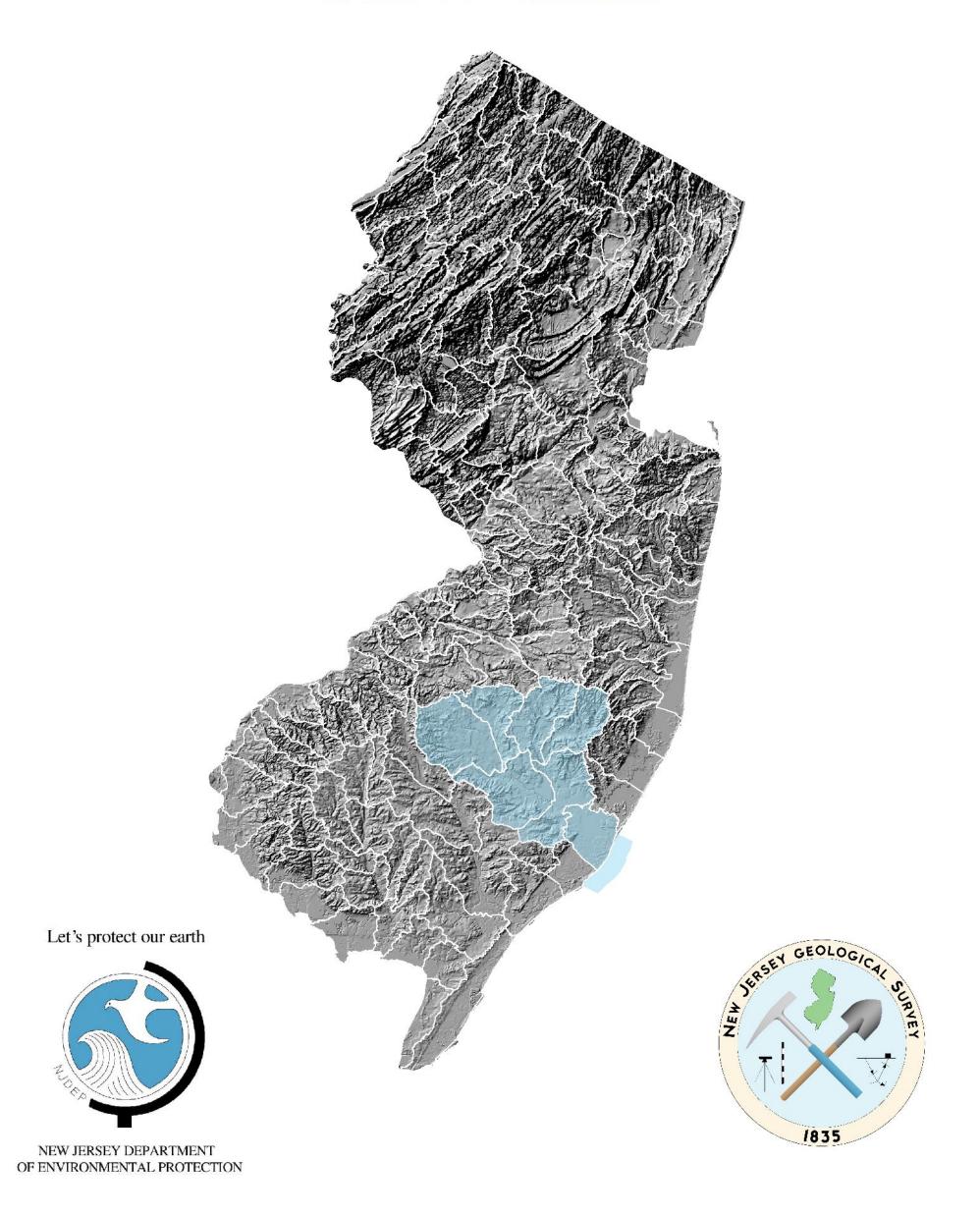
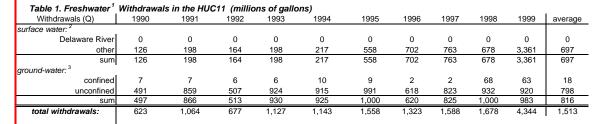
New Jersey Water Withdrawals, Uses, Transfers, and Discharges by HUC11, 1990 to 1999

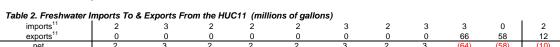
Appendix 14: HUC11 Tables, Figures and Maps WMA 14 - Mullica



Water Withdrawals, Transfers and Discharges for BATSTO RIVER --- 02040301150

WMA:	Mullica and Wading	14		
HUC11:	Batsto River	02	040301150	





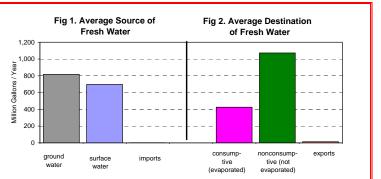


Table 3. Nonconsumptive ⁴ & Consumptive ⁵ Water Use ⁶ in the HUC11, by Use Type (millions of gallons)											
Water use	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	average
potable purveyors											
nonconsumptive	2	2	2	2	2	2	2	2	2	2	2
consumptive	0	1	1	1	1	1	1	1	1	1	1
domestic wells											
nonconsumptive	205	205	207	210	212	215	218	221	223	225	214
consumptive	29	29	29	30	30	30	31	31	31	32	30
industrial & commercial & mir	ning										
nonconsumptive	2	2	1	2	81	3	2	2	2	44	14
consumptive	0	0	0	0	8	0	0	0	0	5	1
agricultural & non-agricultura	l irrigation										
nonconsumptive	204	296	246	402	424	831	860	965	822	3,374	842
consumptive	178	527	189	481	382	472	209	368	529	600	393
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	413	506	456	615	719	1,052	1,082	1,190	1,050	3,646	1,073
consumptive	207	557	219	511	421	503	240	400	561	637	426
PERCENTAGES:	•										
nonconsumptive	66.6%	47.6%	67.5%	54.6%	63.0%	67.7%	81.9%	74.8%	65.2%	85.1%	71.6%
consumptive	33.4%	52.4%	32.5%	45.4%	37.0%	32.3%	18.1%	25.2%	34.8%	14.9%	28.4%

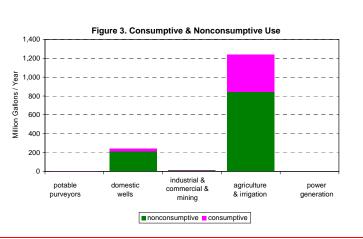


Table 4. Average Sea	sonal ⁷ Use	- Nonconsu	mptive⁴ 8	Consump	tive ⁵ (millio	ons of gallor	ıs)			
	Wi	nter	Sp	ring	Sun	nmer	F	all	Year	ly Avg.
Use Group	Noncon-	Consump-	Noncon-	Consump-	Noncon-	Consump-	Noncon-	Consump-	Noncon-	Consump-
	sumptive	tive	sumptive	tive	sumptive	tive	sumptive	tive	sumptive	tive
potable purveyors	2	0	1	0	1	1	2	0	6	1
domestic wells	49	0	50	4	62	22	52	5	214	30
industrial & commercial & mining	3	0	4	0	4	0	4	0	14	1
agricultural & non- agricultural irrig.	313	1	245	61	125	292	159	40	842	393
power generation	0	0	0	0	0	0	0	0	0	0
SUM:	367	1	301	65	192	314	216	45	1,077	426

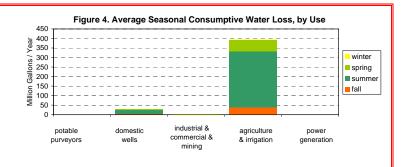


Table 5. Sewage Generation & Transfers state HUC11 (millions of gallons)											
	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	average
generated in HUC11	0	0	0	0	0	0	0	0	0	0	0
imported to HUC11	0	0	0	0	0	0	0	0	0	0	0
exported from HUC11	0	0	0	0	0	0	0	0	0	0	0

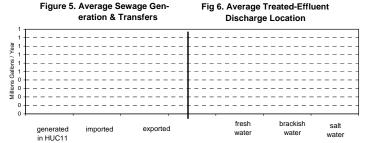
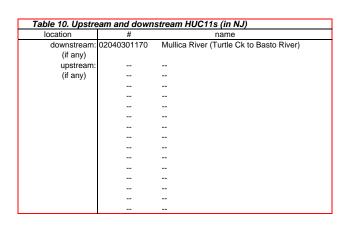


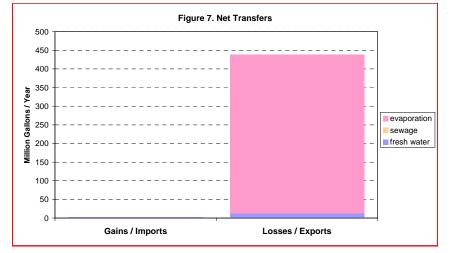
Table 6. Destination of	of Treated E	ffluent (Pec	laimod-Wa	tor) Discha	race ⁹ in the	a HIIC11 (m	nillions of	gallone)			
destination	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	average
fresh water	0	0	0	0	0	0	0	0	0	0	0
brackish water	0	0	0	0	0	0	0	0	0	0	0
salt water	0	0	0	0	0	0	0	0	0	0	0
eum.	Λ	Λ	Λ	Λ	Λ	Λ	Λ	Λ	Λ	Λ	٥

Table 7. 1999 Water Al	locations [™] Source	in	HUC11 by
Water Source	MGY	_	
surface water	3,971		
ground water	5,659		
tota	al 9,630	_	
Table 8. 1999 Water Al	locations 10	in	HUC11 by
		in	HUC11 by
	Ise Group	in	MGY
Water U	Ise Group	in	
Water L Use Group	Ise Group	in	MGY
Water L Use Group agricultural	Ise Group	in	MGY 9,291
Water L Use Group agricultural commercial	Ise Group	in	MGY 9,291 37
Water L Use Group agricultural commercial industrial	Ise Group	in	MGY 9,291 37 131
Water L Use Group agricultural commercial industrial irrigation	Jse Group	in	MGY 9,291 37 131 0
Water L Use Group agricultural commercial industrial irrigation mining	Jse Group	in	MGY 9,291 37 131 0

Area:			
in this HU	C11 only	67.9	sq. mi.
upstream	HUC11s	0.0	sq. mi.
total wat	ershed	67.9	sq. mi.
(this HUC11 o	nshore area:	67.9	sq. mi.)
Populatio	of this HUC	211:	
Year	Population		
1940	652	-	-
1950	1,074	64.8%	
1960	1,442	34.3%	
1970	2,062	43.0%	
1980	6,201	200.8%	
1990	7,521	21.3%	
2000	7,795	3.7%	
2010	8,595	10.3%	est.12
2020	9,590	11.6%	est.12
2030	10,723	11.8%	est.12
I and I lea	of this HUC	11.	
	Yea		
Type	1986	1995	 Change
ag.	9.7%	9.3%	-0.4%
barren	0.2%	0.2%	0.0%
forest	54.6%	53.9%	-0.7%
urban	4.4%	5.4%	1.0%
water	1.2%	1.2%	-0.1%
wetlands	30.0%	30.1%	0.1%
0/ 6/1:			•
% of this I		400.00/	
Pinela		100.0%	
Highla	inus:	0.0%	

Table 9. HUC11 Descriptive Statistics

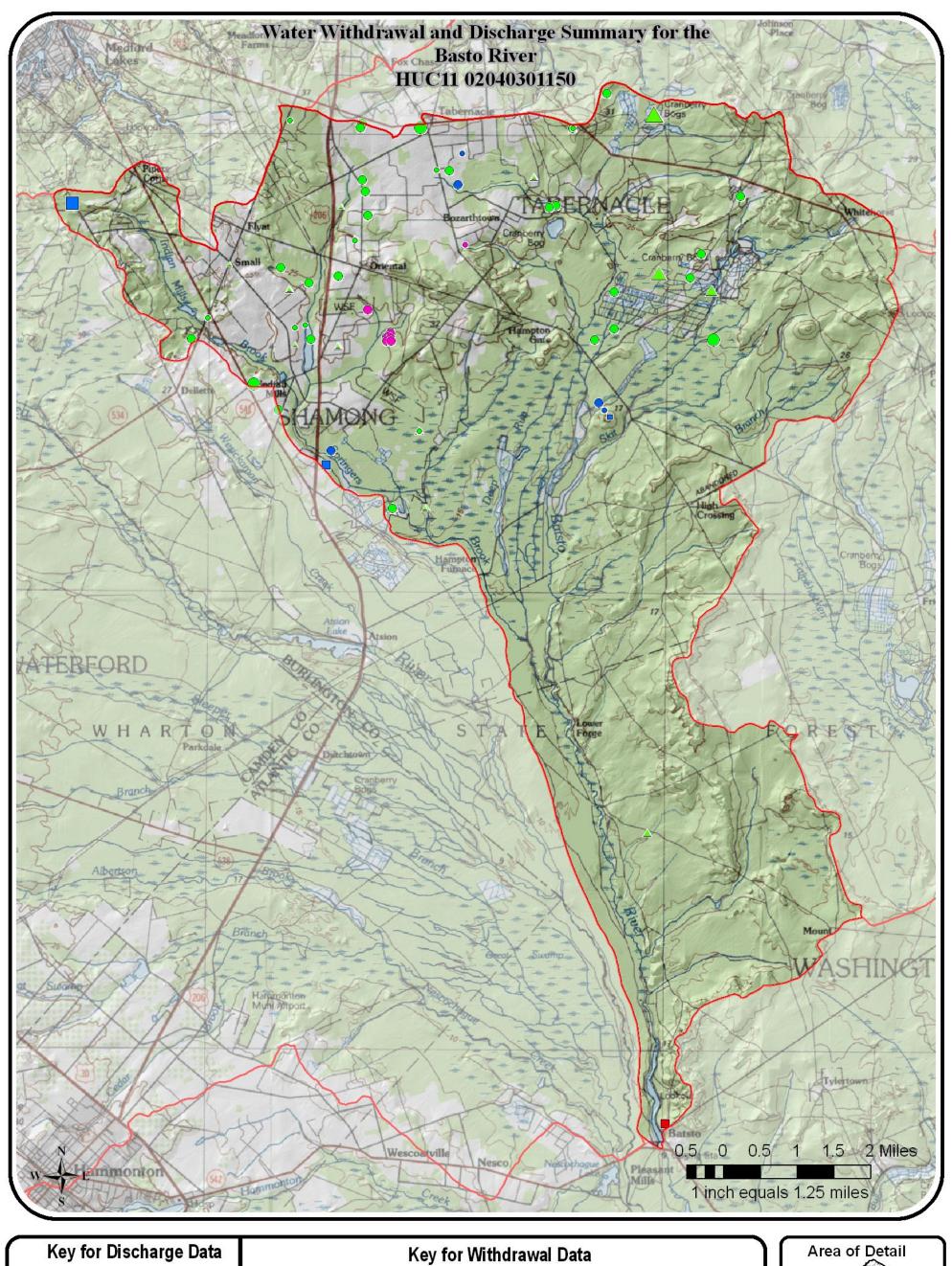


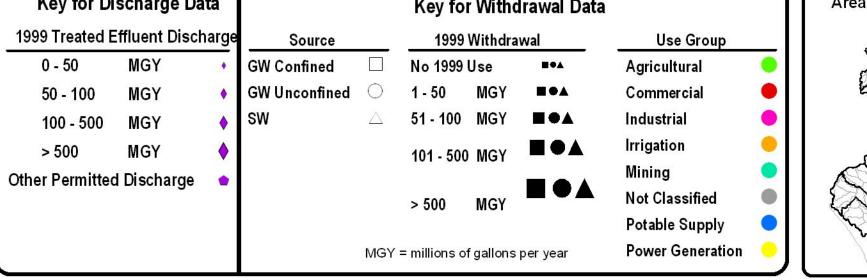


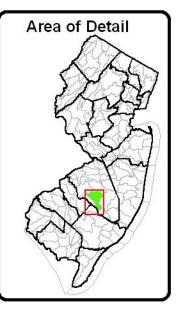
NOTES:

- 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.
- 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.



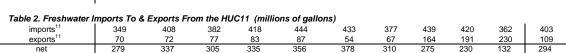


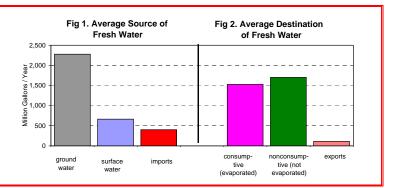


Water Withdrawals, Transfers and Discharges for MULLICA RIVER (ABOVE BASTO RIVER) --- 02040301160

WMA:	Mullica and Wading	14	
HUC11:	Mullica River (above Batsto River)	02	040301160

Table 1. Freshwater 1	Withdrawal	s in the HUC	C11 (millio	ns of gallo	ns)						
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	306	1,405	549	755	275	619	825	645	572	684	663
sum	306	1,405	549	755	275	619	825	645	572	684	663
ground-water: 3											
confined	125	134	143	154	143	91	103	122	52	235	130
unconfined	1,747	2,025	1,732	2,308	1,865	2,641	2,285	2,257	2,347	2,268	2,148
sum	1,872	2,159	1,875	2,463	2,008	2,732	2,388	2,379	2,399	2,503	2,278
total withdrawals:	2,178	3,565	2,424	3,218	2,283	3,351	3,213	3,024	2,971	3,187	2,941





Water use	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	average
potable purveyors											
nonconsumptive	484	534	504	533	561	538	486	547	579	647	541
consumptive	63	74	68	75	76	76	66	80	84	80	74
domestic wells											
nonconsumptive	912	914	918	923	926	931	935	939	943	947	929
consumptive	128	129	129	130	130	131	132	132	133	133	131
industrial & commercial & min	ning										
nonconsumptive	59	23	28	15	6	8	7	14	20	11	19
consumptive	7	3	3	2	1	1	1	2	2	1	2
agricultural & non-agricultural	irrigation										
nonconsumptive	85	236	116	203	176	277	433	212	158	224	212
consumptive	702	1,971	950	1,666	760	1,764	1,460	1,370	1,278	1,269	1,319
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	1,541	1,707	1,567	1,674	1,668	1,753	1,861	1,711	1,699	1,829	1,701
consumptive	900	2,177	1,151	1,873	967	1,972	1,657	1,584	1,497	1,484	1,526
PERCENTAGES:											
nonconsumptive	63.1%	44.0%	57.6%	47.2%	63.3%	47.1%	52.9%	51.9%	53.2%	55.2%	52.7%
consumptive	36.9%	56.0%	42.4%	52.8%	36.7%	52.9%	47.1%	48.1%	46.8%	44.8%	47.3%

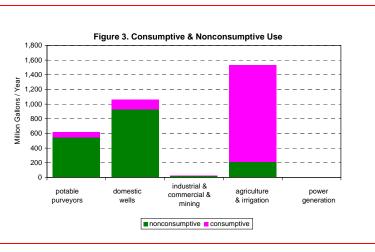


Table 4. Average Sea	sonal ⁷ Use	- Nonconsu	mptive⁴ 8	Consump	tive ⁵ (millio	ons of gallor	1s)			
	Wi	nter	Sp	ring	Sun	nmer	F	all	Yearl	ly Avg.
Use Group	Noncon-	Consump-	Noncon-	Consump-	Noncon-	Consump-	Noncon-	Consump-	Noncon-	Consump-
	sumptive	tive	sumptive	tive	sumptive	tive	sumptive	tive	sumptive	tive
potable purveyors	128	0	134	10	151	53	136	12	549	74
domestic wells	213	0	219	16	270	94	226	21	929	131
industrial & commercial & mining	4	0	5	1	6	1	4	0	19	2
agricultural & non- agricultural irrig.	30	140	47	263	90	681	45	235	212	1,319
power generation	0	0	0	0	0	0	0	0	0	0
SUM:	375	140	405	290	518	828	411	268	1,709	1,526

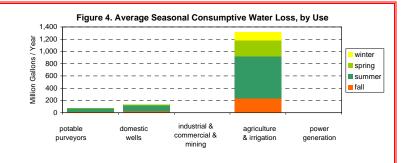


Table 5. Sewage Generation & Transfers tin the HUC11 (millions of gallons)											
	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	average
generated in HUC11	952	98	1,474	727	2,702	2,437	2,771	2,632	2,598	2,588	1,898
imported to HUC11	0	0	0	0	0	0	0	0	0	0	0
exported from HUC11	952	98	1,474	727	2,702	2,437	2,771	2,632	2,598	2,588	1,898

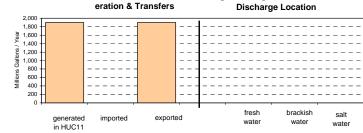


Fig 6. Average Treated-Effluent

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	2,098					
ground water	9,337					
tota	ıl 11,435					
Table 8. 1999 Water All	locations ¹⁰	in HUC11 by				
Water Use Group						
Use Group		MGY				
agricultural		10,456				
commercial		0				
industrial		74				
irrigation		37				
mining		0				
potable suppl	У	867				
power generati	on	0				
	tot	al 11,435				

Table 7. 1999 Water Allocations 10 in HUC11 by

Area:			
in this HU	C11 only	127.3	sq. mi.
upstream	HUC11s	0.0	sq. mi.
total wa	tershed	127.3	sq. mi.
(this HUC11 o	onshore area:	127.3	sq. mi.)
Populatio	n of this HUC	C11:	
Year	Population	Change	
1940	11,106	-	_
1950	12,260	10.4%	
1960	16,801	37.0%	
1970	21,361	27.1%	
1980	34,221	60.2%	
1990	43,433	26.9%	
2000	46,303	6.6%	
2010	50,715	9.5%	est.12
2020	54,915	8.3%	est.12
2030	59,087	7.6%	est.12
I and I laa	of this HUC1	11.	
Land Use	Yea		
Type	1986	1995	 Change
ag.	15.6%	14.7%	-1.0%
barren	0.8%	0.7%	-0.1%
forest	42.5%	42.5%	0.0%
urban	10.7%	11.7%	1.1%
water	1.3%	1.3%	0.0%
wetlands	29.2%	29.1%	0.0%
		==::/0	2.070
Wouldings			
% of this			
	HUC11 in:	99.9%	

Table 9. HUC11 Descriptive Statistics

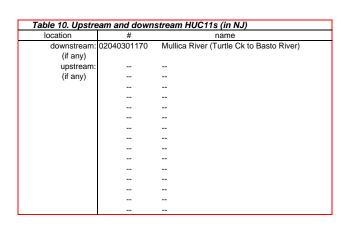
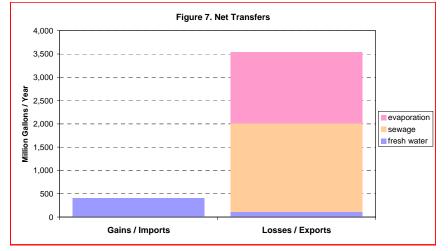


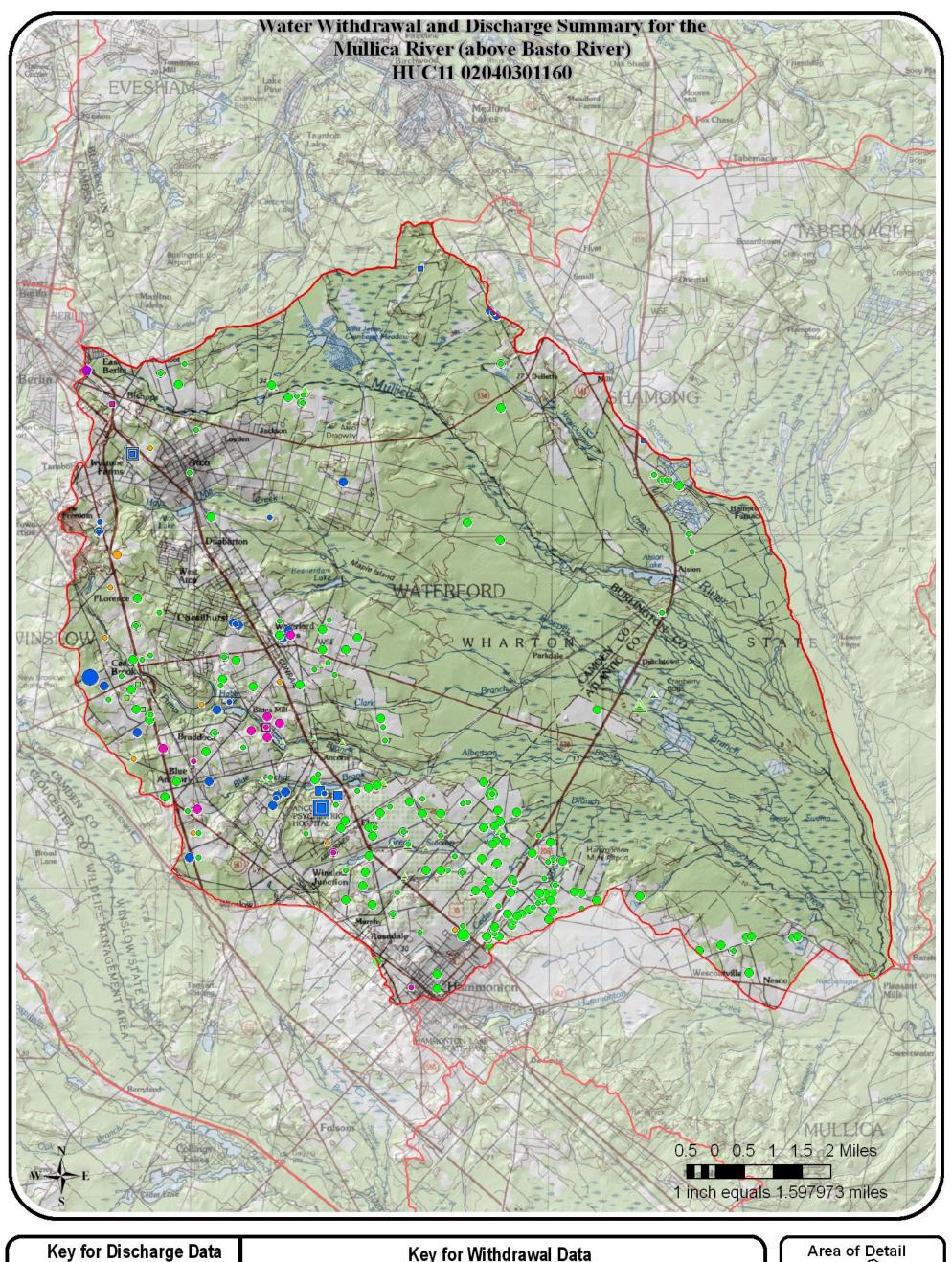
Figure 5. Average Sewage Gen-

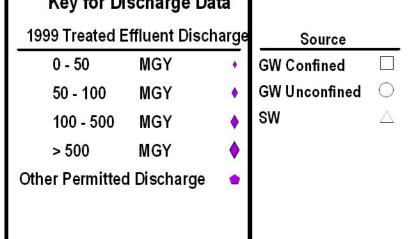


NOTES:

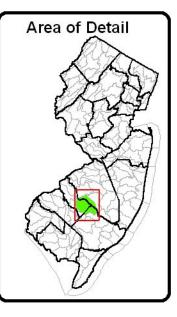
- 1 Salt and brackish water withdrawal and use is not included in this data.
- 2 This does not account for water released from onstream reservoirs for downstream intakes.
- 3 Includes both permitted ground-water withdrawals and estimated domestic well withdrawals. 4 Nonconsumptive water use refers to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



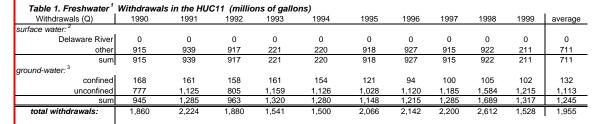


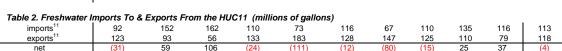
Ney for Withdrawai Data									
Source	Use Group								
GW Confined		No 1999 l	Jse	HOA	Agricultural				
SW Unconfined	\bigcirc	1 - 50	MGY		Commercial				
SW	\triangle	51 - 100	MGY		Industrial				
		101 - 500	MGY		Irrigation				
		101 - 300	WOI		Mining				
		> 500	MGY		Not Classified				
					Potable Supply				
	MGY =	millions of	gallons	per year	Power Generation	lacksquare			



Water Withdrawals, Transfers and Discharges for MULLICA RIVER (TURTLE CK TO BASTO RIVER) --- 02040301170

WMA:	Mullica and Wading	14	
HUC11:	Mullica River (Turtle Ck to Batsto River)	02	040301170





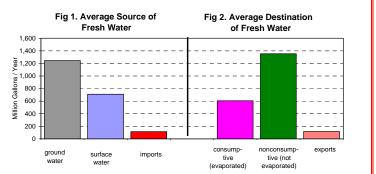


Table 3. Nonconsump	tive⁴ & Co	nsumptive⁵	Water Use	e ⁶ in the H	UC11, by Us	se Type (mi	llions of g	allons)			
Water use	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	average
potable purveyors											
nonconsumptive	328	347	320	338	351	336	307	328	344	299	330
consumptive	41	48	42	49	48	46	40	47	51	43	46
domestic wells											
nonconsumptive	241	244	250	258	263	269	275	280	288	295	266
consumptive	34	34	35	36	37	38	39	40	41	42	38
industrial & commercial & mir	ning										
nonconsumptive	9	10	13	17	15	50	10	14	15	6	16
consumptive	9	10	7	15	7	35	7	9	10	6	11
agricultural & non-agricultural	irrigation										
nonconsumptive	867	921	932	266	274	919	936	933	1,029	344	742
consumptive	300	671	385	538	394	361	448	535	867	612	511
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	1,445	1,521	1,516	879	904	1,574	1,528	1,555	1,675	943	1,354
consumptive	384	763	470	638	486	480	535	631	969	703	606
PERCENTAGES:											
nonconsumptive	79.0%	66.6%	76.3%	57.9%	65.0%	76.6%	74.1%	71.1%	63.3%	57.3%	69.1%
consumptive	21.0%	33.4%	23.7%	42.1%	35.0%	23.4%	25.9%	28.9%	36.7%	42.7%	30.9%

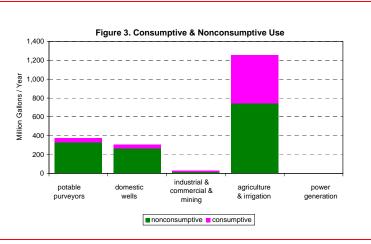


Table 4. Average Seasonal ⁷ Use - Nonconsumptive ⁴ & Consumptive ⁵ (millions of gallons)										
	Wi	nter	Sp	ring	Sun	nmer	Fall		Yearly Avg.	
Use Group	Noncon-	Consump-	Noncon-	Consump-	Noncon-	Consump-	Noncon-	Consump-	Noncon-	Consump-
	sumptive	tive	sumptive	tive	sumptive	tive	sumptive	tive	sumptive	tive
potable purveyors	75	0	81	6	93	32	82	8	330	46
domestic wells	61	0	62	5	78	27	65	6	266	38
industrial & commercial & mining	3	2	4	3	5	4	4	3	16	11
agricultural & non- agricultural irrig.	215	2	197	62	158	380	172	67	742	511
power generation	0	0	0	0	0	0	0	0	0	0
SUM:	354	4	344	76	334	443	323	83	1,354	606

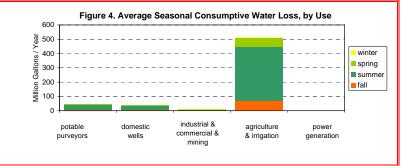
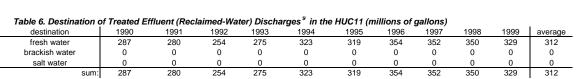


Table 5. Sewage Generation & Transfers ⁸ in the HUC11 (millions of gallons)											
	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	average
generated in HUC11	628	580	513	541	561	543	593	584	604	559	571
imported to HUC11	187	184	169	183	215	212	235	234	233	218	207
exported from HUC11	375	418	428	449	453	436	474	466	486	449	443



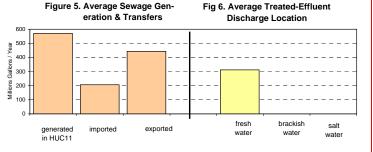


Table 7. 1999 Water Al		in HUC11 by
Water	Source	_
Water Source	MGY	_
surface water	521	
ground water	6,560	
tota	al 7,080	
		- "
Table 8. 1999 Water Al	locations 10	in HUC11 by
Water U	lse Group	•
Use Group		MGY
agricultural		6,159
commercial		74
industrial		0
irrigation		0
mining		0
•	lv	0 847
potable suppl power generati	•	Ü

Area:			
in this HU	C11 only	110.0	sq. mi.
upstream	HUC11s	195.2	sq. mi.
total wat	tershed	305.2	sq. mi.
(this HUC11 o	nshore area:	108.2	sq. mi.)
Populatio	n of this HUO	C11:	
Year	Population	Change	
1940	6,873	-	_
1950	7,615	10.8%	
1960	9,528	25.1%	
1970	10,567	10.9%	
1980	13,106	24.0%	
1990	15,684	19.7%	
2000	17,215	9.8%	
2010	53,718	212.0%	est.12
2020	66,209	23.3%	est.12
2030	82,830	25.1%	est.12
I and Uso	of this HUC	11.	
	Yea		
Type	1986	1995	 Change
ag.	7.6%	7.1%	-0.5%
ay. barren	0.5%	0.5%	-0.1%
forest	43.4%	43.2%	-0.2%
urban	6.7%	7.4%	0.7%
water	2.5%	2.5%	0.0%
wetlands	39.3%	39.3%	0.0%
% of this I			
Pinela		100.0%	
Liable	ands:	0.0%	

Table 9. HUC11 Descriptive Statistics

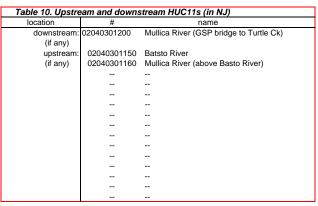
	ani and downs	stream HUC11s (in NJ)
location	#	name
downstream:	02040301200	Mullica River (GSP bridge to Turtle Ck)
(if any)		, ,
upstream:	02040301150	Batsto River
(if any)	02040301160	Mullica River (above Basto River)

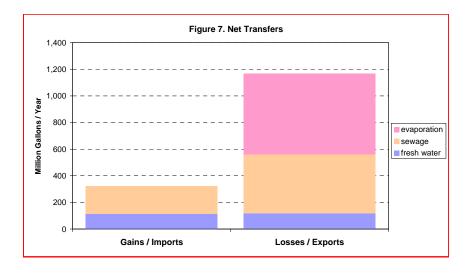
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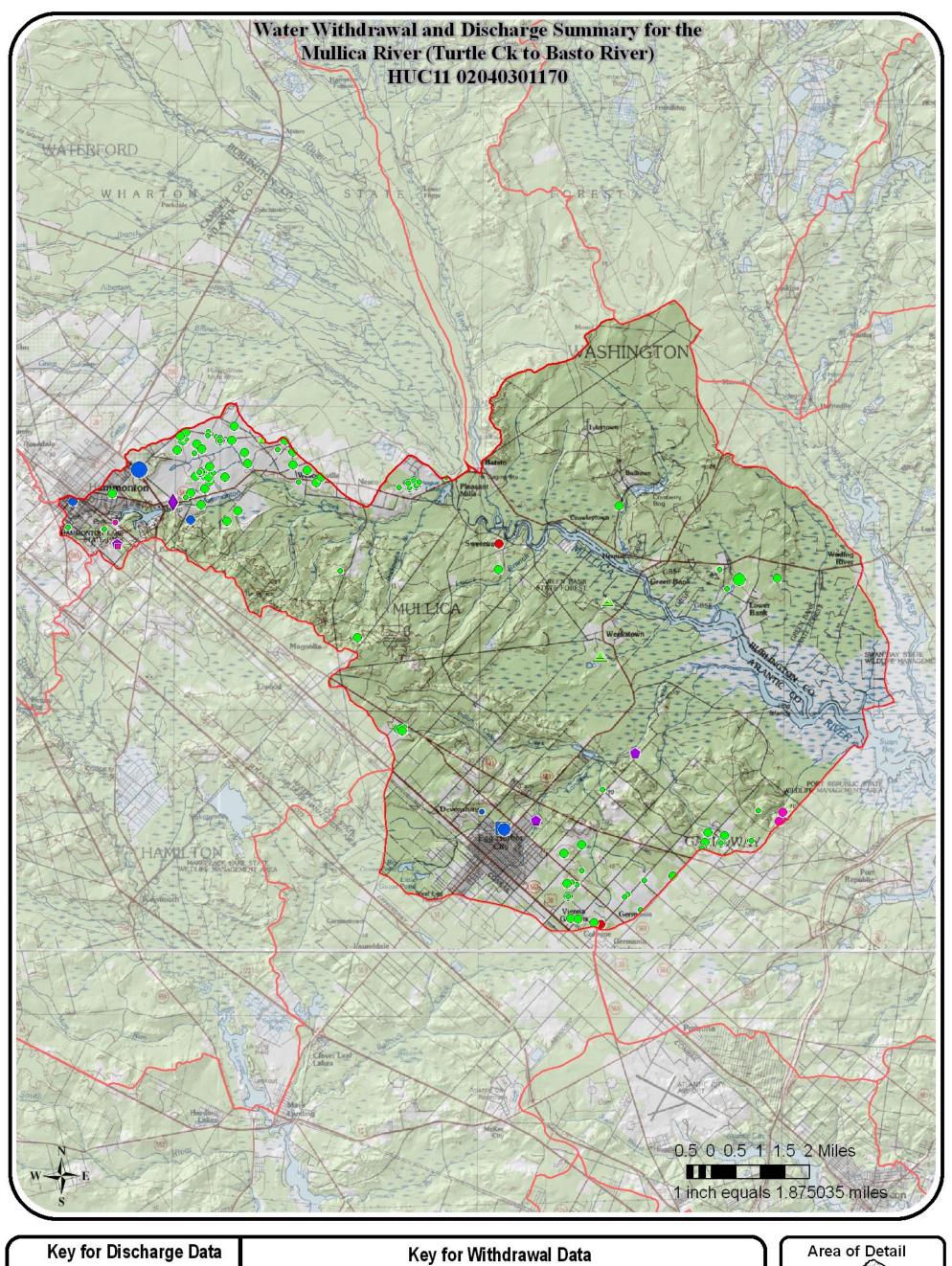
- 1 Salt and brackish water withdrawal and use is not included in this data
- 2 This does not account for water released from onstream reservoirs for downstream intakes.
- 3 Includes both permitted ground-water withdrawals and estimated domestic well withdrawals. 4 Nonconsumptive water use refers to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

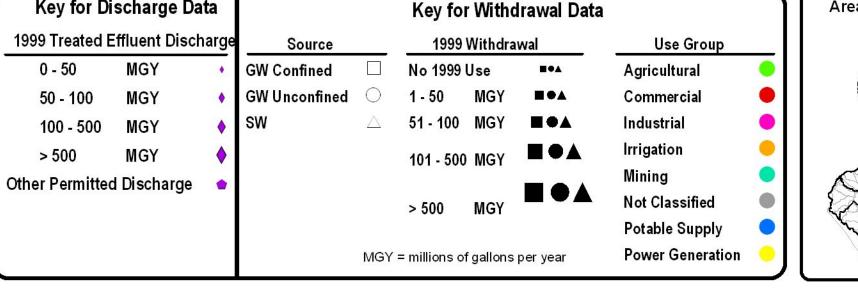
 11 Import and export volumes based on reported transfers between purveyors and on intersection of purveyor service areas with HUC11s.
- 12 Projected population estimates based on NJ Metropolitan Planning Organization estimates. 13 Subject to revision.
- $14\,$ Withdrawals for offstream reservoirs are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

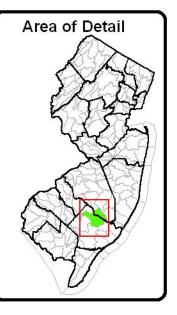






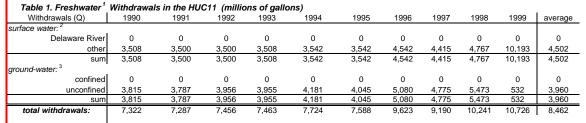


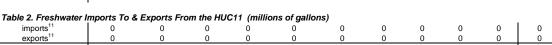




Water Withdrawals, Transfers and Discharges for OSWEGO RIVER --- 02040301180

WMA:	Mullica and Wading	14	
HUC11:	Oswego River	02	040301180





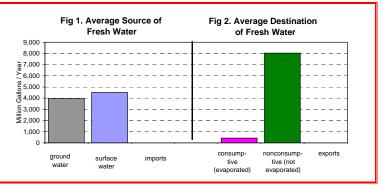


Table 3. Nonconsump	tive⁴ & Coı	nsumptive⁵	Water Use	e ⁶ in the H	UC11, by Us	e Type (mi	llions of g	allons)			
Water use	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	average
potable purveyors											
nonconsumptive	0	0	0	0	0	0	0	0	0	0	0
consumptive	0	0	0	0	0	0	0	0	0	0	0
domestic wells											
nonconsumptive	115	116	118	121	123	126	129	131	133	135	125
consumptive	16	16	17	17	17	18	18	18	19	19	18
industrial & commercial & mir	ning										
nonconsumptive	120	96	242	238	337	353	293	312	692	330	301
consumptive	16	13	33	32	46	48	40	43	94	45	41
agricultural & non-agricultural	irrigation										
nonconsumptive	6,813	6,805	6,805	6,813	6,940	6,702	8,535	8,208	8,817	9,563	7,600
consumptive	242	242	242	242	261	340	607	477	487	634	377
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	7,048	7,016	7,165	7,172	7,400	7,182	8,957	8,651	9,641	10,028	8,026
consumptive	275	271	292	291	324	406	665	538	600	698	436
PERCENTAGES:											
nonconsumptive	96.2%	96.3%	96.1%	96.1%	95.8%	94.7%	93.1%	94.1%	94.1%	93.5%	94.8%
consumptive	3.8%	3.7%	3.9%	3.9%	4.2%	5.3%	6.9%	5.9%	5.9%	6.5%	5.2%

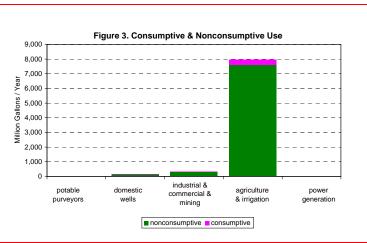


Table 4. Average Sea	sonal ⁷ Use	- Nonconsul	mptive⁴ &	Consump	tive⁵ (millio	ons of gallor	1S)			
Winter			Sp	ring	Sun	nmer	F	all	Year	ly Avg.
Use Group	Noncon-	Consump-	Noncon-	Consump-	Noncon-	Consump-	Noncon-	Consump-	Noncon-	Consump
	sumptive	tive	sumptive	tive	sumptive	tive	sumptive	tive	sumptive	tive
potable purveyors	0	0	0	0	0	0	0	0	0	0
domestic wells	29	0	29	2	36	13	31	3	125	18
industrial & commercial & mining	56	8	79	11	81	11	86	12	301	41
agricultural & non- agricultural irrig.	2,068	2	1,358	100	909	272	3,264	3	7,600	377
power generation	0	0	0	0	0	0	0	0	0	0
SUM:	2,152	10	1,467	113	1,027	295	3,381	18	8,026	436

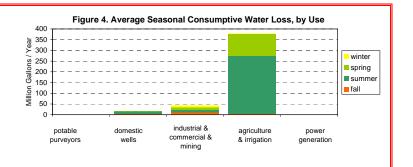
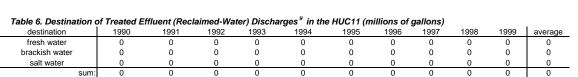


Table 5. Sewage Generation & Transfers ⁸ in the HUC11 (millions of gallons)											
	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	average
generated in HUC11	0	0	0	0	0	0	0	0	0	0	0
imported to HUC11	0	0	0	0	0	0	0	0	0	0	0
exported from HUC11	0	0	0	0	0	0	0	0	0	0	0



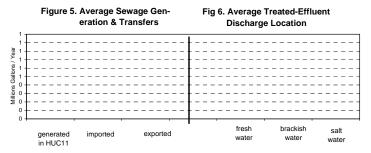
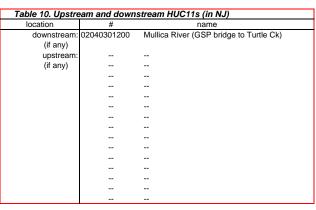


Table 7. 1999 Water			in HU	C11 by
	ter Sc		_	
Water Source		MGY	_	
surface water		12,139		
ground water		1,160		
	total	13,299		
Table 8. 1999 Water	Alloc	ations '	in HU	C11 by
			in HU	C11 by
	r Use	ations [™] Group		MGY
Wate	er Use		-	
Wate Use Gro	er Use oup ural		-	MGY
Wate Use Gro agricultu	er Use oup ural cial		-	MGY
Wate Use Gro agricultu commer	er Use oup ural cial ial		-	MGY 2,346 0
Wate Use Gro agricultu commer industri	oup oup oral cial ial			MGY 2,346 0
Wate Use Gro agricultu commer industri irrigatio	oup ural cial ial on			MGY 2,346 0 0
Wate Use Gro agricultu commer industri irrigatic mining	er Use oup ural cial ial on g			MGY 2,346 0 0 0 953

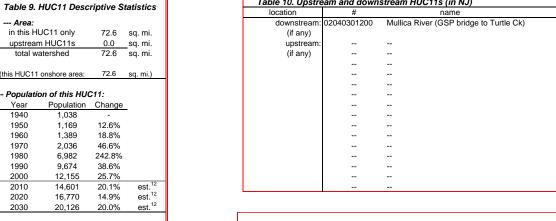
Area:			
in this HL	JC11 only	72.6	sq. mi.
upstream	HUC11s	0.0	sq. mi.
	tershed	72.6	sq. mi.
(this HUC11	onshore area:	72.6	sq. mi.)
Populatio	n of this HU(:11:	
Year	Population	Change	
1940	1.038	-	_
1950	1.169	12.6%	
1960	1,389	18.8%	
1970	2,036	46.6%	
1980	6,982	242.8%	
1990	9,674	38.6%	
2000	12,155	25.7%	
2010	14,601	20.1%	est.12
2020	16,770	14.9%	est.12
2030	20,126	20.0%	est.12
Lana Use	of this HUC		
Type	Yea		 Change
	1986	1995	0.00/
ag.	0.7%	0.6%	0.0% -0.2%
barren	0.8%	0.6%	
forest urban	76.5%	76.6%	0.1%
	0.8%	1.0%	0.1%
water	2.0%	2.0%	0.0%
wetlands	19.2%	19.2%	0.0%
% of this	HUC11 in:		
	ands:	100.0%	
Pinel			

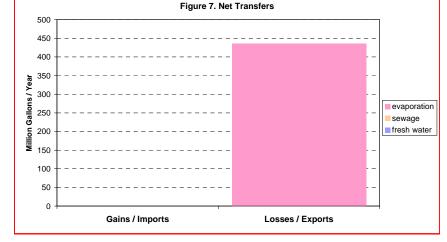


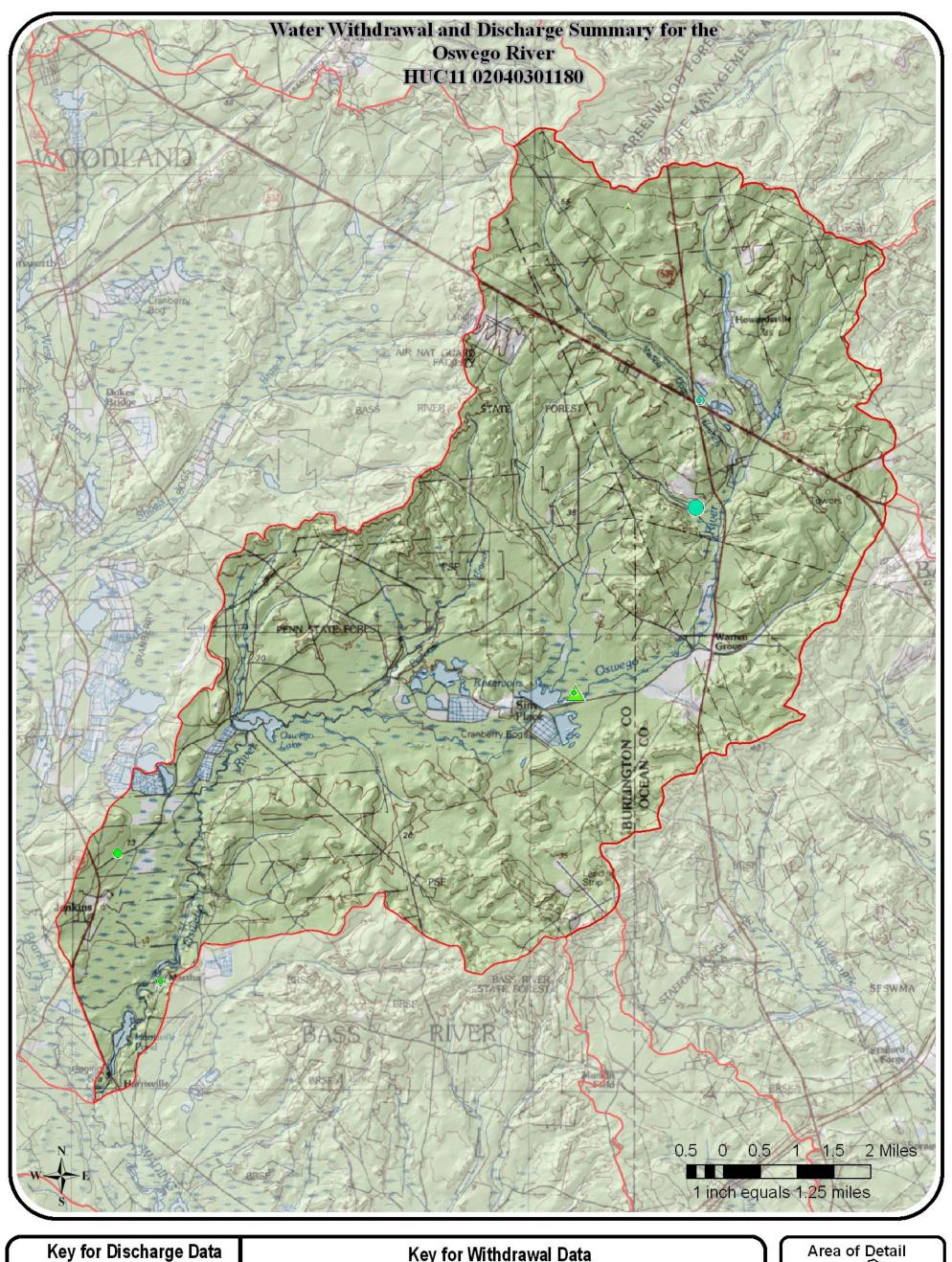
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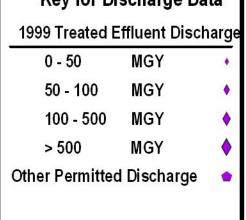
- 1 Salt and brackish water withdrawal and use is not included in this data
- 2 This does not account for water released from onstream reservoirs for downstream intakes.
- 3 Includes both permitted ground-water withdrawals and estimated domestic well withdrawals. 4 Nonconsumptive water use refers to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

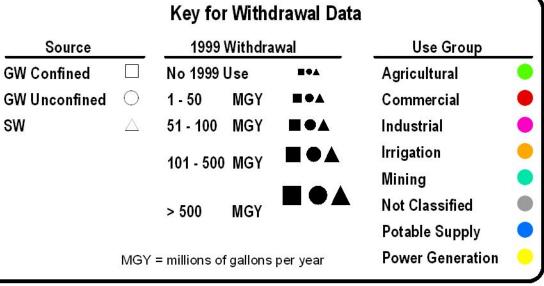
 11 Import and export volumes based on reported transfers between purveyors and on intersection of purveyor service areas with HUC11s.
- 12 Projected population estimates based on NJ Metropolitan Planning Organization estimates. 13 Subject to revision.
- $14\,$ Withdrawals for offstream reservoirs are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

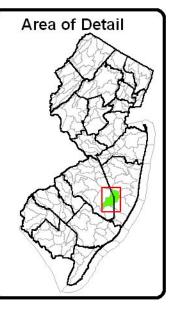






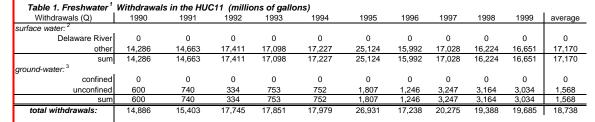


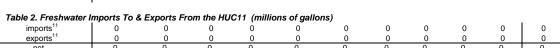


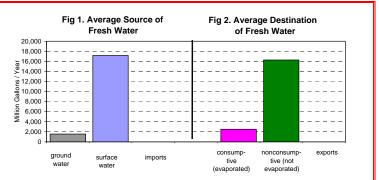


Water Withdrawals, Transfers and Discharges for WEST BRANCH WADING RIVER --- 02040301190









Water use	1990	1991	1992	1993	1994	se Type (mi 1995	1996	1997	1998	1999	overed
	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	73	73	74	74	75	75	76	76	77	77	75
consumptive	10	10	10	10	11	11	11	11	11	11	11
industrial & commercial & min	ning										
nonconsumptive	3	5	3	4	5	5	3	4	5	7	4
consumptive	1	3	1	3	3	3	1	1	2	4	2
agricultural & non-agricultural	irrigation										
nonconsumptive	12,260	12,666	14,403	14,526	14,577	23,754	15,012	18,683	18,084	17,931	16,190
consumptive	2,539	2,646	3,254	3,233	3,308	3,083	2,136	1,500	1,377	1,779	2,485
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	12,336	12,744	14,479	14,604	14,658	23,835	15,091	18,763	18,166	18,015	16,269
consumptive	2,550	2,658	3,266	3,246	3,321	3,096	2,148	1,512	1,390	1,794	2,498
PERCENTAGES:							· · · · · · · · · · · · · · · · · · ·				
nonconsumptive	82.9%	82.7%	81.6%	81.8%	81.5%	88.5%	87.5%	92.5%	92.9%	90.9%	86.7%
consumptive	17.1%	17.3%	18.4%	18.2%	18.5%	11.5%	12.5%	7.5%	7.1%	9.1%	13.3%

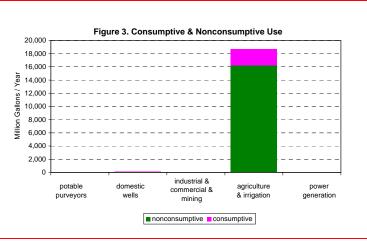


Table 4. Average Sea	sonal' Use	- Nonconsul	mptive⁴ 8	Consump	tive° (millio	ons of gallor	1s)			
	Winter		Sp	Spring		nmer	F	all	Year	ly Avg.
Use Group	Noncon-	Consump-	Noncon-	Consump-	Noncon-	Consump-	Noncon-	Consump-	Noncon-	Consump-
	sumptive	tive	sumptive	tive	sumptive	tive	sumptive	tive	sumptive	tive
potable purveyors	0	0	0	0	0	0	0	0	0	0
domestic wells	17	0	18	1	22	8	18	2	75	11
industrial & commercial & mining	0	0	0	0	2	2	2	1	4	2
agricultural & non- agricultural irrig.	4,353	230	4,318	595	3,954	1,428	3,565	233	16,190	2,485
power generation	0	0	0	0	0	0	0	0	0	0
SUM:	4,370	230	4,336	596	3,978	1,437	3,585	235	16,269	2,498

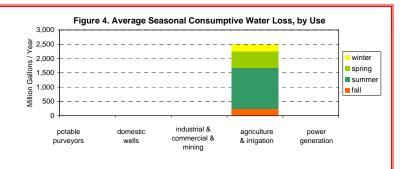
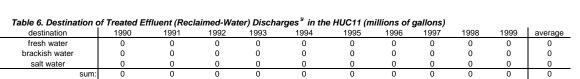


Table 5. Sewage Generation & Transfers ⁸ in the HUC11 (millions of gallons)											
	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	average
generated in HUC11	0	0	0	0	0	0	0	0	0	0	0
imported to HUC11	0	0	0	0	0	0	0	0	0	0	0
exported from HUC11	0	0	0	0	0	0	0	0	0	0	0



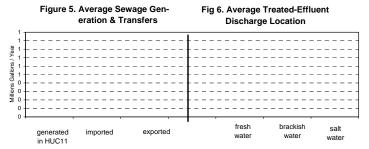
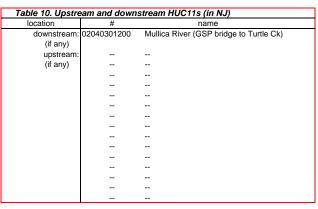


Table 7. 1999 Water Allo	cations 10	in l	HUC11 by
Water S	ource		
Water Source	MGY	_	
surface water	29,213		
ground water	29,089		
total	58,303		
Table 8 1000 Water Allo	cations ¹⁰	in	HIIC11 by
		in I	HUC11 by
Water Use		in	MGY MGY
		in	
Water Use Use Group		in	MGY
Water Use Use Group agricultural		in	MGY 58,228
Water Use Use Group agricultural commercial		in	MGY 58,228 37
Water Use Use Group agricultural commercial industrial		in	MGY 58,228 37 0
Water Use Use Group agricultural commercial industrial irrigation		in	MGY 58,228 37 0 37
Use Group agricultural commercial industrial irrigation mining	e Group	in	MGY 58,228 37 0 37

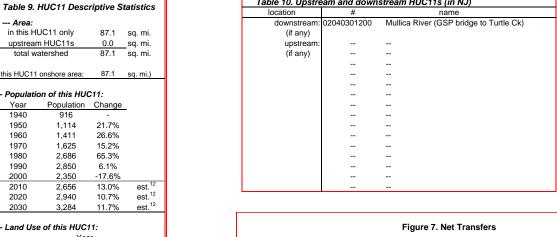
Area:			
in this HU	C11 only	87.1	sq. mi.
upstream	HUC11s	0.0	sq. mi.
total wa	tershed	87.1	sq. mi.
(this HUC11 o	onshore area:	87.1	sq. mi.)
Populatio	n of this HUO	211:	
Year	Population	Change	
1940	916	-	_
1950	1,114	21.7%	
1960	1,411	26.6%	
1970	1,625	15.2%	
1980	2,686	65.3%	
1990	2,850	6.1%	
2000	2,350	-17.6%	
2010	2,656	13.0%	est.12
2020	2,940	10.7%	est.12
2030	3,284	11.7%	est.12
I and Uso	of this HUC	11.	
Land Use	Yea		
Type	1986	1995	 Change
ag.	1.6%	1.8%	0.2%
barren	0.3%	0.4%	0.1%
forest	61.0%	60.6%	-0.4%
urban	0.8%	0.9%	0.1%
water	2.3%	2.3%	0.0%
wetlands	34.0%	34.1%	0.1%
			,.
	HUC11 in:		
Pinela		100.0%	
الماسنال	ands:	0.0%	

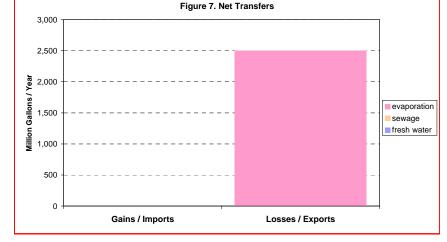


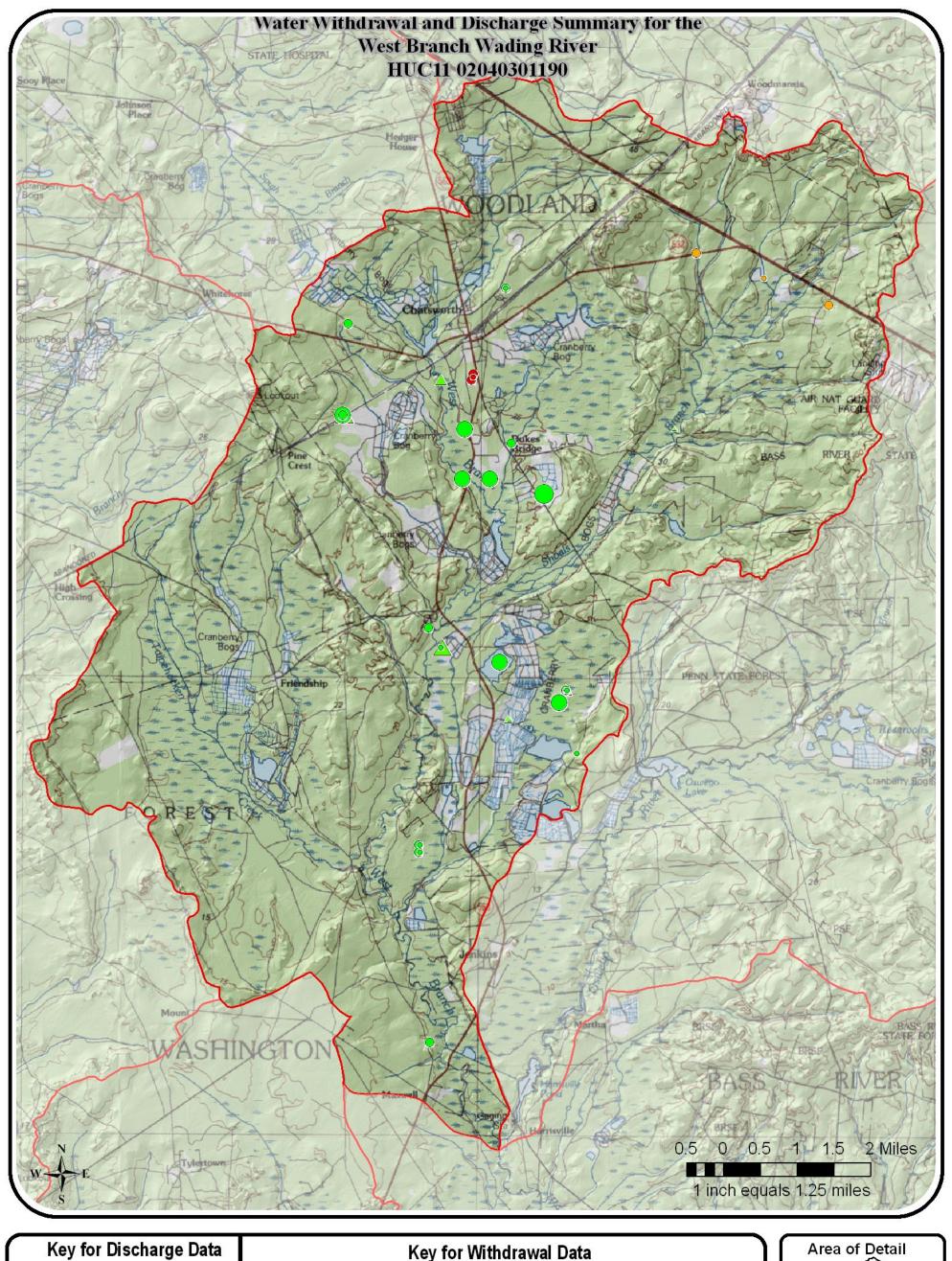
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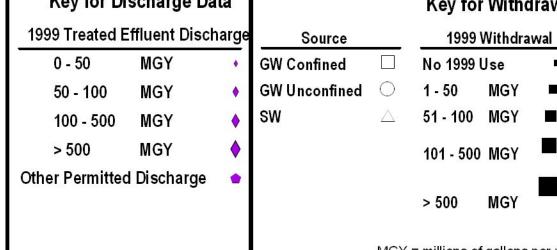
- 1 Salt and brackish water withdrawal and use is not included in this data
- 2 This does not account for water released from onstream reservoirs for downstream intakes.
- 3 Includes both permitted ground-water withdrawals and estimated domestic well withdrawals.
- 4 Nonconsumptive water use refers to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

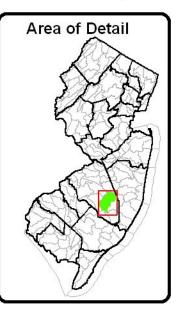






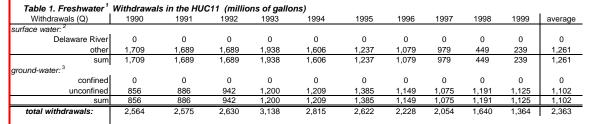


		Ney for	vvitno	arawai Data		
urce		1999	ıwal	Use Group		
ned		No 1999	Use	HOA	Agricultural	
nfined	\bigcirc	1 - 50	MGY		Commercial	
	\triangle	51 - 100	MGY		Industrial	
		101 - 500	MGY		Irrigation	•
					Mining	
		> 500	MGY		Not Classified	
					Potable Supply	
	MGY:	= millions of	fgallons	per year	Power Generation	ا



Water Withdrawals, Transfers and Discharges for MULLICA RIVER (GSP BRIDGE TO TURTLE CK) --- 02040301200

WMA:	Mullica and Wading	14	
HUC11:	Mullica River (GSP bridge to Turtle Ck)	02	040301200





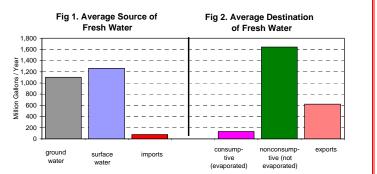


Table 3. Nonconsump	tive⁴ & Coı	nsumptive⁵	Water Use	e in the H	UC11, by Us	e Type (mi	llions of g	allons)			
Water use	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	average
potable purveyors											
nonconsumptive	70	78	73	76	82	88	86	90	95	94	83
consumptive	9	17	14	17	17	16	15	16	18	18	16
domestic wells											
nonconsumptive	184	185	187	189	191	192	193	195	196	198	191
consumptive	26	26	26	27	27	27	27	27	28	28	27
industrial & commercial & mir	ning										
nonconsumptive	51	20	61	174	170	158	112	116	112	89	106
consumptive	6	2	6	19	19	17	12	13	12	10	12
agricultural & non-agricultura	l irrigation										
nonconsumptive	1,708	1,674	1,651	1,865	1,538	1,264	1,094	962	582	285	1,262
consumptive	87	94	100	124	97	90	63	41	36	54	79
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	2,014	1,957	1,973	2,304	1,981	1,702	1,485	1,363	985	666	1,643
consumptive	128	140	148	187	159	150	118	97	94	110	133
PERCENTAGES:											
nonconsumptive	94.0%	93.3%	93.0%	92.5%	92.6%	91.9%	92.7%	93.4%	91.3%	85.9%	92.5%
consumptive	6.0%	6.7%	7.0%	7.5%	7.4%	8.1%	7.3%	6.6%	8.7%	14.1%	7.5%

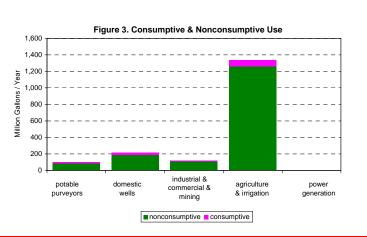


Table 4. Average Sea	sonal ⁷ Use	- Nonconsu	mptive⁴ 8	Consump	tive ⁵ (millio	ns of gallor	ıs)			
	Wi	Winter		ring	Sum	nmer	F	all	Year	ly Avg.
Use Group	Noncon-	Consump-	Noncon-	Consump-	Noncon-	Consump-	Noncon-	Consump-	Noncon-	Consump-
	sumptive	tive	sumptive	tive	sumptive	tive	sumptive	tive	sumptive	tive
potable purveyors	29	0	31	2	32	11	35	3	126	16
domestic wells	44	0	45	3	56	19	47	4	191	27
industrial & commercial & mining	24	3	27	3	28	3	28	3	106	12
agricultural & non- agricultural irrig.	431	1	308	17	116	56	407	4	1,262	79
power generation	0	0	0	0	0	0	0	0	0	0
SUM:	528	3	410	25	231	90	516	15	1,686	133

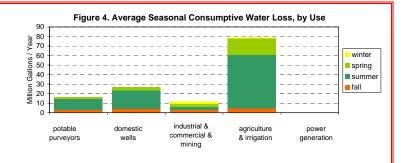
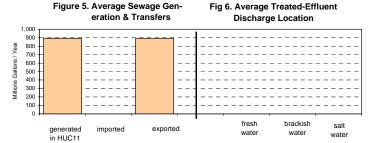


Table 5. Sewage Gen	eration & Tra	ansfers ⁸ in	the HUC11	(millions	of gallons)						
	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	average
generated in HUC11	756	840	858	900	908	874	950	933	976	901	890
imported to HUC11	0	0	0	0	0	0	0	0	0	0	0
exported from HUC11	756	840	858	900	908	874	950	933	976	901	890



Losses / Exports

Table 6. Destination o	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	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	0	Λ	Λ

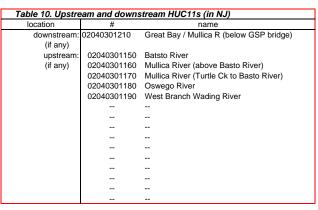
Table 7. 1999 Water All		in HUC	:11 by
	Source	_	
Water Source	MGY	_	
surface water	1,187		
ground water	2,952	_	
total	4,139		
Table 9 4000 Water All	acctions 10	:- 4116	44 6
Water U	ocations ¹⁰ se Group		
Water Use Group		М	IGY
Water U		M 2,	
Water Use Group agricultural		M 2,	IGY 258
Use Group agricultural commercial		M 2,	IGY 258 37
Water Use Group agricultural commercial industrial		M 2,	IGY 258 37 662
Water Use Group agricultural commercial industrial irrigation	se Group	M 2,	IGY 258 37 662 99
Water Use Group agricultural commercial industrial irrigation mining	se Group	M 2,	1GY 258 37 662 99 0

	HUC11s	464.8 560.5	sq. mi.
iolal Wa	ilei si ieu	500.5	oq. 1111.
(this HUC11	onshore area:	93.7	sq. mi.)
Populatio	n of this HU(C11:	
Year	Population	Change	_
1940	1,885	-	_
1950	2,177	15.5%	
1960	2,806	28.9%	
1970	3,863	37.7%	
1980	6,072	57.2%	
1990	10,151	67.2%	
2000	12,744	25.6%	
2010	15,537	21.9%	est.12
2020	18,862	21.4%	est.12
2030	23,237	23.2%	est.12
	of this HUC		
Land Use Type	of this HUC: Yes		- Change
	Yea	ar	- Change
Туре	Yea	ar 1995	
Type ag.	1986 3.5%	1995 3.2%	-0.3%
Type ag. barren	1986 3.5% 0.6%	1995 3.2% 0.4%	-0.3% -0.2%
Type ag. barren forest	1986 3.5% 0.6% 47.3%	1995 3.2% 0.4% 46.4%	-0.3% -0.2% -0.8%
ag. barren forest urban	1986 3.5% 0.6% 47.3% 5.5%	1995 3.2% 0.4% 46.4% 6.8%	-0.3% -0.2% -0.8% 1.4%
ag. barren forest urban water wetlands	1986 3.5% 0.6% 47.3% 5.5% 4.0% 39.3%	1995 3.2% 0.4% 46.4% 6.8% 4.0%	-0.3% -0.2% -0.8% 1.4% 0.0%
Type ag. barren forest urban water wetlands % of this	1986 3.5% 0.6% 47.3% 5.5% 4.0% 39.3%	1995 3.2% 0.4% 46.4% 6.8% 4.0% 39.1%	-0.3% -0.2% -0.8% 1.4% 0.0%
Type ag. barren forest urban water wetlands % of this Pinel	1986 3.5% 0.6% 47.3% 5.5% 4.0% 39.3%	1995 3.2% 0.4% 46.4% 6.8% 4.0%	-0.2% -0.8% 1.4% 0.0%

Table 9. HUC11 Descriptive Statistics

95.7 sq. mi.

in this HUC11 only

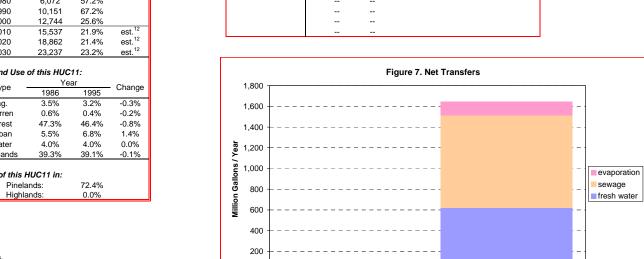


NOTES:

- 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.

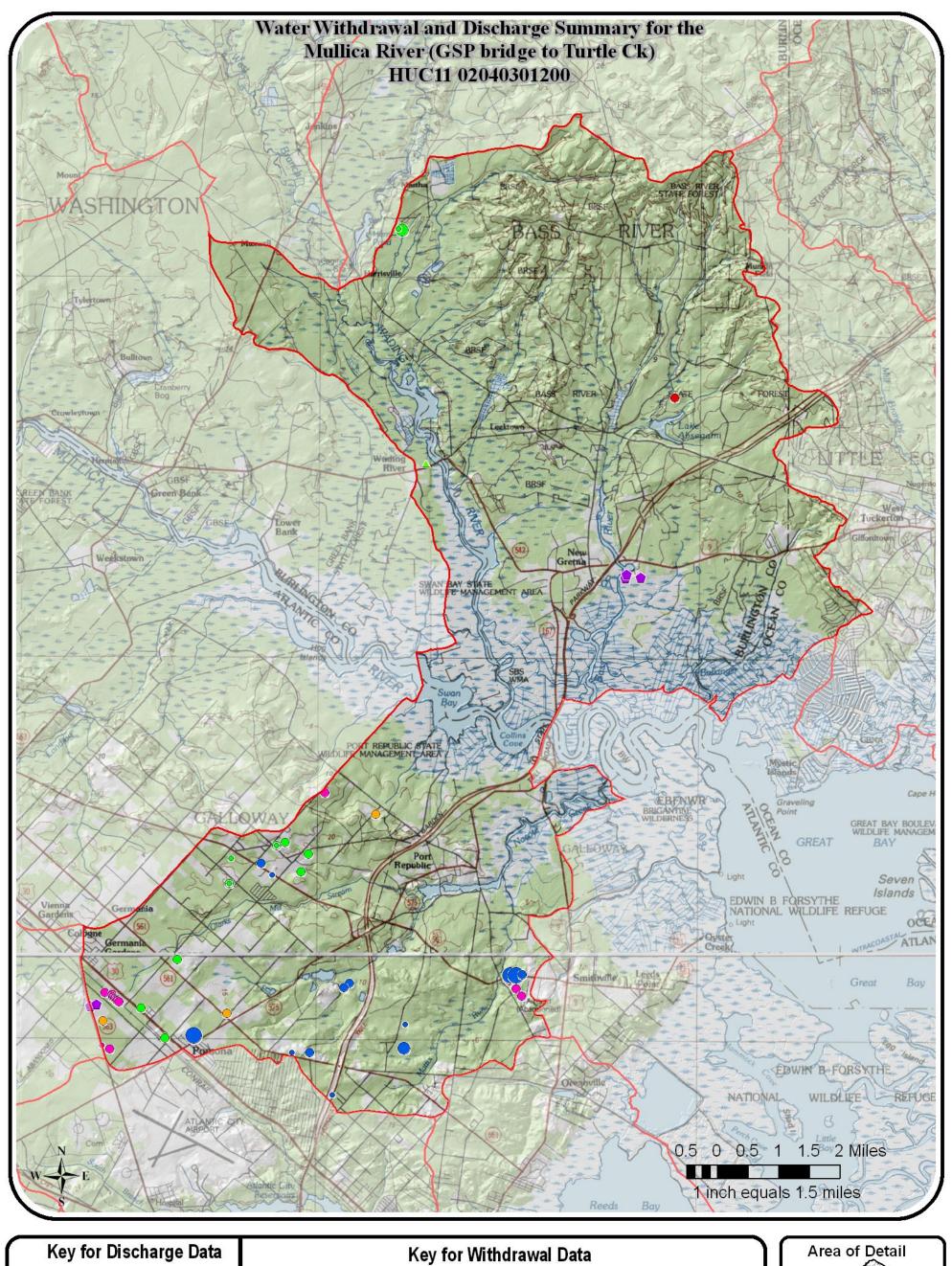
 11 Import and export volumes based on reported transfers between purveyors and on intersection of purveyor service areas with HUC11s.
- 12 Projected population estimates based on NJ Metropolitan Planning Organization estimates. 13 Subject to revision.
- 14 Withdrawals for offstream reservoirs are problematic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

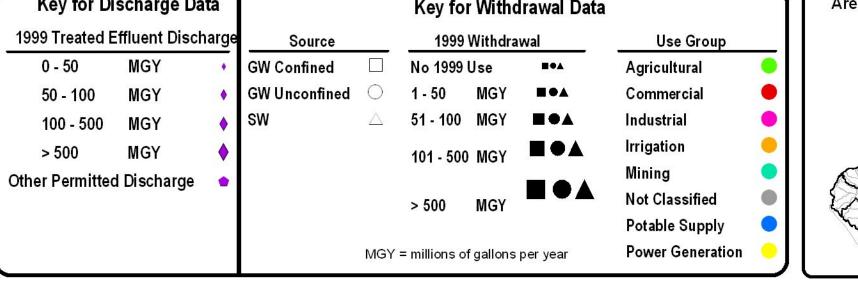
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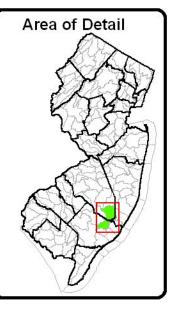


Gains / Imports

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

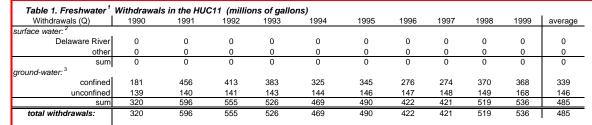


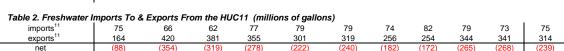




Water Withdrawals, Transfers and Discharges for GREAT BAY / MULLICA R (BELOW GSP BRIDGE) --- 02040301210

WMA:	Mullica and Wading	14	
HUC11:	Great Bay / Mullica R (below GSP bridge)	02	040301210





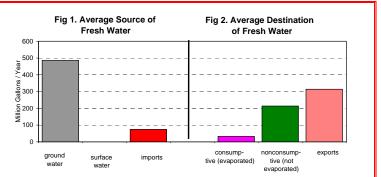


Table 3. Nonconsump											i
Water use	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	average
potable purveyors											
nonconsumptive	81	89	82	91	90	91	82	88	91	86	87
consumptive	12	13	12	14	13	13	12	13	14	14	13
domestic wells											
nonconsumptive	122	123	124	125	127	128	129	129	130	132	127
consumptive	17	17	17	18	18	18	18	18	18	19	18
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	0	0	0	0	0	0	0	0	0	2	0
consumptive	0	0	0	0	0	0	0	0	0	16	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	203	211	206	217	216	219	211	218	221	220	214
consumptive	29	31	29	32	31	31	30	32	32	48	33
PERCENTAGES:			•	•	•	•					
nonconsumptive	87.4%	87.4%	87.5%	87.2%	87.5%	87.4%	87.6%	87.3%	87.2%	82.0%	86.8%
consumptive	12.6%	12.6%	12.5%	12.8%	12.5%	12.6%	12.4%	12.7%	12.8%	18.0%	13.2%

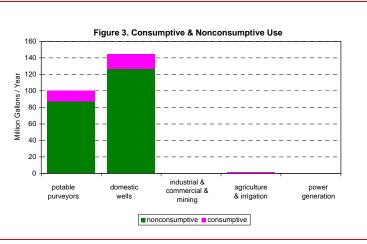


Table 4. Average Sea	able 4. Average Seasonal Use - Nonconsumptive & Consumptive (millions of gallons)									
	Wi	Winter		ring	Sun	nmer	F	all	Yearl	y Avg.
Use Group	Noncon-	Consump-	Noncon-	Consump-	Noncon-	Consump-	Noncon-	Consump-	Noncon-	Consump-
	sumptive	tive	sumptive	tive	sumptive	tive	sumptive	tive	sumptive	tive
potable purveyors	18	0	20	2	27	9	22	2	87	13
domestic wells	29	0	30	2	37	13	31	3	127	18
industrial & commercial & mining	0	0	0	0	0	0	0	0	0	0
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:	47	0	50	4	64	23	53	5	214	33

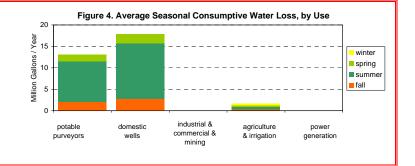
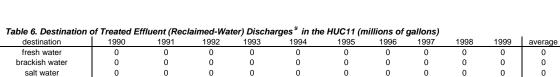


Table 5. Sewage Gen	eration & Tra	ansfers ⁸ in	the HUC11	(millions	of gallons)						
	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	average
generated in HUC11	349	386	393	412	416	401	436	428	448	414	408
imported to HUC11	0	0	0	0	0	0	0	0	0	0	0
exported from HUC11	349	386	393	412	416	401	436	428	448	414	408
<u> </u>											



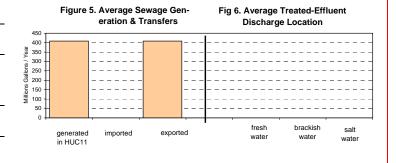


Table 7. 1999 Water A	Allocations 10	'n	HUC11 by
Wate	er Source		
Water Source	MGY		
surface water	0		
ground water	527		
to	otal 527		
Table 9 4000 Water	Allogotiono 10) :_	ULICAA bu
Water	Use Group	in	
Water Use Grou	Use Group	' in	MGY 0
Water	Use Group ip al	' in	MGY
Water Use Grou agricultura	Use Group p al al	in	MGY 0
Water Use Grou agricultura commerci	Use Group Ip al al	in	MGY 0 0
Water Use Grou agricultura commerci industria	Use Group Ip al al	in	MGY 0 0 33
Water Use Grou agricultura commerci industria irrigation	Use Group IP al I	in	MGY 0 0 33 37
Use Grou agricultura commerci industria irrigation mining	Use Group p al al l	' in	MGY 0 0 33 37 0

sum:

		-					
Area:							
in this Hl	JC11 only	64.6	sq. mi.				
upstrean	n HUC11s	560.5	sq. mi.				
total wa	atershed	625.2	sq. mi.				
(this HUC11	onshore area:	37.0	sq. mi.)				
Populatio							
Year	Population	Change	_				
1940	1,282						
1950	1,872	46.0%					
1960	3,637	94.3%					
1970	5,809	59.7%					
1980	8,395	44.5%					
1990	13,609	62.1%					
2000	16,775	23.3%					
2010	19,669	17.2%	est.12				
2020	23,018	17.0%	est.12				
2030	27,494	19.4%	est.12				
Land Use	of this HUC						
Type	Yea		 Change 				
	1986	1995					
ag.	0.3%	0.2%	-0.1%				
barren	0.9%	1.2%	0.3%				
forest	4.4%	4.0%	-0.3%				
urban	3.0%	3.2%	0.3%				
water	46.3%	46.4%	0.1%				
wetlands	45.2%	44.9%	-0.3%				
0/ -6/6/-							
	HUC11 in:	0.00/					
	Pinelands: 0.0% Highlands: 0.0%						
піgп	iarius.	0.076					

Table 9. HUC11 Descriptive Statistics

		stream HUC11s (in NJ)
location	#	name
downstream:	02040302910	Atlantic Coast (Little Egg to Absecon)
(if any)		
upstream:	02040301150	Batsto River
(if any)	02040301160	Mullica River (above Basto River)
	02040301170	Mullica River (Turtle Ck to Basto River)
	02040301180	Oswego River
	02040301190	West Branch Wading River
	02040301200	Mullica River (GSP bridge to Turtle Ck)

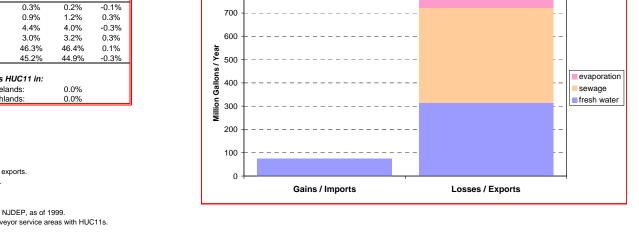
Figure 7. Net Transfers

NOTES:

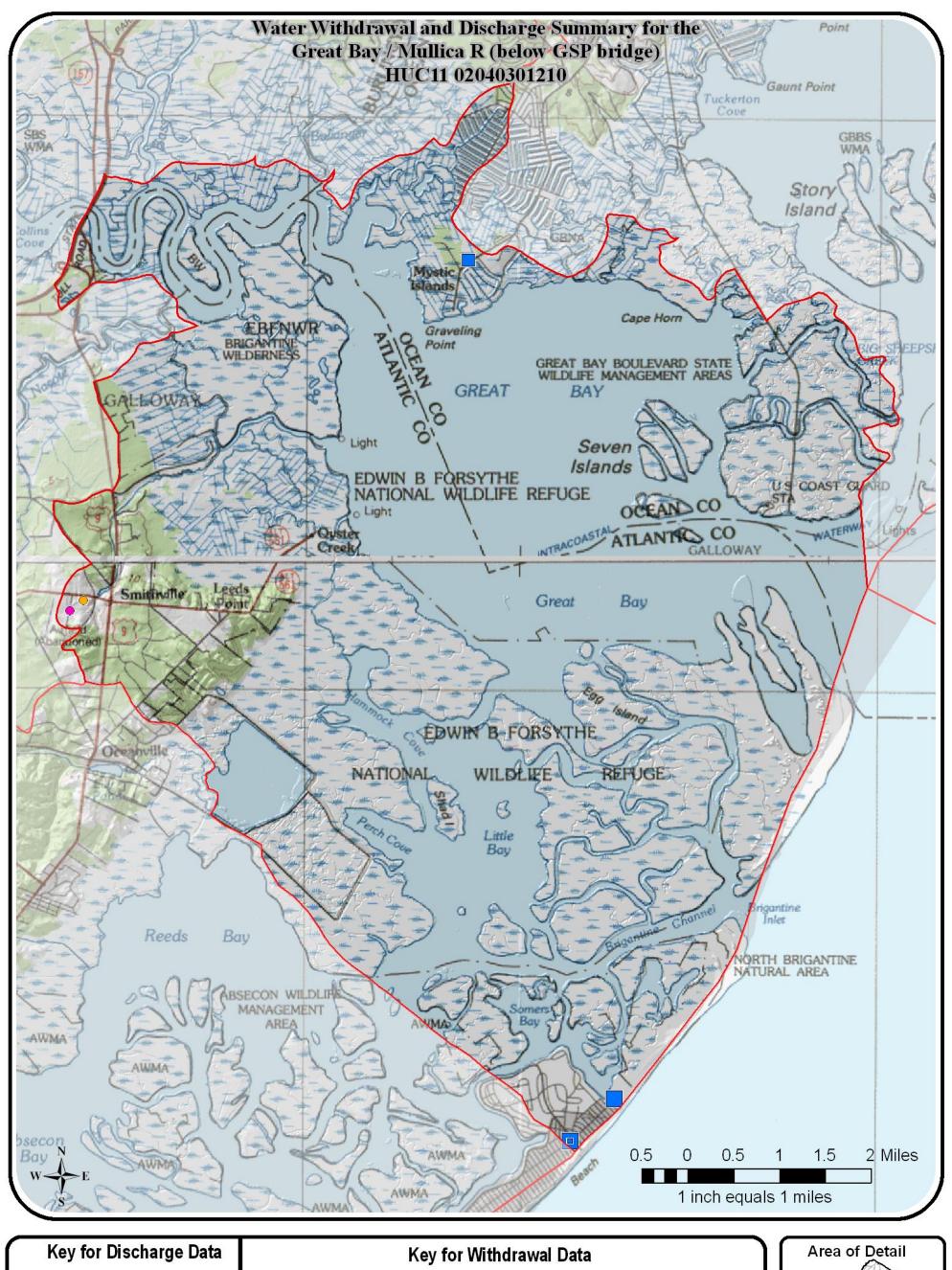
- 1 Salt and brackish water withdrawal and use is not included in this data
- 2 This does not account for water released from onstream reservoirs for downstream intakes.
- 3 Includes both permitted ground-water withdrawals and estimated domestic well withdrawals. 4 Nonconsumptive water use refers to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

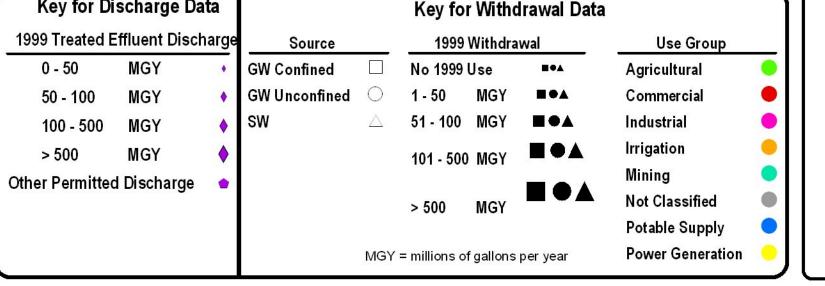
 11 Import and export volumes based on reported transfers between purveyors and on intersection of purveyor service areas with HUC11s.
- 12 Projected population estimates based on NJ Metropolitan Planning Organization estimates.
- 13 Subject to revision.
- $14\,$ Withdrawals for offstream reservoirs are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

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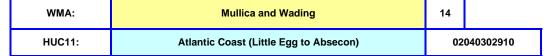
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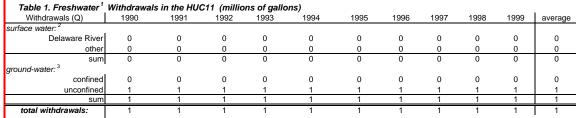


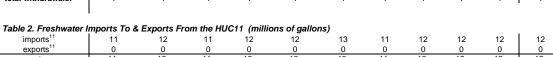




Water Withdrawals, Transfers and Discharges for ATLANTIC COAST (LITTLE EGG TO ABSECON) --- 02040302910







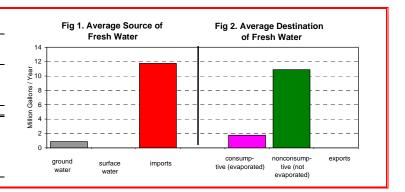


Table 3. Nonconsump	tive⁴ & Co	nsumptive⁵	Water Use	⁶ in the H	UC11, by Us	se Type (mi	llions of g	allons)			
Water use	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	averag
potable purveyors											
nonconsumptive	10	10	9	10	10	11	9	10	11	10	10
consumptive	2	2	1	2	2	2	1	2	2	2	2
domestic wells											
nonconsumptive	1	1	1	1	1	1	1	1	1	1	1
consumptive	0	0	0	0	0	0	0	0	0	0	0
industrial & commercial & mi	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	10	11	10	11	11	12	10	11	11	11	11
consumptive	2	2	2	2	2	2	2	2	2	2	2
PERCENTAGES:						•					
nonconsumptive	86.5%	86.3%	86.2%	85.5%	86.7%	86.4%	86.5%	86.1%	85.6%	85.7%	86.29
consumptive	13.5%	13.7%	13.8%	14.5%	13.3%	13.6%	13.5%	13.9%	14.4%	14.3%	13.89

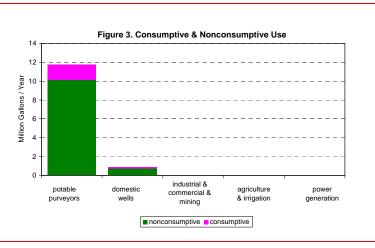


Table 4. Average Sea	sonal ⁷ Use	- Nonconsul	mptive⁴ 8	Consump	tive ⁵ (millio	ons of gallor	1s)			
	Wi	nter	Sp	ring	Sum	nmer	F	all	Yearl	ly Avg.
Use Group	Noncon-	Consump-	Noncon-	Consump-	Noncon-	Consump-	Noncon-	Consump-	Noncon-	Consump-
	sumptive	tive	sumptive	tive	sumptive	tive	sumptive	tive	sumptive	tive
potable purveyors	2	0	2	0	3	1	3	0	10	2
domestic wells	0	0	0	0	0	0	0	0	1	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:	2	0	2	0	4	1	3	0	11	2

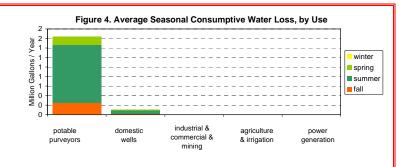
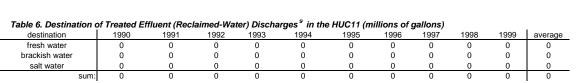


Table 5. Sewage Gen	eration & Tra	ansfers ⁸ in	the HUC11	(millions	of gallons)						
	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	average
generated in HUC11	70	78	80	84	84	81	88	87	90	83	82
imported to HUC11	0	0	0	0	0	0	0	0	0	0	0
exported from HUC11	70	78	80	84	84	81	88	87	90	83	82



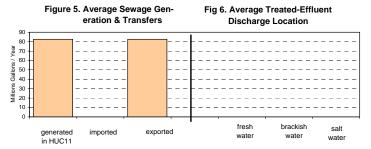


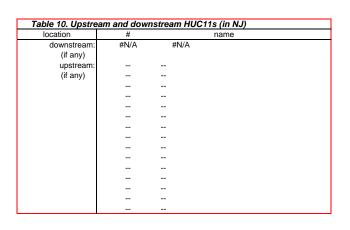
Table 7. 1999 Water Al. Water	ocations Source	In HUC11 by
Water Source	MGY	
surface water	0	
ground water	0	
tota	al O	
		in HUC11 by
Water U	lse Group	III TIOOTT By
Use Group	lse Group	MGY
Use Group agricultural		
Use Group		
Use Group agricultural		
Use Group agricultural commercial		MGY 0 0
Use Group agricultural commercial industrial		MGY 0 0 0
Use Group agricultural commercial industrial irrigation		MGY 0 0 0 0
Use Group agricultural commercial industrial irrigation mining	ly	MGY 0 0 0 0 0

(this HUC11 o	onshore area:	1.2	sq. mi.)
Populatio	n of this HU	C11:	
Year	Population	Change	_
1940	63	-	
1950	183	188.8%	
1960	587	220.9%	
1970	940	60.1%	
1980	1,165	23.9%	
1990	1,607	37.9%	
2000	1,795	11.7%	
2010	1,876	4.5%	est.12
2020	1,955	4.2%	est.12
2030	2,042	4.5%	est.12
I and I Isa	of this HIIC	11.	
	of this HUC		
Land Use Type	of this HUC Yea 1986		- Change
	Yea	ar	- Change
Туре	Yea 1986	ar 1995	
Type ag.	1986 0.0%	1995 0.0%	0.0%
Type ag. barren	1986 0.0% 1.5%	1995 0.0% 1.1%	0.0%
Type ag. barren forest	Yea 1986 0.0% 1.5% 0.0%	1995 0.0% 1.1% 0.0%	0.0% -0.4% 0.0%
Type ag. barren forest urban	1986 0.0% 1.5% 0.0% 1.4%	1995 0.0% 1.1% 0.0% 1.4%	-0.4% 0.0% 0.1%
ag. barren forest urban water wetlands	Yes 1986 0.0% 1.5% 0.0% 1.4% 95.9% 1.2%	1995 0.0% 1.1% 0.0% 1.4% 96.4%	0.0% -0.4% 0.0% 0.1% 0.5%
Type ag. barren forest urban water wetlands	Yes 1986 0.0% 1.5% 0.0% 1.4% 95.9% 1.2%	1995 0.0% 1.1% 0.0% 1.4% 96.4%	0.0% -0.4% 0.0% 0.1% 0.5%
ag. barren forest urban water wetlands	Yes 1986 0.0% 1.5% 0.0% 1.4% 95.9% 1.2%	1995 0.0% 1.1% 0.0% 1.4% 96.4%	0.0% -0.4% 0.0% 0.1% 0.5%

Table 9. HUC11 Descriptive Statistics

59.1 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.
- ${\small 3\>\> Includes\> both\> permitted\> ground-water\> with drawals\> and\> estimated\> domestic\> well\> with drawals.}$ 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.

