	sumptive	tive
potable purveyors	249	0	265	19	313	109	271	25	1,098	153
domestic wells	25	0	26	2	32	11	27	2	109	15
industrial & commercial & mining	84	9	101	11	105	12	81	9	370	41
agricultural & non- agricultural irrig.	0	0	3	24	10	88	4	37	17	150
power generation	0	0	0	0	0	0	0	0	0	0
SUM:	358	10	394	56	459	220	383	73	1,594	359

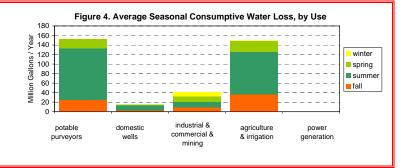
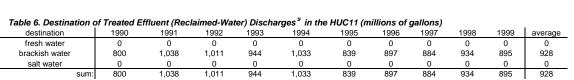
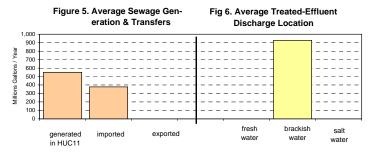


Table 5. Sewage Gen	eration & Tra	ansfers [®] in	the HUC11	(millions	of gallons)						
	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	average
generated in HUC11	474	616	599	560	613	498	532	524	554	531	550
imported to HUC11	325	422	411	384	420	342	365	360	380	364	377
exported from HUC11	0	0	0	0	0	0	0	0	0	0	0





Losses / Exports

Table 7. 1999 Water Al		in	HUC11 by
	Source		
Water Source	MGY		
surface water	0		
ground water	4,314		
tota	d 4,314		
Table 8. 1999 Water Al.		in	HUC11 by
	locations ¹⁰ Ise Group	in	MGY
Water U		in	
Water U Use Group		in in	MGY
Water U Use Group agricultural) in	MGY
Water U Use Group agricultural commercial) in	MGY 2,337 0
Water U Use Group agricultural commercial industrial) in	MGY 2,337 0 628
Water U Use Group agricultural commercial industrial irrigation	Ise Group	' in	MGY 2,337 0 628
Water L Use Group agricultural commercial industrial irrigation mining	Ise Group) in	MGY 2,337 0 628 37 0

total wa	atershed	260.3	sq. mi.		
(this HUC11	onshore area:	44.2	sq. mi.)		
•	on of this HU				
Year	Population	Change	-		
1940	10,340	-			
1950	11,403	10.3%			
1960	13,641	19.6%			
1970	15,348	12.5%			
1980	17,676	15.2%			
1990	18,486	4.6%			
2000	19,126	3.5%			
2010	20,667	8.1%	est.12		
2020	22,881	10.7%	est.12		
2030	24,795	8.4%	est.12		
I and Had	of this HUC	11.			
	Yea				
Type	1986	1995	- Change		
ag.	11.5%	11.7%	0.1%		
barren	1.8%	1.2%	-0.6%		
forest	52.1%	50.1%	-1.9%		
urban	18.1%	20.5%	2.5%		
water	2.2%	2.2%	0.0%		
wetlands	14.4%	14.3%	-0.1%		
% of this	HUC11 in:				
Pinel	ands:	0.0%			
	ands:	0.0%			

Table 9. HUC11 Descriptive Statistics

Table 10. Upstream and downstream HUC11s (in NJ)								
location	#	name						
downstream:	02040206200	Maurice River (below Menantico Creek)						
(if any)								
upstream:	02040206120	Still Run / Little Ease Run						
(if any)	02040206130	Scotland Run						
	02040206140	Maurice River (above Sherman Ave Bridge						
	02040206150	Muddy Run						
	02040206160	Maurice River (Union Lk to Sherman Ave)						

NOTES:

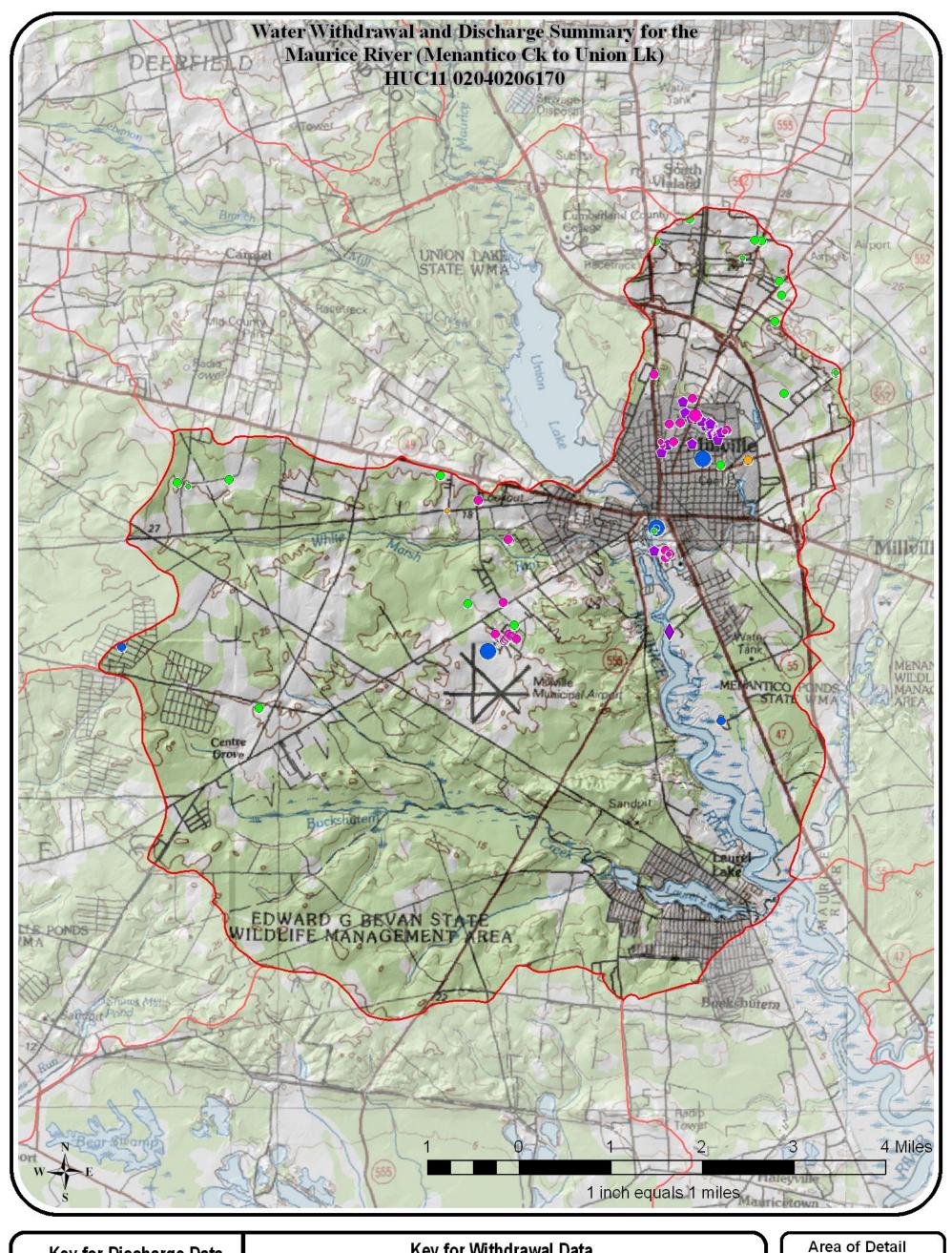
- 1 Salt and brackish water withdrawal and use is not included in this data
- 2 This does not account for water released from onstream reservoirs for downstream intakes.
- 3 Includes both permitted ground-water withdrawals and estimated domestic well withdrawals. 4 Nonconsumptive water use refers to water used in the watershed but not evaporated.
- 5 Consumptive water use refers to water evaporated in the watershed. It does not include exports.
- 6 Use refers only to water actually used in that HUC11. It is equal to freshwater withdrawals + imports exports. 7 Winter is Jan, Feb, Dec of the same year; spring is March-May; summer is June-Aug; fall is Sept-Nov.
- 8 Sewage generation and transfers are based on intersection of sewer service areas with HUC11s. 9 Based on discharge volumes reported under NJPDES program.
- 10 The allocated volume is calculated from allocation permits on file with the Bureau of Water Allocation, NJDEP, as of 1999.

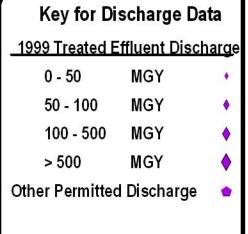
 11 Import and export volumes based on reported transfers between purveyors and on intersection of purveyor service areas with HUC11s.
- 12 Projected population estimates based on NJ Metropolitan Planning Organization estimates. 13 Subject to revision.
- $14\,$ Withdrawals for offstream reservoirs are problematic and complicate Figures 1 and 2.

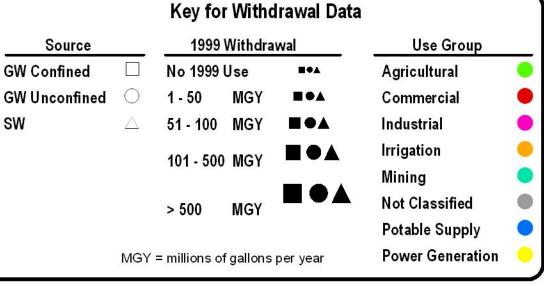
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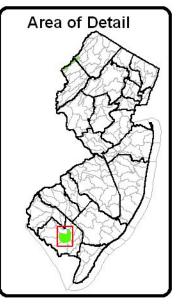
ear	Population	Change	
40	10,340	-	
950	11,403	10.3%	
960	13,641	19.6%	
1970	15,348	12.5%	
1980	17,676	15.2%	
1990	18,486	4.6%	
2000	19,126	3.5%	
2010	20,667	8.1%	est.12
2020	22,881	10.7%	est.12
2030	24,795	8.4%	est.12
and Use	of this HUC1		
Type	Yea		Change
	1986	1995	
ag.	11.5%	11.7%	0.1%
oarren	1.8%	1.2%	-0.6%
forest	52.1%	50.1%	-1.9%
urban	18.1%	20.5%	2.5%
water	2.2% 14.4%	2.2% 14.3%	0.0% -0.1%
etlands	14.470	14.5%	-0.176
6 of this	HUC11 in:		
Pinel		0.0%	
Highl		0.0%	

Gains / Imports



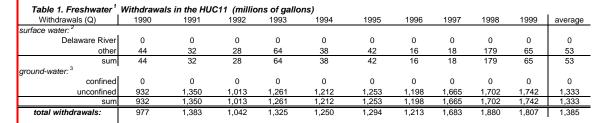


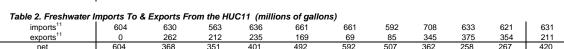




Water Withdrawals, Transfers and Discharges for MENANTICO CREEK --- 02040206180

WMA:	Maurice, Salem, and Cohansey	17	
HUC11:	Menantico Creek	02	040206180





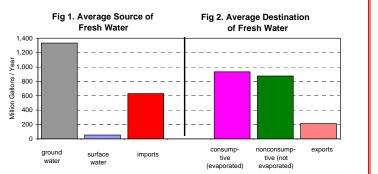


Table 3. Nonconsump	tive⁴ & Cor	nsumptive⁵	Water Use	e in the H	UC11, by Us	e Type (mi	llions of g	allons)			
Water use	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	average
potable purveyors											
nonconsumptive	548	612	554	618	649	634	578	715	625	633	617
consumptive	74	83	73	87	89	88	77	93	87	88	84
domestic wells											
nonconsumptive	134	135	136	137	138	139	140	141	142	143	139
consumptive	19	19	19	19	19	20	20	20	20	20	20
industrial & commercial & mir	ning										
nonconsumptive	0	0	0	0	37	46	57	19	0	130	29
consumptive	0	0	0	0	4	5	6	2	0	14	3
agricultural & non-agricultural	irrigation										
nonconsumptive	81	93	61	86	81	95	84	106	126	104	92
consumptive	726	833	550	777	725	859	756	950	1,137	940	825
oower generation											
nonconsumptive	0	0	0	0	0	0	0	0	0	0	0
consumptive	0	0	0	0	0	0	0	0	0	0	0
SUM:											
nonconsumptive	762	839	751	841	904	915	860	980	894	1,011	876
consumptive	819	935	642	884	837	972	860	1,065	1,244	1,063	932
PERCENTAGES:											
nonconsumptive	48.2%	47.3%	53.9%	48.8%	51.9%	48.5%	50.0%	47.9%	41.8%	48.8%	48.4%
consumptive	51.8%	52.7%	46.1%	51.2%	48.1%	51.5%	50.0%	52.1%	58.2%	51.2%	51.6%

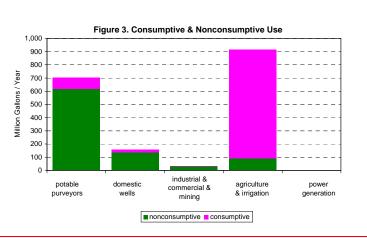


Table 4. Average Sea	Table 4. Average Seasonal 7 Use - Nonconsumptive 4 & Consumptive 5 (millions of gallons)														
	Yearly Avg.														
Use Group	Noncon-	Consump-	Noncon-	Consump-	Noncon-	Consump-	Noncon-	Consump-	Noncon-	Consump-					
	sumptive	tive	sumptive	tive	sumptive	tive	sumptive	tive	sumptive	tive					
potable purveyors	140	0	153	11	172	60	151	14	617	84					
domestic wells	32	0	33	2	40	14	34	3	139	20					
industrial & commercial & mining	6	1	7	1	7	1	8	1	29	3					
agricultural & non- agricultural irrig.	0	3	17	152	53	474	22	197	92	825					
power generation	0	0	0	0	0	0	0	0	0	0					
SUM:	179	4	209	166	272	549	215	214	876	932					

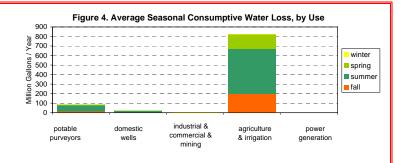
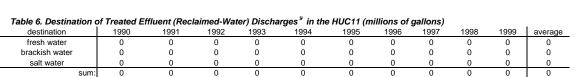
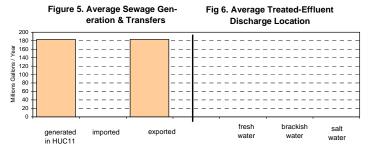


Table 5. Sewage Generation & Transfers ⁸ in the HUC11 (millions of gallons)												
	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	average	
generated in HUC11	176	198	189	184	195	166	178	179	190	174	183	
imported to HUC11	0	0	0	0	0	0	0	0	0	0	0	
exported from HUC11	176	198	189	184	195	166	178	179	190	174	183	





	locations 10 in HUC11 by
Water	Source
Water Source	MGY
surface water	603
ground water	5,766
tota	al 6,369
Table 8, 1999 Water Al	locations 10 in HUC11 by
	Ise Group
Use Group	MGY
agricultural	5,597
commercial	0
industrial	300
irrigation	112
mining	0
potable supp	ly 360
potable supp power generat	•

Area:			
in this HL	JC11 only	39.2	sq. mi.
upstream	HUC11s	0.0	sq. mi.
total wa	itershed	39.2	sq. mi.
(this HUC11	onshore area:	39.2	sq. mi.)
•	n of this HU		
Year	Population	Change	-
1940	11,123	-	
1950	13,650	22.7%	
1960	17,346	27.1%	
1970	21,171	22.1%	
1980	24,338	15.0%	
1990	25,208	3.6%	
2000	25,657	1.8%	
2010	27,641	7.7%	est.12
2020	30,452	10.2%	est.12
2030	32,895	8.0%	est.12
Land Use	of this HUC		
Type	Yea	*	- Change
	1986	1995	
ag.	28.1%	26.6%	-1.4%
barren	1.3%	1.2%	0.0%
forest	37.3%	36.6%	-0.7%
urban	18.7%	21.1%	2.4%
water	1.3%	1.2%	-0.1%
wetlands	13.4%	13.3%	-0.1%
	HUC11 in:	0.00/	
	ands:	3.9%	
Highi	ands:	0.0%	

Table 9. HUC11 Descriptive Statistics

location	#	stream HUC11s (in NJ) name
	02040206200	Maurice River (below Menantico Creek)
(if any)		
upstream:		
(if any)		

1,400

NOTES:

- 1 Salt and brackish water withdrawal and use is not included in this data
- 2 This does not account for water released from onstream reservoirs for downstream intakes.
- 4 Nonconsumptive water use refers to water used in the watershed but not evaporated.
- 5 Consumptive water use refers to water evaporated in the watershed. It does not include exports.

- 12 Projected population estimates based on NJ Metropolitan Planning Organization estimates.
- 13 Subject to revision.
- $14\,$ Withdrawals for offstream reservoirs are problematic and complicate Figures 1 and 2.

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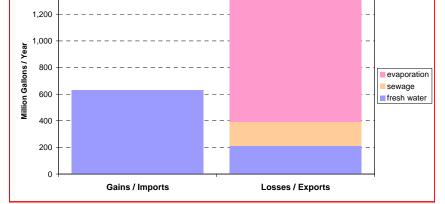
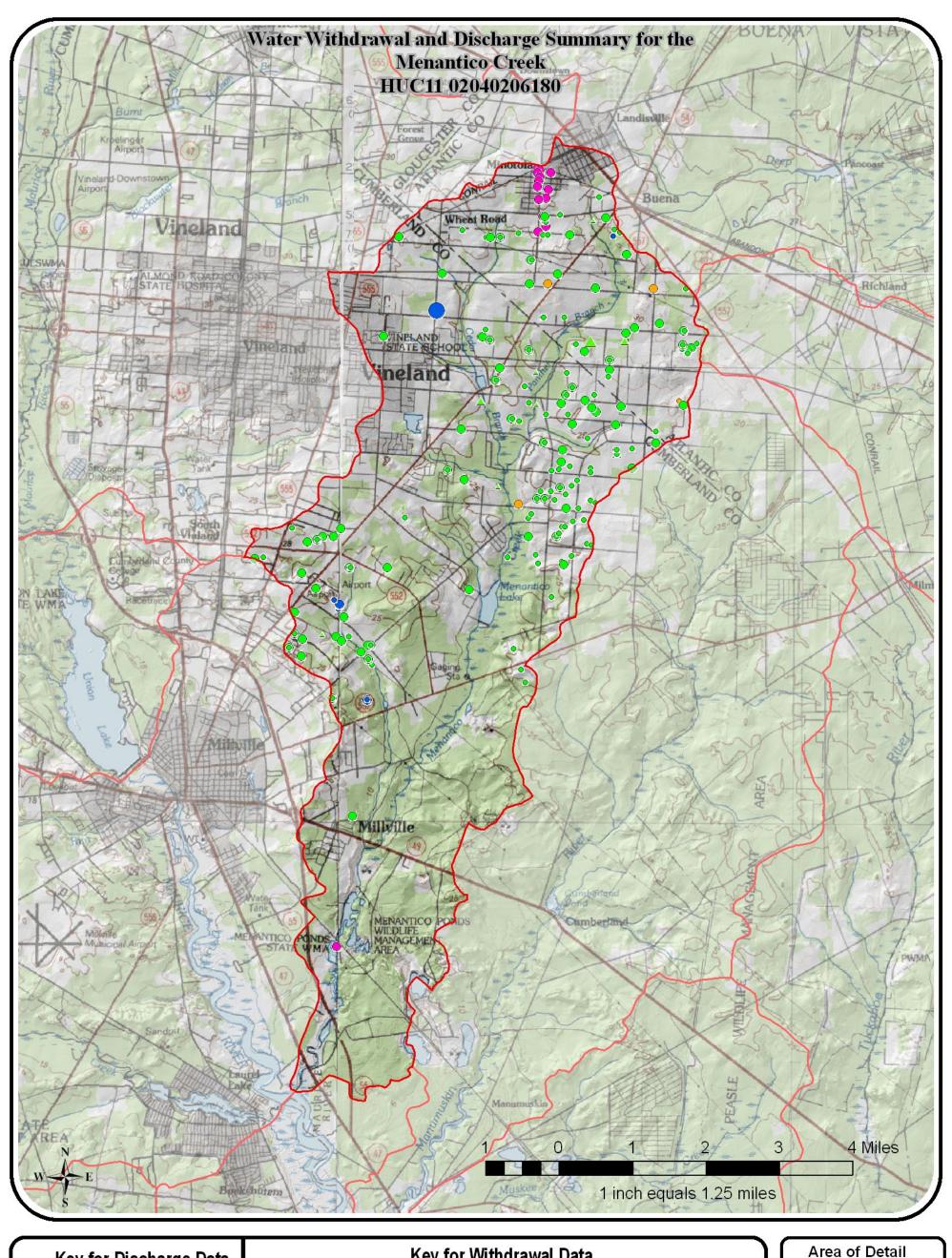
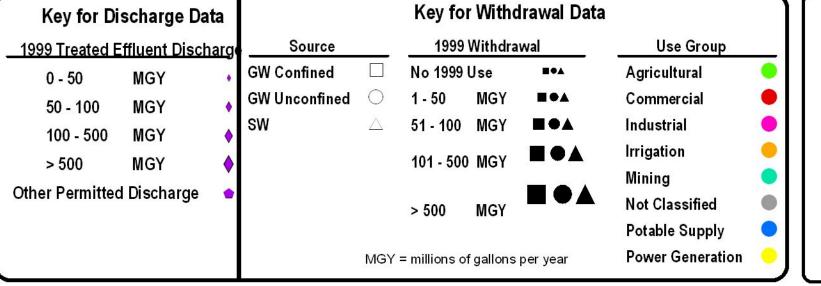
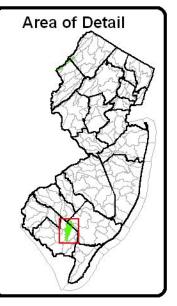


Figure 7. Net Transfers

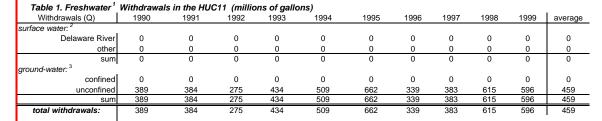


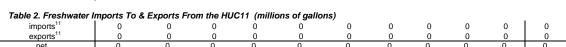




Water Withdrawals, Transfers and Discharges for MANAMUSKIN RIVER --- 02040206190

WMA:	Maurice, Salem, and Cohansey	17	
HUC11:	Manamuskin River	02	040206190





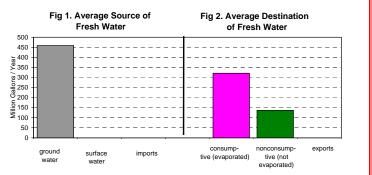


Table 3. Nonconsump	tive⁴ & Coı	nsumptive⁵	Water Use	e ⁶ in the H	UC11, by Us	se Type (mi	llions of g	allons)			
Water use	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	average
potable purveyors											
nonconsumptive	0	0	0	0	3	3	3	3	3	3	2
consumptive	0	0	0	0	0	0	0	0	0	0	0
domestic wells											
nonconsumptive	83	83	84	85	85	86	86	87	88	88	85
consumptive	12	12	12	12	12	12	12	12	12	12	12
industrial & commercial & mil	ning										
nonconsumptive	0	0	0	0	19	30	30	26	8	44	16
consumptive	0	0	0	0	3	4	4	4	1	6	2
agricultural & non-agricultura	l irrigation										
nonconsumptive	29	29	18	34	39	53	20	25	50	44	34
consumptive	265	261	161	304	348	475	182	226	452	398	307
power generation											
nonconsumptive	0	0	0	0	0	0	0	0	0	0	0
consumptive	0	0	0	0	0	0	0	0	0	0	0
SUM:											
nonconsumptive	112	112	102	118	146	171	140	141	149	180	137
consumptive	277	272	173	316	363	491	199	243	466	417	322
PERCENTAGES:											
nonconsumptive	28.8%	29.1%	37.0%	27.3%	28.7%	25.9%	41.3%	36.7%	24.2%	30.1%	29.9%
consumptive	71.2%	70.9%	63.0%	72.7%	71.3%	74.1%	58.7%	63.3%	75.8%	69.9%	70.1%

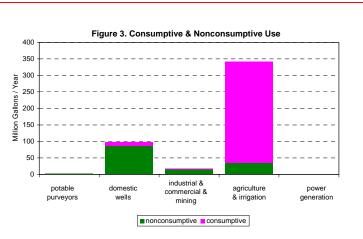


Table 4. Average Sea	sonal ⁷ Use	- Nonconsul	mptive⁴ 8	Consump	tive⁵ (millio	ons of gallor	1s)			
	Wi	nter	Sp	ring	Sun	nmer	F	all	Yearl	y Avg.
Use Group	Noncon-	Consump-	Noncon-	Consump-	Noncon-	Consump-	Noncon-	Consump-	Noncon-	Consump-
	sumptive	tive	sumptive	tive	sumptive	tive	sumptive	tive	sumptive	tive
potable purveyors	0	0	0	0	0	0	1	0	2	0
domestic wells	20	0	20	1	25	9	21	2	85	12
industrial & commercial & mining	4	0	3	0	4	1	5	1	16	2
agricultural & non- agricultural irrig.	0	1	6	51	19	174	9	82	34	307
power generation	0	0	0	0	0	0	0	0	0	0
SUM:	24	1	30	53	49	183	35	84	137	322

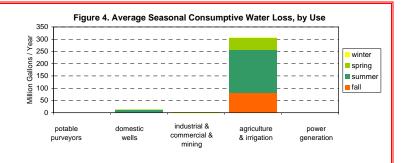


Fig 6. Average Treated-Effluent

Discharge Location

fresh

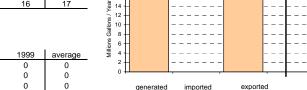
water

brackish

water

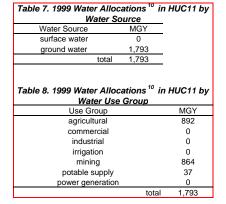
salt

Table 5. Sewage Gen	eration & Tra	ansfers ⁸ in	the HUC11	(millions	of gallons)						
	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	average
generated in HUC11	14	19	18	17	19	15	16	16	17	16	17
imported to HUC11	0	0	0	0	0	0	0	0	0	0	0
exported from HUC11	14	19	18	17	19	15	16	16	17	16	17



in HUC11

Table 0 Basilination				· · · · · · · · · · · · · · · · · · ·	9						
Table 6. Destination of									4000	4000	1
destination	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	average
fresh water	0	0	0	0	0	0	0	0	0	0	0
brackish water	0	0	0	0	0	0	0	0	0	0	0
salt water	0	0	0	0	0	0	0	0	0	0	0
sum:	0	0	0	0	0	0	0	0	0	0	0



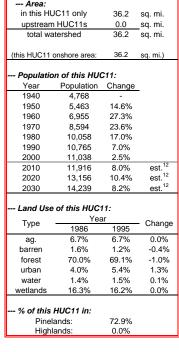


Table 9. HUC11 Descriptive Statistics

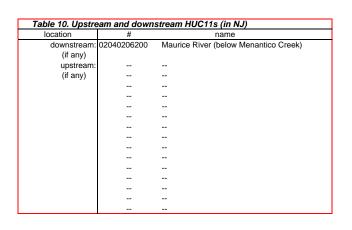
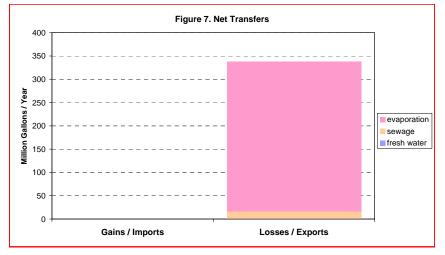


Figure 5. Average Sewage Gen-

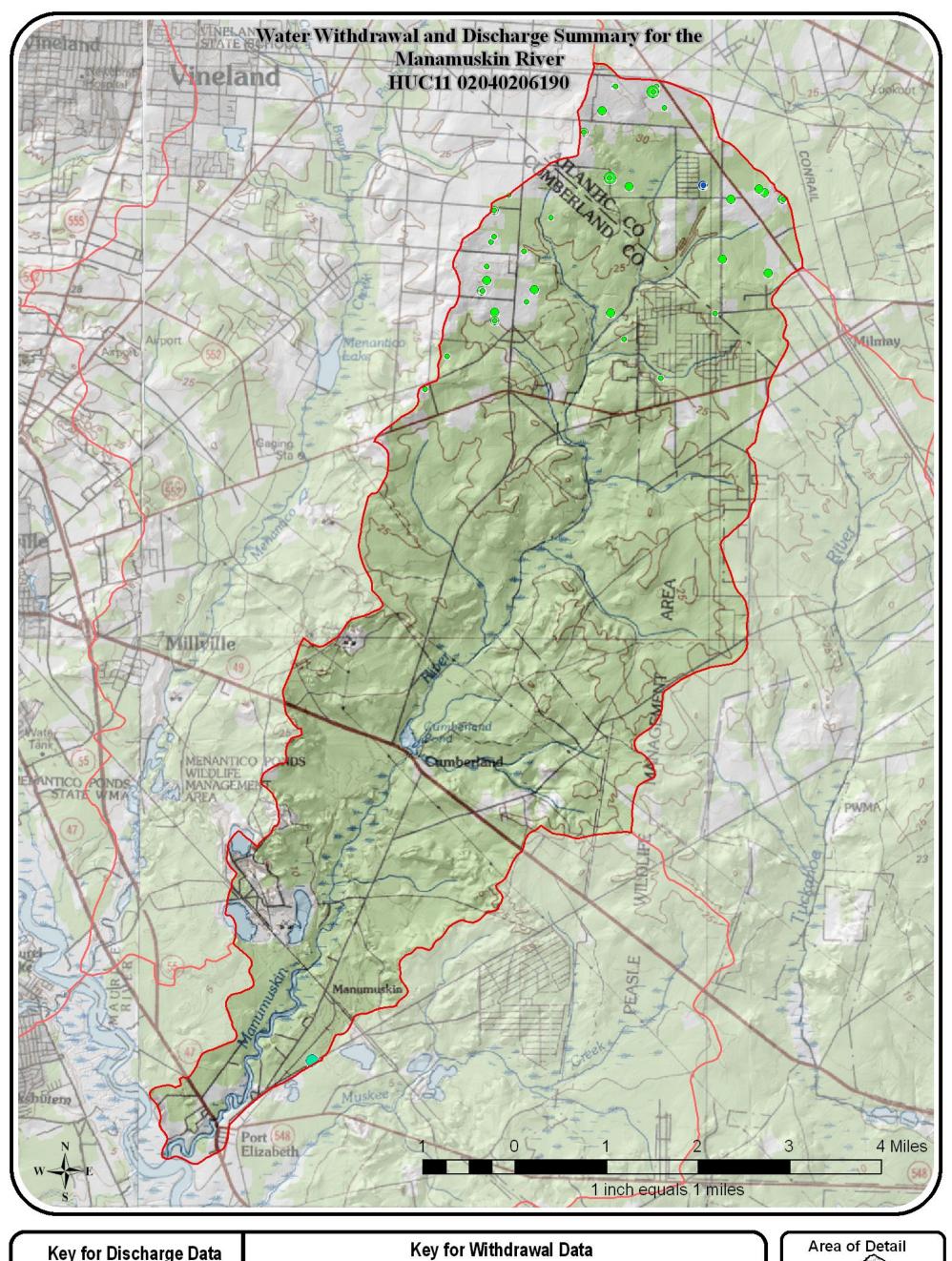
eration & Transfers

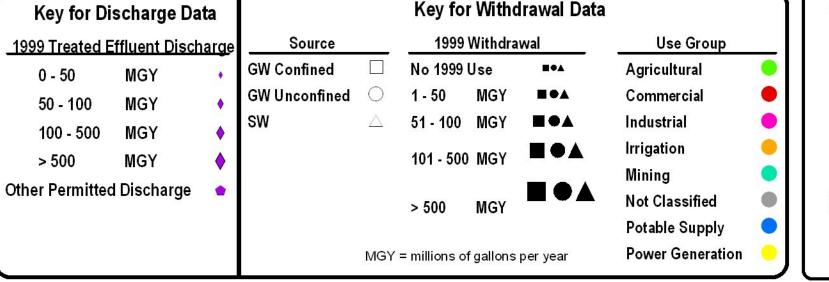


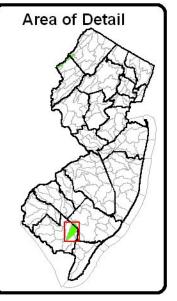
NOTES:

- 1 Salt and brackish water withdrawal and use is not included in this data
- 2 This does not account for water released from onstream reservoirs for downstream intakes
- 3 Includes both permitted ground-water withdrawals and estimated domestic well withdrawals. 4 Nonconsumptive water use refers to water used in the watershed but not evaporated.
- 5 Consumptive water use refers to water evaporated in the watershed. It does not include exports.
- 6 Use refers only to water actually used in that HUC11. It is equal to freshwater withdrawals + imports exports.
- 7 Winter is Jan, Feb, Dec of the same year; spring is March-May; summer is June-Aug; fall is Sept-Nov.
- 8 Sewage generation and transfers are based on intersection of sewer service areas with HUC11s. 9 Based on discharge volumes reported under NJPDES program.
- 10 The allocated volume is calculated from allocation permits on file with the Bureau of Water Allocation, NJDEP, as of 1999.

 11 Import and export volumes based on reported transfers between purveyors and on intersection of purveyor service areas with HUC11s.
- 12 Projected population estimates based on NJ Metropolitan Planning Organization estimates.
- 13 Subject to revision.
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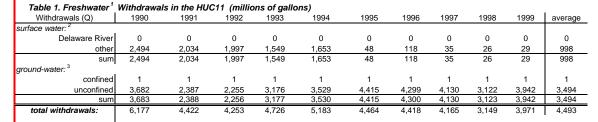


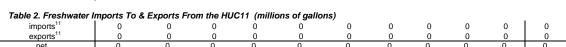




Water Withdrawals, Transfers and Discharges for MAURICE RIVER (BELOW MENANTICO CREEK) --- 02040206200







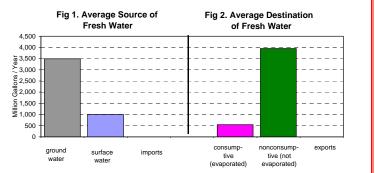


Table 3. Nonconsumpt	tive⁴ & Coı	nsumptive⁵	Water Use	e ⁶ in the H	UC11, by Us	se Type (mi	llions of g	allons)			
Water use	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	average
potable purveyors											
nonconsumptive	0	0	0	0	0	0	0	0	0	0	0
consumptive	0	0	0	0	0	0	0	0	0	0	0
domestic wells											
nonconsumptive	108	108	109	110	111	112	113	113	114	115	111
consumptive	15	15	15	15	16	16	16	16	16	16	16
industrial & commercial & mir	ning										
nonconsumptive	5,309	3,781	3,632	4,047	4,449	3,815	3,773	3,549	2,654	3,376	3,839
consumptive	724	516	495	551	606	520	514	483	361	460	523
agricultural & non-agricultural	irrigation										
nonconsumptive	2	0	0	0	0	0	0	0	0	0	0
consumptive	17	0	0	0	0	0	0	0	0	0	2
power generation											
nonconsumptive	0	0	0	0	0	0	0	0	0	0	0
consumptive	0	0	0	0	0	0	0	0	0	0	0
SUM:											
nonconsumptive	5,420	3,890	3,741	4,157	4,560	3,927	3,886	3,663	2,769	3,492	3,951
consumptive	756	531	510	567	622	535	530	500	378	477	541
PERCENTAGES:											
nonconsumptive	87.8%	88.0%	88.0%	88.0%	88.0%	88.0%	88.0%	88.0%	88.0%	88.0%	88.0%
consumptive	12.2%	12.0%	12.0%	12.0%	12.0%	12.0%	12.0%	12.0%	12.0%	12.0%	12.0%

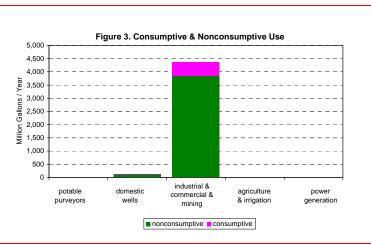


Table 4. Average Sea	sonal ⁷ Use	- Nonconsu	mptive⁴ 8	Consump	tive ⁵ (millio	ons of gallor	ıs)			
	Wi	nter	Sp	ring	Sun	nmer	F	all	Year	ly Avg.
Use Group	Noncon-	Consump-	Noncon-	Consump-	Noncon-	Consump-	Noncon-	Consump-	Noncon-	Consump-
	sumptive	tive	sumptive	tive	sumptive	tive	sumptive	tive	sumptive	tive
potable purveyors	1	0	1	0	0	0	0	0	2	0
domestic wells	26	0	26	2	32	11	27	2	111	16
industrial & commercial & mining	590	80	965	132	1,158	158	1,125	153	3,839	523
agricultural & non- agricultural irrig.	0	0	0	0	0	1	0	0	0	2
power generation	0	0	0	0	0	0	0	0	0	0
SUM:	616	80	992	134	1,191	170	1,152	156	3,952	541

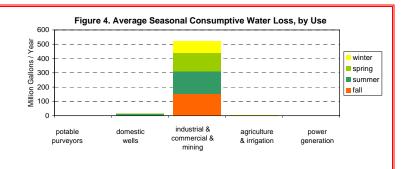
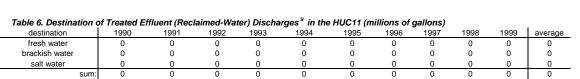


Table 5. Sewage Gen	eration & Tra	ansfers [®] in	the HUC11	(millions	of gallons)						
	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	average
generated in HUC11	0	0	0	0	0	0	0	0	0	0	0
imported to HUC11	0	0	0	0	0	0	0	0	0	0	0
exported from HUC11	0	0	0	0	0	0	0	0	0	0	0



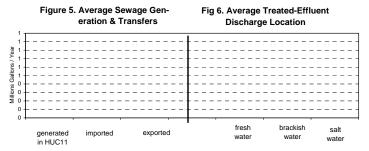


Table 7. 1999 Water Ali	locations 10	' in	HUC11 by
Water	Source		
Water Source	MGY		
surface water	2,260		
ground water	7,314		
tota	ıl 9,574		
Table 8. 1999 Water All	locations 10	in.	UIIC11 by
Table 0. 1999 Water All	locations	,,,,	посттыу
	se Group	""	носттыу
			MGY
Water U			
Water U Use Group			
Water U Use Group agricultural			
Water U Use Group agricultural commercial			MGY 0 0
Water U Use Group agricultural commercial industrial			MGY 0 0
Water U Use Group agricultural commercial industrial irrigation	se Group		MGY 0 0 0
Water U Use Group agricultural commercial industrial irrigation mining	y		MGY 0 0 0 0 0 9,500

lulai wa	itershed	384.6	•
(this HUC11	onshore area:	45.7	sq. mi.)
•	n of this HUC		
Year	Population	Change	_
1940	2,046	-	
1950	2,426	18.6%	
1960	2,518	3.8%	
1970	2,923	16.1%	
1980	3,661	25.3%	
1990	4,504	23.0%	
2000	4,703	4.4%	
2010	5,078	8.0%	est.12
	E 040	40.00/	12
2020	5,618	10.6%	est.12
2020 2030	6,084	8.3%	est. ¹²
2030 Land Use	-,	8.3% 11:	est. ¹²
2030	6,084	8.3% 11:	est. ¹²
2030 Land Use	6,084 of this HUC:	8.3% 11:	est. est. 12 - Change
2030 Land Use Type	6,084 of this HUC: Yes 1986	8.3% 11: ar 1995	est. ¹² - Change
2030 Land Use Type ag.	6,084 of this HUC: Yea 1986 3.4%	8.3% 11: ar 1995 2.8%	est. ¹² - Change
2030 Land Use Type ag. barren	6,084 of this HUC: Yes 1986 3.4% 1.6%	8.3% 11: ar 1995 2.8% 2.1%	est. ¹² - Change -0.6% 0.5%
2030 Land Use Type ag. barren forest	6,084 of this HUC: Yes 1986 3.4% 1.6% 41.4%	8.3% 11: ar 1995 2.8% 2.1% 40.7%	est. ¹² - Change -0.6% 0.5% -0.7%
2030 Land Use Type ag. barren forest urban	6,084 of this HUC: Yes 1986 3.4% 1.6% 41.4% 5.1%	8.3% 11: ar 1995 2.8% 2.1% 40.7% 5.5%	est. ¹² - Change -0.6% 0.5% -0.7% 0.4%
2030 Type ag. barren forest urban water wetlands % of this	6,084 of this HUC: Yes 1986 3.4% 1.6% 41.4% 5.1% 9.0% 39.5% HUC11 in:	8.3% 11: 1995 2.8% 2.1% 40.7% 5.5% 9.6%	est. ¹² - Change -0.6% 0.5% -0.7% 0.4% 0.6%
2030 Type ag. barren forest urban water wetlands % of this Pinel	6,084 of this HUC: Yes 1986 3.4% 1.6% 41.4% 5.1% 9.0% 39.5%	8.3% 11: 1995 2.8% 2.1% 40.7% 5.5% 9.6%	est. ¹² - Change -0.6% 0.5% -0.7% 0.4% 0.6%

Table 9. HUC11 Descriptive Statistics

48.9 sq. mi.

335.7 sq. mi.

in this HUC11 only

upstream HUC11s

abie io. opsire	eam and downs	stream HUC11s (in NJ)
location	#	name
downstream:	02040204910	Delaware Bay (Cape May Pt to Fishing Ck)
(if any)		
upstream:	02040206120	Still Run / Little Ease Run
(if any)	02040206130	Scotland Run
	02040206140	Maurice River (above Sherman Ave Bridge
	02040206150	Muddy Run
	02040206160	Maurice River (Union Lk to Sherman Ave)
	02040206170	Maurice River (Menantico Ck to Union Lk)
	02040206180	Menantico Creek
	02040206190	Manamuskin River
		

NOTES: 1 Salt and brackish water withdrawal and use is not included in this data

2 This does not account for water released from onstream reservoirs for downstream intakes.

3 Includes both permitted ground-water withdrawals and estimated domestic well withdrawals.

4 Nonconsumptive water use refers to water used in the watershed but not evaporated. 5 Consumptive water use refers to water evaporated in the watershed. It does not include exports.

6 Use refers only to water actually used in that HUC11. It is equal to freshwater withdrawals + imports - exports.

7 Winter is Jan, Feb, Dec of the same year; spring is March-May; summer is June-Aug; fall is Sept-Nov.

8 Sewage generation and transfers are based on intersection of sewer service areas with HUC11s. 9 Based on discharge volumes reported under NJPDES program.

10 The allocated volume is calculated from allocation permits on file with the Bureau of Water Allocation, NJDEP, as of 1999.

11 Import and export volumes based on reported transfers between purveyors and on intersection of purveyor service areas with HUC11s.

12 Projected population estimates based on NJ Metropolitan Planning Organization estimates.

13 Subject to revision. $14\,$ Withdrawals for offstream reservoirs are problematic and complicate Figures 1 and 2.

2006 New Jersey Water Supply Plan

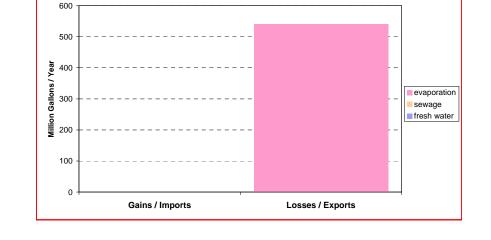


Figure 7. Net Transfers

