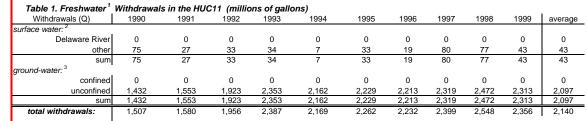
New Jersey Water Withdrawals, Uses, Transfers, and Discharges by HUC11, 1990 to 1999

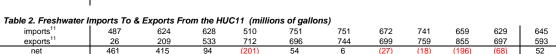
Appendix 8: HUC11 Tables, Figures and Maps WMA 8 - North and South Branch Raritan



Water Withdrawals, Transfers and Discharges for SOUTH BRANCH RARITAN RIVER (ABOVE SPRUCE RUN) --- 02030105010

WMA:	North and South Branch Raritan	08	
HUC11:	South Branch Raritan River (above Spruce Run)	02	030105010





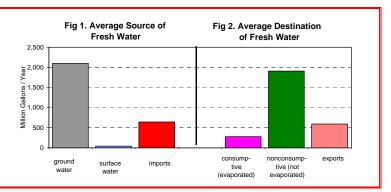


Table 3. Nonconsump											
Water use	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	average
potable purveyors											
nonconsumptive	1,146	1,212	1,238	1,326	1,377	1,385	1,311	1,446	1,410	1,420	1,327
consumptive	131	150	142	161	161	172	157	177	166	180	160
domestic wells											
nonconsumptive	419	420	425	430	436	442	445	449	455	463	438
consumptive	59	59	60	61	61	62	63	63	64	65	62
industrial & commercial & mir	ning										
nonconsumptive	125	106	134	137	153	137	195	143	154	92	138
consumptive	14	12	15	15	17	15	9	16	17	10	14
agricultural & non-agricultura	l irrigation										
nonconsumptive	7	4	3	5	1	5	2	8	8	5	5
consumptive	67	34	30	45	8	46	18	75	74	49	45
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	1,697	1,741	1,800	1,898	1,967	1,969	1,953	2,047	2,027	1,981	1,908
consumptive	271	254	246	281	248	295	247	331	322	304	280
PERCENTAGES:											
nonconsumptive	86.2%	87.3%	88.0%	87.1%	88.8%	87.0%	88.8%	86.1%	86.3%	86.7%	87.2%
consumptive	13.8%	12.7%	12.0%	12.9%	11.2%	13.0%	11.2%	13.9%	13.7%	13.3%	12.8%

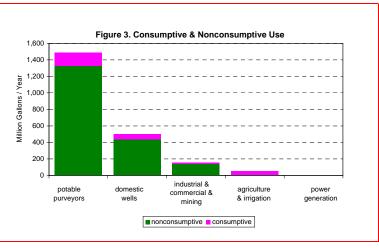


Table 4. Average Sea	sonal ⁷ Use	- Nonconsu	mptive⁴ 8	Consump	tive ⁵ (millio	ons of gallor	1s)			
	Wi	nter	Sp	ring	Sun	nmer	F	all	Year	ly Avg.
Use Group	Noncon-	Consump-	Noncon-	Consump-	Noncon-	Consump-	Noncon-	Consump-	Noncon-	Consump-
	sumptive	tive	sumptive	tive	sumptive	tive	sumptive	tive	sumptive	tive
potable purveyors	343	0	341	23	313	108	333	28	1,331	160
domestic wells	101	0	103	8	128	44	107	10	438	62
industrial & commercial & mining	31	3	35	3	41	4	30	3	138	14
agricultural & non- agricultural irrig.	0	0	1	5	3	30	1	9	5	45
power generation	0	0	0	0	0	0	0	0	0	0
SUM:	475	4	480	39	485	187	471	50	1,912	280

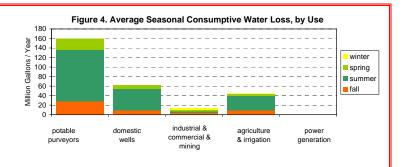
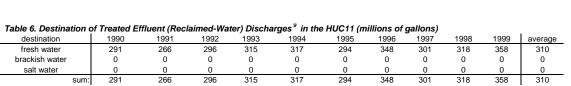


Table 5. Sewage Gen	eration & Tra	ansfers [®] in	the HUC11	(millions	of gallons)						
	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	average
generated in HUC11	800	970	982	1,129	1,216	1,167	1,370	1,270	1,391	1,433	1,173
imported to HUC11	0	0	0	0	0	0	0	0	3	10	1
exported from HUC11	509	705	685	814	899	873	1,022	969	1,076	1,085	864



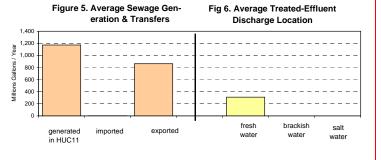


Table 7. 1999 Water All	ocations 10 in HUC11 by
Water	Source
Water Source	MGY
surface water	58
ground water	2,095
tota	2,153
Table 8. 1999 Water All	ocations 10 in HUC11 by
Water U	se Group
Use Group	MGY
agricultural	15
commercial	0
industrial	254
irrigation	58
mining	0
potable supply	1,826
power generation	on 0

		-	
Area:			
in this HU	JC11 only	71.0	sq. mi.
upstream	HUC11s	0.0	sq. mi.
total wa	atershed	71.0	sq. mi.
(this HUC11	onshore area:	71.0	sq. mi.)
	on of this HUC		
Year	Population	Change	_
1940	6,913	-	
1950	8,593	24.3%	
1960	12,590	46.5%	
1970	22,413	78.0%	
1980	32,667	45.7%	
1990	38,000	16.3%	
2000	42,594	12.1%	
2010	44,334	4.1%	est.12
2020	44,337	0.0%	est.12
2030	46,894	5.8%	est.12
Land Use	of this HUC		
Type	Yea		- Change
	1986	1995	
ag.	15.9%	13.4%	-2.5%
barren	0.4%	0.9%	0.5%
forest	44.6%	42.3%	-2.3%
urban	24.2%	28.7%	4.4%
water	1.5%	1.6%	0.0%
wetlands	13.4%	13.1%	-0.2%
% of this			
	ands:	0.0%	
Highl	ands:	100.0%	

Table 9. HUC11 Descriptive Statistics

		stream HUC11s (in NJ)
location	#	name
downstream:	02030105020	Raritan River SB (3 Brdgs to Spruce Run)
(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

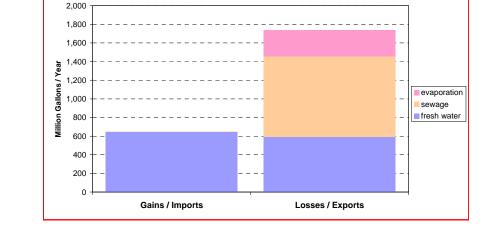
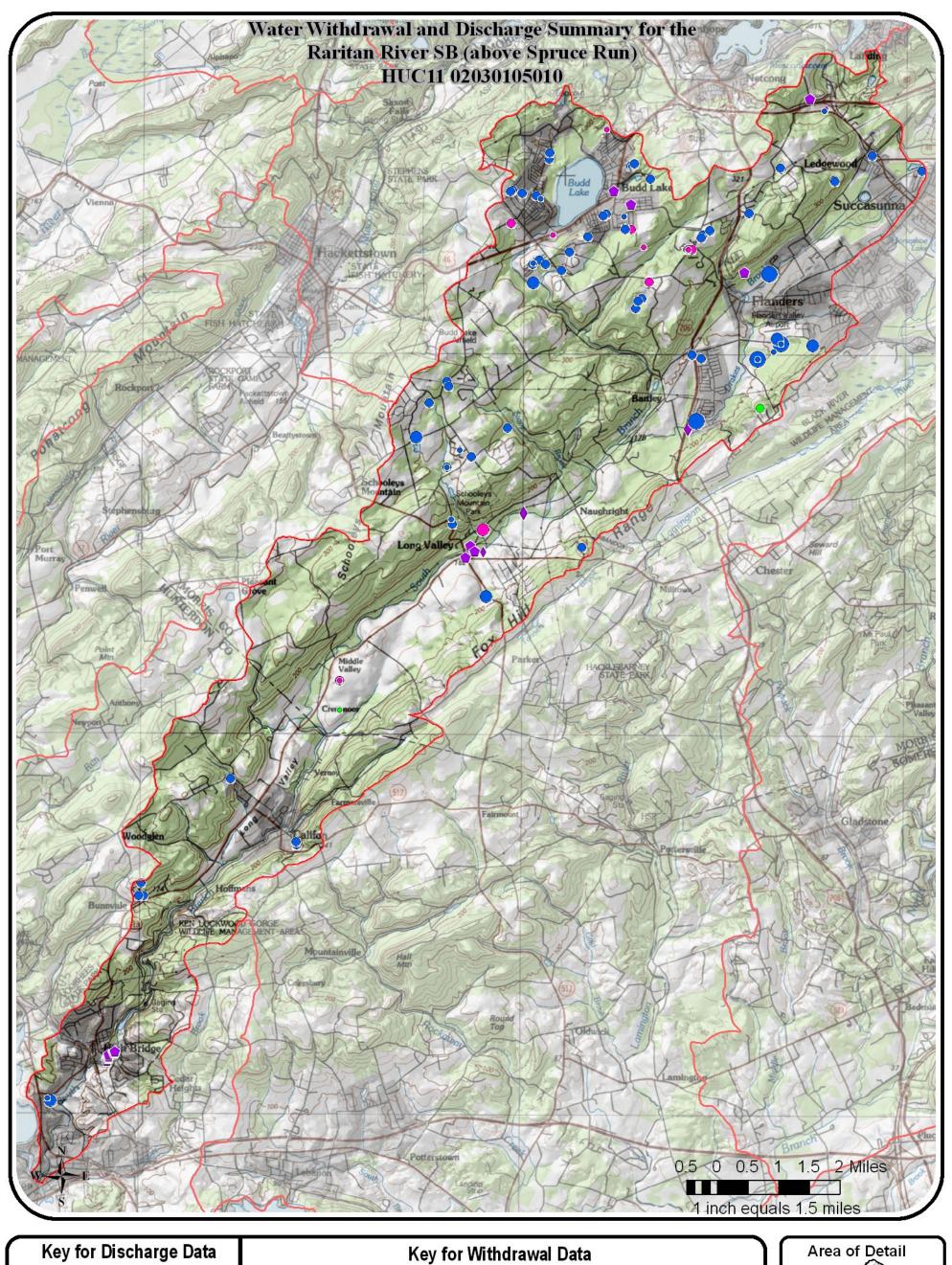
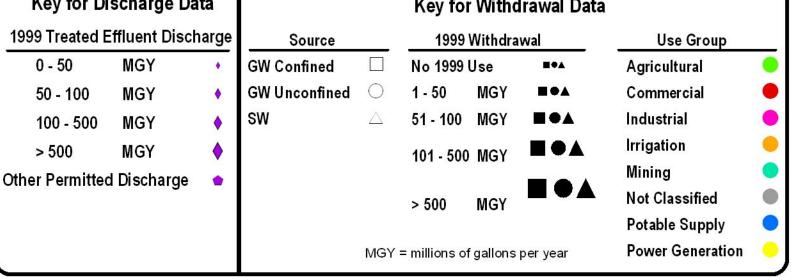
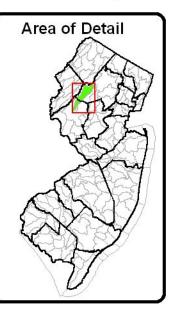


Figure 7. Net Transfers

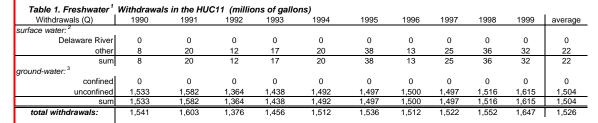


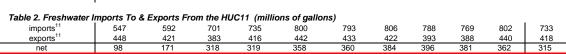




Water Withdrawals, Transfers and Discharges for SOUTH BRANCH RARITAN RIVER (3 BRIDGES TO SPRUCE RUN) --- 02030105020

WMA:	North and South Branch Raritan	08	
HUC11:	South Branch Raritan River (3 Bridges to Spruce Run)	02	030105020





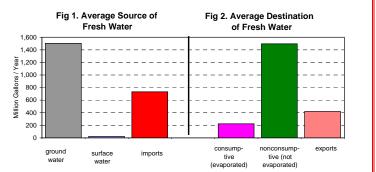


Table 3. Nonconsump	tive⁴ & Coı	nsumptive⁵	Water Use	e ⁶ in the H	UC11, by Us	se Type (mi	llions of g	allons)			
Water use	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	average
potable purveyors											
nonconsumptive	811	819	761	810	897	893	904	935	897	923	865
consumptive	92	111	100	111	119	123	120	127	128	131	116
domestic wells											
nonconsumptive	465	469	478	489	500	509	518	527	540	554	505
consumptive	66	66	67	69	70	72	73	74	76	78	71
industrial & commercial & mir	ning										
nonconsumptive	132	166	161	143	127	102	99	88	108	94	122
consumptive	15	18	18	16	14	11	11	10	12	10	14
agricultural & non-agricultural	l irrigation										
nonconsumptive	1	2	1	1	1	3	1	4	4	7	2
consumptive	6	22	7	8	7	30	13	37	36	59	22
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	1,409	1,456	1,401	1,443	1,525	1,507	1,524	1,555	1,549	1,578	1,494
consumptive	178	217	193	204	211	235	218	248	252	278	223
PERCENTAGES:											
nonconsumptive	88.8%	87.0%	87.9%	87.6%	87.8%	86.5%	87.5%	86.3%	86.0%	85.0%	87.0%
consumptive	11.2%	13.0%	12.1%	12.4%	12.2%	13.5%	12.5%	13.7%	14.0%	15.0%	13.0%

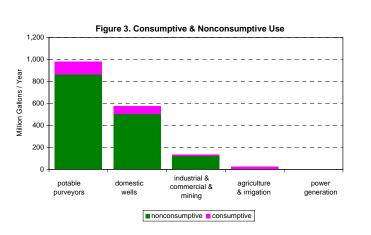


Table 4. Average Sea	sonal ⁷ Use	- Nonconsul	mptive⁴ &	Consump	tive ⁵ (millio	ons of gallor	1S)			
	Wi	nter	Spring		Sun	nmer	F	all	Yearly Avg.	
Use Group	Noncon-	Consump-	Noncon-	Consump-	Noncon-	Consump-	Noncon-	Consump-	Noncon-	Consump-
	sumptive	tive	sumptive	tive	sumptive	tive	sumptive	tive	sumptive	tive
potable purveyors	257	0	254	17	228	79	245	21	984	117
domestic wells	116	0	119	9	147	51	124	11	505	71
industrial & commercial & mining	27	3	29	3	37	4	30	3	122	14
agricultural & non- agricultural irrig.	0	0	0	4	2	14	0	4	2	22
power generation	0	0	0	0	0	0	0	0	0	0
SUM:	400	3	401	33	413	148	399	40	1,614	224

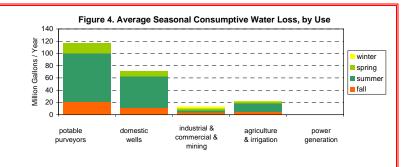
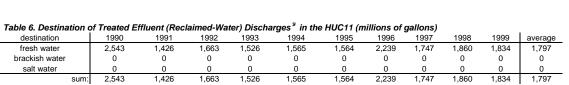


Table 5. Sewage Gen	eration & Tra	ansfers* in	the HUC11	(millions	of gallons)						
	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	average
generated in HUC11	1,689	992	1,220	1,066	1,099	1,119	1,685	1,264	1,369	1,370	1,287
imported to HUC11	854	435	443	461	466	446	554	484	492	465	510
exported from HUC11	0	0	1	1	1	1	1	1	1	1	1



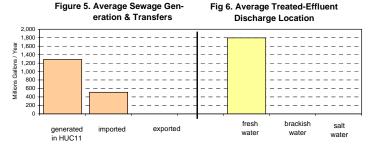


Table 7. 1999 Water All	locations 10	in	HUC11 by
Water	Source		
Water Source	MGY		
surface water	1,512		
ground water	1,498		
tota	ıl 3,010		
	se Group		MGV
Use Group	se Group		MGY 864
	se Group		
Use Group agricultural	se Group		864
Use Group agricultural commercial	se Group		864 37
Use Group agricultural commercial industrial	se Group		864 37 286
Use Group agricultural commercial industrial irrigation			864 37 286 37
Use Group agricultural commercial industrial irrigation mining	у		864 37 286 37 0

Populatio	on of this HUC	C11:	sq. mi.)
Year	Population	Change	_
1940	9,922	-	
1950	11,864	19.6%	
1960	14,747	24.3%	
1970	19,680	33.4%	
1980	25,737	30.8%	
1990	33,574	30.4%	
2000	39,395	17.3%	
2010	43,263	9.8%	est.12
2020	44,412	2.7%	est.12
2030	46,815	5.4%	est.12
	of this HUC1 Yea		Change
Land Use Type			- Change
	Yea	ar	- Change
Туре	Yea 1986	ar 1995	
Type ag.	1986 30.1%	1995 25.7%	-4.4%
Type ag. barren	1986 30.1% 0.8%	1995 25.7% 0.8%	-4.4% 0.0%
Type ag. barren forest	1986 30.1% 0.8% 35.7%	1995 25.7% 0.8% 35.8%	-4.4% 0.0% 0.1%
ag. barren forest urban	1986 30.1% 0.8% 35.7% 19.4%	1995 25.7% 0.8% 35.8% 23.8%	-4.4% 0.0% 0.1% 4.5%
ag. barren forest urban water wetlands	1986 30.1% 0.8% 35.7% 19.4% 5.7%	1995 25.7% 0.8% 35.8% 23.8% 5.7%	-4.4% 0.0% 0.1% 4.5% 0.0%
Type ag. barren forest urban water wetlands % of this	1986 30.1% 0.8% 35.7% 19.4% 5.7% 8.3%	1995 25.7% 0.8% 35.8% 23.8% 5.7%	0.0% 0.1% 4.5% 0.0%

Table 9. HUC11 Descriptive Statistics

111.0 sq. mi.

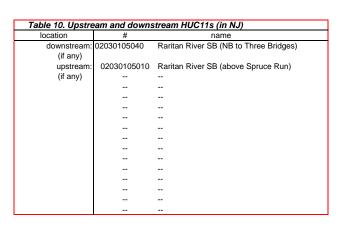
in this HUC11 only

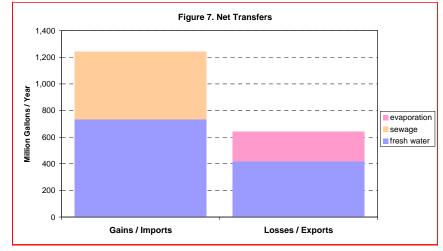
NOTES:

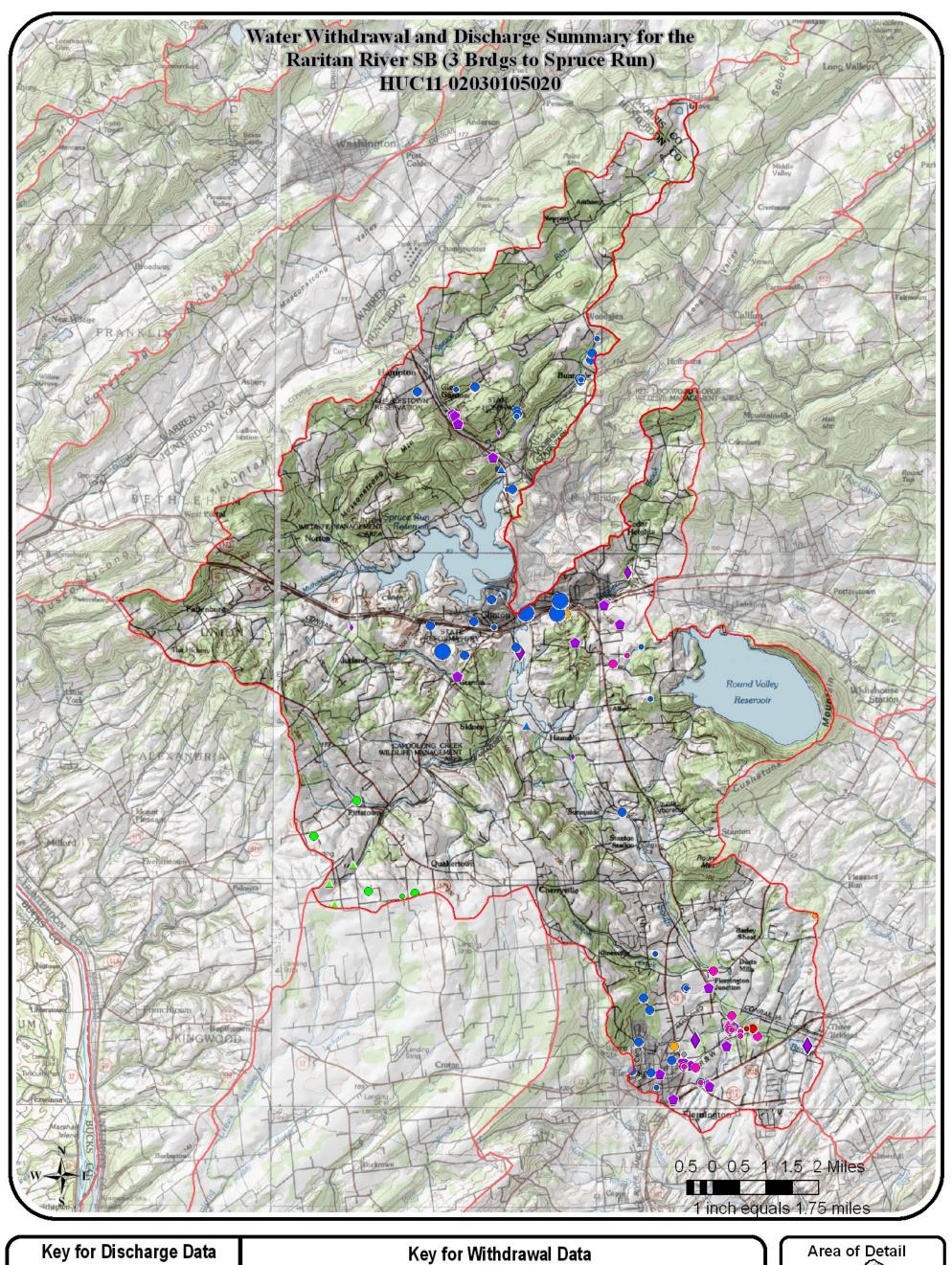
- 1 Salt and brackish water withdrawal and use is not included in this data
- 2 This does not account for water released from onstream reservoirs for downstream intakes.
- 3 Includes both permitted ground-water withdrawals and estimated domestic well withdrawals. 4 Nonconsumptive water use refers to 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.

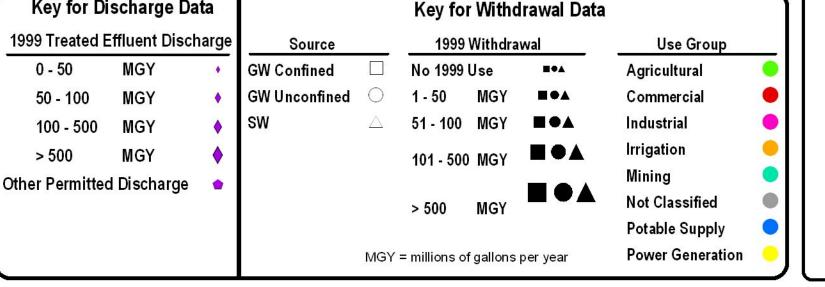
 11 Import and export volumes based on reported transfers between purveyors and on intersection of purveyor service areas with HUC11s.
- 12 Projected population estimates based on NJ Metropolitan Planning Organization estimates.
- 13 Subject to revision.
- $14\,$ Withdrawals for offstream reservoirs are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

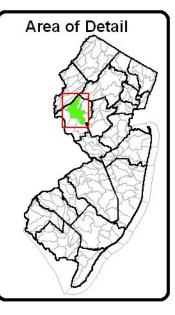
2006 New Jersey Water Supply Plan V3.0 NJ Department of Environmental Protection - Land Use Management - New Jersey Geological Survey & Division of Water Supply





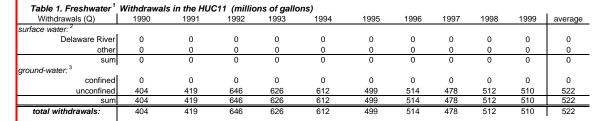


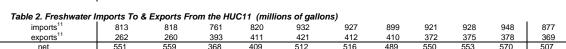




Water Withdrawals, Transfers and Discharges for NESHANIC RIVER --- 02030105030

WMA:	North and South Branch Raritan	80	
HUC11:	Neshanic River	02	030105030





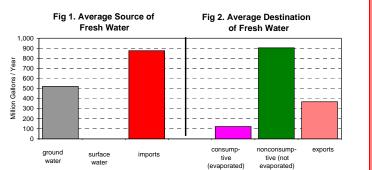


Table 3. Nonconsump									4000	4000	l
Water use	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	average
potable purveyors											
nonconsumptive	496	502	478	512	608	606	592	612	617	636	566
consumptive	55	57	53	65	72	73	69	76	78	81	68
domestic wells											
nonconsumptive	261	263	269	274	279	284	289	295	301	307	282
consumptive	37	37	38	39	39	40	41	41	42	43	40
industrial & commercial & mil	ning										
nonconsumptive	85	92	147	122	106	5	0	0	0	0	56
consumptive	9	10	16	14	12	1	0	0	0	0	6
agricultural & non-agricultura	l irrigation										
nonconsumptive	1	2	1	1	1	0	0	0	3	1	1
consumptive	11	15	11	7	5	4	3	1	23	11	9
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	843	858	896	909	993	895	881	907	921	945	905
consumptive	112	120	118	124	129	118	113	118	143	135	123
PERCENTAGES:											
nonconsumptive	88.2%	87.8%	88.3%	88.0%	88.5%	88.3%	88.7%	88.5%	86.5%	87.5%	88.0%
consumptive	11.8%	12.2%	11.7%	12.0%	11.5%	11.7%	11.3%	11.5%	13.5%	12.5%	12.0%

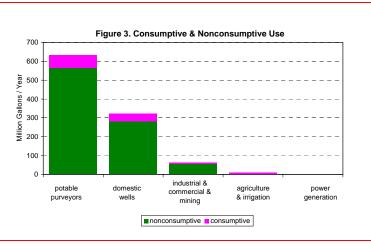


Table 4. Average Sea	Table 4. Average Seasonal 7 Use - Nonconsumptive 4 & Consumptive 5 (millions of gallons)												
	Wi	nter	Spring Summer			F	all	Yearly Avg.					
Use Group	Noncon-	Consump-	Noncon-	Consump-	Noncon-	Consump-	Noncon-	Consump-	Noncon-	Consump-			
	sumptive	tive	sumptive	tive	sumptive	tive	sumptive	tive	sumptive	tive			
potable purveyors	149	0	148	10	134	46	136	12	568	68			
domestic wells	65	0	66	5	82	29	69	6	282	40			
industrial & commercial & mining	13	1	14	2	15	2	14	2	56	6			
agricultural & non- agricultural irrig.	0	0	0	2	1	5	0	2	1	9			
power generation	0	0	0	0	0	0	0	0	0	0			
SUM:	227	1	229	19	232	82	219	21	906	123			

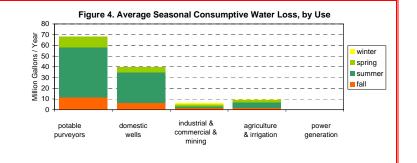
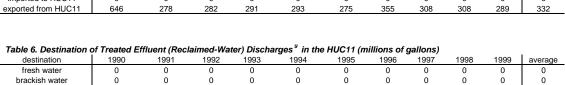


Table 5. Sewage Gen	Table 5. Sewage Generation & Transfers ⁸ in the HUC11 (millions of gallons)													
	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	average			
generated in HUC11	646	278	282	291	293	275	355	308	308	289	332			
imported to HUC11	0	0	0	0	0	0	0	0	0	0	0			
exported from HUC11	646	278	282	291	293	275	355	308	308	289	332			



0

0

Table 9. HUC11 Descriptive Statistics

0

0

0

0

0

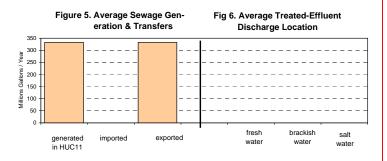


Table 7. 1999 Water Al		io ir	HUC11 by
Water Source	r Source MGY		
surface water	NIG T		
	U		
ground water	170		
tota	al 170		
Table 8. 1999 Water Al		¹⁰ ir	HUC11 by
	llocations Jse Group	¹⁰ ir	HUC11 by
Water L Use Group	Jse Group	¹⁰ ir	MGY
Water L Use Group agricultural	Jse Group	¹⁰ in	
Water L Use Group	Jse Group	¹⁰ in	MGY
Water L Use Group agricultural	Jse Group	¹⁰ in	MGY 0
Water L Use Group agricultural commercial	Jse Group	¹⁰ in	MGY 0 0
Water U Use Group agricultural commercial industrial	Jse Group	¹⁰ ir	MGY 0 0 0
Water L Use Group agricultural commercial industrial irrigation	Jse Group	¹⁰ ir	MGY 0 0 0 0 30
Water L Use Group agricultural commercial industrial irrigation mining	Jse Group	¹⁰ ir	MGY 0 0 0 0 30

0

sum:

0

0

brackish water

salt water

		-	
Area:			
in this HU	JC11 only	55.7	sq. mi.
upstream	HUC11s	0.0	sq. mi.
total wa	atershed	55.7	sq. mi.
(this HUC11	onshore area:	55.7	sq. mi.)
•	on of this HUC		
Year	Population	Change	_
1940	3,124	-	
1950	3,977	27.3%	
1960	5,824	46.5%	
1970	8,209	40.9%	
1980	10,793	31.5%	
1990	16,584	53.6%	
2000	19,884	19.9%	
2010	22,326	12.3%	est.12
2020	23,461	5.1%	est.12
2030	24,539	4.6%	est.12
Land Use	of this HUC		
Type	Yea		- Change
• • • • • • • • • • • • • • • • • • • •	1986	1995	
ag.	50.9%	44.8%	-6.1%
barren	0.8%	0.2%	-0.6%
forest	21.3%	22.5%	1.1%
urban	14.9%	20.7%	5.8%
water	0.3%	0.3%	0.0%
wetlands	11.7%	11.5%	-0.1%
04 -541 :			
	HUC11 in:	0.00/	
	lands:	0.0%	
High	lands:	0.0%	

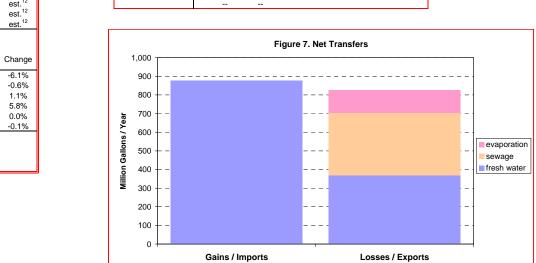
ble 10. Upstre	am and down	stream HUC11s (in NJ)
location	#	name
downstream: (if any)	02030105040	Raritan River SB (NB to Three Bridges)
upstream:		
(if any)		
		

NOTES:

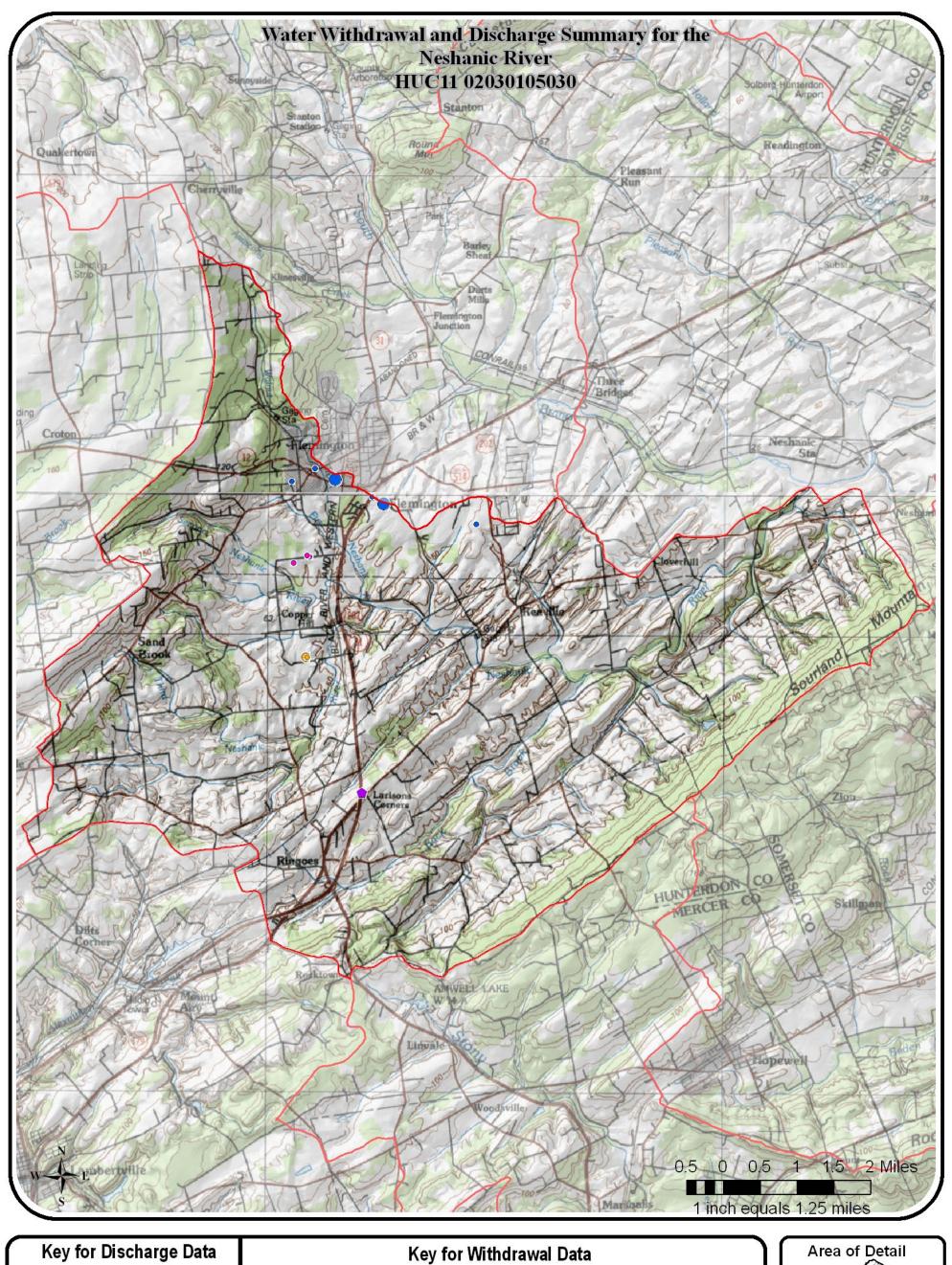
- 1 Salt and brackish water withdrawal and use is not included in this data
- 2 This does not account for water released from onstream reservoirs for downstream intakes.
- 3 Includes both permitted ground-water withdrawals and estimated domestic well withdrawals. 4 Nonconsumptive water use refers to 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.

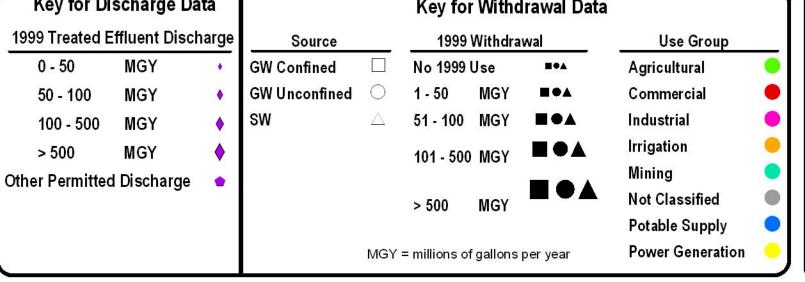
 11 Import and export volumes based on reported transfers between purveyors and on intersection of purveyor service areas with HUC11s.
- 12 Projected population estimates based on NJ Metropolitan Planning Organization estimates.
- 13 Subject to revision.
- $14\,$ Withdrawals for offstream reservoirs are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

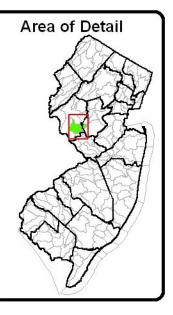
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V3.0 NJ Department of Environmental Protection - Land Use Management - New Jersey Geological Survey & Division of Water Supply

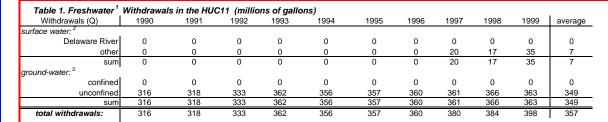


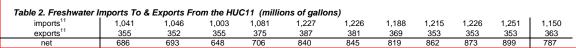




Water Withdrawals, Transfers and Discharges for SOUTH BRANCH RARITAN RIVER (NORTH BRANCH TO THREE BRIDGES) --- 02030105040

WMA:	North and South Branch Raritan	08	
HUC11:	South Branch Raritan River (NB to Three Bridges)	02	030105040





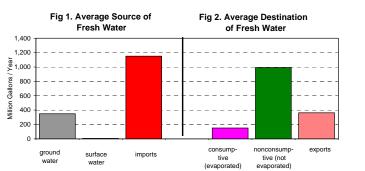


Table 3. Nonconsumpt											i
Water use	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	average
ootable purveyors											
nonconsumptive	618	623	583	625	751	753	734	767	775	797	703
consumptive	68	71	65	80	89	92	85	95	98	102	84
domestic wells											
nonconsumptive	265	266	269	276	281	285	288	290	295	299	281
consumptive	37	37	38	39	40	40	41	41	42	42	40
ndustrial & commercial & mir	ing										
nonconsumptive	10	7	8	6	8	7	6	2	3	0	6
consumptive	1	1	1	1	1	1	1	0	1	0	1
agricultural & non-agricultural	irrigation										
nonconsumptive	0	1	2	4	3	2	3	5	4	6	3
consumptive	3	6	16	36	24	22	24	42	39	51	26
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	892	897	862	912	1,043	1.047	1.030	1.064	1.077	1.102	993
consumptive	110	115	119	156	154	155	150	178	179	195	151
PERCENTAGES:	•										
nonconsumptive	89.0%	88.6%	87.9%	85.4%	87.2%	87.1%	87.3%	85.7%	85.7%	85.0%	86.8%
consumptive	11.0%	11.4%	12.1%	14.6%	12.8%	12.9%	12.7%	14.3%	14.3%	15.0%	13.2%

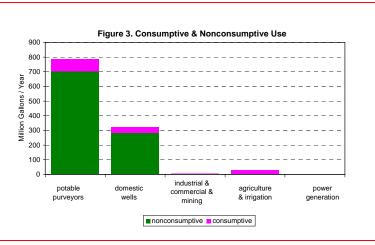


Table 4. Average Sea	Table 4. Average Seasonal 7 Use - Nonconsumptive 4 & Consumptive 5 (millions of gallons)														
	Wi	nter	Sp	ring	Sum	nmer	F	all	Year	ly Avg.					
Use Group	Noncon-	Consump-	Noncon-	Consump-	Noncon-	Consump-	Noncon-	Consump-	Noncon-	Consump-					
	sumptive	tive	sumptive	tive	sumptive	tive	sumptive	tive	sumptive	tive					
potable purveyors	185	0	184	12	167	58	168	14	703	84					
domestic wells	65	0	66	5	82	28	69	6	281	40					
industrial & commercial & mining	1	0	2	0	2	0	1	0	6	1					
agricultural & non- agricultural irrig.	0	1	1	5	2	15	1	5	3	26					
power generation	0	0	0	0	0	0	0	0	0	0					
SUM:	251	1	252	22	252	102	238	26	993	151					

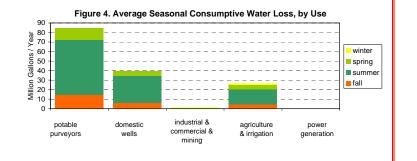


Table 5. Sewage Generation & Transfers ⁸ in the HUC11 (millions of gallons)											
	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	average
generated in HUC11	388	366	356	385	392	359	470	407	388	328	384
imported to HUC11	0	0	1	1	1	1	0	1	0	1	0
exported from HUC11	378	357	347	376	382	350	461	398	379	318	375

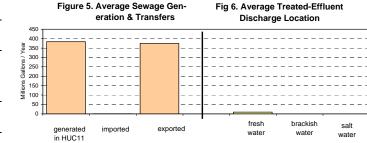


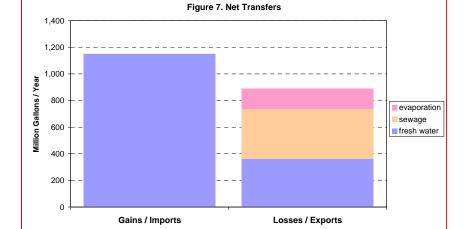
Table 6. Destination of Treated Effluent (Reclaimed-Water) Discharges ⁹ in the HUC11 (millions of gallons)											
destination	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	average
fresh water	9	9	10	11	10	10	10	10	9	10	10
brackish water	0	0	0	0	0	0	0	0	0	0	0
salt water	0	0	0	0	0	0	0	0	0	0	0
sum:	9	9	10	11	10	10	10	10	9	10	10

Table 7. 1999 Water	Allocations "	' in	HUC11 by
Wat	er Source		
Water Source	MGY		
surface water	14		
ground water	186		
t	otal 199		
Table 8 1999 Water	Allocations 1	0 in	HUC11 by
Table 8. 1999 Water . Water		o in	HUC11 by
	r Use Group	o in	MGY
Water	r Use Group up	o in	
Water Use Gro	r Use Group up ral	o in	MGY
Water Use Grot agricultur	r <u>Use Group</u> up ral ial	° in	MGY 79
Water Use Grot agricultur commerci	r Use Group up ral ial	o in	MGY 79 74
Water Use Grot agricultur commerci industria	r Use Group up ral ial	o in	MGY 79 74 0
Water Use Grot agricultur commerc industria irrigation	r Use Group up ral iial al	° in	MGY 79 74 0 46
Water Use Groi agricultur commerc industria irrigatior mining	r Use Group up ral rial al n	° in	MGY 79 74 0 46 0

Area:				
in this HU	JC11 only	41.8	sq. mi.	
upstream	HUC11s	237.6	sq. mi.	
total wa	atershed	279.5	sq. mi.	
(this HUC11	onshore area:	41.8	sq. mi.)	
	n of this HU			
Year	Population	Change	_	
1940	2,443	-		
1950	3,565	46.0%		
1960	6,048	69.7%		
1970	8,402	38.9%		
1980	12,166	44.8%		
1990	16,616	36.6%		
2000	20,944	26.0%		
2010	22,346	6.7%	est.12	
2020	24,156	8.1%	est.12	
2030	25,444	5.3%	est.12	
Land Use	of this HUC			
Type	Yea		- Change	
	1986	1995	ŭ	
ag.	44.5%	36.1%	-8.5%	
barren	1.1%	0.8%	-0.2%	
forest	20.9%	21.6%	0.7%	
urban	24.4%	32.4%	8.1%	
water	0.7%	0.7%	0.0%	
wetlands	8.4%	8.3%	-0.1%	
	HUC11 in:	0.00/		
	ands:	0.0%		
High	ands:	0.6%		

Table 9. HUC11 Descriptive Statistics

ble 10. Upstre	eam and downs	stream HUC11s (in NJ)
location	#	name
downstream: (if any)	02030105080	Raritan River Lower (Millstone to NB/SB)
upstream:	02030105010	Raritan River SB (above Spruce Run)
(if any)	02030105020	Raritan River SB (3 Brdgs to Spruce Run)
,	02030105030	Neshanic River

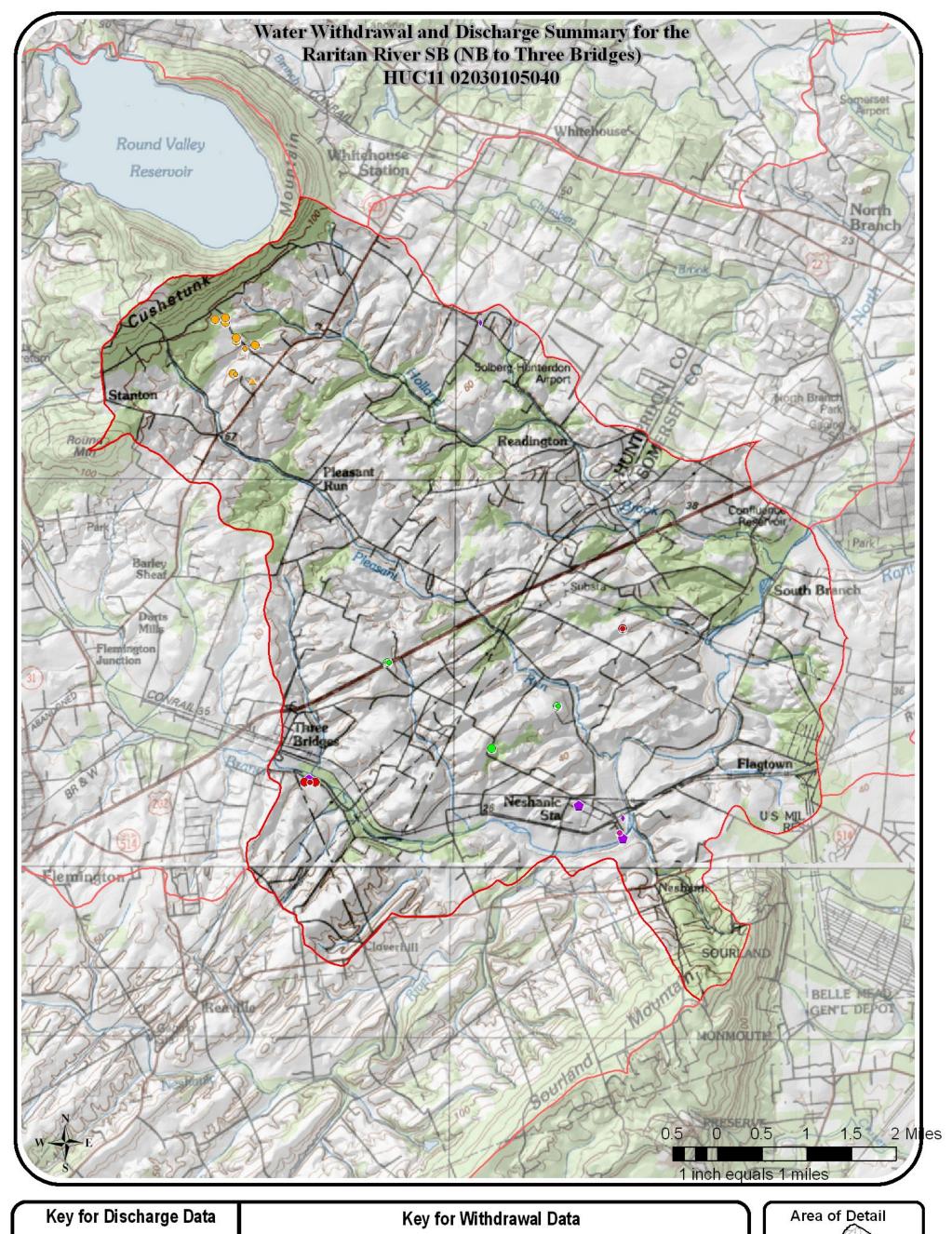


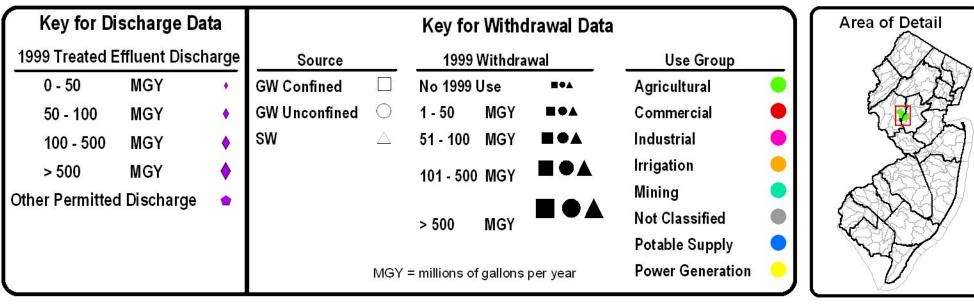
NOTES:

- 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.

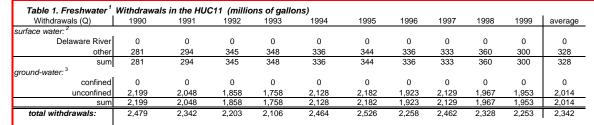
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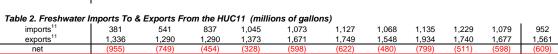




Water Withdrawals, Transfers and Discharges for LAMINGTON RIVER --- 02030105050

WMA:	North and South Branch Raritan	08	
HUC11:	Lamington River	02	030105050





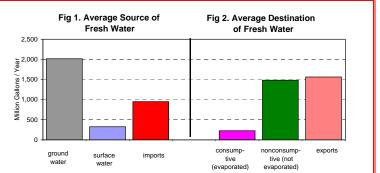


Table 3. Nonconsumptive 4 & Consumptive 5 Water Use 6 in the HUC11, by Use Type (millions of gallons)											
Water use	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	average
potable purveyors											
nonconsumptive	619	592	645	679	785	730	691	553	521	525	634
consumptive	71	66	69	82	88	87	82	68	65	68	75
domestic wells											
nonconsumptive	515	517	523	532	541	550	557	563	572	582	545
consumptive	72	73	74	75	76	77	78	79	81	82	77
industrial & commercial & mir	ning										
nonconsumptive	263	238	312	307	302	305	302	315	356	294	299
consumptive	29	26	35	34	34	34	34	35	40	33	33
agricultural & non-agricultura	l irrigation										
nonconsumptive	1	7	2	5	3	9	3	5	5	7	5
consumptive	11	59	20	47	24	78	27	41	45	60	41
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	1,398	1,353	1,483	1,523	1,631	1,593	1,553	1,436	1,453	1,407	1,483
consumptive	183	224	198	238	222	276	221	223	231	242	226
PERCENTAGES:											
nonconsumptive	88.4%	85.8%	88.2%	86.5%	88.0%	85.2%	87.6%	86.5%	86.3%	85.3%	86.8%
consumptive	11.6%	14.2%	11.8%	13.5%	12.0%	14.8%	12.4%	13.5%	13.7%	14.7%	13.2%

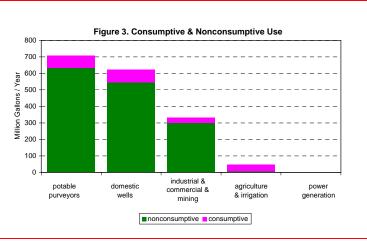


Table 4. Average Seasonal Tuse - Nonconsumptive & Consumptive (millions of gallons)											
	Wi	nter	Spring		Sun	Summer		Fall		ly Avg.	
Use Group	Noncon-	Consump-									
	sumptive	tive									
potable purveyors	168	0	166	11	145	50	155	13	634	75	
domestic wells	125	0	128	9	159	55	133	12	545	77	
industrial & commercial & mining	40	4	73	8	95	11	92	10	299	33	
agricultural & non- agricultural irrig.	0	1	1	5	3	29	1	7	5	41	
power generation	0	0	0	0	0	0	0	0	0	0	
SUM:	333	5	368	33	402	145	380	43	1,483	226	

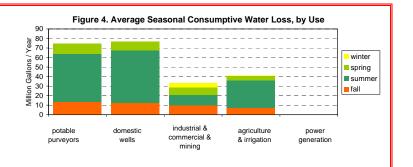


Table 5. Sewage Generation & Transfers * in the HUC11 (millions of gallons)											
	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	average
generated in HUC11	357	381	412	468	485	470	574	525	506	521	470
imported to HUC11	232	242	263	301	313	299	357	341	329	333	301
exported from HUC11	44	46	50	54	55	50	66	57	58	57	54

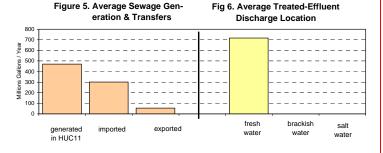
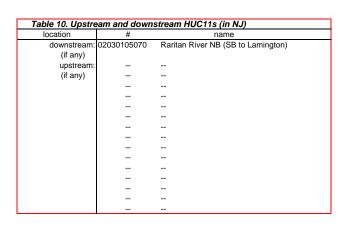


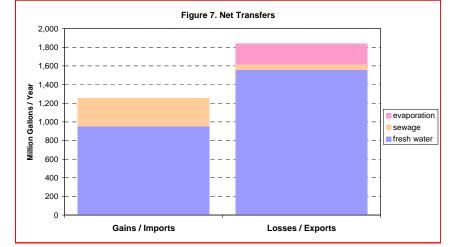
Table 6. Destination of Treated Effluent (Reclaimed-Water) Discharges ⁹ in the HUC11 (millions of gallons)											
destination	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	average
fresh water	545	577	625	716	743	719	865	808	777	798	717
brackish water	0	0	0	0	0	0	0	0	0	0	0
salt water	0	0	0	0	0	0	0	0	0	0	0
sum:	545	577	625	716	743	719	865	808	777	798	717

Water	Source	_
Water Source	MGY	_
surface water	400	
ground water	2,947	
tota	al 3,347	
	10	
Table 8. 1999 Water Al	locations "	in HUC11 by
Water U	Ise Group	
Use Group		MGY
agricultural		475
commercial		0
industrial		463
irrigation		39
mining		0
potable supp	ly	2,370
power generat	ion	0
	tota	al 3.347

Table 7. 1999 Water Allocations 10 in HUC11 by

Table 9. I	HUC11 Desc	riptive S	tatistics							
Area:										
in this HU	JC11 only	99.3	sq. mi.							
upstream	HUC11s	0.0	sq. mi.							
total wa	itershed	99.3	sq. mi.							
(this HUC11	onshore area:	99.3	sq. mi.)							
Populatio	n of this HU	C11:								
Year	Population	Change	_							
1940	7,339	-								
1950	9,427	28.4%								
1960	14,401	52.8%								
1970	21,783	51.3%								
1980	27,381	25.7%								
1990	33,205	21.3%								
2000	39,290	18.3%								
2010	41,561	5.8%	est.12							
2020	42,460	2.2%	est.12							
2030	45,472	7.1%	est.12							
Land Use	of this HUC	11:								
Type	Yea	ar	- Change							
Type	1986	1995	- Change							
ag.	25.4%	23.1%	-2.3%							
barren	0.5%	0.8%	0.3%							
forest	44.2%	42.8%	-1.4%							
urban	20.3%	23.7%	3.4%							
water	0.9%	1.0%	0.0%							
wetlands	8.6%	8.6%	-0.1%							
% of this HUC11 in:										
% of this	HUC11 in:									
		0.0%								



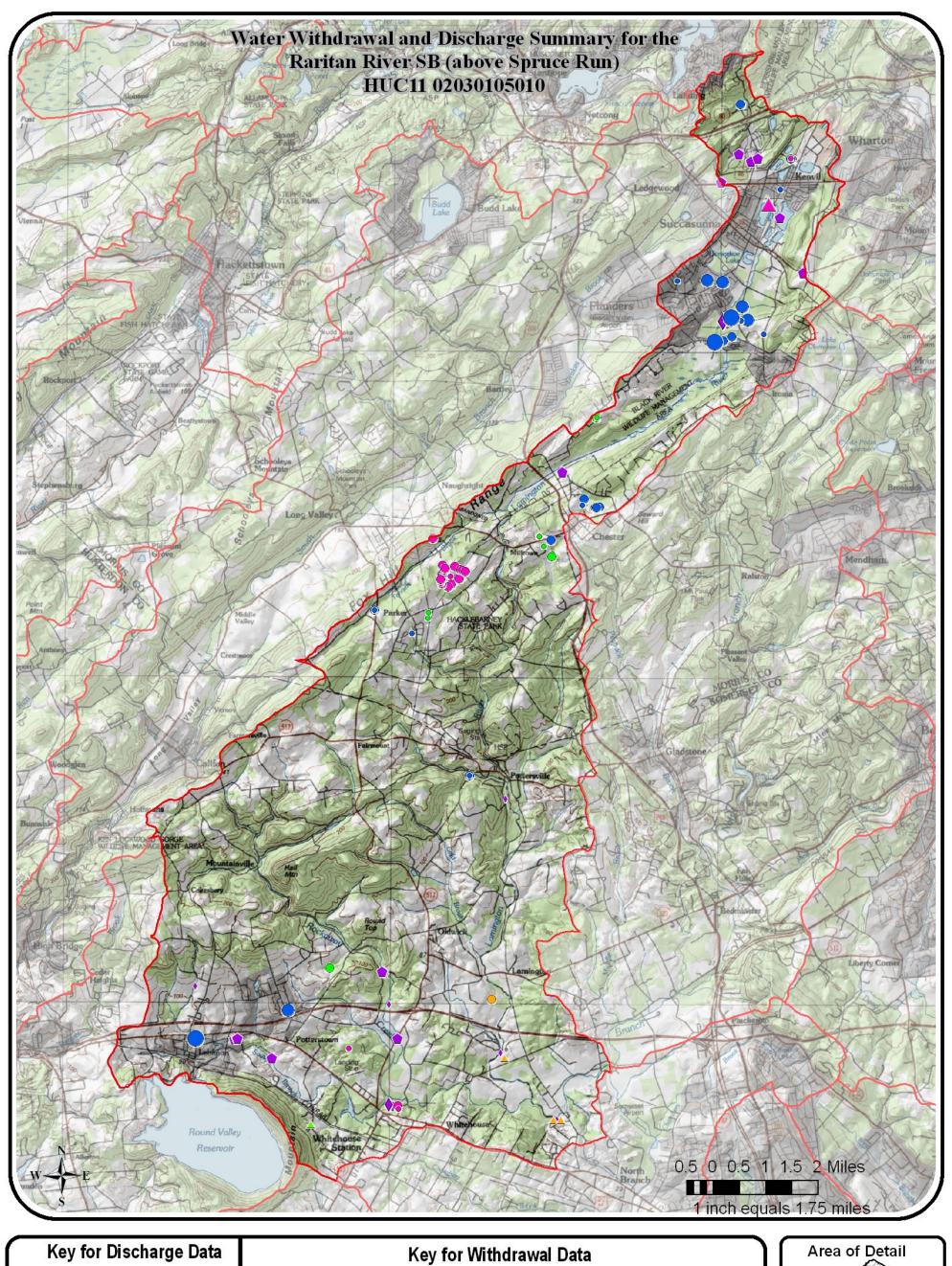


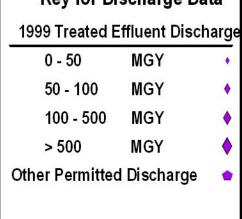
NOTES:

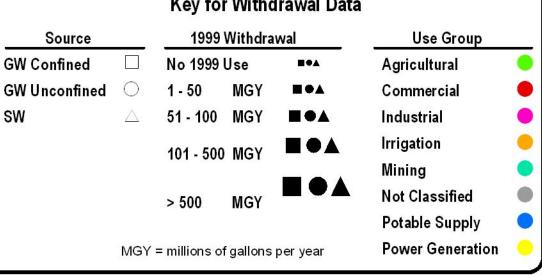
- 1 Salt and brackish water withdrawal and use is not included in this data.
- 2 This does not account for water released from onstream reservoirs for downstream intakes.
- 3 Includes both permitted ground-water withdrawals and estimated domestic well withdrawals. 4 Nonconsumptive water use refers to 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.

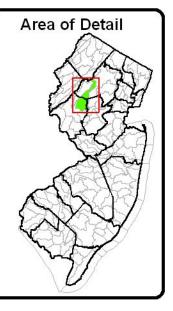
 11 Import and export volumes based on reported transfers between purveyors and on intersection of purveyor service areas with HUC11s.
- 12 Projected population estimates based on NJ Metropolitan Planning Organization estimates. 13 Subject to revision.
- $14\,$ Withdrawals for offstream reservoirs are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

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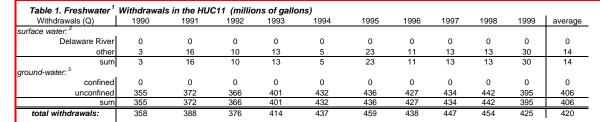


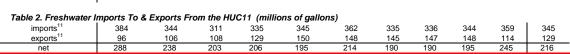




Water Withdrawals, Transfers and Discharges for NORTH BRANCH RARITAN RIVER (ABOVE LAMINGTON R) --- 02030105060

WMA:	North and South Branch Raritan	80	
HUC11:	North Branch Raritan River (above Lamington)	02	030105060





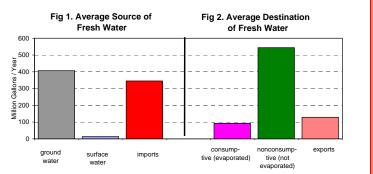


Table 3. Nonconsumpt	tive⁴ & Co	nsumptive⁵	Water Use	e ⁶ in the H	UC11, by Us	se Type (mi	llions of g	allons)			
Water use	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	average
potable purveyors											
nonconsumptive	329	289	259	273	290	302	276	278	283	295	287
consumptive	30	30	26	36	32	33	30	31	34	37	32
domestic wells											
nonconsumptive	242	243	245	248	251	255	258	260	264	268	253
consumptive	34	34	35	35	35	36	36	37	37	38	36
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-agricultural	irrigation										
nonconsumptive	1	3	1	3	2	5	3	3	3	3	3
consumptive	11	27	13	26	21	43	26	28	29	28	25
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	534	506	523	543	562	536	542	550	566	543
consumptive	75	91	73	97	88	112	92	96	100	103	93
PERCENTAGES:											
nonconsumptive	88.4%	85.4%	87.3%	84.4%	86.1%	83.4%	85.3%	85.0%	84.6%	84.6%	85.4%
consumptive	11.6%	14.6%	12.7%	15.6%	13.9%	16.6%	14.7%	15.0%	15.4%	15.4%	14.6%

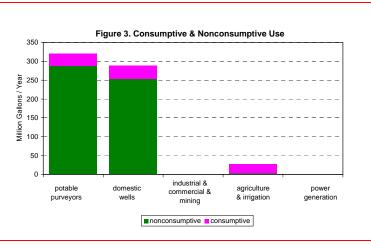


Table 4. Average Sea	sonal ⁷ Use	- Nonconsul	mptive⁴ 8	Consump	tive⁵ (millic	ons of gallor	ıs)			
_	Wi	nter	Sp	ring	Sum	nmer	F	all	Year	y Avg.
Use Group	Noncon-	Consump-	Noncon-	Consump-	Noncon-	Consump-	Noncon-	Consump-	Noncon-	Consump-
	sumptive	tive	sumptive	tive	sumptive	tive	sumptive	tive	sumptive	tive
potable purveyors	81	0	75	5	62	21	69	6	287	32
domestic wells	58	0	60	4	74	26	62	6	253	36
industrial & commercial & mining	0	0	0	0	0	0	0	0	0	0
agricultural & non- agricultural irrig.	0	0	1	5	2	16	0	4	3	25
power generation	0	0	0	0	0	0	0	0	0	0
SUM:	139	0	135	14	137	63	132	16	543	93

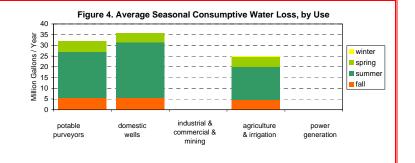


Table 5. Sewage Gen	eration & Tra	ansfers ⁸ in	the HUC11	(millions	of gallons)						
	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	average
generated in HUC11	467	535	531	572	591	583	668	604	633	632	582
imported to HUC11	101	127	132	149	175	169	205	196	200	202	166
exported from HUC11	1	2	5	5	5	4	5	4	4	4	4

Table 9. HUC11 Descriptive Statistics

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

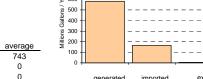


	Figure 5. A	Average : eration &		n-		F	ig (6. Aver Disc	_				ıen	t		
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100	-		 		t	_			-	 		_			-	
	generated in HUC11	imported	exporte	ed				fres wat			ckis ater	'n		salt vate		·

Table 7. 1999 Wate			in HUC11 b
W	'ater S	Source	_
Water Source		MGY	_
surface water		118	
ground water		196	
	total	314	
			

sum:

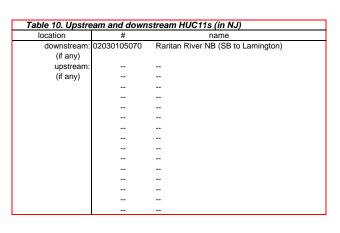
destination

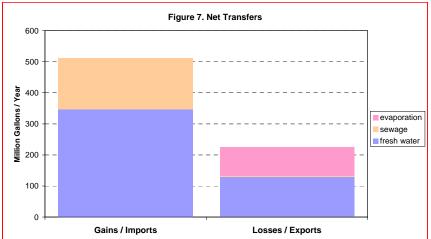
brackish water

salt water

ground water	196	
total	314	
Table 8. 1999 Water Alloca	tions ¹⁰ in .	HUC11 by
Water Use (Group	-
Use Group		MGY
agricultural		37
commercial		0
industrial		0
irrigation		150
mining		0
potable supply		127
power generation		0
-	total	314

	JC11 only	64.0	sq. mi.
	HUC11s	0.0	sq. mi.
total wa	atershed	64.0	sq. mi.
(this HUC11	onshore area:	64.0	sq. mi.)
Populatio	on of this HU(C11:	
Year	Population	Change	
1940	7,865	-	_'
1950	9,592	22.0%	
1960	13,555	41.3%	
1970	18,804	38.7%	
1980	21,474	14.2%	
1990	24,835	15.7%	
2000	29,087	17.1%	
2010	30,635	5.3%	est.12
2020	31,446	2.6%	est.12
2030	33,584	6.8%	est.12
Land Use	of this HUC		
Type	Yea	1995	 Change
	21.2%	19.8%	-1.4%
ag. barren	0.3%	0.6%	0.4%
forest	48.9%	45.5%	-3.5%
	40.9%		4.5%
urhan	22 50/	28 Uo/	
urban	23.5%	28.0%	
water	0.7%	0.7%	0.0%
water wetlands	0.7% 5.4% HUC11 in:	0.7%	0.0%
water wetlands % of this Pine	0.7% 5.4%	0.7%	0.0%



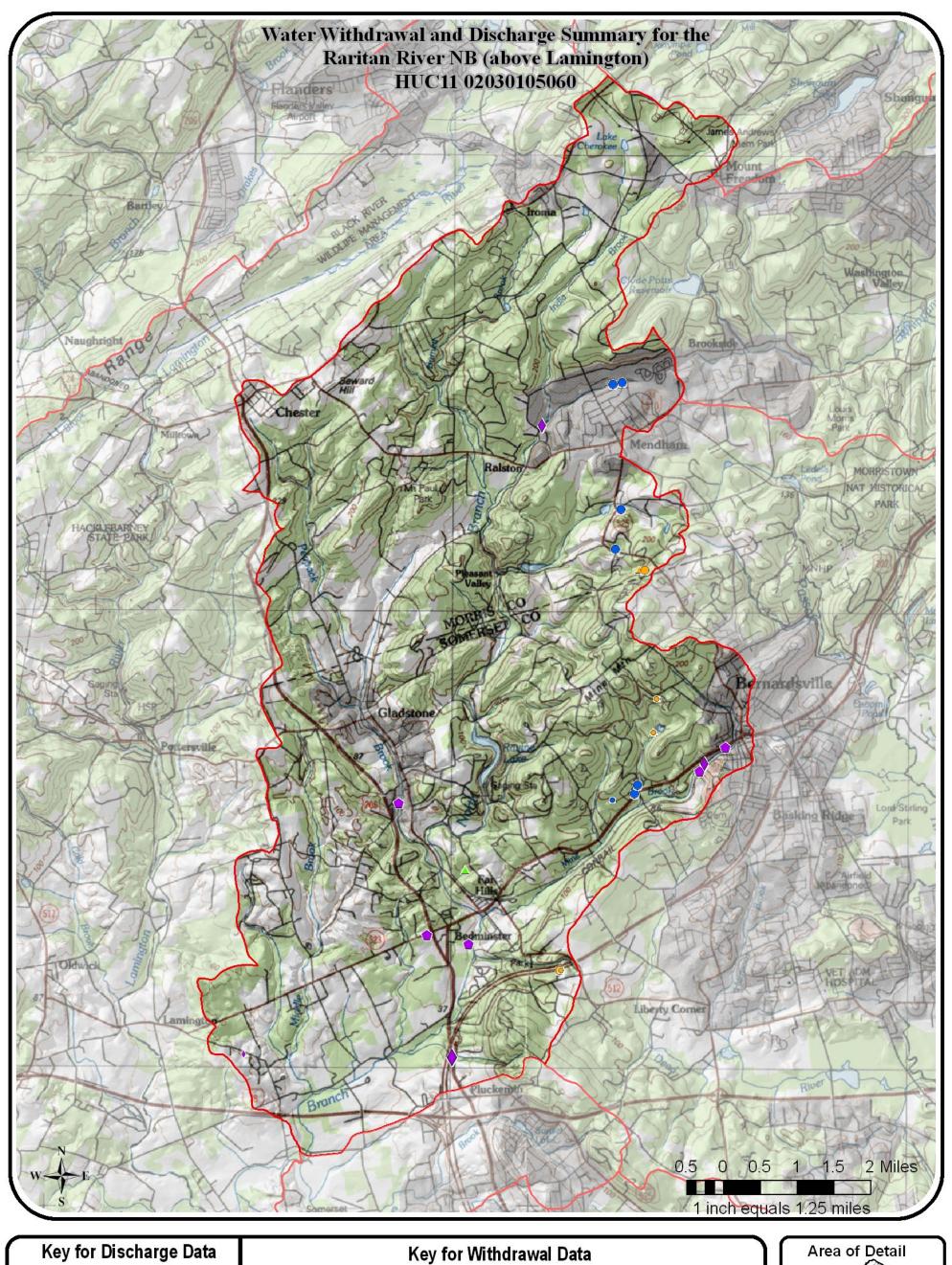


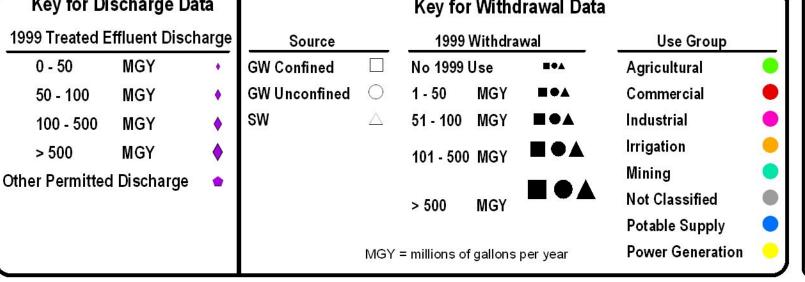
NOTES:

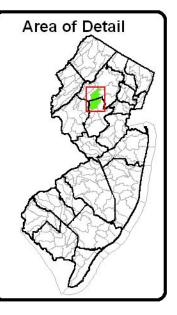
- 1 Salt and brackish water withdrawal and use is not included in this data.
- 2 This does not account for water released from onstream reservoirs for downstream intakes.
- 3 Includes both permitted ground-water withdrawals and estimated domestic well withdrawals. 4 Nonconsumptive water use refers to 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.

2006 New Jersey Water Supply Plan

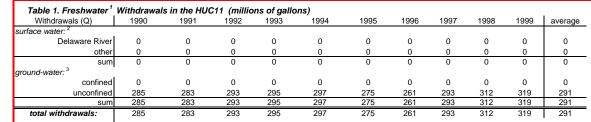






Water Withdrawals, Transfers and Discharges for NORTH BRANCH RARITAN RIVER (SOUTH BRANCH TO LAMINGTON R.) --- 02030105070

WMA:	North and South Branch Raritan	08	
HUC11:	North Branch Raritan River (South Branch to Lamington)	02	030105070





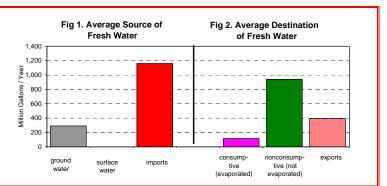


Table 3. Nonconsumpt	tive⁴ & Coı	nsumptive⁵	Water Use	e ⁶ in the H	UC11, by Us	se Type (mi	llions of g	allons)			
Water use	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	average
potable purveyors											
nonconsumptive	704	686	636	677	786	796	764	789	801	826	746
consumptive	74	76	69	87	92	95	88	96	101	106	88
domestic wells											
nonconsumptive	183	184	185	188	190	191	192	193	195	197	190
consumptive	26	26	26	26	27	27	27	27	27	28	27
industrial & commercial & mir	ning										
nonconsumptive	0	0	0	0	0	0	1	9	10	11	3
consumptive	0	0	0	0	0	0	0	1	1	1	0
agricultural & non-agricultural	irrigation										
nonconsumptive	0	0	0	0	0	0	0	0	0	0	0
consumptive	1	1	2	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	888	870	822	865	976	987	957	992	1,005	1,034	939
consumptive	101	103	97	113	118	121	115	124	130	135	116
PERCENTAGES:					•	•					
nonconsumptive	89.8%	89.4%	89.4%	88.4%	89.2%	89.0%	89.3%	88.9%	88.6%	88.4%	89.0%
consumptive	10.2%	10.6%	10.6%	11.6%	10.8%	11.0%	10.7%	11.1%	11.4%	11.6%	11.0%

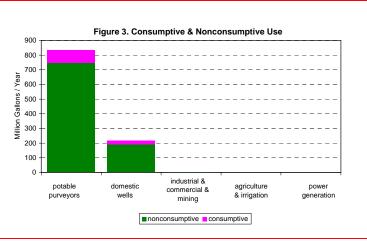


Table 4. Average Sea	isonal' Use	- Nonconsul	mptive* 8	Consump	tive° (millio	ons of gallor	1s)			
	Wi	nter	Sp	ring	Sun	nmer	F	all	Year	ly Avg.
Use Group	Noncon-	Consump-	Noncon-	Consump-	Noncon-	Consump-	Noncon-	Consump-	Noncon-	Consump-
	sumptive	tive	sumptive	tive	sumptive	tive	sumptive	tive	sumptive	tive
potable purveyors	200	0	196	13	174	60	179	15	748	88
domestic wells	44	0	45	3	55	19	46	4	190	27
industrial & commercial & mining	1	0	1	0	1	0	1	0	3	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:	244	0	241	16	230	80	226	20	941	116

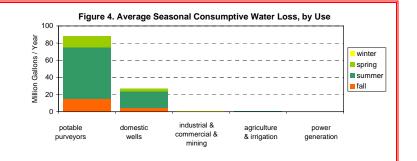
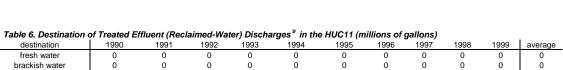


Table 5. Sewage Gen	eration & Tra	ansfers ⁸ in	the HUC11	(millions	of gallons)						
	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	average
generated in HUC11	1,139	1,185	1,152	1,256	1,284	1,184	1,554	1,352	1,285	1,091	1,248
imported to HUC11	0	0	0	0	0	0	0	0	0	0	0
exported from HUC11	1,139	1,185	1,152	1,256	1,284	1,184	1,554	1,352	1,285	1,091	1,248



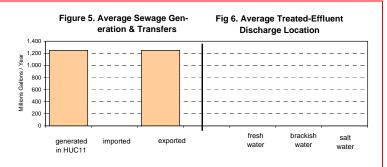


Table 7. 1999 Water A		10 ir	HUC11 by
	r Source		
Water Source	MGY		
surface water	0		
ground water	152		
tot	al 152		
		40	
	Jse Group		
	Jse Group		MGY 0
Water Use Group	Jse Group		MGY
Water U Use Group agricultural	Jse Group		MGY 0
Water Use Group agricultural commercia	Jse Group		MGY 0 0
Water Use Group agricultural commercia industrial	Jse Group		MGY 0 0 37
Water Use Group agricultural commercia industrial irrigation	Jse Group		MGY 0 0 37 0
Water Use Group agricultural commercia industrial irrigation mining	Use Group		MGY 0 0 37 0

sum:

salt water

		20.0	34. 1111.
upstream HUC11s		163.3	sq. mi.
total watershed		188.8	sq. mi.
(this HUC11 onshore area:		25.5	sq. mi.)
Populatio	on of this HUC	:11:	
Year	Population		
1940	2,568	-	_
1950	3,875	50.9%	
1960	6,761	74.5%	
1970	11,243	66.3%	
1980	12,219	8.7%	
1990	15,155	24.0%	
2000	19,719	30.1%	
2010	20,803	5.5%	est.12
2020	21,597	3.8%	est.12
2030	22,372	3.6%	est.12
I and I lea	of this HIIC	11.	
	of this HUC1		
Land Use Type	of this HUC1 Yea 1986		- Change
	Yea	ar	- Change
Туре	Yea 1986	ar 1995	
Type ag.	1986 19.4%	1995 14.7%	-4.7%
Type ag. barren	1986 19.4% 1.8%	1995 14.7% 1.0%	-4.7% -0.8%
Type ag. barren forest	1986 19.4% 1.8% 27.3%	1995 14.7% 1.0% 26.2%	-4.7% -0.8% -1.1%
ag. barren forest urban	1986 19.4% 1.8% 27.3% 41.0%	1995 14.7% 1.0% 26.2% 47.7%	-4.7% -0.8% -1.1% 6.7%
ag. barren forest urban water wetlands	1986 19.4% 1.8% 27.3% 41.0% 0.8%	1995 14.7% 1.0% 26.2% 47.7% 0.9%	-4.7% -0.8% -1.1% 6.7% 0.0%
Type ag. barren forest urban water wetlands % of this Pinel	1986 19.4% 1.8% 27.3% 41.0% 0.8% 9.6%	1995 14.7% 1.0% 26.2% 47.7% 0.9%	-4.7% -0.8% -1.1% 6.7% 0.0%

Table 9. HUC11 Descriptive Statistics

25.5 sq. mi.

in this HUC11 only

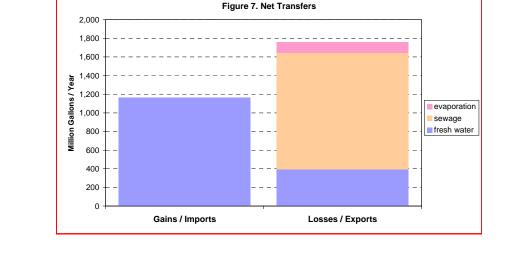
location	#	name	
	02030105080	Raritan River Lower (Millstone to NB/SB)	
(if any)	02000100000	rtaritari rtiror zerror (immotorio to 112,02)	
upstream:	02030105050	Lamington River	
(if any)	02030105060	Raritan River NB (above Lamington)	

NOTES:

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- 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.
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2006 New Jersey Water Supply Plan



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

