

State of New Jersey
Department of Environmental Protection

2024 NEW JERSEY STATEWIDE WATER SUPPLY PLAN

APPENDIX A STREAM LOW FLOW MARGIN (LFM) METHOD RESULTS



Appendix A:

Stream Low Flow Margin (LFM) Method Results

TABLE OF CONTENTS

APPENDIX A	2
LFM METHOD DESCRIPTION	3
WATERSHED MANAGEMENT AREA 01	6
WATERSHED MANAGEMENT AREA 02	15
WATERSHED MANAGEMENT AREA 03	20
WATERSHED MANAGEMENT AREA 04	23
WATERSHED MANAGEMENT AREA 05	27
WATERSHED MANAGEMENT AREA 06	31
WATERSHED MANAGEMENT AREA 07	36
WATERSHED MANAGEMENT AREA 08	41
WATERSHED MANAGEMENT AREA 09	46
WATERSHED MANAGEMENT AREA 10	51
WATERSHED MANAGEMENT AREA 11	55
WATERSHED MANAGEMENT AREA 12	60
WATERSHED MANAGEMENT AREA 13	65
WATERSHED MANAGEMENT AREA 14	74
WATERSHED MANAGEMENT AREA 15	79
WATERSHED MANAGEMENT AREA 16	84
WATERSHED MANAGEMENT AREA 17	89
WATERSHED MANAGEMENT AREA 18	98
WATERSHED MANAGEMENT AREA 19	103
WATERSHED MANAGEMENT AREA 20	108

LFM METHOD DESCRIPTION

The Low Flow Margin (LFM) method is used by DEP to estimate the amount of water-table (unconfined) aquifer and surface water¹ that can be sustainably withdrawn in each HUC11 drainage basin (Snook, Domber, & Hoffman, 2013). This approach assumes that a certain amount of streamflow can be lost without causing adverse ecological and water supply impacts. LFM is designed to be an estimate of water availability at low-flow periods. The amount of water that can be lost via depletive or consumptive water uses² is estimated as a percentage of the difference between the September median flow and the 7Q10 flow. The flow statistics are calculated for each of New Jersey's 151 HUC11 drainage basins. September median flow is the average monthly flow in September where half of the observed Septembers are higher and the other half are lower. 7Q10 is defined as the annual seven-day minimum flow that occurs on average once in ten years. The difference between the September median and the 7Q10 is referred to as the margin (see LFM column in A tables). A percentage of the LFM is determined as a planning threshold for excessive depletive and consumptive loss (known as Available Water). This Plan uses 25% of the LFM as a planning threshold, reserving the remaining 75% for ecological maintenance and downstream flows. If a HUC11's net water loss exceeds this threshold, it is considered to have potential water-availability shortages, and further analysis is needed.

The 25% threshold used in the 2017 Plan was reconfirmed based upon a more detailed analysis of daily streamflow at a set of 24 USGS continuous record stream gages. The reanalysis was completed using the Ecologic Limits of Hydrologic Alteration or ELOHA method and specifically the New Jersey Hydrologic Assessment Tool (NJHAT). See Table X for a summary of results of this analysis which showed an average of 23% for all the basins with a range of 10% to 40%. Based upon the larger uncertainties associated with the method and data, it is reasonable to use the same 25% value for this analysis.

To identify potential water-availability shortages, the net volume of water lost to depletive and consumptive water uses (see Net Dep-Con columns in B tables) and the volume of water still available for additional depletive and consumptive loss (known as Remaining Available Water) are calculated for each HUC11. To calculate net consumptive and depletive loss, a three-year running average of individual years was calculated for each HUC11. The largest three-year running average value was utilized for each HUC11. Loss calculations consider both current and full allocation water use rates and loss from eight different water use groups (power generation, public supply, agriculture, irrigation, industrial, commercial, mining, and unclassified). Remaining Available Water (RAW) is the difference between the amount of water available at the 25% threshold and calculated net depletive and consumptive losses for each HUC11. HUC11s with potential water availability shortages have a RAW value of 0.

The LFM method is one screening tool used to identify watersheds with potential water availability shortages but is not intended to replace other more rigorous and data-intensive methods for examining water availability. The LFM method does not account for limitations of available water due to water quality or existing regulatory programs, and the method is periodically updated as new water use data and information become available.

¹ The LFM method does not consider surface water that is regulated in a surface water supply reservoir system (aka a system with a defined safe yield).

² Consumptive loss means water is removed from the water supply resource (ground or surface water), used, and lost to the atmosphere, generally through evapotranspiration. Depletive loss means the withdrawal of water from a water supply resource where the water, once used, is not discharged to the same water supply resource in such a manner as to be useable within the same watershed (e.g., exported out of the watershed); it may be available for use elsewhere in the state if discharged to fresh waters.

Table X Calibration of the Stream Low Flow Margin Method Using NJHAT

ID	Gage Number	Name	Baseline Period	Drainage Area (mi ²)	Stream Type Classification	Stream Flow Reduction (CFS)	Stream Flow Reduction (mgd)	* September Median (mgd)	* 7Q10 (mgd)	Stream Stat Violation	LFM Difference of 7Q10 and September Median (mgd)	** Percent of LFM
1	01464000	Assunpink Creek @ Trenton	1923-1956	91	A	3.891	2.51	26.5	7.97	DL4	18.53	14%
2	01410150	East Branch Bass River near New Gretna	1978-2005	8.11	D	0.581	0.38	7.11	4.17	DL4	2.94	13%
3	01440000	Flatbrook near Flatbrookville	1923-2005	64	A	4.9	3.17	13.57	4.75	ML6	8.82	36%
4	01411000	Great Egg Harbor River @ Folsom	1925-1970	57.1	B	5.5	3.55	28.44	14.01	FH10/DL1	14.43	25%
5	01408000	Manasquan River @ Squankum	1931-1956	44	A	3.5	2.26	21.97	10.83	ML8	11.14	20%
6	01409400	Mullica River near Batsto	1957-2005	46.7	B	6	3.88	25.85	9.39	ML4	16.46	24%
7	01457000	Musconetcong River near Bloomsbury	1921-1972	141	B	9	5.82	67.86	29.57	DL1	38.29	15%
8	01379000	Passaic River near Millington	1921-1979	55.4	A	2.5	1.62	9.51	1.81	ML5	7.7	21%
9	01443500	Paulins Kill @ Blairstown	1921-1975	126	A	11.5	7.43	34.9	10.59	ML7	24.31	31%
10	01477120	Raccoon Creek near Swedesboro	1966-2005	26.9	C	2	1.29	10.99	4.75	ML4/ML6/ML8	6.24	21%
11	01384500	Ringwood Creek near Wanaque	1934-1978	19.1	C	0.85	0.55	2.13	0.24	ML5	1.89	29%
12	01380450	Rockaway River @ Main Street @ Boonton	1937-1959	116	A	14	9.05	38.78	9.61	ML6	29.17	31%
13	01465850	South Branch Rancocas Creek @ Vincentown	1961-1975	64.5	B	3.6	2.33	19.35	5.75	DL1	13.6	17%
14	01396500	South Branch Raritan River near High Bridge	1918-1970	65.3	A	4.5	2.91	29.73	14.24	ML4	15.49	19%
15	01408500	Toms River near Toms River	1928-1963	123	B	8.5	5.49	73.68	42.93	DL1	30.75	18%

16	01411300	Tuckahoe River @ Head of River	1969-2005	30.8	C	1	0.65	10.99	4.65	ML5	6.34	10%
17	01409280	Westecunk Creek @ Stafford Forge	1979-1988	15.8	D	3.5	2.26	14.28	8.67	ML8/FH3	5.61	40%
18	01381500	(1) Whippany River @ Morristown	1921-1952	29.4	C	2.5	1.62			ML4	5.153	31%
19	01398000	Neshanic River @ Reaville	1930-1962	25.7	A	0.3	0.19	1.55	0.12	ML6	1.43	14%
20	01409500	Batsto River @ Batsto	1927-2005	67.8	B	9.5	6.14	43.95	26.14	ML9	17.81	34%
21	01467000	N. Branch Rancocas near Pemberton	1921-2005	118	B	10	6.46	53	22.3	ML3	30.7	21%
22	01399500	(2) Lamington River near Pottersville	1921-1950	32.8	C	2.875	1.86			ML4	7.7	24%
23	01396660	(3) Mulhockaway Creek @ Van Syckel	1977-2005	11.8	C	0.6	0.39			ML7	1.9	20%
24	01386000	West Brook near Wanaque	1934-1978	11.8	C	0.45	0.29	1.94	0.38	ML6/FL1	1.56	19%
											Average =	23%

Notes

(1) - From area ratio of Whippany River HUC11 02030103020 LFM Analysis (69.9 mi² and 12.2 LFM)

(2) - From area ratio of downstream gage 01399780 flow stats (99 mi² and 23.2 LFM)

(3) - From area ratio of downstream gage 01396700 flow stats (20.5 mi² and 3.26 LFM)

DL1: Annual minimum daily flow. (cfs)

DL4: Annual minimum of 30-day moving average flow. (cfs)

ML3: Mean or median (user choice) of March of minimum flow values. Determine the minimum flow for each March over the entire flow record. (cfs)

ML4: Mean or median (user choice) of April of minimum flow values. Determine the minimum flow for each April over the entire flow record. (cfs)

ML5: Mean or median (user choice) of May of minimum flow values. Determine the minimum flow for each May over the entire flow record. (cfs)

ML6: Mean or median (user choice) of June of minimum flow values. Determine the minimum flow for each June over the entire flow record. (cfs)

ML7: Mean or median (user choice) of July of minimum flow values. Determine the minimum flow for each July over the entire flow record. (cfs)

ML8: Mean or median (user choice) of August of minimum flow values. Determine the minimum flow for each August over the entire flow record. (cfs)

ML9: Mean or median (user choice) of September of minimum flow values. Determine the minimum flow for each September over the entire flow record. (cfs)

FH3: High flood pulse count. (number of days/year)

FH10: Flood frequency. (number of events/year)

FL1: Low flood pulse count. (number of events/year)

*September Median and 7Q10 Flows were obtained from New Jersey Geological Survey Technical Memorandum 13-3, Domber, S., Snook, I., Hoffman, J.L., 2013, "Using the Stream Low Flow Margin Method to Assess Water Availability in New Jersey's Water-Table-Aquifer Systems."

**The "Percentages" column is the Stream Flow Reduction divided by the "Difference of 7Q10 and September Median".

WATERSHED MANAGEMENT AREA 01 - UPPER DELAWARE

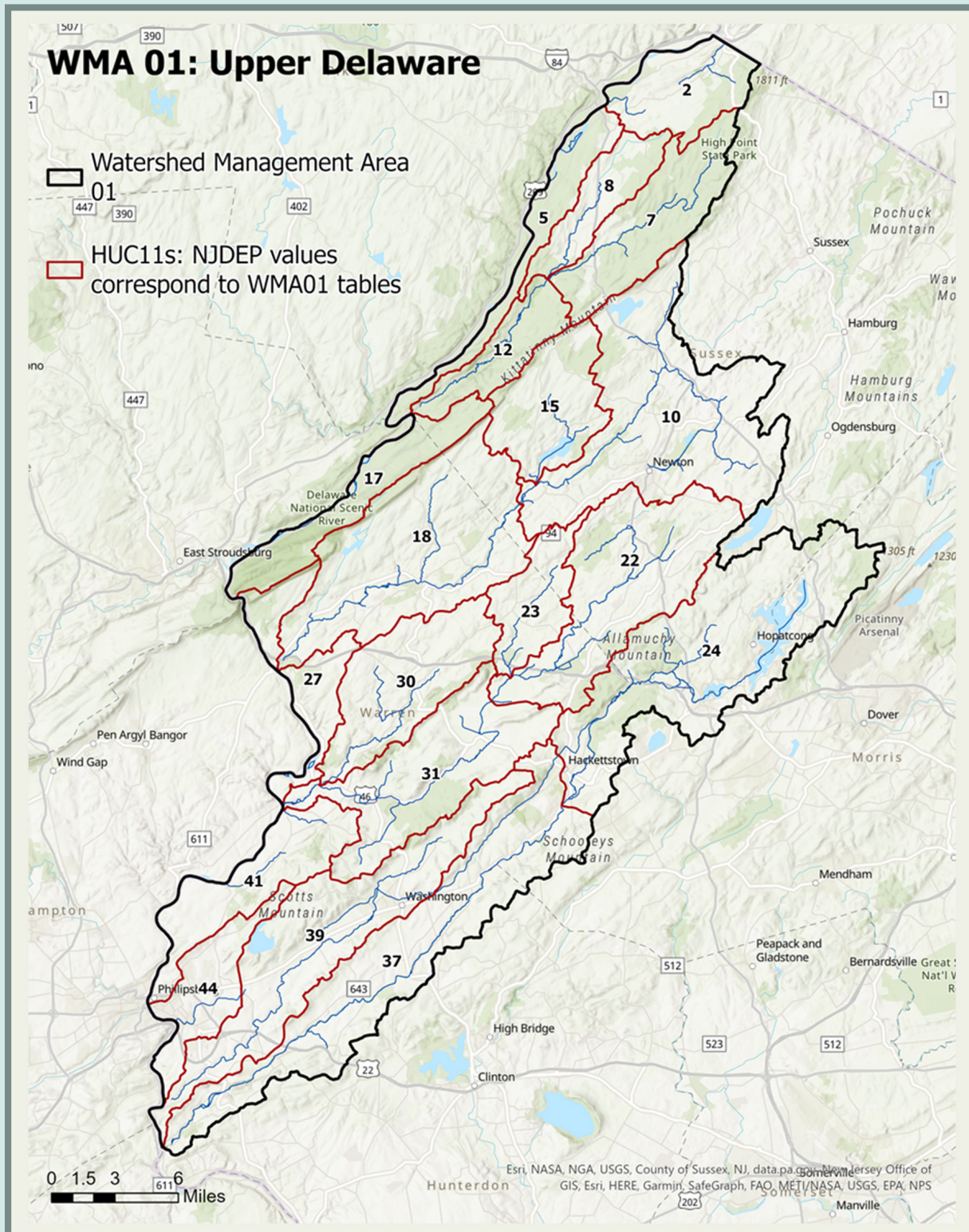


Table 1.A Summary of HUC11 Area, Low Flow Margin, and Water Availability Considerations

DEP Value	HUC11	HUC11 Name	HUC11 Area (mi ²)	Watershed Area (mi ²)	September Median Flow (mgd)	7Q10 (mgd)	LFM Percentage	LFM (mgd)	NJ Highlands ²	Major SW Potable Supply ³	Potentially 7Q10 Limited ⁴	Lim. Avail. HUC Upstream	In a Stressed WMA	Number of Stressed 3-Yr Periods	Has Saline Discharge
2	02040104090	Shimers Brook / Clove Brook	22.8	22.1	5.7	1.7	25%	3.9			Yes			0	
5	02040104110	Walpack Bend / Montague Riverfront	18.0	16.1	3.3	0.9	25%	2.5			Yes			0	
8	02040104130	Little Flat Brook	16.8	16.8	3.1	0.8	25%	2.3			Yes			0	
7	02040104140	Big Flat Brook	32.6	32.6	5.9	1.6	25%	4.3			Yes			0	
12	02040104150	Flat Brook	16.9	66.2	4.9	2.5	25%	2.4						0	
17	02040104240	Van Campens Brook / Dunnfield Creek	23.3	22.1	4.9	1.2	25%	3.6			Yes			0	
15	02040105030	Trout Brook / Swartswood Lake	27.8	27.8	4.7	0.8	25%	3.9			Yes			0	
10	02040105040	Paulins Kill (above Stillwater Village)	79.4	107.1	23.6	8.3	25%	15.2	Partial					0	
18	02040105050	Paulins Kill (below Stillwater Village)	69.8	176.8	18.6	5.0	25%	13.6	Partial		Yes			0	
27	02040105060	Stony Brook / Delawanna Creek	19.7	18.7	3.9	1.0	25%	3.0	Partial		Yes			0	
22	02040105070	Pequest River (above/incl Bear Swamp)	54.7	72.9	12.6	2.8	25%	9.8	Partial		Yes			0	
23	02040105080	Bear Creek	18.3	18.3	4.0	1.0	25%	3.0	Partial		Yes			0	
31	02040105090	Pequest River (below Bear Swamp)	47.4	157.0	9.7	2.5	25%	7.2	All		Yes			4	

DEP Value	HUC11	HUC11 Name	HUC11 Area (mi ²)	Watershed Area (mi ²)	September Median Flow (mgd)	7Q10 (mgd)	LFM Percentage	LFM (mgd)	NJ Highlands ²	Major SW Potable Supply ³	Potentially 7Q10 Limited ⁴	Lim. Avail. HUC Upstream	In a Stressed WMA	Number of Stressed 3-Yr Periods	Has Saline Discharge
30	02040105100	Beaver Brook	36.7	36.7	5.9	1.5	25%	4.5	Partial		Yes			0	
41	02040105110	Pophandusing Brook / Buckhorn Creek	28.2	27.6	5.4	1.5	25%	3.9	All		Yes			0	
44	02040105120	Lopatcong Creek	19.8	19.5	6.3	3.0	25%	3.4	All					0	
39	02040105140	Pohatcong Creek	58.1	58.0	13.6	4.2	25%	9.4	All		Yes			0	
24	02040105150	Musconetcong River (above Trout Brook)	81.6	81.6	13.7	3.2	25%	10.5	All		Yes			0	
37	02040105160	Musconetcong River (below incl Trout Bk)	73.9	155.5	19.9	5.9	25%	14.0	All		Yes			0	

Table 1.B Summary of HUC11 Remaining Available Water and Full Allocation

					Current			Full Allocation			Largest Dep-Con Loss			
DEP Value	HUC11	HUC11 Name	Peak Year With. ⁵	Available Water (mgd)	Net Dep-Con (mgd)	% Available Used	Remaining Available Water (mgd)	Net Dep-Con (mgd)	% Available Used	Remaining Available Water (mgd)	Current Largest Loss	Current Largest Loss % Available Water	Full Allocation Largest Loss	Full Allocation Largest Loss % Available Water
2	02040104090	Shimers Brook / Clove Brook	2014	1.0	0.2	19%	0.8	0.4	41%	0.6	Potable	17%	Potable	50%
5	02040104110	Walpack Bend / Montague Riverfront	2013	0.6	0.0	2%	0.6	0.0	0%	0.6	Potable	2%	Potable	N/A
8	02040104130	Little Flat Brook	2013	0.6	0.0	5%	0.5	0.0	9%	0.5	Potable	5%	Potable	N/A
7	02040104140	Big Flat Brook	2014	1.1	0.0	0%	1.1	0.0	0%	1.1	Minimal Loss	0%	Potable	N/A
12	02040104150	Flat Brook	2015	0.6	0.0	0%	0.6	0.0	0%	0.6	Potable	0%	Potable	N/A
17	02040104240	Van Campens Brook / Dunnfield Creek	2013	0.9	0.0	2%	0.9	0.0	3%	0.9	Potable	2%	Potable	N/A
15	02040105030	Trout Brook / Swartswood Lake	2020	1.0	0.1	5%	0.9	0.1	9%	0.9	Potable	5%	Potable	N/A
10	02040105040	Paulins Kill (above Stillwater Village)	2017	3.8	1.6	42%	2.2	5.9	156%	0.0	Potable	21%	Potable	100%
18	02040105050	Paulins Kill (below Stillwater Village)	2014	3.4	0.2	5%	3.2	0.9	26%	2.5	Potable	4%	Potable	23%
27	02040105060	Stony Brook / Delawanna Creek	2016	0.7	0.0	2%	0.7	0.1	12%	0.6	Potable	2%	Ag/Irr	12%
22	02040105070	Pequest River (above/incl Bear Swamp)	2015	2.5	1.2	48%	1.3	3.3	136%	0.0	Potable	24%	Potable	87%
23	02040105080	Bear Creek	2020	0.7	0.0	2%	0.7	0.1	18%	0.6	Potable	2%	Potable	18%

					Current			Full Allocation			Largest Dep-Con Loss			
DEP Value	HUC11	HUC11 Name	Peak Year With. ⁵	Available Water (mgd)	Net Dep-Con (mgd)	% Available Used	Remaining Available Water (mgd)	Net Dep-Con (mgd)	% Available Used	Remaining Available Water (mgd)	Current Largest Loss	Current Largest Loss % Available Water	Full Allocation Largest Loss	Full Allocation Largest Loss % Available Water
31	02040105090	Pequest River (below Bear Swamp)	2013	1.8	2.4	135%	0.0	5.7	317%	0.0	Potable	100%	Potable	100%
30	02040105100	Beaver Brook	2014	1.1	0.1	7%	1.0	0.9	84%	0.2	Potable	5%	Ag/Irr	51%
41	02040105110	Pophandusing Brook / Buckhorn Creek	2014	1.0	0.3	30%	0.7	0.9	93%	0.1	Potable	28%	Potable	67%
44	02040105120	Lopatcong Creek	2018	0.8	-1.9	Net Gain	2.7	-1.5	Net Gain	2.4	Com/Ind /Min	21%	Com/Ind /Min	35%
39	02040105140	Pohatcong Creek	2014	2.3	0.5	20%	1.9	1.8	75%	0.6	Potable	19%	Potable	50%
24	02040105150	Musconetcong River (above Trout Brook)	2014	2.6	1.7	64%	0.9	6.6	253%	0.0	Potable	61%	Potable	100%
37	02040105160	Musconetcong River (below incl Trout Bk)	2020	3.5	0.2	7%	3.3	2.6	74%	0.9	Non-Ag Irr	6%	Potable	47%

Table 1.C Summary of HUC11 Withdrawals in Millions of Gallons per Day (mgd)

			Public Supply		Domestic	Com/Ind/Min		Ag/Irr		Non-Ag Irr		Power Gen		Combined				RSW Withdrawals
DEP Value	HUC11	HUC11 Name	UnGW	Non-RSW SW	UnGW	UnGW	SW	UnGW	SW	UnGW	SW	UnGW	SW	SFD Adj UnGW	SW	Leakage	Total	
2	02040104090	Shimers Brook / Clove Brook	0.1	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.0	0.0	0.4	0.0
5	02040104110	Walpack Bend / Montague Riverfront	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8	02040104130	Little Flat Brook	0.0	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.0	0.0	0.2	0.0
7	02040104140	Big Flat Brook	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
12	02040104150	Flat Brook	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
17	02040104240	Van Campens Brook /Dunnfield Creek	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.1	0.0
15	02040105030	Trout Brook / Swartswood Lake	0.0	0.0	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.0	0.0	0.3	0.0
10	02040105040	Paulins Kill (above Stillwater Village)	1.5	0.0	1.1	0.0	6.4	0.0	0.0	0.1	0.1	0.0	0.0	2.4	6.5	0.0	9.0	0.0
18	02040105050	Paulins Kill (below Stillwater Village)	0.0	0.0	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7	0.0	0.0	0.7	0.0
27	02040105060	Stony Brook / Delawanna Creek	0.0	0.0	0.1	0.3	0.0	0.0	0.0	0.0	0.0	0.0	142.4	0.3	142.4	0.0	142.7	1.1
22	02040105070	Pequest River (above/incl Bear Swamp)	0.8	0.0	1.0	0.0	0.0	0.5	0.1	0.0	0.1	0.0	0.0	2.0	0.2	0.0	2.2	0.0
23	02040105080	Bear Creek	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

			Public Supply		Domestic	Com/Ind/Min		Ag/Irr		Non-Ag Irr		Power Gen		Combined				RSW Withdrawals
DEP Value	HUC11	HUC11 Name	UnGW	Non-RSW SW	UnGW	UnGW	SW	UnGW	SW	UnGW	SW	UnGW	SW	SFD Adj UnGW	SW	Leakage	Total	
31	02040105090	Pequest River (below Bear Swamp)	3.1	0.0	0.7	0.4	0.0	6.2	0.1	0.0	0.0	0.0	0.0	9.3	0.1	0.0	9.4	0.0
30	02040105100	Beaver Brook	0.0	0.0	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.0	0.0	0.3	0.0
41	02040105110	Pophandusing Brook /Buckhorn Creek	0.6	0.0	0.2	1.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.8	0.0	0.0	1.9	3.4
44	02040105120	Lopatcong Creek	0.2	0.0	0.2	0.1	1.8	0.0	0.0	0.0	0.0	0.0	0.0	0.4	1.9	0.0	2.3	0.0
39	02040105140	Pohatcong Creek	1.1	0.0	0.4	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.6	0.0	0.0	1.6	0.0
24	02040105150	Musconetcong River (above Trout Brook)	3.7	0.0	1.7	0.0	0.3	0.0	0.0	0.0	0.0	0.0	0.0	4.9	0.3	0.0	5.3	0.0
37	02040105160	Musconetcong River (below incl Trout Bk)	1.9	0.0	1.0	0.2	0.0	0.0	0.0	0.2	0.1	0.0	0.0	3.0	0.1	0.0	3.2	0.0

Table 1.D Summary of HUC11 Discharges in Millions of Gallons per Day (mgd)

DEP Value	HUC11	HUC11 Name	Sanitary Sewer			Domestic Septic	Com/Ind/Min		Ag/Irr		Non-Ag Irr		Power Gen		Combined		
			UnGW	SW Fresh	SW Saline		UnGW	SW	UnGW	SW	UnGW	SW	UnGW	SW	UnGW	SW	Total
2	02040104090	Shimers Brook / Clove Brook	0.0	0.0	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.0	0.2
5	02040104110	Walpack Bend / Montague Riverfront	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8	02040104130	Little Flat Brook	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.1
7	02040104140	Big Flat Brook	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
12	02040104150	Flat Brook	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
17	02040104240	Van Campens Brook / Dunnfield Creek	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.1
15	02040105030	Trout Brook / Swartswood Lake	0.0	0.0	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.0	0.2
10	02040105040	Paulins Kill (above Stillwater Village)	0.0	0.7	0.0	0.8	0.0	5.8	0.0	0.0	0.0	0.0	0.0	0.0	0.9	6.5	7.4
18	02040105050	Paulins Kill (below Stillwater Village)	0.0	0.0	0.0	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.0	0.5
27	02040105060	Stony Brook / Delawanna Creek	0.0	0.0	0.0	0.1	0.2	0.0	0.0	0.0	0.0	0.0	0.0	142.4	0.3	142.4	142.7
22	02040105070	Pequest River (above/incl Bear Swamp)	0.0	0.2	0.0	0.7	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.8	0.3	1.0
23	02040105080	Bear Creek	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

			Sanitary Sewer			Domestic Septic	Com/Ind/Min		Ag/Irr		Non-Ag Irr		Power Gen		Combined		
DEP Value	HUC11	HUC11 Name	UnGW	SW Fresh	SW Saline		UnGW	SW	UnGW	SW	UnGW	SW	UnGW	SW	UnGW	SW	Total
31	02040105090	Pequest River (below Bear Swamp)	0.0	0.4	0.0	0.5	0.3	0.0	5.8	0.0	0.0	0.0	0.0	0.0	6.7	0.4	7.0
30	02040105100	Beaver Brook	0.0	0.0	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.0	0.2
41	02040105110	Pophandusing Brook / Buckhorn Creek	0.0	0.3	0.0	0.1	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.3	0.3	1.6
44	02040105120	Lopatcong Creek	0.0	2.3	0.0	0.1	0.1	1.6	0.0	0.0	0.0	0.0	0.0	0.0	0.2	3.9	4.1
39	02040105140	Pohatcong Creek	0.0	0.6	0.0	0.3	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6	0.6	1.2
24	02040105150	Musconetcong River (above Trout Brook)	0.1	2.0	0.0	1.3	0.0	0.3	0.0	0.0	0.0	0.0	0.0	0.0	1.3	2.3	3.6
37	02040105160	Musconetcong River (below incl Trout Bk)	0.0	2.0	0.0	0.7	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	2.0	2.9

Notes (applicability may vary by WMA)

1. There are some watersheds upstream of WMA where depletive and consumptive uses are occurring, but this analysis does not account for out of state water use.
2. New or increased diversions within HUC11s located completely or partially within the Highlands will be addressed on a case-by-case basis in cooperation with the Highlands Council.
3. New or increased diversions upstream of potable supply reservoirs or intakes must quantify and offset any reduction to the system's safe yield.
4. The HUC11 LFM method available water exceeds 50% of the 7Q10. Additional availability analysis required.
5. Peak Year With. represents the final year of the 3-year period with the highest average withdrawals.

WATERSHED MANAGEMENT AREA 02 - WALLKILL

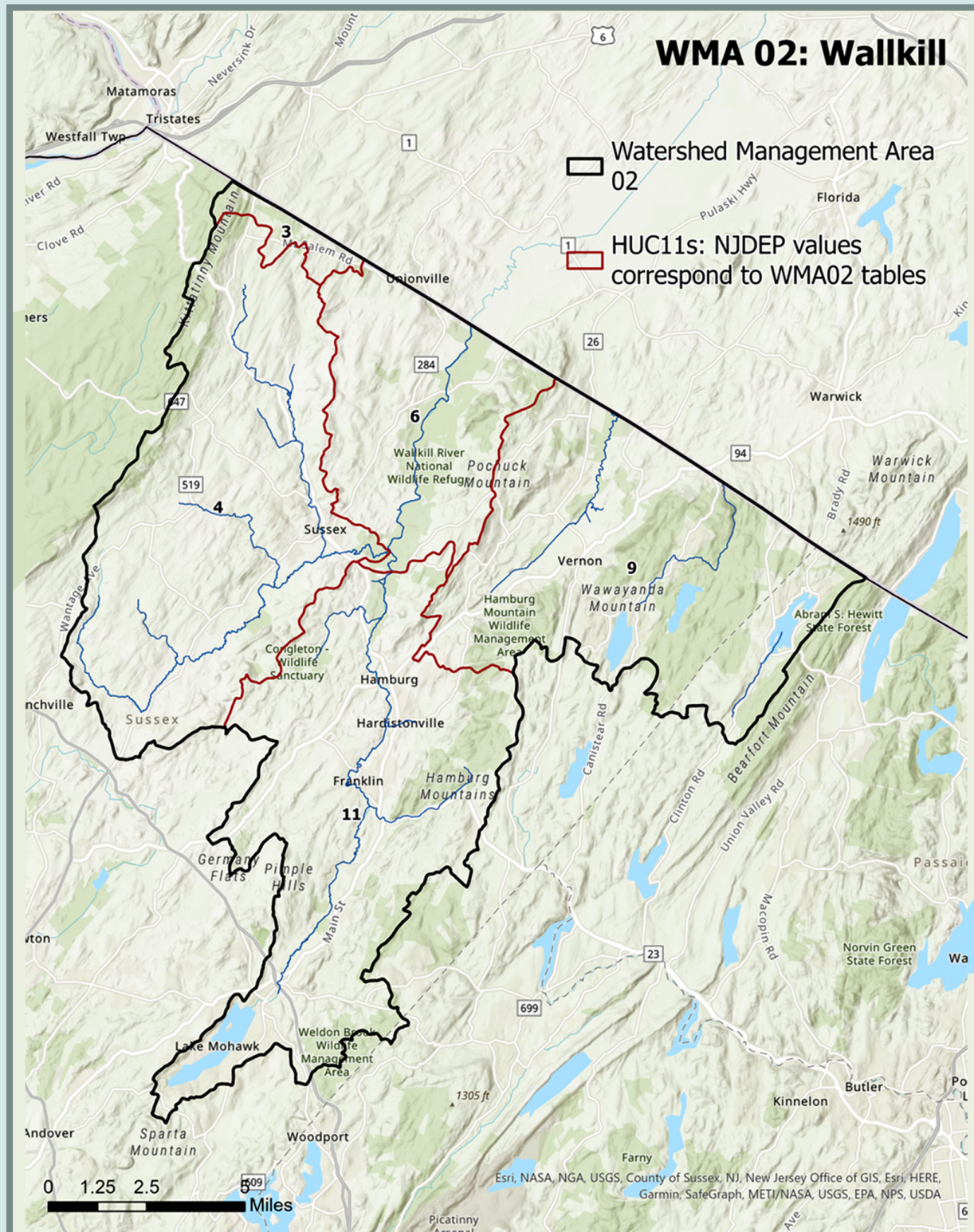


Table 2.A Summary of HUC11 Area, Low Flow Margin, and Water Availability Considerations

DEP Value	HUC11	HUC11 Name	HUC11 Area (mi ²)	Watershed Area (mi ²)	September Median Flow (mgd)	7Q10 (mgd)	LFM Percentage	LFM (mgd)	NJ Highlands ²	Major SW Potable Supply ³	Potentially 7Q10 Limited ⁴	Lim. Avail. HUC Upstream	In a Stressed WMA	Number of Stressed 3-Yr Periods	Has Saline Discharge
3	02020007000	Rutgers Creek tribs	3.2	3.2	Not Calc.	Not Calc.	25%	0.3						0	
11	02020007010	Wallkill River (above road to Martins)	61.0	61.0	11.1	2.7	25%	8.4	Partial		Yes			0	
4	02020007020	Papakating Creek	60.6	60.6	6.2	1.2	25%	5.0			Yes			0	
6	02020007030	Wallkill River (below road to Martins)	29.2	153.7	3.8	0.8	25%	3.0	Partial		Yes			0	
9	02020007040	Pochuck Creek	54.3	106.1	10.7	2.6	25%	8.1	All		Yes			0	

Table 2.B Summary of HUC11 Remaining Available Water and Full Allocation

					Current			Full Allocation (F.A.)			Largest Dep-Con Loss			
DEP Value	HUC11	HUC11 Name	Peak Year With. ⁵	Available Water (mgd)	Net Dep-Con (mgd)	% Available Used	Remaining Available Water (mgd)	Net Dep-Con (mgd)	% Available Used	Remaining Available Water (mgd)	Largest Loss Current Use	Largest Loss % Available Water (Current)	Largest Loss F.A. Use	Largest Loss % Available Water (F.A.)
3	02020007000	Rutgers Creek tribs												
11	02020007010	Wallkill River (above road to Martins)	2016	2.1	1.2	57%	0.9	2.5	116%	0.0	Potable	31%	Potable	90%
4	02020007020	Papakating Creek	2013	1.2	0.4	29%	0.9	1.4	111%	0.0	Potable	24%	Potable	100%
6	02020007030	Wallkill River (below road to Martins)	2014	0.7	0.1	15%	0.6	0.8	103%	0.0	Potable	15%	Potable	100%
9	02020007040	Pochuck Creek	2017	2.0	1.0	49%	1.0	3.3	161%	0.0	Potable	49%	Potable	100%

Table 2.C Summary of HUC11 Withdrawals in Millions of Gallons per Day (mgd)

			Public Supply		Domestic	Com/Ind/Min		Ag/Irr		Non-Ag Irr		Power Gen		Combined				RSW Withdrawals
DEP Value	HUC11	HUC11 Name	UnGW	Non-RSW SW	UnGW	UnGW	SW	UnGW	SW	UnGW	SW	UnGW	SW	SFD Adj UnGW	SW	Leakage	Total	
3	02020007000	Rutgers Creek tribs	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
11	02020007010	Wallkill River (above road to Martins)	1.9	0.0	0.6	0.2	0.1	0.0	0.0	0.3	0.3	0.0	0.0	2.7	0.4	0.0	3.0	0.7
4	02020007020	Papakating Creek	0.0	0.2	0.7	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.6	0.3	0.0	0.9	0.0
6	02020007030	Wallkill River (below road to Martins)	0.0	0.0	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6	0.0	0.0	0.6	0.0
9	02020007040	Pochuck Creek	0.9	0.0	1.2	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.1	0.0	0.0	2.1	0.0

Table 2.D Summary of HUC11 Discharges in Millions of Gallons per Day (mgd)

			Sanitary Sewer			Domestic Septic	Com/Ind/Min		Ag/Irr		Non-Ag Irr		Power Gen		Combined		
DEP Value	HUC11	HUC11 Name	UnGW	SW Fresh	SW Saline		UnGW	SW	UnGW	SW	UnGW	SW	UnGW	SW	UnGW	SW	Total
3	02020007000	Rutgers Creek tribs	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
11	02020007010	Wallkill River (above road to Martins)	0.0	1.1	0.0	0.4	0.2	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.6	1.2	1.8
4	02020007020	Papakating Creek	0.0	0.0	0.0	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.0	0.5
6	02020007030	Wallkill River (below road to Martins)	0.0	0.0	0.0	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.0	0.4
9	02020007040	Pochuck Creek	0.0	0.0	0.0	0.9	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.1	0.0	1.1

Notes (applicability may vary by WMA)

1. There are some watersheds upstream of WMA where depletive and consumptive uses are occurring, but this analysis does not account for out of state water use.
2. New or increased diversions within HUC11s located completely or partially within the Highlands will be addressed on a case-by-case basis in cooperation with the Highlands Council.
3. New or increased diversions upstream of potable supply reservoirs or intakes must quantify and offset any reduction to the system's safe yield.
4. The HUC11 LFM method available water exceeds 50% of the 7Q10. Additional availability analysis required.
5. Peak Year With. represents the final year of the 3-year period with the highest average withdrawals.

WATERSHED MANAGEMENT AREA 03 - POMPTON, PEQUANNOCK, WANAQUE, AND RAMAPO¹

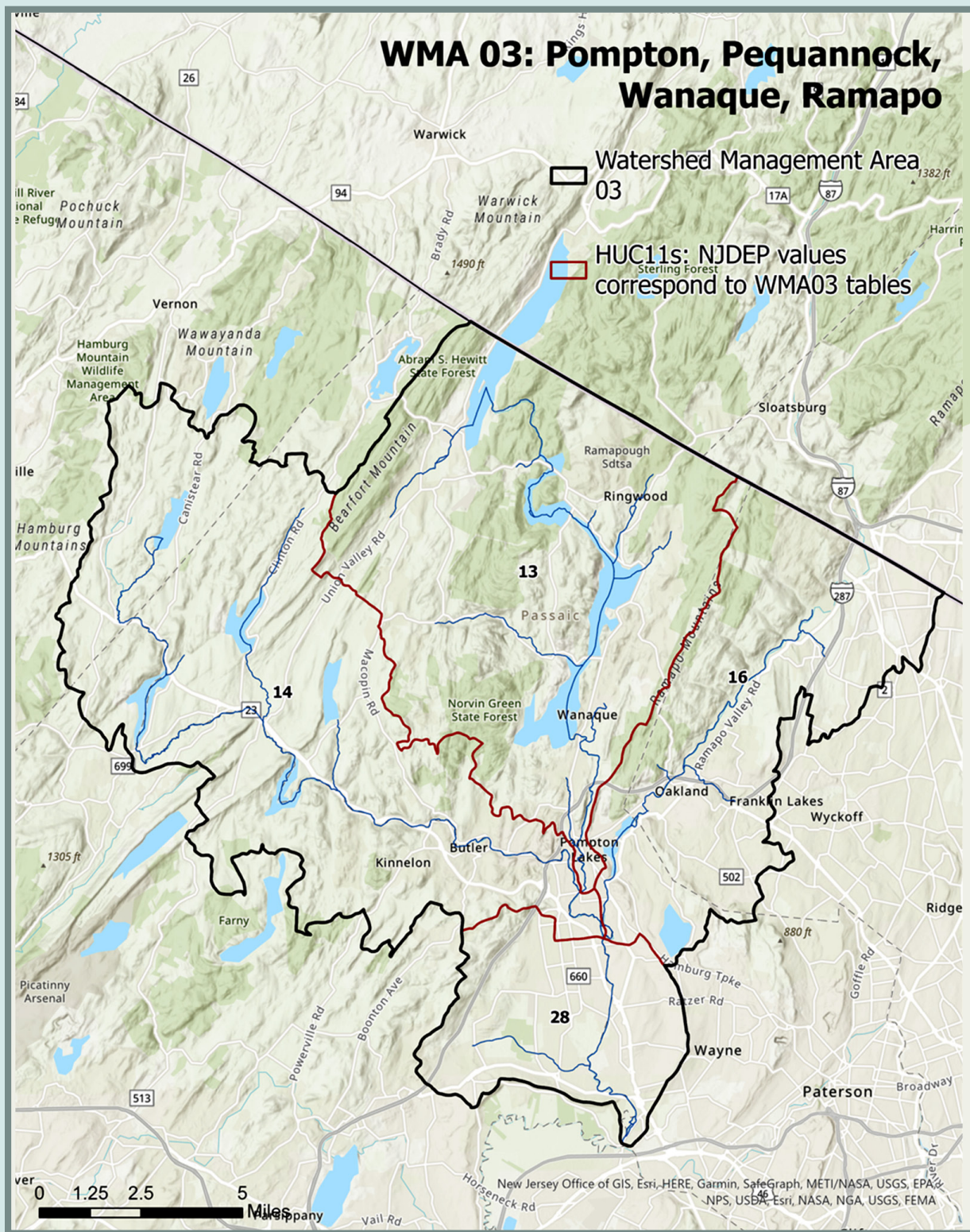


Table 3.A Summary of HUC11 Area, Low Flow Margin, and Water Availability Considerations

DEP Value	HUC11	HUC11 Name	HUC11 Area (mi ²)	Watershed Area (mi ²)	September Median Flow (mgd)	7Q10 (mgd)	LFM Percentage	LFM (mgd)	NJ Highlands ²	Major SW Potable Supply ³	Potentially 7Q10 Limited ⁴	Lim. Avail. HUC Upstream	In a Stressed WMA	Number of Stressed 3-Yr Periods	Has Saline Discharge
14	02030103050	Pequannock River	86.8	193.6	18.4	4.9	25%	13.5	All	Yes	Yes			0	
13	02030103070	Wanaque River	79.2	106.8	14.9	3.7	25%	11.2	All	Yes	Yes			0	
16	02030103100	Ramapo River	47.8	161.0	8.0	3.0	25%	5.0	Partial	Yes				8	
28	02030103110	Pompton River	24.0	378.6	4.6	0.9	25%	3.7	Partial	Yes	Yes	Yes		0	

Table 3.B Summary of HUC11 Remaining Available Water and Full Allocation

					Current			Full Allocation (F.A.)			Largest Dep-Con Loss			
DEP Value	HUC11	HUC11 Name	Peak Year With. ⁵	Available Water (mgd)	Net Dep-Con (mgd)	% Available Used	Remaining Available Water (mgd)	Net Dep-Con (mgd)	% Available Used	Remaining Available Water (mgd)	Largest Loss Current Use	Largest Loss % Available Water (Current)	Largest Loss F.A. Use	Largest Loss % Available Water (F.A.)
14	02030103050	Pequannock River	2013	3.4	2.0	58%	1.4	3.1	91%	0.3	Potable	58%	Potable	91%
13	02030103070	Wanaque River	2015	2.8	1.7	62%	1.1	3.6	128%	0.0	Potable	62%	Potable	100%
16	02030103100	Ramapo River	2014	1.3	5.8	465%	0.0	6.5	515%	0.0	Potable	100%	Potable	100%
28	02030103110	Pompton River	2016	0.9	-1.4	Net Gain	2.3	1.1	114%	0.0	Non-Ag Irr	19%	Potable	43%

Table 3.C Summary of HUC11 Withdrawals in Millions of Gallons per Day (mgd)

			Public Supply		Domestic	Com/Ind/Min		Ag/Irr		Non-Ag Irr		Power Gen		Combined				RSW Withdrawals
DEP Value	HUC11	HUC11 Name	UnGW	Non-RSW SW	UnGW	UnGW	SW	UnGW	SW	UnGW	SW	UnGW	SW	SFD Adj UnGW	SW	Leakage	Total	
14	02030103050	Pequannock River	2.1	0.0	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.9	0.0	0.0	2.9	31.5
13	02030103070	Wanaque River	2.8	0.0	1.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	3.6	0.1	0.0	3.7	114.0
16	02030103100	Ramapo River	7.2	0.0	0.5	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.3	0.0	0.0	7.3	0.0
28	02030103110	Pompton River	2.9	0.0	0.3	0.0	0.8	0.0	0.1	0.2	0.0	0.0	0.0	3.0	0.9	0.0	4.0	83.5

Table 3.D Summary of HUC11 Discharges in Millions of Gallons per Day (mgd)

			Sanitary Sewer			Domestic Septic	Com/Ind/Min		Ag/Irr		Non-Ag Irr		Power Gen		Combined		
DEP Value	HUC11	HUC11 Name	UnGW	SW Fresh	SW Saline		UnGW	SW	UnGW	SW	UnGW	SW	UnGW	SW	UnGW	SW	Total
14	02030103050	Pequannock River	0.0	0.1	0.0	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.9	0.1	1.0
13	02030103070	Wanaque River	0.0	0.9	0.0	0.8	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	1.0	1.0	2.0
16	02030103100	Ramapo River	0.0	0.8	0.0	0.4	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6	0.8	1.4
28	02030103110	Pompton River	0.0	4.3	0.0	0.2	0.0	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.2	5.1	5.3

Notes (applicability may vary by WMA)

1. There are some watersheds upstream of WMA where depletive and consumptive uses are occurring, but this analysis does not account for out of state water use.
2. New or increased diversions within HUC11s located completely or partially within the Highlands will be addressed on a case-by-case basis in cooperation with the Highlands Council.
3. New or increased diversions upstream of potable supply reservoirs or intakes must quantify and offset any reduction to the system's safe yield.
4. The HUC11 LFM method available water exceeds 50% of the 7Q10. Additional availability analysis required.
5. Peak Year With. represents the final year of the 3-year period with the highest average withdrawals.

WATERSHED MANAGEMENT AREA 04 - LOWER PASSAIC AND SADDLE¹

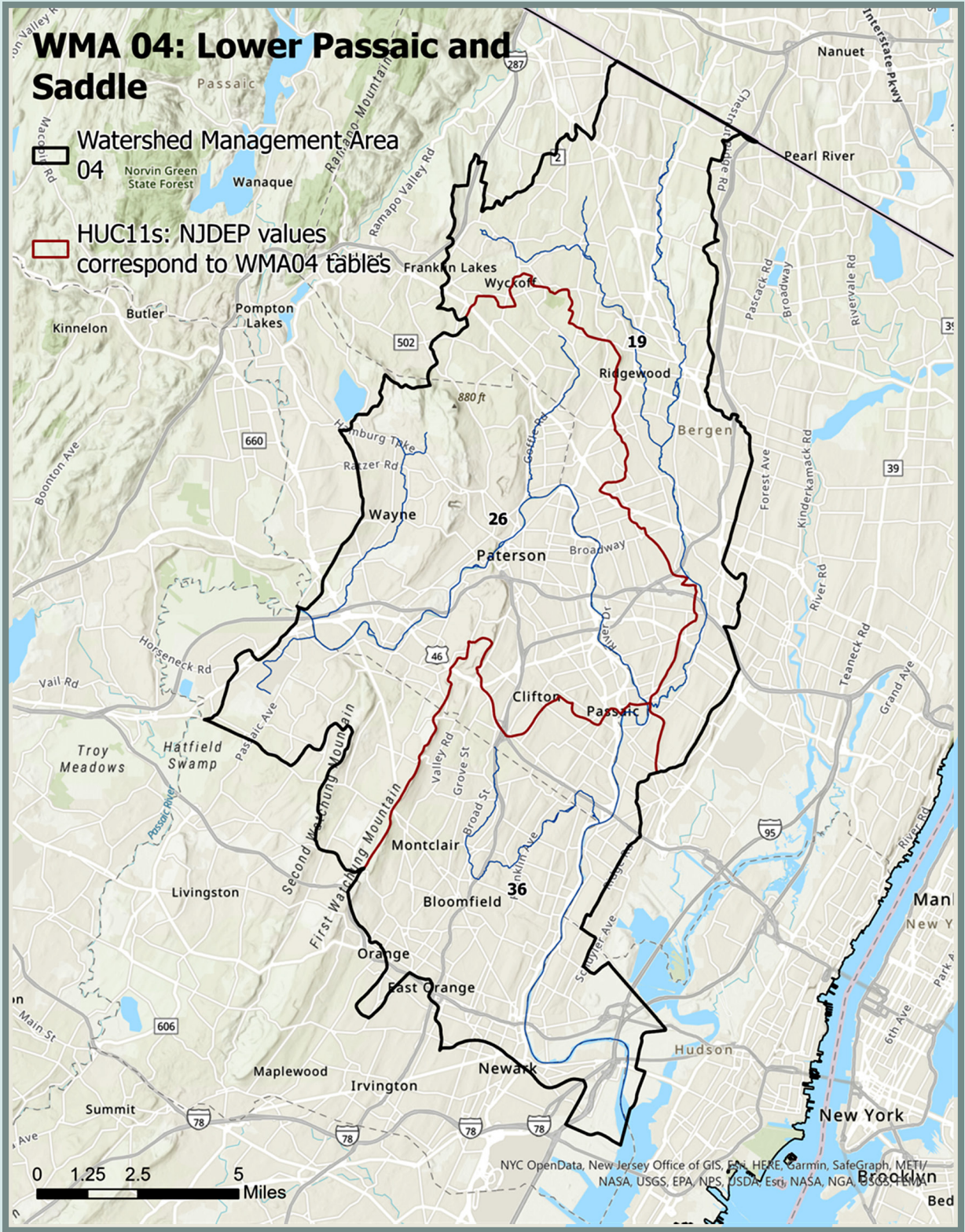


Table 4.A Summary of HUC11 Area, Low Flow Margin, and Water Availability Considerations

DEP Value	HUC11	HUC11 Name	HUC11 Area (mi ²)	Watershed Area (mi ²)	September Median Flow (mgd)	7Q10 (mgd)	LFM Percentage	LFM (mgd)	NJ Highlands ²	Major SW Potable Supply ³	Potentially 7Q10 Limited ⁴	Lim. Avail. HUC Upstream	In a Stressed WMA	Number of Stressed 3-Yr Periods	Has Saline Discharge
26	02030103120	Passaic River Lower (Saddle to Pompton)	83.4	823.3	16.3	6.0	25%	10.3		Yes		Yes		4	
19	02030103140	Saddle River	51.5	59.5	28.7	13.7	25%	15.0	Partial	Yes				0	
36	02030103150	Passaic River Lower (Nwk Bay to Saddle)	53.6	936.3	22.5	11.9	25%	10.5				Yes		0	Yes

Table 4.B Summary of HUC11 Discharges in Millions of Gallons per Day (mgd)

					Current			Full Allocation (F.A.)			Largest Dep-Con Loss			
DEP Value	HUC11	HUC11 Name	Peak Year With. ⁵	Available Water (mgd)	Net Dep-Con (mgd)	% Available Used	Remaining Available Water (mgd)	Net Dep-Con (mgd)	% Available Used	Remaining Available Water (mgd)	Largest Loss Current Use	Largest Loss % Available Water (Current)	Largest Loss F.A. Use	Largest Loss % Available Water (F.A.)
26	02030103120	Passaic River Lower (Saddle to Pompton)	2015	2.6	4.9	190%	0.0	30.1	1,164%	0.0	Potable	100%	Pow Gen	100%
19	02030103140	Saddle River	2015	3.7	0.0	0%	3.7	8.2	218%	0.0	Non-Ag Irr	16%	Potable	100%
36	02030103150	Passaic River Lower (Nwk Bay to Saddle)	2013	2.6	2.2	84%	0.4	4.7	180%	0.0	Potable	73%	Potable	100%

Table 4.C Summary of HUC11 Withdrawals in Millions of Gallons per Day (mgd)

			Public Supply		Domestic	Com/Ind/Min		Ag/Irr		Non-Ag Irr		Power Gen		Combined				RSW Withdrawals
DEP Value	HUC11	HUC11 Name	UnGW	Non-RSW SW	UnGW	UnGW	SW	UnGW	SW	UnGW	SW	UnGW	SW	SFD Adj UnGW	SW	Leakage	Total	
26	02030103120	Passaic River Lower (Saddle to Pompton)	12.8	0.0	0.8	0.9	1.9	0.1	0.0	0.4	0.2	0.0	0.0	13.5	2.2	0.0	15.6	70.9
19	02030103140	Saddle River	9.2	0.0	1.2	0.2	1.2	0.1	0.0	0.7	0.1	0.0	0.0	10.3	1.3	0.0	11.5	1.1
36	02030103150	Passaic River Lower (Nwk Bay to Saddle)	2.1	0.0	0.1	0.3	0.0	0.0	0.0	0.2	0.2	0.0	0.0	2.4	0.2	0.0	2.6	0.0

Table 4.D Summary of HUC11 Discharges in Millions of Gallons per Day (mgd)

			Sanitary Sewer			Domestic Septic	Com/Ind/Min		Ag/Irr		Non-Ag Irr		Power Gen		Combined		
DEP Value	HUC11	HUC11 Name	UnGW	SW Fresh	SW Saline		UnGW	SW	UnGW	SW	UnGW	SW	UnGW	SW	UnGW	SW	Total
26	02030103120	Passaic River Lower (Saddle to Pompton)	0.0	7.5	0.0	0.6	0.8	1.7	0.0	0.0	0.0	0.0	0.0	0.0	1.4	9.3	10.7
19	02030103140	Saddle River	0.0	9.2	0.0	0.9	0.2	1.1	0.1	0.0	0.1	0.0	0.0	0.0	1.2	10.3	11.5
36	02030103150	Passaic River Lower (Nwk Bay to Saddle)	0.0	0.0	0.0	0.0	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.0	0.4

Notes (applicability may vary by WMA)

1. There are some watersheds upstream of WMA where depletive and consumptive uses are occurring, but this analysis does not account for out of state water use.
2. New or increased diversions within HUC11s located completely or partially within the Highlands will be addressed on a case-by-case basis in cooperation with the Highlands Council.
3. New or increased diversions upstream of potable supply reservoirs or intakes must quantify and offset any reduction to the system's safe yield.
4. The HUC11 LFM method available water exceeds 50% of the 7Q10. Additional availability analysis required.
5. Peak Year With. represents the final year of the 3-year period with the highest average withdrawals.

WATERSHED MANAGEMENT AREA 05 - HACKENSACK, HUDSON, AND PASCACK¹

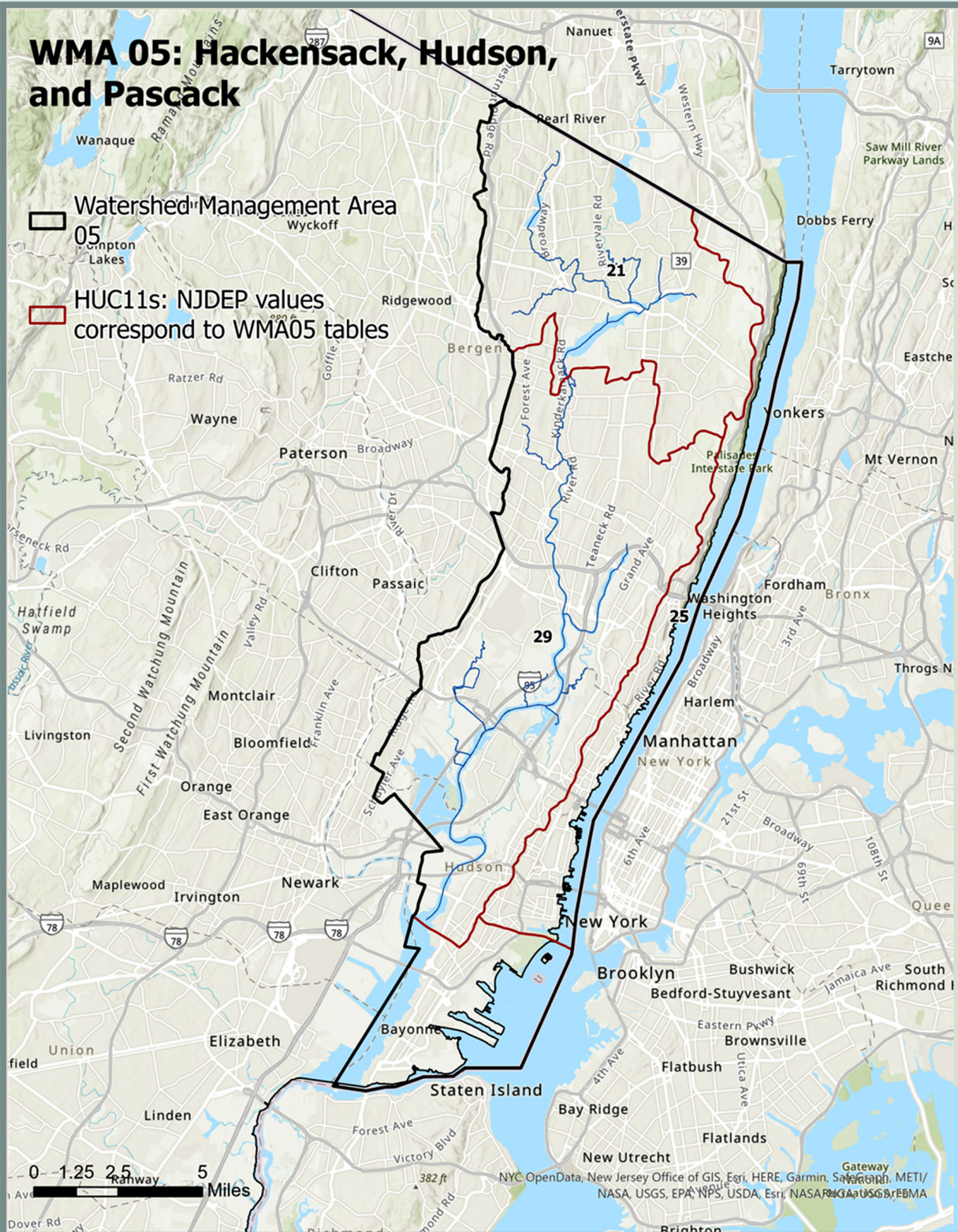


Table 5.A Summary of HUC11 Area, Low Flow Margin, and Water Availability Considerations

DEP Value	HUC11	HUC11 Name	HUC11 Area (mi ²)	Watershed Area (mi ²)	September Median Flow (mgd)	7Q10 (mgd)	LFM Percentage	LFM (mgd)	NJ Highlands ²	Major SW Potable Supply ³	Potentially 7Q10 Limited ⁴	Lim. Avail. HUC Upstream	In a Stressed WMA	Number of Stressed 3-Yr Periods	Has Saline Discharge
25	02030101170	Hudson River	29.1	44.4	8.3	4.1	25%	4.2						0	Yes
21	02030103170	Hackensack R (above Hirshfeld Brook)	50.9	112.4	20.8	11.7	25%	9.0		Yes				8	
29	02030103180	Hackensack R (below/incl Hirshfeld Bk)	85.1	197.4	19.1	9.1	25%	10.0		Yes		Yes		0	Yes

Table 5.B Summary of HUC11 Remaining Available Water and Full Allocation

					Current			Full Allocation (F.A.)			Largest Dep-Con Loss			
DEP Value	HUC11	HUC11 Name	Peak Year With. ⁵	Available Water (mgd)	Net Dep-Con (mgd)	% Available Used	Remaining Available Water (mgd)	Net Dep-Con (mgd)	% Available Used	Remaining Available Water (mgd)	Largest Loss Current Use	Largest Loss % Available Water (Current)	Largest Loss F.A. Use	Largest Loss % Available Water (F.A.)
25	02030101170	Hudson River	2019	1.0	0.0	4%	1.0	0.1	8%	1.0	Non-Ag Irr	3%	Potable	6%
21	02030103170	Hackensack R (above Hirshfeld Brook)	2017	2.3	4.0	177%	0.0	6.4	283%	0.0	Potable	100%	Potable	100%
29	02030103180	Hackensack R (below/incl Hirshfeld Bk)	2015	2.5	-1.9	Net Gain	4.4	-1.4	Net Gain	3.9	Non-Ag Irr	11%	Non-Ag Irr	31%

Table 5.C Summary of HUC11 Withdrawals in Millions of Gallons per Day (mgd)

			Public Supply		Domestic	Com/Ind/Min		Ag/Irr		Non-Ag Irr		Power Gen		Combined				RSW Withdrawals
DEP Value	HUC11	HUC11 Name	UnGW	Non-RSW SW	UnGW	UnGW	SW	UnGW	SW	UnGW	SW	UnGW	SW	SFD Adj UnGW	SW	Leakage	Total	
25	02030101170	Hudson River	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.1	0.0
21	02030103170	Hackensack R (above Hirshfeld Brook)	4.2	0.0	0.5	0.1	0.0	0.0	0.0	0.1	0.1	0.0	0.0	4.4	0.1	0.0	4.5	100.1
29	02030103180	Hackensack R (below/incl Hirshfeld Bk)	0.3	0.0	0.1	0.5	0.0	0.0	0.0	0.2	0.1	0.0	0.0	0.9	0.1	0.0	1.1	1.3

Table 3.D Summary of HUC11 Discharges in Millions of Gallons per Day (mgd)

DEP Value	HUC11	HUC11 Name	Sanitary Sewer			Domestic Septic	Com/Ind/Min		Ag/Irr		Non-Ag Irr		Power Gen		Combined		
			UnGW	SW Fresh	SW Saline		UnGW	SW	UnGW	SW	UnGW	SW	UnGW	SW	UnGW	SW	Total
25	02030101170	Hudson River	0.0	0.0	26.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.1
21	02030103170	Hackensack R (above Hirshfeld Brook)	0.0	0.0	0.0	0.4	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.0	0.5
29	02030103180	Hackensack R (below/ incl Hirshfeld Bk)	0.0	2.5	56.0	0.0	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	2.5	3.0

Notes (applicability may vary by WMA)

1. There are some watersheds upstream of WMA where depletive and consumptive uses are occurring, but this analysis does not account for out of state water use.
2. New or increased diversions within HUC11s located completely or partially within the Highlands will be addressed on a case-by-case basis in cooperation with the Highlands Council.
3. New or increased diversions upstream of potable supply reservoirs or intakes must quantify and offset any reduction to the system's safe yield.
4. The HUC11 LFM method available water exceeds 50% of the 7Q10. Additional availability analysis required.
5. Peak Year With. represents the final year of the 3-year period with the highest average withdrawals.

WATERSHED MANAGEMENT AREA 06 - UPPER AND MIDDLE PASSAIC, WHIPPANY, AND ROCKAWAY

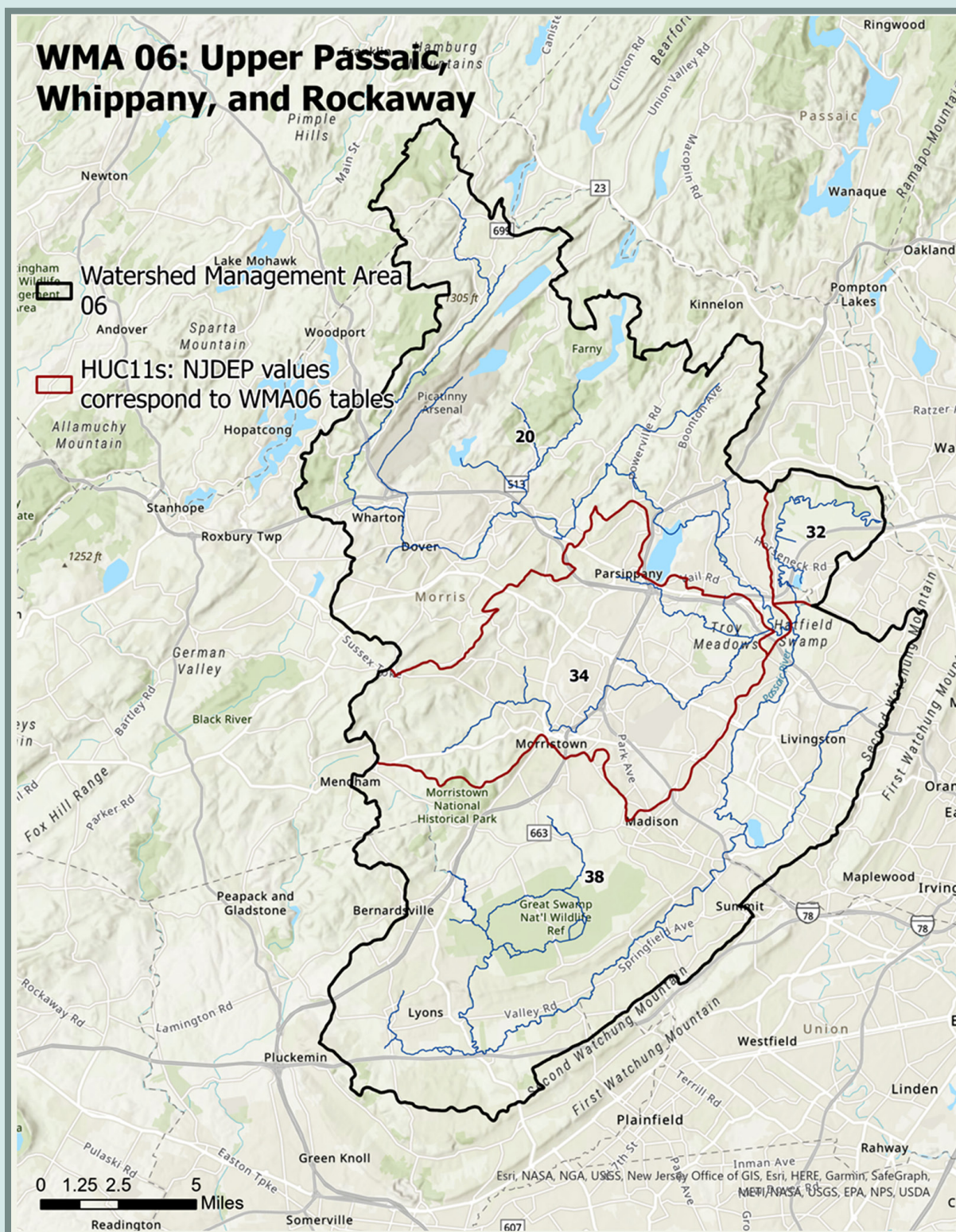


Table 6.A Summary of HUC11 Area, Low Flow Margin, and Water Availability Considerations

DEP Value	HUC11	HUC11 Name	HUC11 Area (mi ²)	Watershed Area (mi ²)	September Median Flow (mgd)	7Q10 (mgd)	LFM Percentage	LFM (mgd)	NJ Highlands ²	Major SW Potable Supply ³	Potentially 7Q10 Limited ⁴	Lim. Avail. HUC Upstream	In a Stressed WMA	Number of Stressed 3-Yr Periods	Has Saline Discharge
38	02030103010	Passaic River Upr (above Pine Bk br)	143.2	349.4	29.7	7.1	25%	22.7	Partial	Yes	Yes	Yes	Yes	5	
34	02030103020	Whippany River	69.6	69.6	17.8	5.6	25%	12.2	Partial	Yes	Yes		Yes	8	
20	02030103030	Rockaway River	136.8	206.3	30.4	7.9	25%	22.5	All	Yes	Yes		Yes	0	
32	02030103040	Passaic River Upr (Pompton to Pine Bk)	11.9	361.3	2.7	0.7	25%	2.0	Partial	Yes	Yes	Yes	Yes	0	

Table 6.B Summary of HUC11 Remaining Available Water and Full Allocation

					Current			Full Allocation (F.A.)			Largest Dep-Con Loss			
DEP Value	HUC11	HUC11 Name	Peak Year With. ⁵	Available Water (mgd)	Net Dep-Con (mgd)	% Available Used	Remaining Available Water (mgd)	Net Dep-Con (mgd)	% Available Used	Remaining Available Water (mgd)	Largest Loss Current Use	Largest Loss % Available Water (Current)	Largest Loss F.A. Use	Largest Loss % Available Water (F.A.)
38	02030103010	Passaic River Upr (above Pine Bk br)	2017	5.7	8.4	147%	0.0	22.7	400%	0.0	Potable	100%	Potable	100%
34	02030103020	Whippany River	2017	3.0	12.2	402%	0.0	14.7	483%	0.0	Potable	100%	Potable	100%
20	02030103030	Rockaway River	2016	5.6	-4.6	Net Gain	10.2	3.3	59%	2.3	Non-Ag Irr	4%	Potable	24%
32	02030103040	Passaic River Upr (Pompton to Pine Bk)	2013	0.5	0.1	21%	0.4	0.3	52%	0.2	Potable	18%	Potable	27%

Table 6.C Summary of HUC11 Withdrawals in Millions of Gallons per Day (mgd)

			Public Supply		Domestic	Com/Ind/Min		Ag/Irr		Non-Ag Irr		Power Gen		Combined				RSW Withdrawals
DEP Value	HUC11	HUC11 Name	UnGW	Non-RSW SW	UnGW	UnGW	SW	UnGW	SW	UnGW	SW	UnGW	SW	SFD Adj UnGW	SW	Leakage	Total	
38	02030103010	Passaic River Upr (above Pine Bk br)	22.7	0.0	1.0	0.5	0.0	0.0	0.0	0.4	0.5	0.0	0.0	22.2	0.5	0.0	22.7	0.0
34	02030103020	Whippany River	17.9	0.0	0.3	0.7	0.0	0.0	0.0	0.1	0.1	0.0	0.0	17.1	0.1	0.0	17.2	2.1
20	02030103030	Rockaway River	10.2	0.8	2.0	0.3	0.1	0.0	0.0	0.1	0.2	0.0	0.0	11.4	1.0	0.0	12.4	48.3
32	02030103040	Passaic River Upr (Pompton to Pine Bk)	0.1	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.0	0.0	0.2	0.0

Table 6.D Summary of HUC11 Discharges in Millions of Gallons per Day (mgd)

			Sanitary Sewer			Domestic Septic	Com/Ind/Min		Ag/Irr		Non-Ag Irr		Power Gen		Combined		
DEP Value	HUC11	HUC11 Name	UnGW	SW Fresh	SW Saline		UnGW	SW	UnGW	SW	UnGW	SW	UnGW	SW	UnGW	SW	Total
38	02030103010	Passaic River Upr (above Pine Bk br)	0.0	13.0	0.0	0.7	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.3	13.1	14.3
34	02030103020	Whippany River	0.0	4.1	0.0	0.2	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.9	4.1	4.9
20	02030103030	Rockaway River	0.0	15.1	0.0	1.5	0.3	0.1	0.0	0.0	0.0	0.0	0.0	0.0	1.8	15.2	17.0
32	02030103040	Passaic River Upr (Pompton to Pine Bk)	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.1

Notes (applicability may vary by WMA)

1. There are some watersheds upstream of WMA where depletive and consumptive uses are occurring, but this analysis does not account for out of state water use.
2. New or increased diversions within HUC11s located completely or partially within the Highlands will be addressed on a case-by-case basis in cooperation with the Highlands Council.
3. New or increased diversions upstream of potable supply reservoirs or intakes must quantify and offset any reduction to the system's safe yield.
4. The HUC11 LFM method available water exceeds 50% of the 7Q10. Additional availability analysis required.
5. Peak Year With. represents the final year of the 3-year period with the highest average withdrawals.

WATERSHED MANAGEMENT AREA 07 - ARTHUR KILL

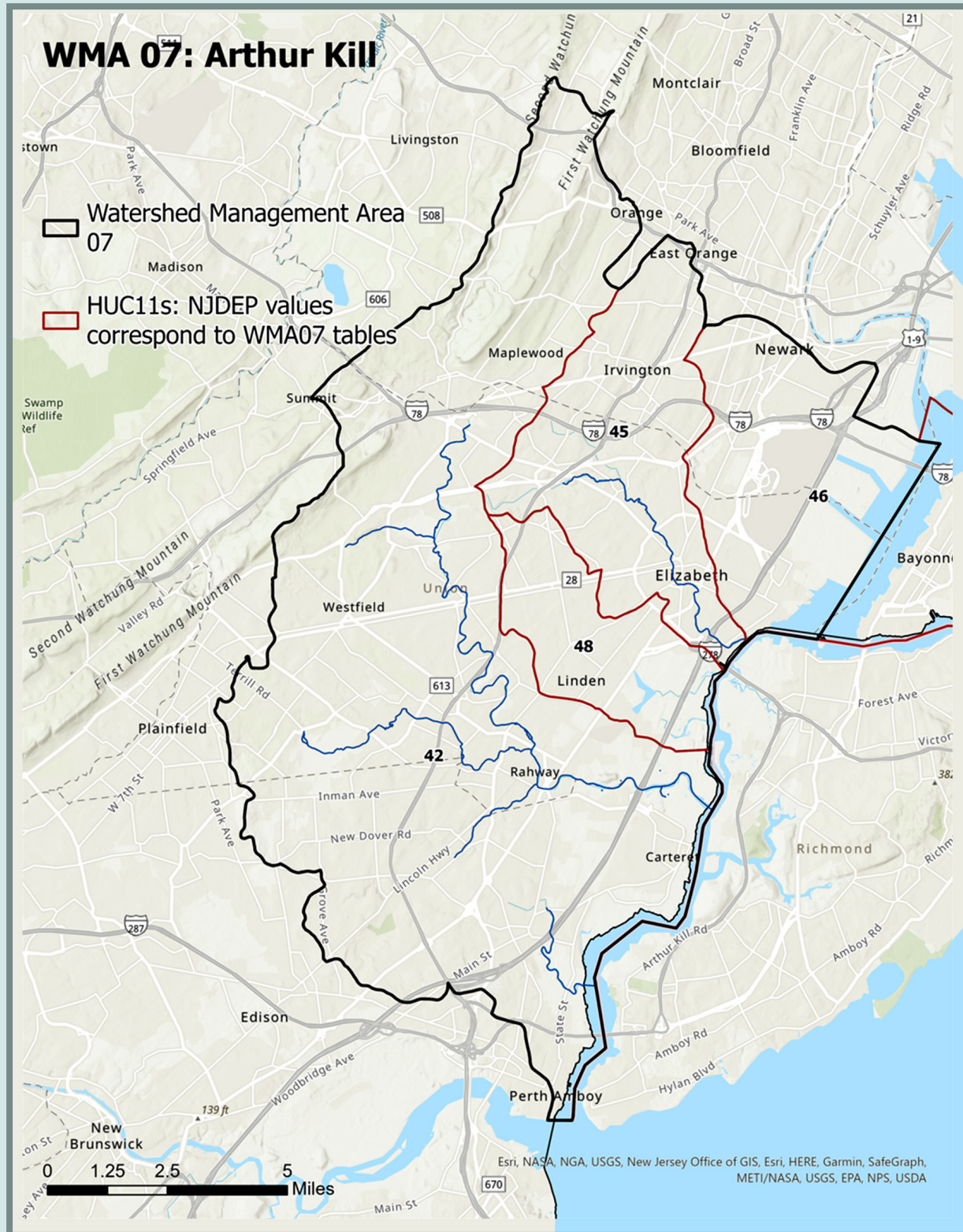


Table 7.A Summary of HUC11 Area, Low Flow Margin, and Water Availability Considerations

DEP Value	HUC11	HUC11 Name	HUC11 Area (mi ²)	Watershed Area (mi ²)	September Median Flow (mgd)	7Q10 (mgd)	LFM Percentage	LFM (mgd)	NJ Highlands ²	Major SW Potable Supply ³	Potentially 7Q10 Limited ⁴	Lim. Avail. HUC Upstream	In a Stressed WMA	Number of Stressed 3-Yr Periods	Has Saline Discharge
46	02030104010	Newark Bay / Kill Van Kull / Upr NY Bay	43.6	967.0	Not Calc.	Not Calc.	25%	8.7				Yes	Yes	0	Yes
45	02030104020	Elizabeth River	22.9	42.8	10.4	5.7	25%	4.7					Yes	5	Yes
48	02030104030	Morses Creek / Piles Creek	12.0	11.8	2.6	1.2	25%	1.4					Yes	0	
42	02030104050	Rahway River / Woodbridge Creek	101.1	99.2	16.2	6.7	25%	9.5					Yes	8	Yes

Table 7.B Summary of HUC11 Area, Low Flow Margin, and Water Availability Considerations

					Current			Full Allocation (F.A.)			Largest Dep-Con Loss			
DEP Value	HUC11	HUC11 Name	Peak Year With. ⁵	Available Water (mgd)	Net Dep-Con (mgd)	% Available Used	Remaining Available Water (mgd)	Net Dep-Con (mgd)	% Available Used	Remaining Available Water (mgd)	Largest Loss Current Use	Largest Loss % Available Water (Current)	Largest Loss F.A. Use	Largest Loss % Available Water (F.A.)
46	02030104010	Newark Bay / Kill Van Kull / Upr NY Bay												
45	02030104020	Elizabeth River	2013	1.2	2.4	204%	0.0	3.0	258%	0.0	Potable	100%	Potable	100%
48	02030104030	Morses Creek / Piles Creek	2013	0.3	0.0	14%	0.3	0.0	Net Gain	0.4	Non-Ag Irr	13%	Com/Ind/M in	0%
42	02030104050	Rahway River / Woodbridge Creek	2014	2.4	14.6	610%	0.0	29.8	1250%	0.0	Potable	100%	Potable	100%

Table 7.C Summary of HUC11 Withdrawals in Millions of Gallons per Day (mgd)

			Public Supply		Domestic	Com/Ind/Min		Ag/Irr		Non-Ag Irr		Power Gen		Combined				RSW Withdrawals
DEP Value	HUC11	HUC11 Name	UnGW	Non-RSW SW	UnGW	UnGW	SW	UnGW	SW	UnGW	SW	UnGW	SW	SFD Adj UnGW	SW	Leakage	Total	
46	02030104010	Newark Bay / Kill Van Kull / Upr NY Bay	0.0	0.0	0.0	0.4	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.4	0.1	0.0	0.5	0.0
45	02030104020	Elizabeth River	2.6	0.0	0.0	0.3	0.0	0.0	0.0	0.1	0.0	0.0	0.0	2.7	0.0	0.0	2.7	0.0
48	02030104030	Morses Creek / Piles Creek	0.0	0.0	0.0	1.1	0.0	0.0	0.0	0.1	0.0	0.0	3.1	1.1	3.1	0.0	4.2	0.0
42	02030104050	Rahway River / Woodbridge Creek	9.5	5.1	0.2	0.5	0.0	0.0	0.0	0.7	0.3	0.0	0.0	9.9	5.5	0.0	15.3	0.0

Table 7.D Summary of HUC11 Discharges in Millions of Gallons per Day (mgd)

			Sanitary Sewer			Domestic Septic	Com/Ind/Min		Ag/Irr		Non-Ag Irr		Power Gen		Combined		
DEP Value	HUC11	HUC11 Name	UnGW	SW Fresh	SW Saline		UnGW	SW	UnGW	SW	UnGW	SW	UnGW	SW	UnGW	SW	Total
46	02030104010	Newark Bay / Kill Van Kull / Upr NY Bay	0.0	0.0	217.2	0.0	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.0	0.4
45	02030104020	Elizabeth River	0.0	0.0	54.8	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.0	0.3
48	02030104030	Morses Creek / Piles Creek	0.0	0.0	0.0	0.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	3.1	1.0	3.1	4.2
42	02030104050	Rahway River / Woodbridge Creek	0.0	0.0	31.2	0.2	0.5	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.7	0.0	0.8

Notes (applicability may vary by WMA)

1. There are some watersheds upstream of WMA where depletive and consumptive uses are occurring, but this analysis does not account for out of state water use.
2. New or increased diversions within HUC11s located completely or partially within the Highlands will be addressed on a case-by-case basis in cooperation with the Highlands Council.
3. New or increased diversions upstream of potable supply reservoirs or intakes must quantify and offset any reduction to the system's safe yield.
4. The HUC11 LFM method available water exceeds 50% of the 7Q10. Additional availability analysis required.
5. Peak Year With. represents the final year of the 3-year period with the highest average withdrawals.

WATERSHED MANAGEMENT AREA 08 - NORTH AND SOUTH BRANCH RARITAN

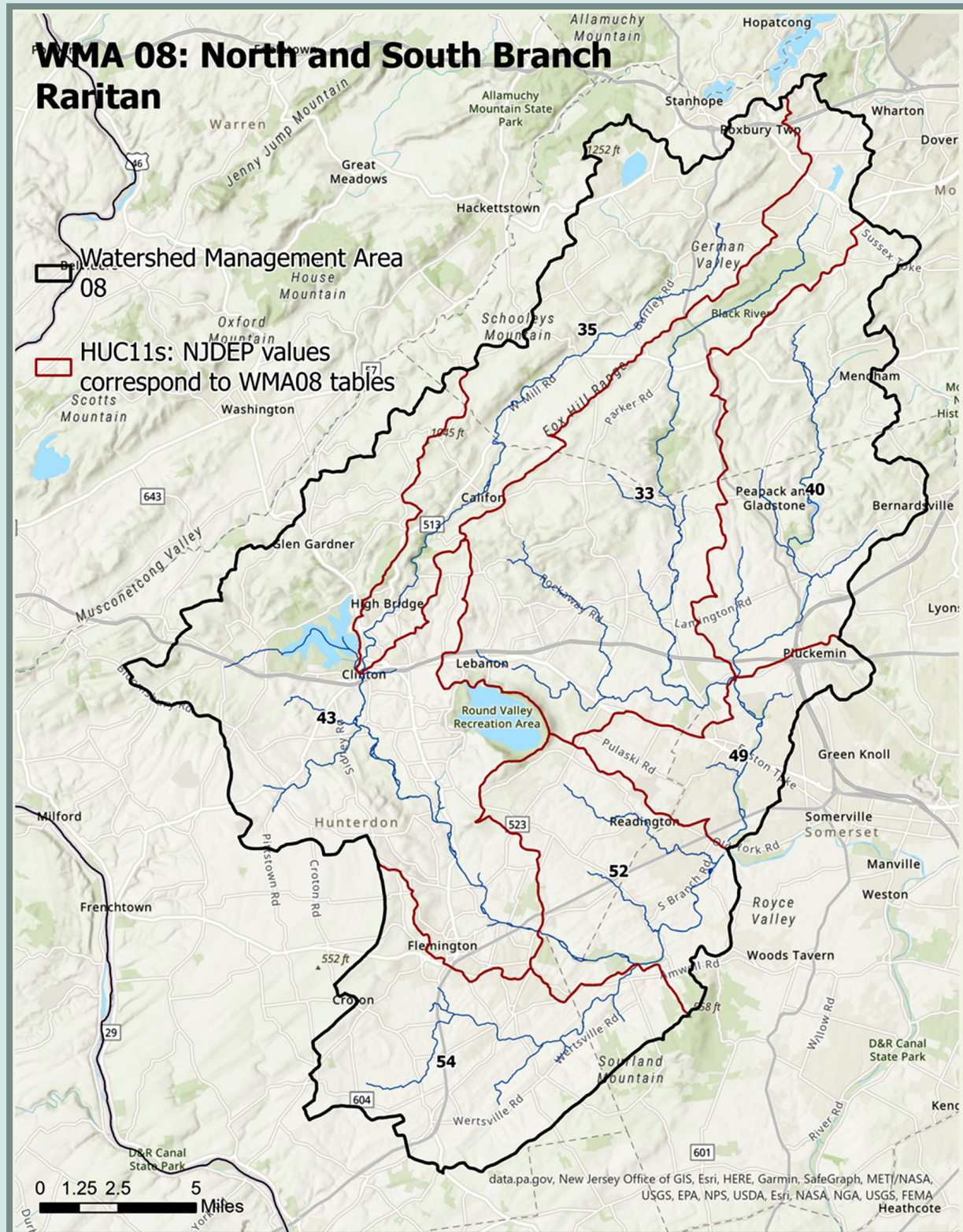


Table 8.A Summary of HUC11 Area, Low Flow Margin, and Water Availability Considerations

DEP Value	HUC11	HUC11 Name	HUC11 Area (mi ²)	Watershed Area (mi ²)	September Median Flow (mgd)	7Q10 (mgd)	LFM Percentage	LFM (mgd)	NJ Highlands ²	Major SW Potable Supply ³	Potentially 7Q10 Limited ⁴	Lim. Avail. HUC Upstream	In a Stressed WMA	Number of Stressed 3-Yr Periods	Has Saline Discharge
35	02030105010	Raritan River SB (above Spruce Run)	This HUC lies fully within the boundaries of the NJ Highlands. The Highlands Council is responsible for calculating water availability.												
43	02030105020*	Raritan River SB (3 Brgs to Spruce Run)	111.0	181.8	26.4	8.3	25%	18.1	Partial	Yes	Yes	Yes		0	
54	02030105030	Neshanic River	55.7	55.7	3.4	0.3	25%	3.1		Yes	Yes			4	
52	02030105040*	Raritan River SB (NB to Three Bridges)	41.8	279.3	8.0	1.8	25%	6.1	Partial	Yes	Yes	Yes		0	
33	02030105050*	Lamington River	99.3	99.2	32.7	9.5	25%	23.2	Partial	Yes	Yes			0	
40	02030105060	Raritan River NB (above Lamington)	This HUC lies fully within the boundaries of the NJ Highlands. The Highlands Council is responsible for calculating water availability.												
49	02030105070*	Raritan River NB (SB to Lamington)	25.5	188.7	2.1	0.3	25%	1.8	Partial	Yes	Yes			0	

*The Highlands Council has responsibility for the calculation of water availability in those watersheds located in the Highlands Region. The Highlands Council utilizes HUC14s to analyze water availability and imposes low flow margin thresholds based on the Regional Master Plan Land Use Capability Zones of each HUC14. These thresholds and other specifics regarding the Highlands Council's processes can be found in the Highlands Regional Master Plan and the associated Technical Report "Water Resources Volume II: Water Use and Availability".

Table 8.B Summary of HUC11 Remaining Available Water and Full Allocation

					Current			Full Allocation (F.A.)			Largest Dep-Con Loss			
DEP Value	HUC11	HUC11 Name	Peak Year With. ⁵	Available Water (mgd)	Net Dep-Con (mgd)	% Available Used	Remaining Available Water (mgd)	Net Dep-Con (mgd)	% Available Used	Remaining Available Water (mgd)	Largest Loss Current Use	Largest Loss % Available Water (Current)	Largest Loss F.A. Use	Largest Loss % Available Water (F.A.)
35	02030105010	Raritan River SB (above Spruce Run)	This HUC lies fully within the boundaries of the NJ Highlands. The Highlands Council is responsible for calculating water availability.											
43	02030105020*	Raritan River SB (3 Brdgs to Spruce Run)	2016	4.5	-0.8	Net Gain	5.3	2.8	61%	1.8	Ag/Irr	3%	Potable	43%
54	02030105030	Neshanic River	2013	0.8	0.8	107%	0.0	2.6	336%	0.0	Potable	57%	Potable	100%
52	02030105040*	Raritan River SB (NB to Three Bridges)	2016	1.5	0.6	39%	0.9	1.7	113%	0.0	Non-Ag Irr	27%	Potable	79%
33	02030105050*	Lamington River	2016	5.8	2.4	41%	3.4	9.1	156%	0.0	Potable	32%	Potable	100%
40	02030105060	Raritan River NB (above Lamington)	This HUC lies fully within the boundaries of the NJ Highlands. The Highlands Council is responsible for calculating water availability.											
49	02030105070*	Raritan River NB (SB to Lamington)	2020	0.4	0.3	75%	0.1	1.3	302%	0.0	Potable	75%	Potable	100%

*The Highlands Council has responsibility for the calculation of water availability in those watersheds located in the Highlands Region. The Highlands Council utilizes HUC14s to analyze water availability and imposes low flow margin thresholds based on the Regional Master Plan Land Use Capability Zones of each HUC14. These thresholds and other specifics regarding the Highlands Council's processes can be found in the Highlands Regional Master Plan and the associated Technical Report "Water Resources Volume II: Water Use and Availability".

Table 8.C Summary of HUC11 Withdrawals in Millions of Gallons per Day (mgd)

			Public Supply		Domestic	Com/Ind/ Min		Ag/Irr		Non-Ag Irr		Power Gen		Combined				RSW Withdrawals
DEP Value	HUC11	HUC11 Name	UnGW	Non-RSW SW	UnGW	UnGW	SW	UnGW	SW	UnGW	SW	UnGW	SW	SFD Adj UnGW	SW	Leakage	Total	
35	02030105010	Raritan River SB (above Spruce Run)	6.4	0.0	1.2	0.0	0.0	0.3	0.0	0.1	0.1	0.0	0.0	7.2	0.2	0.0	7.3	0.0
43	02030105020	Raritan River SB (3 Brdgs to Spruce Run)	2.1	0.0	1.6	0.2	0.3	0.1	0.0	0.0	0.1	0.0	0.0	3.6	0.4	0.0	4.0	9.5
54	02030105030	Neshanic River	0.3	0.0	1.0	0.0	0.0	0.1	0.0	0.2	0.2	0.0	0.0	1.5	0.2	0.0	1.7	0.0
52	02030105040	Raritan River SB (NB to Three Bridges)	0.0	0.0	1.1	0.0	0.0	0.0	0.0	0.0	0.4	0.0	0.0	1.0	0.4	0.0	1.5	0.0
33	02030105050	Lamington River	3.9	0.0	1.1	0.1	1.1	0.1	0.0	0.1	0.3	0.0	0.0	4.8	1.4	0.0	6.2	0.0
40	02030105060	Raritan River NB (above Lamington)	0.3	0.0	1.1	0.0	0.0	0.0	0.0	0.3	0.2	0.0	0.0	1.6	0.2	0.0	1.8	0.0
49	02030105070	Raritan River NB (SB to Lamington)	0.2	0.0	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8	0.0	0.0	0.9	0.0

Table 8.D Summary of HUC11 Discharges in Millions of Gallons per Day (mgd)

			Sanitary Sewer			Domestic Septic	Com/Ind/Min		Ag/Irr		Non-Ag Irr		Power Gen		Combined		
DEP Value	HUC11	HUC11 Name	UnGW	SW Fresh	SW Saline		UnGW	SW	UnGW	SW	UnGW	SW	UnGW	SW	UnGW	SW	Total
35	02030105010	Raritan River SB (above Spruce Run)	0.0	0.9	0.0	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.9	0.9	1.8
43	02030105020	Raritan River SB (3 Brdgs to Spruce Run)	0.0	3.2	0.0	1.2	0.2	0.3	0.0	0.0	0.0	0.0	0.0	0.0	1.4	3.4	4.8
54	02030105030	Neshanic River	0.0	0.0	0.0	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8	0.0	0.8
52	02030105040	Raritan River SB (NB to Three Bridges)	0.0	0.0	0.0	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8	0.0	0.9
33	02030105050	Lamington River	0.0	1.8	0.0	0.9	0.1	1.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	2.8	3.8
40	02030105060	Raritan River NB (above Lamington)	0.0	1.8	0.0	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.9	1.8	2.7
49	02030105070	Raritan River NB (SB to Lamington)	0.0	0.0	0.0	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6	0.0	0.6

Notes (applicability may vary by WMA)

1. There are some watersheds upstream of WMA where depletive and consumptive uses are occurring, but this analysis does not account for out of state water use.
2. New or increased diversions within HUC11s located completely or partially within the Highlands will be addressed on a case-by-case basis in cooperation with the Highlands Council.
3. New or increased diversions upstream of potable supply reservoirs or intakes must quantify and offset any reduction to the system's safe yield.
4. The HUC11 LFM method available water exceeds 50% of the 7Q10. Additional availability analysis required.
5. Peak Year With. represents the final year of the 3-year period with the highest average withdrawals.

WATERSHED MANAGEMENT AREA 09 - LOWER RARITAN, SOUTH, AND LAWRENCE



Table 9.A Summary of HUC11 Area, Low Flow Margin, and Water Availability Considerations

DEP Value	HUC11	HUC11 Name	HUC11 Area (mi ²)	Watershed Area (mi ²)	September Median Flow (mgd)	7Q10 (mgd)	LFM Percentage	LFM (mgd)	NJ Highlands ²	Major SW Potable Supply ³	Potentially 7Q10 Limited ⁴	Lim. Avail. HUC Upstream	In a Stressed WMA	Number of Stressed 3-Yr Periods	Has Saline Discharge
51	02030105080	Raritan River Lower (Millstone to NB/SB)	24.7	492.6	1.3	0.1	25%	1.2		Yes	Yes	Yes	Yes	6	
47	02030105120*	Raritan R Lower (Lawrence to Millstone)	119.3	896.3	18.6	5.0	25%	13.6	Partial	Yes	Yes	Yes	Yes	2	
60	02030105130	Lawrence Brook	46.2	46.2	7.4	2.1	25%	5.3			Yes		Yes	8	
63	02030105140	Manalapan Brook	43.9	43.9	16.2	5.9	25%	10.3					Yes	8	
65	02030105150	Matchaponix Brook	44.3	44.2	20.5	10.4	25%	10.1					Yes	2	
55	02030105160	Raritan R Lower (below Lawrence)	73.2	1,103.8	14.9	2.5	25%	12.4			Yes	Yes	Yes	8	

*The Highlands Council has responsibility for the calculation of water availability in those watersheds located in the Highlands Region. The Highlands Council utilizes HUC14s to analyze water availability and imposes low flow margin thresholds based on the Regional Master Plan Land Use Capability Zones of each HUC14. These thresholds and other specifics regarding the Highlands Council's processes can be found in the Highlands Regional Master Plan and the associated Technical Report "Water Resources Volume II: Water Use and Availability".

Table 9.B Summary of HUC11 Remaining Available Water and Full Allocation

					Current			Full Allocation (F.A.)			Largest Dep-Con Loss			
DEP Value	HUC11	HUC11 Name	Peak Year With. ⁵	Available Water (mgd)	Net Dep-Con (mgd)	% Available Used	Remaining Available Water (mgd)	Net Dep-Con (mgd)	% Available Used	Remaining Available Water (mgd)	Largest Loss Current Use	Largest Loss % Available Water (Current)	Largest Loss F.A. Use	Largest Loss % Available Water (F.A.)
51	02030105080	Raritan River Lower (Millstone to NB/SB)	2017	0.3	0.5	185%	0.0	1.1	388%	0.0	Non-Ag Irr	96%	Non-Ag Irr	100%
47	02030105120*	Raritan R Lower (Lawrence to Millstone)	2013	3.4	10.2	301%	0.0	51.3	1,512%	0.0	Potable	100%	Potable	100%
60	02030105130	Lawrence Brook	2020	1.3	5.6	418%	0.0	11.4	857%	0.0	Potable	100%	Potable	100%
63	02030105140	Manalapan Brook	2013	2.6	2.9	114%	0.0	4.0	154%	0.0	Con Aq Leak	83%	Potable	55%
65	02030105150	Matchaponix Brook	2020	2.5	5.4	215%	0.0	2.6	104%	0.0	Potable	100%	Potable	85%
55	02030105160	Raritan R Lower (below Lawrence)	2016	3.1	11.2	360%	0.0	11.1	359%	0.0	Potable	100%	Potable	100%

*The Highlands Council has responsibility for the calculation of water availability in those watersheds located in the Highlands Region. The Highlands Council utilizes HUC14s to analyze water availability and imposes low flow margin thresholds based on the Regional Master Plan Land Use Capability Zones of each HUC14. These thresholds and other specifics regarding the Highlands Council's processes can be found in the Highlands Regional Master Plan and the associated Technical Report "Water Resources Volume II: Water Use and Availability".

Table 9.C Summary of HUC11 Withdrawals in Millions of Gallons per Day (mgd)

			Public Supply		Domestic	Com/Ind/Min		Ag/Irr		Non-Ag Irr		Power Gen		Combined				RSW Withdrawals
DEP Value	HUC11	HUC11 Name	UnGW	Non-RSW SW	UnGW	UnGW	SW	UnGW	SW	UnGW	SW	UnGW	SW	SFD Adj UnGW	SW	Leakage	Total	
51	02030105080	Raritan River Lower (Millstone to NB/SB)	0.0	0.0	0.5	0.2	0.0	0.0	0.2	0.3	0.1	0.0	0.0	0.9	0.3	0.0	1.1	0.0
47	02030105120	Raritan R Lower (Lawrence to Millstone)	15.9	0.0	1.6	1.1	0.1	0.0	0.0	0.6	0.2	0.0	0.0	17.2	0.2	0.0	17.4	126.5
60	02030105130	Lawrence Brook	0.0	4.2	0.1	0.0	0.0	0.0	0.1	0.2	0.1	0.0	0.0	0.3	4.4	1.0	5.7	0.0
63	02030105140	Manalapan Brook	0.5	0.0	0.5	0.0	0.0	0.0	0.1	0.0	0.2	0.0	0.0	0.9	0.4	2.1	3.4	0.0
65	02030105150	Matchaponix Brook	4.0	0.1	0.4	0.0	0.0	0.0	0.1	0.0	0.4	0.0	0.0	4.0	0.6	1.2	5.8	2.4
55	02030105160	Raritan R Lower (below Lawrence)	14.3	0.0	0.2	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	13.1	0.0	0.5	13.6	1.0

Table 9.D Summary of HUC11 Discharges in Millions of Gallons per Day (mgd)

DEP Value	HUC11	HUC11 Name	Sanitary Sewer			Domestic Septic	Com/Ind/Min		Ag/Irr		Non-Ag Irr		Power Gen		Combined		
			UnGW	SW Fresh	SW Saline		UnGW	SW	UnGW	SW	UnGW	SW	UnGW	SW	UnGW	SW	Total
51	02030105080	Raritan River Lower (Millstone to NB/SB)	0.0	0.0	0.0	0.4	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.0	0.6
47	02030105120	Raritan R Lower (Lawrence to Millstone)	0.0	5.0	0.0	1.2	1.0	0.1	0.0	0.0	0.1	0.0	0.0	0.0	2.2	5.0	7.2
60	02030105130	Lawrence Brook	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.0	0.2
63	02030105140	Manalapan Brook	0.0	0.0	0.0	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.0	0.5
65	02030105150	Matchaponix Brook	0.0	0.0	0.0	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.0	0.4
55	02030105160	Raritan R Lower (below Lawrence)	0.0	0.0	0.0	0.1	2.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.4	0.0	2.4

Notes (applicability may vary by WMA)

1. There are some watersheds upstream of WMA where depletive and consumptive uses are occurring, but this analysis does not account for out of state water use.
2. New or increased diversions within HUC11s located completely or partially within the Highlands will be addressed on a case-by-case basis in cooperation with the Highlands Council.
3. New or increased diversions upstream of potable supply reservoirs or intakes must quantify and offset any reduction to the system's safe yield.
4. The HUC11 LFM method available water exceeds 50% of the 7Q10. Additional availability analysis required.
5. Peak Year With. represents the final year of the 3-year period with the highest average withdrawals.

WATERSHED MANAGEMENT AREA 10 - MILLSTONE

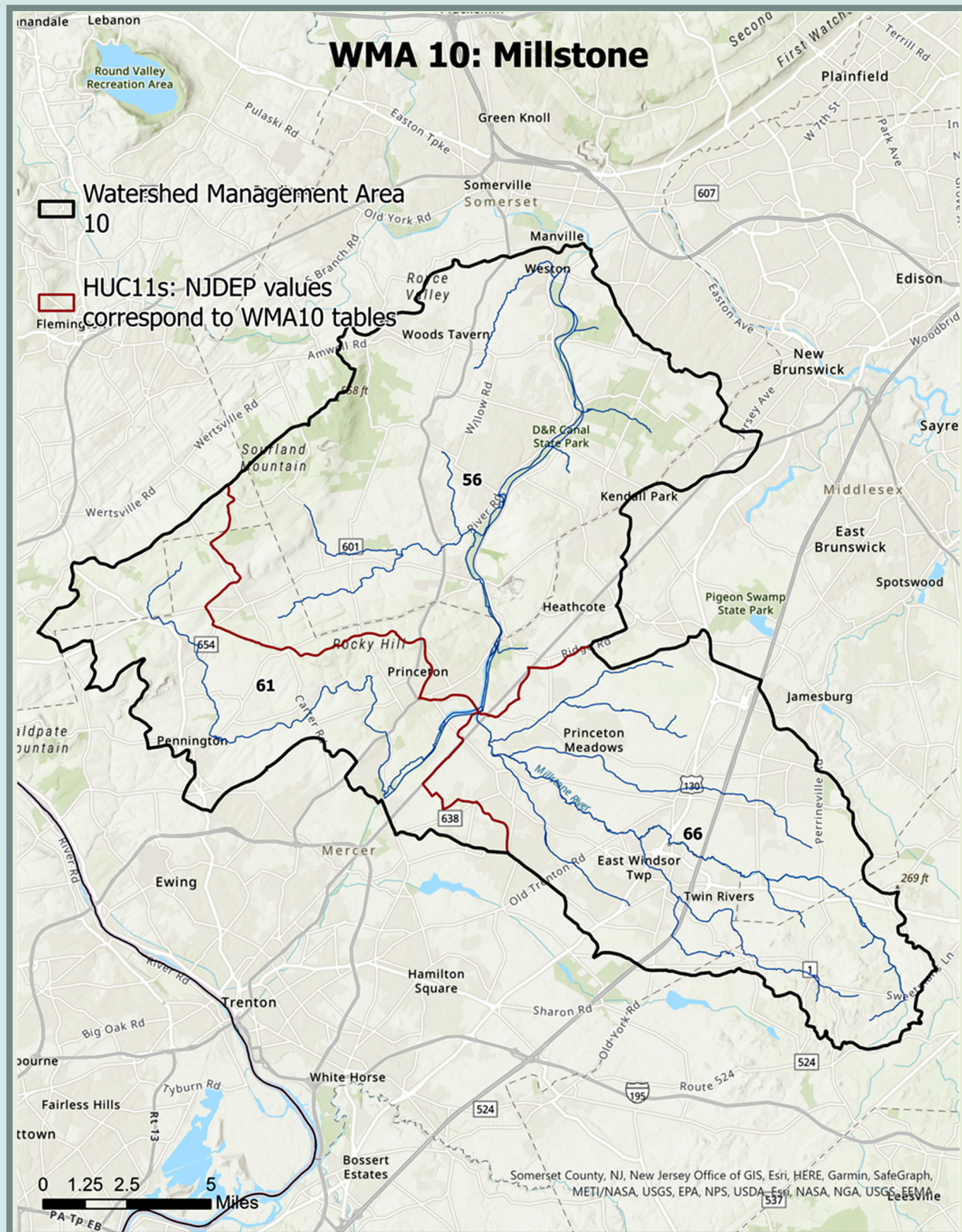


Table 10.A Summary of HUC11 Area, Low Flow Margin, and Water Availability Considerations

DEP Value	HUC11	HUC11 Name	HUC11 Area (mi ²)	Watershed Area (mi ²)	September Median Flow (mgd)	7Q10 (mgd)	LFM Percentage	LFM (mgd)	NJ Highlands ²	Major SW Potable Supply ³	Potentially 7Q10 Limited ⁴	Lim. Avail. HUC Upstream	In a Stressed WMA	Number of Stressed 3-Yr Periods	Has Saline Discharge
61	02030105090	Stony Brook	55.4	55.3	3.4	0.2	25%	3.2		Yes	Yes			8	
66	02030105100	Millstone River (above Carnegie Lake)	98.8	98.8	18.6	4.4	25%	14.3		Yes	Yes			7	
56	02030105110	Millstone River (below/incl Carnegie Lk)	130.4	284.4	17.0	4.0	25%	13.0		Yes	Yes	Yes		0	

Table 10.B Summary of HUC11 Remaining Available Water and Full Allocation

					Current			Full Allocation (F.A.)			Largest Dep-Con Loss			
DEP Value	HUC11	HUC11 Name	Peak Year With. ⁵	Available Water (mgd)	Net Dep-Con (mgd)	% Available Used	Remaining Available Water (mgd)	Net Dep-Con (mgd)	% Available Used	Remaining Available Water (mgd)	Largest Loss Current Use	Largest Loss % Available Water (Current)	Largest Loss F.A. Use	Largest Loss % Available Water (F.A.)
61	02030105090	Stony Brook	2016	0.8	1.2	148%	0.0	3.8	474%	0.0	Potable	100%	Potable	100%
66	02030105100	Millstone River (above Carnegie Lake)	2020	3.6	5.4	152%	0.0	10.0	279%	0.0	Con Aq Leak	90%	Ag/Irr	100%
56	02030105110	Millstone River (below/incl Carnegie Lk)	2016	3.2	-6.9	Net Gain	10.1	-5.4	Net Gain	8.7	Non-Ag Irr	23%	Potable	99%

Table 10.C Summary of HUC11 Withdrawals in Millions of Gallons per Day (mgd)

			Public Supply		Domestic	Com/Ind/ Min		Ag/Irr		Non-Ag Irr		Power Gen		Combined				RSW Withdrawals
DEP Value	HUC11	HUC11 Name	UnGW	Non-RSW SW	UnGW	UnGW	SW	UnGW	SW	UnGW	SW	UnGW	SW	SFD Adj UnGW	SW	Leakage	Total	
61	02030105090	Stony Brook	1.1	0.0	0.5	0.1	0.0	0.0	0.0	0.1	0.2	0.0	0.0	1.8	0.2	0.0	1.9	0.0
66	02030105100	Millstone River (above Carnegie Lake)	5.4	0.0	1.1	0.1	0.0	1.0	0.1	0.1	0.5	0.0	0.0	7.0	0.7	3.2	10.8	0.0
56	02030105110	Millstone River (below/incl Carnegie Lk)	0.2	0.0	1.3	0.2	0.0	0.2	0.0	0.3	0.5	0.0	0.0	1.9	0.5	0.0	2.5	0.0

Table 10.D Summary of HUC11 Discharges in Millions of Gallons per Day (mgd)

			Sanitary Sewer			Domestic Septic	Com/Ind/Min		Ag/Irr		Non-Ag Irr		Power Gen		Combined		
DEP Value	HUC11	HUC11 Name	UnGW	SW Fresh	SW Saline		UnGW	SW	UnGW	SW	UnGW	SW	UnGW	SW	UnGW	SW	Total
61	02030105090	Stony Brook	0.0	0.2	0.0	0.4	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.2	0.7
66	02030105100	Millstone River (above Carnegie Lake)	0.0	4.1	0.0	0.8	0.2	0.0	0.1	0.0	0.1	0.0	0.0	0.0	1.3	4.1	5.4
56	02030105110	Millstone River (below/incl Carnegie Lk)	0.0	8.1	0.0	0.9	0.2	0.0	0.0	0.0	0.0	0.1	0.0	0.0	1.2	8.2	9.4

Notes (applicability may vary by WMA)

1. There are some watersheds upstream of WMA where depletive and consumptive uses are occurring, but this analysis does not account for out of state water use.
2. New or increased diversions within HUC11s located completely or partially within the Highlands will be addressed on a case-by-case basis in cooperation with the Highlands Council.
3. New or increased diversions upstream of potable supply reservoirs or intakes must quantify and offset any reduction to the system's safe yield.
4. The HUC11 LFM method available water exceeds 50% of the 7Q10. Additional availability analysis required.
5. Peak Year With. represents the final year of the 3-year period with the highest average withdrawals.

WATERSHED MANAGEMENT AREA 11 - CENTRAL DELAWARE

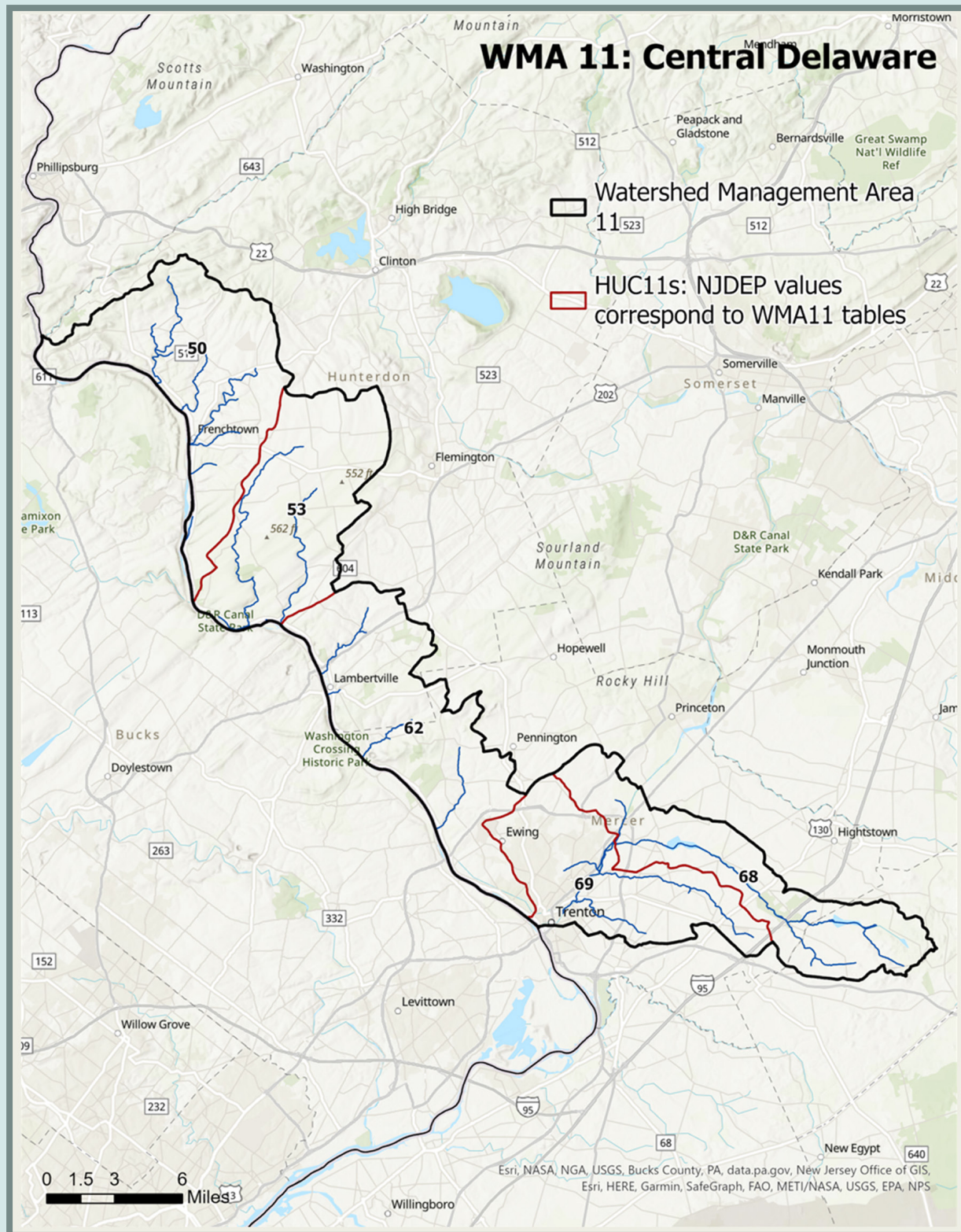


Table 11.A Summary of HUC11 Area, Low Flow Margin, and Water Availability Considerations

DEP Value	HUC11	HUC11 Name	HUC11 Area (mi ²)	Watershed Area (mi ²)	September Median Flow (mgd)	7Q10 (mgd)	LFM Percentage	LFM (mgd)	NJ Highlands ²	Major SW Potable Supply ³	Potentially 7Q10 Limited ⁴	Lim. Avail. HUC Upstream	In a Stressed WMA	Number of Stressed 3-Yr Periods	Has Saline Discharge
50	02040105170*	Hakihokake/ Harihokake/ Nishisakawick Ck	62.6	61.3	12.0	3.1	25%	8.9	Partial		Yes			0	
53	02040105200	Lokatong Creek / Wickecheoke Creek	54.4	54.1	3.1	0.4	25%	2.8			Yes			0	
62	02040105210	Alexauken Ck / Moore Ck / Jacobs Ck	62.6	61.1	3.2	0.2	25%	3.0			Yes			0	
68	02040105230	Assunpink Creek (above Shipetaukin Ck)	47.8	47.7	13.2	3.1	25%	10.1			Yes			0	
69	02040105240	Assunpink Creek (below Shipetaukin Ck)	44.6	92.2	13.8	5.0	25%	8.8						0	

*The Highlands Council has responsibility for the calculation of water availability in those watersheds located in the Highlands Region. The Highlands Council utilizes HUC14s to analyze water availability and imposes low flow margin thresholds based on the Regional Master Plan Land Use Capability Zones of each HUC14. These thresholds and other specifics regarding the Highlands Council's processes can be found in the Highlands Regional Master Plan and the associated Technical Report "Water Resources Volume II: Water Use and Availability".

Table 11.B Summary of HUC11 Remaining Available Water and Full Allocation

					Current			Full Allocation (F.A.)			Largest Dep-Con Loss			
DEP Value	HUC11	HUC11 Name	Peak Year With. ⁵	Available Water (mgd)	Net Dep-Con (mgd)	% Available Used	Remaining Available Water (mgd)	Net Dep-Con (mgd)	% Available Used	Remaining Available Water (mgd)	Largest Loss Current Use	Largest Loss % Available Water (Current)	Largest Loss F.A. Use	Largest Loss % Available Water (F.A.)
50	02040105170*	Hakihokake/ Harihokake/ Nishisakawick Ck	2020	2.2	0.4	20%	1.8	1.8	79%	0.5	Non-Ag Irr	11%	Potable	49%
53	02040105200	Lockatong Creek / Wickecheoke Creek	2017	0.7	0.5	76%	0.2	2.2	315%	0.0	Ag/Irr	43%	Ag/Irr	100%
62	02040105210	Alexauken Ck / Moore Ck / Jacobs Ck	2014	0.7	-0.1	Net Gain	0.9	1.4	185%	0.0	Non-Ag Irr	7%	Potable	100%
68	02040105230	Assunpink Creek (above Shipetaukin Ck)	2019	2.5	1.3	51%	1.2	4.1	162%	0.0	Con Aq Leak	23%	Potable	90%
69	02040105240	Assunpink Creek (below Shipetaukin Ck)	2016	2.2	-3.1	Net Gain	5.3	-1.0	Net Gain	3.2	Con Aq Leak	22%	Potable	26%

*The Highlands Council has responsibility for the calculation of water availability in those watersheds located in the Highlands Region. The Highlands Council utilizes HUC14s to analyze water availability and imposes low flow margin thresholds based on the Regional Master Plan Land Use Capability Zones of each HUC14. These thresholds and other specifics regarding the Highlands Council's processes can be found in the Highlands Regional Master Plan and the associated Technical Report "Water Resources Volume II: Water Use and Availability".

Table 11.C Summary of HUC11 Withdrawals in Millions of Gallons per Day (mgd)

			Public Supply		Domestic	Com/Ind/Min		Ag/Irr		Non-Ag Irr		Power Gen		Combined				RSW Withdrawals
DEP Value	HUC11	HUC11 Name	UnGW	Non-RSW SW	UnGW	UnGW	SW	UnGW	SW	UnGW	SW	UnGW	SW	SFD Adj UnGW	SW	Leakage	Total	
50	02040105170	Hakihokake/ Harihokake/ Nishisakawick Ck	0.2	0.0	1.0	0.0	0.0	0.0	0.1	0.0	0.2	0.0	0.0	1.2	0.4	0.0	1.6	0.1
53	02040105200	Lokatong Creek / Wickecheoke Creek	0.2	0.0	0.7	0.0	0.0	0.4	0.0	0.0	0.0	0.0	0.0	1.1	0.0	0.0	1.1	90.3
62	02040105210	Alexauken Ck / Moore Ck / Jacobs Ck	0.2	0.3	1.1	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	1.2	0.3	0.0	1.5	27.4
68	02040105230	Assunpink Creek (above Shipetaukin Ck)	0.4	0.0	0.5	0.0	0.0	0.0	0.2	0.0	0.3	0.0	0.0	0.8	0.5	0.6	1.9	0.0
69	02040105240	Assunpink Creek (below Shipetaukin Ck)	3.6	0.0	0.3	0.0	0.0	0.1	0.0	0.1	0.0	0.0	0.0	3.7	0.0	0.5	4.2	0.0

Table 11.D Summary of HUC11 Discharges in Millions of Gallons per Day (mgd)

			Sanitary Sewer			Domestic Septic	Com/Ind/Min		Ag/Irr		Non-Ag Irr		Power Gen		Combined		
DEP Value	HUC11	HUC11 Name	UnGW	SW Fresh	SW Saline		UnGW	SW	UnGW	SW	UnGW	SW	UnGW	SW	UnGW	SW	Total
50	02040105170	Hakihokake/ Harihokake/ Nishisakawick Ck	0.0	0.3	0.0	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8	0.4	1.1
53	02040105200	Lockatong Creek / Wickecheoke Creek	0.0	0.0	0.0	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6	0.0	0.6
62	02040105210	Alexauken Ck / Moore Ck / Jacobs Ck	0.0	0.8	0.0	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8	0.8	1.6
68	02040105230	Assunpink Creek (above Shipetaukin Ck)	0.0	0.1	0.0	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.2	0.6
69	02040105240	Assunpink Creek (below Shipetaukin Ck)	0.0	7.1	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	7.1	7.3

Notes (applicability may vary by WMA)

1. There are some watersheds upstream of WMA where depletive and consumptive uses are occurring, but this analysis does not account for out of state water use.
2. New or increased diversions within HUC11s located completely or partially within the Highlands will be addressed on a case-by-case basis in cooperation with the Highlands Council.
3. New or increased diversions upstream of potable supply reservoirs or intakes must quantify and offset any reduction to the system's safe yield.
4. The HUC11 LFM method available water exceeds 50% of the 7Q10. Additional availability analysis required.
5. Peak Year With. represents the final year of the 3-year period with the highest average withdrawals.

WATERSHED MANAGEMENT AREA 12 - MONMOUTH

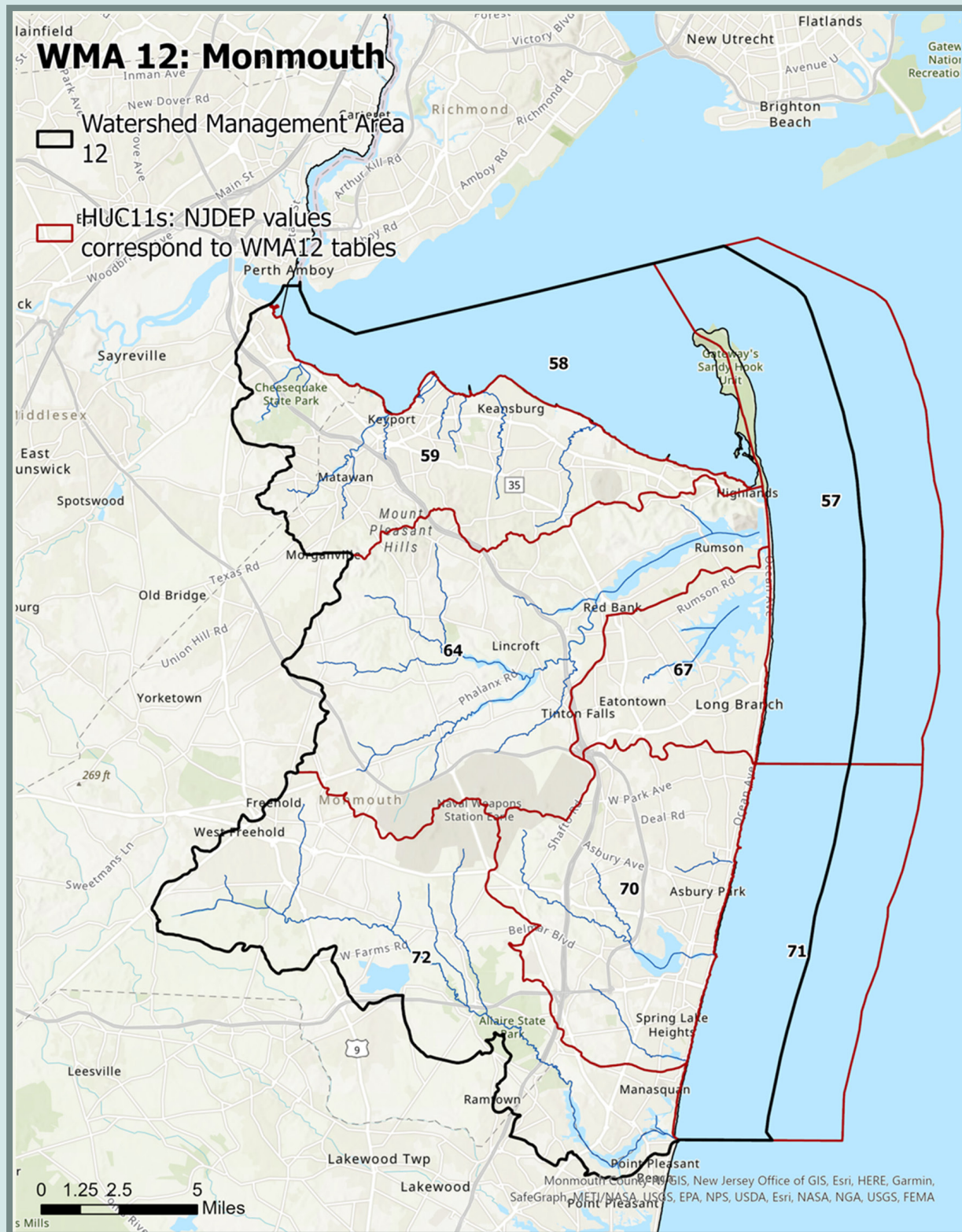


Table 12.A Summary of HUC11 Area, Low Flow Margin, and Water Availability Considerations

DEP Value	HUC11	HUC11 Name	HUC11 Area (mi ²)	Watershed Area (mi ²)	September Median Flow (mgd)	7Q10 (mgd)	LFM Percentage	LFM (mgd)	NJ Highlands ²	Major SW Potable Supply ³	Potentially 7Q10 Limited ⁴	Lim. Avail. HUC Upstream	In a Stressed WMA	Number of Stressed 3-Yr Periods	Has Saline Discharge
59	02030104060	Raritan / Sandy Hook Bay tributaries	58.6	58.5	27.7	10.7	25%	17.0						0	Yes
64	02030104070	Navesink River / Lower Shrewsbury River	94.7	94.6	42.8	18.4	25%	24.5		Yes				0	
67	02030104080	Shrewsbury River (above Navesink River)	29.2	29.4	15.6	7.0	25%	8.7		Yes				0	
70	02030104090	Whale Pond Bk / Shark R / Wreck Pond Bk	60.7	60.7	29.6	16.1	25%	13.5		Yes				0	
72	02030104100	Manasquan River	82.4	82.5	38.4	18.2	25%	20.2		Yes				0	
58	02030104910	Raritan Bay / Sandy Hook Bay	50.5	50.5	Not Calc.	Not Calc.	25%								Yes
57	02030104920	Atlantic Coast (Sandy Hook to Whale Pond)	93.4	93.4	Not Calc.	Not Calc.	25%								Yes
71	02030104930	Atlantic Coast (Whale Pond to Manasquan)	64.7	64.7	Not Calc.	Not Calc.	25%								Yes

Table 12.B Summary of HUC11 Remaining Available Water and Full Allocation

					Current			Full Allocation (F.A.)			Largest Dep-Con Loss			
DEP Value	HUC11	HUC11 Name	Peak Year With. ⁵	Available Water (mgd)	Net Dep-Con (mgd)	% Available Used	Remaining Available Water (mgd)	Net Dep-Con (mgd)	% Available Used	Remaining Available Water (mgd)	Largest Loss Current Use	Largest Loss % Available Water (Current)	Largest Loss F.A. Use	Largest Loss % Available Water (F.A.)
59	02030104060	Raritan / Sandy Hook Bay tributaries	2020	4.2	0.4	10%	3.8	1.5	36%	2.7	Con Aq Leak	9%	Potable	28%
64	02030104070	Navesink River / Lower Shrewsbury River	2016	6.1	1.6	26%	4.5	2.1	34%	4.0	Con Aq Leak	20%	Potable	23%
67	02030104080	Shrewsbury River (above Navesink River)	2016	2.2	0.5	21%	1.7	0.3	15%	1.8	Con Aq Leak	13%	Potable	57%
70	02030104090	Whale Pond Bk / Shark R / Wreck Pond Bk	2015	3.4	0.6	17%	2.8	0.7	21%	2.7	Non-Ag Irr	14%	Non-Ag Irr	17%
72	02030104100	Manasquan River	2020	5.1	2.0	40%	3.0	2.5	49%	2.6	Con Aq Leak	15%	Potable	40%
58	02030104910	Raritan Bay / Sandy Hook Bay												
57	02030104920	Atlantic Coast (Sandy Hook to Whale Pond)												
71	02030104930	Atlantic Coast (Whale Pond to Manasquan)												

Table 12.C Summary of HUC11 Withdrawals in Millions of Gallons per Day (mgd)

			Public Supply		Domestic	Com/Ind/Min		Ag/Irr		Non-Ag Irr		Power Gen		Combined				RSW Withdrawals
DEP Value	HUC11	HUC11 Name	UnGW	Non-RSW SW	UnGW	UnGW	SW	UnGW	SW	UnGW	SW	UnGW	SW	SFD Adj UnGW	SW	Leakage	Total	
59	02030104060	Raritan / Sandy Hook Bay tributaries	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.4	0.5	0.0
64	02030104070	Navesink River / Lower Shrewsbury River	0.0	0.0	1.4	0.0	0.0	0.0	0.1	0.1	0.1	0.0	0.0	1.4	0.2	1.2	2.9	25.6
67	02030104080	Shrewsbury River (above Navesink River)	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.2	0.0	0.0	0.1	0.2	0.3	0.5	0.0
70	02030104090	Whale Pond Bk / Shark R / Wreck Pond Bk	0.0	0.0	0.2	0.0	0.0	0.0	0.0	0.3	0.3	0.0	0.0	0.4	0.3	0.1	0.9	1.3
72	02030104100	Manasquan River	0.6	0.0	1.1	0.0	0.0	0.1	0.2	0.4	0.2	0.0	0.0	2.0	0.4	0.8	3.2	23.5
58	02030104910	Raritan Bay / Sandy Hook Bay	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
57	02030104920	Atlantic Coast (Sandy Hook to Whale Pond)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
71	02030104930	Atlantic Coast (Whale Pond to Manasquan)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Table 12.D Summary of HUC11 Discharges in Millions of Gallons per Day (mgd)

DEP Value	HUC11	HUC11 Name	Sanitary Sewer			Domestic Septic	Com/Ind/Min		Ag/Irr		Non-Ag Irr		Power Gen		Combined		
			UnGW	SW Fresh	SW Saline		UnGW	SW	UnGW	SW	UnGW	SW	UnGW	SW	UnGW	SW	Total
59	02030104060	Raritan / Sandy Hook Bay tributaries	0.0	0.0	13.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.1
64	02030104070	Navesink River / Lower Shrewsbury River	0.0	0.1	0.0	1.1	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	1.2	0.1	1.3
67	02030104080	Shrewsbury River (above Navesink River)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.1
70	02030104090	Whale Pond Bk / Shark R / Wreck Pond Bk	0.0	0.0	0.0	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.0	0.3
72	02030104100	Manasquan River	0.0	0.0	0.0	0.8	0.2	0.0	0.0	0.0	0.1	0.0	0.0	0.0	1.1	0.1	1.1
58	02030104910	Raritan Bay / Sandy Hook Bay	0.0	0.0	80.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
57	02030104920	Atlantic Coast (Sandy Hook to WhalePond)	0.0	0.0	27.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
71	02030104930	Atlantic Coast (Whale Pond to Manasquan)	0.0	0.0	18.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Notes (applicability may vary by WMA)

1. There are some watersheds upstream of WMA where depletive and consumptive uses are occurring, but this analysis does not account for out of state water use.
2. New or increased diversions within HUC11s located completely or partially within the Highlands will be addressed on a case-by-case basis in cooperation with the Highlands Council.
3. New or increased diversions upstream of potable supply reservoirs or intakes must quantify and offset any reduction to the system's safe yield.
4. The HUC11 LFM method available water exceeds 50% of the 7Q10. Additional availability analysis required.
5. Peak Year With. represents the final year of the 3-year period with the highest average withdrawals.

WATERSHED MANAGEMENT AREA 13 - BARNEGAT BAY

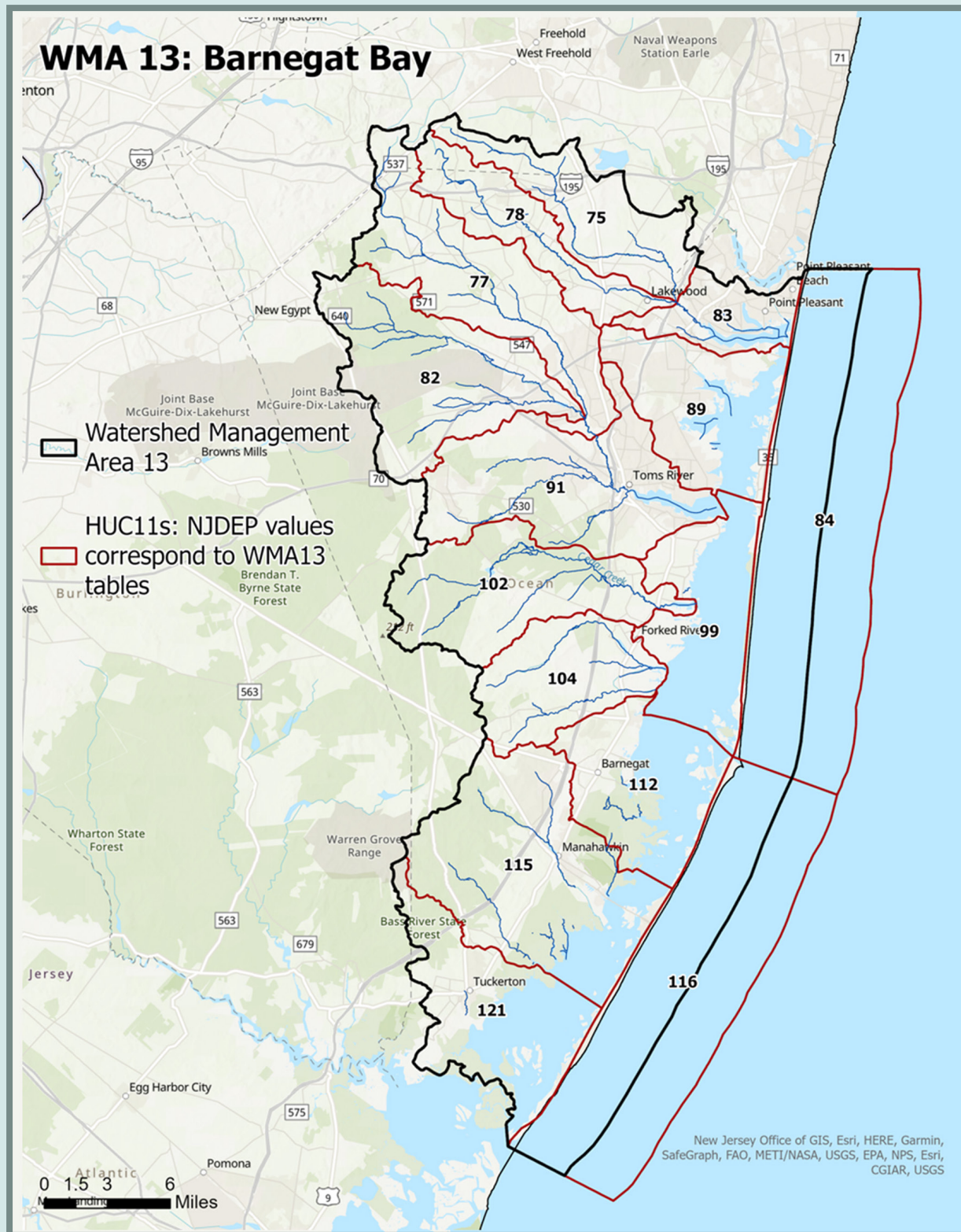


Table 13.A Summary of HUC11 Area, Low Flow Margin, and Water Availability Considerations

DEP Value	HUC11	HUC11 Name	HUC11 Area (mi ²)	Watershed Area (mi ²)	September Median Flow (mgd)	7Q10 (mgd)	LFM Percentage	LFM (mgd)	NJ Highlands ²	Major SW Potable Supply ³	Potentially 7Q10 Limited ⁴	Lim. Avail. HUC Upstream	In a Stressed WMA	Number of Stressed 3-Yr Periods	Has Saline Discharge
75	02040301020	Metedeconk River NB	38.3	38.2	19.3	9.1	25%	10.2		Yes				0	
78	02040301030	Metedeconk River SB	30.8	30.8	18.3	9.3	25%	9.0		Yes				0	
83	02040301040	Metedeconk River	20.6	89.0	11.9	6.6	25%	5.3		Yes				8	
89	02040301050	Kettle Creek / Barnegat Bay North	46.7	31.3	27.0	15.0	25%	12.1				Yes		7	
77	02040301060	Toms River (above Oak Ridge Parkway)	60.3	123.3	40.4	29.9	25%	10.5						8	
82	02040301070	Union/Ridgeway Branch (Toms River)	63.1	63.1	33.3	13.1	25%	20.3						0	
91	02040301080	Toms River (below Oak Ridge Parkway)	68.4	191.3	77.4	53.6	25%	23.8				Yes		8	
102	02040301090	Cedar Creek	55.0	67.8	50.2	23.3	25%	26.9						0	
99	02040301100	Barnegat Bay Central & Tribs	45.8	468.0	Not Calc.	Not Calc.	25%	22.4				Yes		0	
104	02040301110	Forked River / Oyster Creek	38.9	38.9	40.8	25.1	25%	15.7						0	

DEP Value	HUC11	HUC11 Name	HUC11 Area (mi ²)	Watershed Area (mi ²)	September Median Flow (mgd)	7Q10 (mgd)	LFM Percentage	LFM (mgd)	NJ Highlands ²	Major SW Potable Supply ³	Potentially 7Q10 Limited ⁴	Lim. Avail. HUC Upstream	In a Stressed WMA	Number of Stressed 3-Yr Periods	Has Saline Discharge
112	02040301120	Waretown Ck / Barnegat Bay South	47.0	24.9	62.1	39.7	25%	22.4						0	
115	02040301130	Manahawkin/ Upper Little Egg Harbor tribs	87.9	71.6	71.9	46.3	25%	25.6						0	
121	02040301140	Lower Little Egg Harbor Bay tribs	53.8	35.2	18.0	7.4	25%	10.7						0	
84	02040301910	Atlantic Coast (Manasquan to Barnegat)	139.0	139.0	Not Calc.	Not Calc.	25%								Yes
116	02040301920	Atlantic Coast (Barnegat to Little Egg)	121.6	121.6	Not Calc.	Not Calc.	25%								Yes

Table 13.B Summary of HUC11 Remaining Available Water and Full Allocation

					Current			Full Allocation (F.A.)			Largest Dep-Con Loss			
DEP Value	HUC11	HUC11 Name	Peak Year With. ⁵	Available Water (mgd)	Net Dep-Con (mgd)	% Available Used	Remaining Available Water (mgd)	Net Dep-Con (mgd)	% Available Used	Remaining Available Water (mgd)	Largest Loss Current Use	Largest Loss % Available Water (Current)	Largest Loss F.A. Use	Largest Loss % Available Water (F.A.)
75	02040301020	Metedeconk River NB	2020	2.5	0.5	19%	2.1	1.3	50%	1.3	Con Aq Leak	11%	Potable	38%
78	02040301030	Metedeconk River SB	2020	2.2	1.2	54%	1.0	1.7	77%	0.5	Potable	27%	Potable	35%
83	02040301040	Metedeconk River	2013	1.3	3.0	224%	0.0	4.4	329%	0.0	Potable	100%	Non-Ag Irr	100%
89	02040301050	Kettle Creek / Barnegat Bay North	2016	3.0	3.9	129%	0.0	4.6	154%	0.0	Potable	89%	Potable	81%
77	02040301060	Toms River (above Oak Ridge Parkway)	2016	2.6	4.5	172%	0.0	7.6	290%	0.0	Non-Ag Irr	62%	Potable	100%
82	02040301070	Union/Ridgeway Branch (Toms River)	2016	5.1	1.9	38%	3.1	2.4	47%	2.7	Potable	17%	Potable	36%
91	02040301080	Toms River (below Oak Ridge Parkway)	2014	5.9	8.3	140%	0.0	8.9	150%	0.0	Potable	100%	Potable	100%
102	02040301090	Cedar Creek	2013	6.7	2.1	31%	4.7	3.6	54%	3.1	Con Aq Leak	13%	Potable	38%
99	02040301100	Barnegat Bay Central & Tribs												

					Current			Full Allocation (F.A.)			Largest Dep-Con Loss			
DEP Value	HUC11	HUC11 Name	Peak Year With. ⁵	Available Water (mgd)	Net Dep-Con (mgd)	% Available Used	Remaining Available Water (mgd)	Net Dep-Con (mgd)	% Available Used	Remaining Available Water (mgd)	Largest Loss Current Use	Largest Loss % Available Water (Current)	Largest Loss F.A. Use	Largest Loss % Available Water (F.A.)
104	02040301110	Forked River / Oyster Creek	2013	3.9	0.7	19%	3.2	1.5	39%	2.4	Con Aq Leak	16%	Potable	23%
112	02040301120	Waretown Ck / Barnegat Bay South	2015	5.6	1.2	21%	4.4	1.7	31%	3.9	Potable	10%	Potable	19%
115	02040301130	Manahawkin/ Upper Little Egg Harbor tribs	2016	6.4	2.0	31%	4.4	4.5	71%	1.9	Con Aq Leak	17%	Potable	30%
121	02040301140	Lower Little Egg Harbor Bay tribs	2017	2.7	0.7	28%	1.9	1.4	52%	1.3	Non-Ag Irr	15%	Potable	41%
84	02040301910	Atlantic Coast (Manasquan to Barnegat)												
116	02040301920	Atlantic Coast (Barnegat to Little Egg)												

Table 13.C Summary of HUC11 Withdrawals in Millions of Gallons per Day (mgd)

			Public Supply		Domestic	Com/Ind/Min		Ag/Irr		Non-Ag Irr		Power Gen		Combined				RSW Withdrawals
DEP Value	HUC11	HUC11 Name	UnGW	Non-RSW SW	UnGW	UnGW	SW	UnGW	SW	UnGW	SW	UnGW	SW	SFD Adj UnGW	SW	Leakage	Total	
75	02040301020	Metedeconk River NB	0.0	0.0	1.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	1.0	0.0	0.3	1.3	0.0
78	02040301030	Metedeconk River SB	0.6	0.0	0.7	0.0	0.0	0.0	0.1	0.1	0.2	0.0	0.0	1.2	0.2	0.3	1.8	0.0
83	02040301040	Metedeconk River	2.1	0.0	0.1	0.1	0.0	0.0	0.0	1.3	0.0	0.0	0.0	3.2	0.0	0.0	3.2	0.0
89	02040301050	Kettle Creek / Barnegat Bay North	2.9	0.0	0.4	0.6	0.0	0.2	0.0	1.3	0.0	0.0	0.0	4.9	0.0	0.0	4.9	0.0
77	02040301060	Toms River (above Oak Ridge Parkway)	1.0	0.0	2.7	0.5	2.3	0.1	0.0	0.9	1.0	0.0	0.0	4.7	3.3	1.4	9.4	0.0
82	02040301070	Union/Ridgeway Branch (Toms River)	0.9	0.0	0.3	0.2	0.0	0.0	0.0	0.7	0.0	0.0	0.0	1.9	0.0	0.5	2.4	0.0
91	02040301080	Toms River (below Oak Ridge Parkway)	8.7	0.0	0.7	1.6	0.0	0.0	0.0	0.4	0.0	0.0	0.0	10.3	0.0	0.0	10.3	0.0
102	02040301090	Cedar Creek	0.7	0.0	0.4	0.0	4.8	0.0	0.0	0.0	0.0	0.0	0.0	1.0	4.8	0.8	6.7	0.0
99	02040301100	Barnegat Bay Central & Tribs	0.0	0.0	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8	0.0	0.2	1.0	0.0
104	02040301110	Forked River / Oyster Creek	0.0	0.0	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7	0.0	0.6	1.3	0.0
112	02040301120	Waretown Ck / Barnegat Bay South	0.6	0.0	0.3	0.0	0.0	0.0	0.0	0.0	0.2	0.0	0.0	0.8	0.2	0.4	1.4	0.0

			Public Supply		Domestic	Com/Ind/Min		Ag/Irr		Non-Ag Irr		Power Gen		Combined				RSW Withdrawals
DEP Value	HUC11	HUC11 Name	UnGW	Non-RSW SW	UnGW	UnGW	SW	UnGW	SW	UnGW	SW	UnGW	SW	SFD Adj UnGW	SW	Leakage	Total	
115	02040301130	Manahawkin/Upper Little Egg Harbor tribs	0.2	0.0	1.3	0.0	3.3	0.0	0.0	0.1	0.1	0.0	0.0	1.4	3.4	1.1	5.9	0.0
121	02040301140	Lower Little Egg Harbor Bay tribs	0.0	0.0	0.4	0.0	0.0	0.0	0.0	0.3	0.2	0.0	0.0	0.6	0.2	0.3	1.1	0.0
84	02040301910	Atlantic Coast (Manasquan to Barnegat)	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.0	0.0	0.2	0.0
116	02040301920	Atlantic Coast (Barnegat to Little Egg)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Table 13.D Summary of HUC11 Discharges in Millions of Gallons per Day (mgd)

			Sanitary Sewer			Domestic Septic	Com/Ind/Min		Ag/Irr		Non-Ag Irr		Power Gen		Combined		
DEP Value	HUC11	HUC11 Name	UnGW	SW Fresh	SW Saline		UnGW	SW	UnGW	SW	UnGW	SW	UnGW	SW	UnGW	SW	Total
75	02040301020	Metedeconk River NB	0.0	0.0	0.0	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8	0.0	0.8
78	02040301030	Metedeconk River SB	0.0	0.0	0.0	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.0	0.6
83	02040301040	Metedeconk River	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.2	0.0	0.2
89	02040301050	Kettle Creek / Barnegat Bay North	0.0	0.0	0.0	0.3	0.6	0.0	0.0	0.0	0.1	0.0	0.0	0.0	1.0	0.0	1.0
77	02040301060	Toms River (above Oak Ridge Parkway)	0.0	0.0	0.0	2.0	0.5	2.2	0.0	0.0	0.1	0.1	0.0	0.0	2.6	2.3	4.9
82	02040301070	Union/Ridgeway Branch (Toms River)	0.0	0.0	0.0	0.2	0.2	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.5	0.0	0.5
91	02040301080	Toms River (below Oak Ridge Parkway)	0.0	0.0	0.0	0.5	1.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.0	0.0	2.0
102	02040301090	Cedar Creek	0.0	0.0	0.0	0.3	0.0	4.4	0.0	0.0	0.0	0.0	0.0	0.0	0.3	4.4	4.7
99	02040301100	Barnegat Bay Central & Tribs	0.0	0.0	0.0	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7	0.0	0.7
104	02040301110	Forked River / Oyster Creek	0.0	0.0	0.0	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6	0.0	0.6
112	02040301120	Waretown Ck / Barnegat Bay South	0.0	0.0	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.0	0.3

			Sanitary Sewer			Domestic Septic	Com/Ind/Min		Ag/Irr		Non-Ag Irr		Power Gen		Combined		
DEP Value	HUC11	HUC11 Name	UnGW	SW Fresh	SW Saline		UnGW	SW	UnGW	SW	UnGW	SW	UnGW	SW	UnGW	SW	Total
115	02040301130	Manahawkin/Upper Little Egg Harbor tribs	0.0	0.0	0.0	0.9	0.0	2.9	0.0	0.0	0.0	0.0	0.0	0.0	1.0	3.0	3.9
121	02040301140	Lower Little Egg Harbor Bay tribs	0.0	0.0	0.0	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.0	0.3
84	02040301910	Atlantic Coast (Manasquan to Barnegat)	0.0	0.0	40.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
116	02040301920	Atlantic Coast (Barnegat to Little Egg)	0.0	0.0	7.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Notes (applicability may vary by WMA)

1. There are some watersheds upstream of WMA where depletive and consumptive uses are occurring, but this analysis does not account for out of state water use.
2. New or increased diversions within HUC11s located completely or partially within the Highlands will be addressed on a case-by-case basis in cooperation with the Highlands Council.
3. New or increased diversions upstream of potable supply reservoirs or intakes must quantify and offset any reduction to the system's safe yield.
4. The HUC11 LFM method available water exceeds 50% of the 7Q10. Additional availability analysis required.
5. Peak Year With. represents the final year of the 3-year period with the highest average withdrawals.

WATERSHED MANAGEMENT AREA 14 - MULLICA

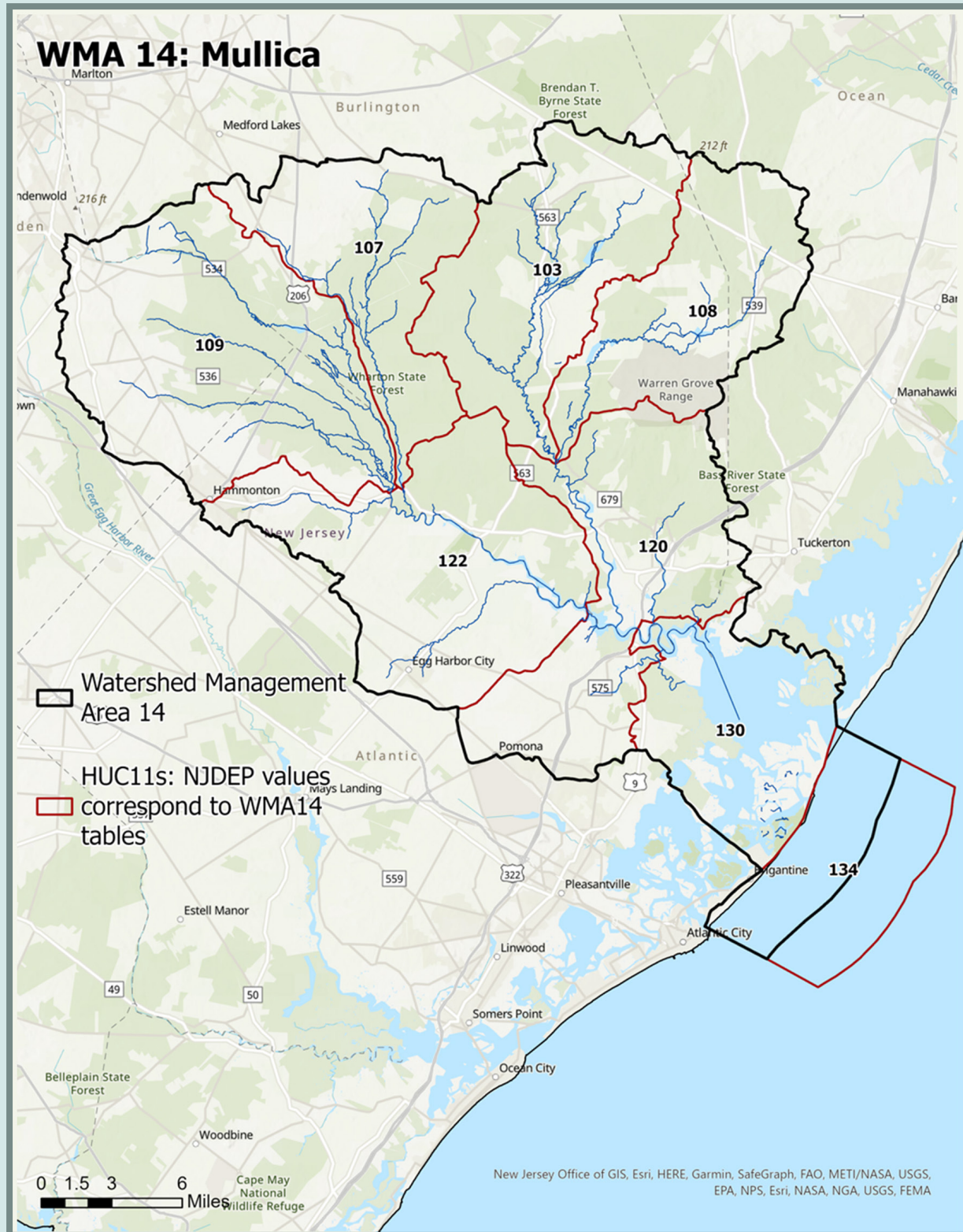


Table 14.A Summary of HUC11 Area, Low Flow Margin, and Water Availability Considerations

DEP Value	HUC11	HUC11 Name	HUC11 Area (mi ²)	Watershed Area (mi ²)	September Median Flow (mgd)	7Q10 (mgd)	LFM Percentage	LFM (mgd)	NJ Highlands ²	Major SW Potable Supply ³	Potentially 7Q10 Limited ⁴	Lim. Avail. HUC Upstream	In a Stressed WMA	Number of Stressed 3-Yr Periods	Has Saline Discharge
107	02040301150	Basto River	67.9	67.9	43.7	26.0	25%	17.7						0	
109	02040301160	Mullica River (above Basto River)	127.3	127.3	48.4	19.4	25%	28.9						2	
122	02040301170	Mullica River (Turtle Ck to Basto River)	110.0	305.0	53.7	22.9	25%	30.8				Yes		0	
108	02040301180	Oswego River	72.6	72.5	30.4	13.8	25%	16.7						0	
103	02040301190	West Branch Wading River	87.1	87.0	38.6	17.2	25%	21.4						0	
120	02040301200	Mullica River (GSP bridge to Turtle Ck)	95.7	560.2	56.4	29.6	25%	26.8				Yes		0	
130	02040301210	Great Bay / Mullica R (below GSP bridge)	64.6	581.9	19.5	3.9	25%	15.6			Yes	Yes		0	
134	02040302910	Atlantic Coast (Little Egg to Absecon)	59.1	59.1	Not Calc.	Not Calc.	25%								

Table 14.B Summary of HUC11 Remaining Available Water and Full Allocation

					Current			Full Allocation (F.A.)			Largest Dep-Con Loss			
DEP Value	HUC11	HUC11 Name	Peak Year With. ⁵	Available Water (mgd)	Net Dep-Con (mgd)	% Available Used	Remaining Available Water (mgd)	Net Dep-Con (mgd)	% Available Used	Remaining Available Water (mgd)	Largest Loss Current Use	Largest Loss % Available Water (Current)	Largest Loss F.A. Use	Largest Loss % Available Water (F.A.)
107	02040301150	Basto River	2013	4.4	2.5	57%	1.9	7.7	173%	0.0	Ag/Irr	49%	Ag/Irr	100%
109	02040301160	Mullica River (above Basto River)	2013	7.2	7.7	106%	0.0	28.3	391%	0.0	Ag/Irr	70%	Ag/Irr	100%
122	02040301170	Mullica River (Turtle Ck to Basto River)	2018	7.7	6.3	82%	1.4	19.9	258%	0.0	Ag/Irr	50%	Ag/Irr	100%
108	02040301180	Oswego River	2017	4.2	1.0	24%	3.2	8.0	192%	0.0	Ag/Irr	9%	Potable	100%
103	02040301190	West Branch Wading River	2013	5.3	0.6	11%	4.8	2.1	40%	3.2	Con Aq Leak	8%	Ag/Irr	29%
120	02040301200	Mullica River (GSP bridge to Turtle Ck)	2019	6.7	3.5	52%	3.2	5.8	86%	1.0	Potable	29%	Ag/Irr	37%
130	02040301210	Great Bay / Mullica R (below GSP bridge)	2017	3.9	0.6	15%	3.3	0.2	5%	3.7	Potable	15%	Potable	23%
134	02040302910	Atlantic Coast (Little Egg to Absecon)												

Table 14.C Summary of HUC11 Withdrawals in Millions of Gallons per Day (mgd)

			Public Supply		Domestic	Com/Ind/Min		Ag/Irr		Non-Ag Irr		Power Gen		Combined				RSW Withdrawals
DEP Value	HUC11	HUC11 Name	UnGW	Non-RSW SW	UnGW	UnGW	SW	UnGW	SW	UnGW	SW	UnGW	SW	SFD Adj UnGW	SW	Leakage	Total	
107	02040301150	Basto River	0.0	0.0	1.2	0.0	0.0	2.3	0.7	0.0	0.0	0.0	0.0	3.2	0.7	0.2	4.1	0.0
109	02040301160	Mullica River (above Basto River)	1.4	0.0	2.2	0.1	0.0	6.0	0.3	0.1	0.0	0.0	0.0	8.8	0.4	0.9	10.0	0.0
122	02040301170	Mullica River (Turtle Ck to Basto River)	0.6	0.0	1.2	0.0	0.0	4.8	0.0	0.1	0.0	0.0	0.0	6.1	0.0	1.6	7.7	0.0
108	02040301180	Oswego River	0.0	0.0	0.1	0.0	7.2	0.5	4.1	0.0	0.0	0.0	0.0	0.5	11.4	0.2	12.1	0.0
103	02040301190	West Branch Wading River	0.0	0.0	0.1	0.0	0.0	2.4	2.5	0.0	0.0	0.0	0.0	2.3	2.5	0.4	5.2	0.0
120	02040301200	Mullica River (GSP bridge to Turtle Ck)	2.1	0.0	0.4	0.3	0.0	0.7	0.1	0.1	0.0	0.0	0.0	3.2	0.1	0.9	4.2	0.0
130	02040301210	Great Bay / Mullica R (below GSP bridge)	0.6	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7	0.0	0.0	0.7	0.0
134	02040302910	Atlantic Coast (Little Egg to Absecon)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Table 14.D Summary of HUC11 Discharges in Millions of Gallons per Day (mgd)

			Sanitary Sewer			Domestic Septic	Com/Ind/Min		Ag/Irr		Non-Ag Irr		Power Gen		Combined		
DEP Value	HUC11	HUC11 Name	UnGW	SW Fresh	SW Saline		UnGW	SW	UnGW	SW	UnGW	SW	UnGW	SW	UnGW	SW	Total
107	02040301150	Basto River	0.0	0.0	0.0	0.9	0.0	0.0	0.4	0.2	0.0	0.0	0.0	0.0	1.3	0.2	1.6
109	02040301160	Mullica River (above Basto River)	0.0	0.0	0.0	1.6	0.1	0.0	0.6	0.1	0.0	0.0	0.0	0.0	2.3	0.1	2.4
122	02040301170	Mullica River (Turtle Ck to Basto River)	0.0	0.0	0.0	0.9	0.0	0.0	0.5	0.0	0.0	0.0	0.0	0.0	1.4	0.0	1.4
108	02040301180	Oswego River	0.0	0.0	0.0	0.0	0.0	6.9	0.1	4.1	0.0	0.0	0.0	0.0	0.1	11.0	11.1
103	02040301190	West Branch Wading River	0.0	0.0	0.0	0.1	0.0	0.0	2.1	2.5	0.0	0.0	0.0	0.0	2.2	2.5	4.6
120	02040301200	Mullica River (GSP bridge to Turtle Ck)	0.0	0.0	0.0	0.3	0.2	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.7	0.0	0.7
130	02040301210	Great Bay / Mullica R (below GSP bridge)	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.1
134	02040302910	Atlantic Coast (Little Egg to Absecon)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Notes (applicability may vary by WMA)

1. There are some watersheds upstream of WMA where depletive and consumptive uses are occurring, but this analysis does not account for out of state water use.
2. New or increased diversions within HUC11s located completely or partially within the Highlands will be addressed on a case-by-case basis in cooperation with the Highlands Council.
3. New or increased diversions upstream of potable supply reservoirs or intakes must quantify and offset any reduction to the system's safe yield.
4. The HUC11 LFM method available water exceeds 50% of the 7Q10. Additional availability analysis required.
5. Peak Year With. represents the final year of the 3-year period with the highest average withdrawals.

WATERSHED MANAGEMENT AREA 15 - GREAT EGG HARBOR

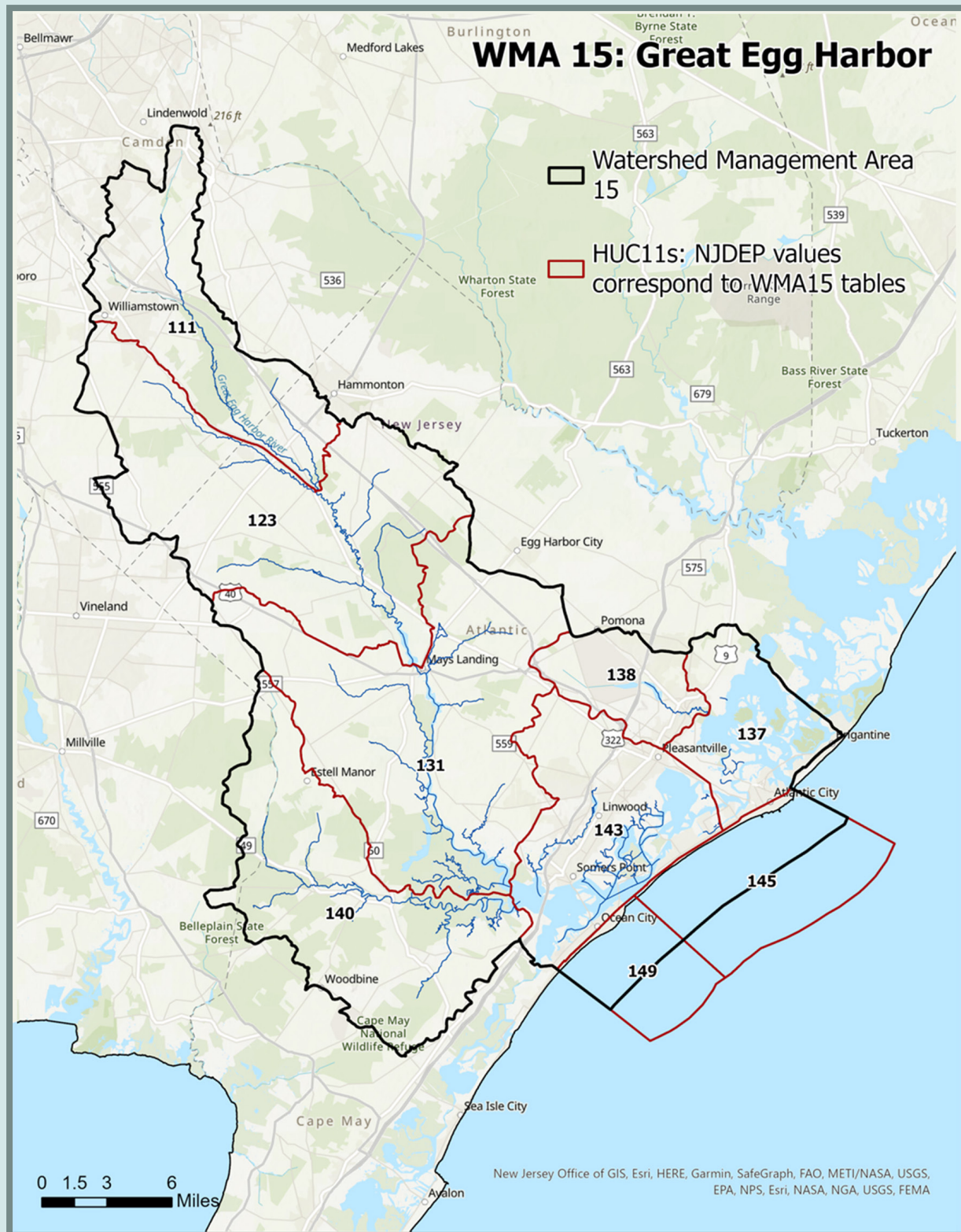


Table 15.A Summary of HUC11 Area, Low Flow Margin, and Water Availability Considerations

DEP Value	HUC11	HUC11 Name	HUC11 Area (mi ²)	Watershed Area (mi ²)	September Median Flow (mgd)	7Q10 (mgd)	LFM Percentage	LFM (mgd)	NJ Highlands ²	Major SW Potable Supply ³	Potentially 7Q10 Limited ⁴	Lim. Avail. HUC Upstream	In a Stressed WMA	Number of Stressed 3-Yr Periods	Has Saline Discharge
137	02040302010	Reeds Bay / Absecon Bay & tribs	39.3	14.8	12.7	3.4	25%	9.4			Yes	Yes	Yes	0	
138	02040302020	Absecon Creek	26.4	26.4	11.5	5.8	25%	5.7					Yes	8	
111	02040302030	Great Egg Harbor R (above HospitalityBr)	71.1	71.0	35.5	17.5	25%	18.0					Yes	5	
123	02040302040	Great Egg Harbor R (Lk Lenape to HospBr)	133.5	204.4	59.2	13.7	25%	45.5			Yes	Yes	Yes	0	
131	02040302050	Great Egg Harbor R (below Lake Lenape)	142.2	346.5	52.6	21.1	25%	31.5				Yes	Yes	0	
143	02040302060	Patcong Creek/ Great Egg Harbor Bay	71.0	42.7	30.0	15.8	25%	14.2				Yes	Yes	8	
140	02040302070	Tuckahoe River	102.4	102.1	36.6	15.5	25%	21.1					Yes	0	
145	02040302920	Atlantic Coast (Absecon to Great Egg)	54.0	54.0	Not Calc.	Not Calc.	25%								Yes
149	02040302930	Atlantic Coast (Great Egg to 34th St)	26.9	27.0	Not Calc.	Not Calc.	25%								

Table 15.B Summary of HUC11 Remaining Available Water and Full Allocation

					Current			Full Allocation (F.A.)			Largest Dep-Con Loss			
DEP Value	HUC11	HUC11 Name	Peak Year With. ⁵	Available Water (mgd)	Net Dep-Con (mgd)	% Available Used	Remaining Available Water (mgd)	Net Dep-Con (mgd)	% Available Used	Remaining Available Water (mgd)	Largest Loss Current Use	Largest Loss % Available Water (Current)	Largest Loss F.A. Use	Largest Loss % Available Water (F.A.)
137	02040302010	Reeds Bay / Absecon Bay & tribs	2013	2.3	0.6	24%	1.8	1.0	43%	1.3	Non-Ag Irr	20%	Non-Ag Irr	32%
138	02040302020	Absecon Creek	2013	1.4	14.2	1,000%	0.0	29.2	2,054%	0.0	Potable	100%	Potable	100%
111	02040302030	Great Egg Harbor R (above HospitalityBr)	2018	4.5	5.9	131%	0.0	19.7	438%	0.0	Potable	82%	Potable	100%
123	02040302040	Great Egg Harbor R (Lk Lenape to HospBr)	2016	11.4	10.0	88%	1.3	24.7	217%	0.0	Ag/Irr	66%	Ag/Irr	100%
131	02040302050	Great Egg Harbor R (below Lake Lenape)	2017	7.9	4.4	55%	3.5	9.9	125%	0.0	Potable	22%	Potable	65%
143	02040302060	Patcong Creek/ Great Egg Harbor Bay	2013	3.6	7.2	202%	0.0	11.0	310%	0.0	Potable	100%	Potable	100%
140	02040302070	Tuckahoe River	2018	5.3	3.1	58%	2.2	5.5	105%	0.0	Con Aq Leak	30%	Com/Ind/Min	26%
145	02040302920	Atlantic Coast (Absecon to Great Egg)												
149	02040302930	Atlantic Coast (Great Egg to 34th St)												

Table 15.C Summary of HUC11 Withdrawals in Millions of Gallons per Day (mgd)

			Public Supply		Domestic	Com/Ind/Min		Ag/Irr		Non-Ag Irr		Power Gen		Combined				RSW Withdrawals
DEP Value	HUC11	HUC11 Name	UnGW	Non-RSW SW	UnGW	UnGW	SW	UnGW	SW	UnGW	SW	UnGW	SW	SFD Adj UnGW	SW	Leakage	Total	
137	02040302010	Reeds Bay / Absecon Bay & tribs	0.0	0.0	0.2	0.0	0.0	0.0	0.0	0.6	0.0	0.0	0.0	0.7	0.0	0.0	0.8	0.0
138	02040302020	Absecon Creek	10.7	4.3	0.8	1.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	11.4	4.3	0.1	15.7	0.0
111	02040302030	Great Egg Harbor R (above HospitalityBr)	3.9	0.0	1.4	0.0	1.6	2.5	0.1	0.0	0.0	0.0	0.0	7.0	1.7	0.0	8.7	0.0
123	02040302040	Great Egg Harbor R (Lk Lenape to HospBr)	0.9	0.0	1.6	0.0	3.4	9.3	0.0	0.2	0.0	0.0	0.0	10.9	3.4	1.4	15.7	0.0
131	02040302050	Great Egg Harbor R (below Lake Lenape)	1.6	0.0	1.9	0.3	0.0	0.9	0.0	0.6	0.5	0.0	0.0	4.7	0.6	0.9	6.2	0.0
143	02040302060	Patcong Creek/Great Egg Harbor Bay	7.4	0.0	1.0	0.1	0.0	0.1	0.1	0.5	0.1	0.1	0.0	8.2	0.1	0.1	8.5	0.0
140	02040302070	Tuckahoe River	0.4	0.0	0.5	0.1	7.0	0.9	0.0	0.0	0.0	0.0	0.0	1.7	7.0	1.6	10.2	0.0
145	02040302920	Atlantic Coast (Absecon to Great Egg)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
149	02040302930	Atlantic Coast (Great Egg to 34th St)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Table 15.D Summary of HUC11 Discharges in Millions of Gallons per Day (mgd)

DEP Value	HUC11	HUC11 Name	Sanitary Sewer			Domestic Septic	Com/Ind/Min		Ag/Irr		Non-Ag Irr		Power Gen		Combined		
			UnGW	SW Fresh	SW Saline		UnGW	SW	UnGW	SW	UnGW	SW	UnGW	SW	UnGW	SW	Total
137	02040302010	Reeds Bay / Absecon Bay & tribs	0.0	0.0	0.0	0.2	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.2	0.0	0.2
138	02040302020	Absecon Creek	0.0	0.0	0.0	0.6	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.5	0.0	1.5
111	02040302030	Great Egg Harbor R (above HospitalityBr)	0.0	0.0	0.0	1.0	0.0	1.5	0.3	0.0	0.0	0.0	0.0	0.0	1.3	1.5	2.8
123	02040302040	Great Egg Harbor R (Lk Lenape to HospBr)	0.0	0.3	0.0	1.2	0.0	3.2	0.9	0.0	0.0	0.0	0.0	0.0	2.2	3.5	5.7
131	02040302050	Great Egg Harbor R (below Lake Lenape)	0.0	0.0	0.0	1.4	0.2	0.0	0.1	0.0	0.1	0.1	0.0	0.0	1.8	0.1	1.9
143	02040302060	Patcong Creek/ Great Egg Harbor Bay	0.0	0.0	0.0	0.7	0.5	0.0	0.0	0.0	0.1	0.0	0.0	0.0	1.3	0.0	1.3
140	02040302070	Tuckahoe River	0.0	0.0	0.0	0.4	0.1	6.6	0.1	0.0	0.0	0.0	0.0	0.0	0.6	6.6	7.2
145	02040302920	Atlantic Coast (Absecon to Great Egg)	0.0	0.0	27.5	0.0	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.0	0.4
149	02040302930	Atlantic Coast (Great Egg to 34th St)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Notes (applicability may vary by WMA)

1. There are some watersheds upstream of WMA where depletive and consumptive uses are occurring, but this analysis does not account for out of state water use.
2. New or increased diversions within HUC11s located completely or partially within the Highlands will be addressed on a case-by-case basis in cooperation with the Highlands Council.
3. New or increased diversions upstream of potable supply reservoirs or intakes must quantify and offset any reduction to the system's safe yield.
4. The HUC11 LFM method available water exceeds 50% of the 7Q10. Additional availability analysis required.
5. Peak Year With. represents the final year of the 3-year period with the highest average withdrawals.

WATERSHED MANAGEMENT AREA 16 - CAPE MAY

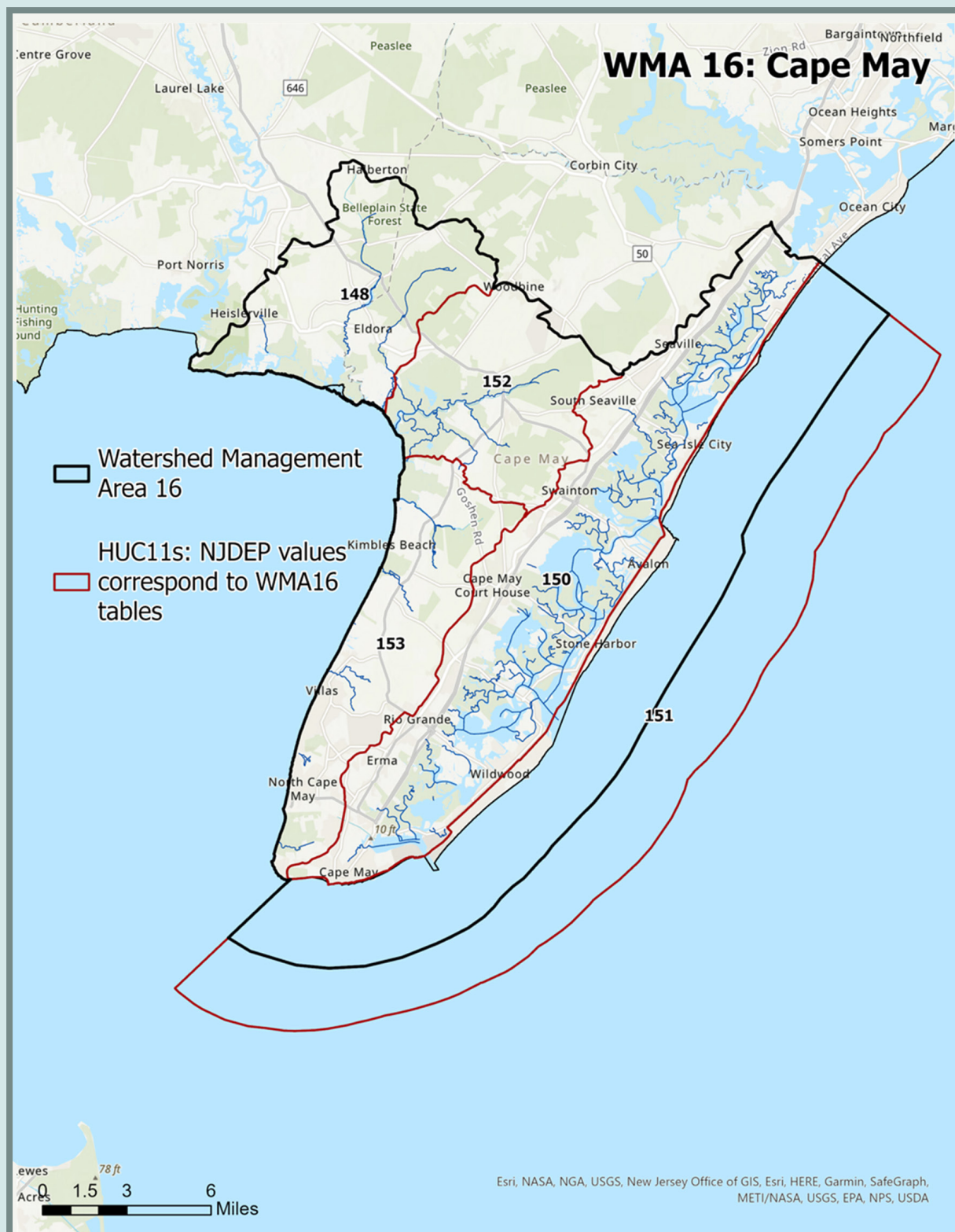


Table 16.A Summary of HUC11 Area, Low Flow Margin, and Water Availability Considerations

DEP Value	HUC11	HUC11 Name	HUC11 Area (mi ²)	Watershed Area (mi ²)	September Median Flow (mgd)	7Q10 (mgd)	LFM Percentage	LFM (mgd)	NJ Highlands ²	Major SW Potable Supply ³	Potentially 7Q10 Limited ⁴	Lim. Avail. HUC Upstream	In a Stressed WMA	Number of Stressed 3-Yr Periods	Has Saline Discharge
148	02040206210	West Creek / East Creek / Riggins Ditch	45.3	45.3	6.7	1.2	25%	5.5			Yes			0	
152	02040206220	Dennis Creek	41.2	41.2	5.3	0.7	25%	4.5			Yes			0	
153	02040206230	Cape May Tribs West	45.2	45.1	5.5	1.5	25%	3.9			Yes			0	Yes
150	02040302080	Cape May Bays & Tribs East	103.2	69.1	17.6	4.6	25%	13.0			Yes			0	Yes
151	02040302940	Atlantic Coast (34th St to Cape May Pt)	191.0	191.0	Not Calc.	Not Calc.	25%								

Table 16.B Summary of HUC11 Remaining Available Water and Full Allocation

					Current			Full Allocation (F.A.)			Largest Dep-Con Loss			
DEP Value	HUC11	HUC11 Name	Peak Year With. ⁵	Available Water (mgd)	Net Dep-Con (mgd)	% Available Used	Remaining Available Water (mgd)	Net Dep-Con (mgd)	% Available Used	Remaining Available Water (mgd)	Largest Loss Current Use	Largest Loss % Available Water (Current)	Largest Loss F.A. Use	Largest Loss % Available Water (F.A.)
148	02040206210	West Creek / East Creek / Riggins Ditch	2013	1.4	1.0	69%	0.4	2.7	193%	0.0	Ag/Irr	73%	Ag/Irr	100%
152	02040206220	Dennis Creek	2016	1.1	0.4	37%	0.7	3.7	329%	0.0	Ag/Irr	27%	Ag/Irr	100%
153	02040206230	Cape May Tribs West	2016	1.0	0.9	91%	0.1	6.2	632%	0.0	Potable	82%	Potable	100%
150	02040302080	Cape May Bays & Tribs East	2016	3.2	-0.6	Net Gain	3.8	2.4	75%	0.8	Non-Ag Irr	31%	Potable	48%
151	02040302940	Atlantic Coast (34th St to Cape May Pt)												

Table 16.C Summary of HUC11 Withdrawals in Millions of Gallons per Day (mgd)

			Public Supply		Domestic	Com/Ind/Min		Ag/Irr		Non-Ag Irr		Power Gen		Combined				RSW Withdrawals
DEP Value	HUC11	HUC11 Name	UnGW	Non-RSW SW	UnGW	UnGW	SW	UnGW	SW	UnGW	SW	UnGW	SW	SFD Adj UnGW	SW	Leakage	Total	
148	02040206210	West Creek / East Creek / Riggins Ditch	0.0	0.0	0.2	0.0	0.0	1.3	0.0	0.0	0.0	0.0	0.0	1.3	0.0	0.5	1.8	0.0
152	02040206220	Dennis Creek	0.0	0.0	0.3	0.0	0.0	0.4	0.0	0.0	0.0	0.0	0.0	0.6	0.0	0.1	0.6	0.0
153	02040206230	Cape May Tribs West	1.9	0.6	1.8	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	3.5	0.7	0.0	4.2	0.0
150	02040302080	Cape May Bays & Tribs East	1.3	0.1	2.4	0.3	0.4	0.2	0.0	0.9	0.3	0.0	0.0	4.6	0.8	0.1	5.5	0.0
151	02040302940	Atlantic Coast (34th St to Cape May Pt)	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6	0.0	0.0	0.6	0.0

Table 16.D Summary of HUC11 Discharges in Millions of Gallons per Day (mgd)

			Sanitary Sewer			Domestic Septic	Com/Ind/Min		Ag/Irr		Non-Ag Irr		Power Gen		Combined		
DEP Value	HUC11	HUC11 Name	UnGW	SW Fresh	SW Saline		UnGW	SW	UnGW	SW	UnGW	SW	UnGW	SW	UnGW	SW	Total
148	02040206210	West Creek / East Creek / Riggins Ditch	0.0	0.6	0.0	0.1	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.3	0.6	0.9
152	02040206220	Dennis Creek	0.0	0.0	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.0	0.2
153	02040206230	Cape May Tribes West	0.0	1.8	1.3	1.4	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	1.4	1.9	3.3
150	02040302080	Cape May Bays & Tribes East	0.0	3.4	14.2	1.8	0.3	0.3	0.1	0.0	0.1	0.0	0.0	0.0	2.3	3.8	6.1
151	02040302940	Atlantic Coast (34th St to Cape May Pt)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Notes (applicability may vary by WMA)

1. There are some watersheds upstream of WMA where depletive and consumptive uses are occurring, but this analysis does not account for out of state water use.
2. New or increased diversions within HUC11s located completely or partially within the Highlands will be addressed on a case-by-case basis in cooperation with the Highlands Council.
3. New or increased diversions upstream of potable supply reservoirs or intakes must quantify and offset any reduction to the system's safe yield.
4. The HUC11 LFM method available water exceeds 50% of the 7Q10. Additional availability analysis required.
5. Peak Year With. represents the final year of the 3-year period with the highest average withdrawals.

WATERSHED MANAGEMENT AREA 17 - MAURICE, SALEM, AND COHANSEY

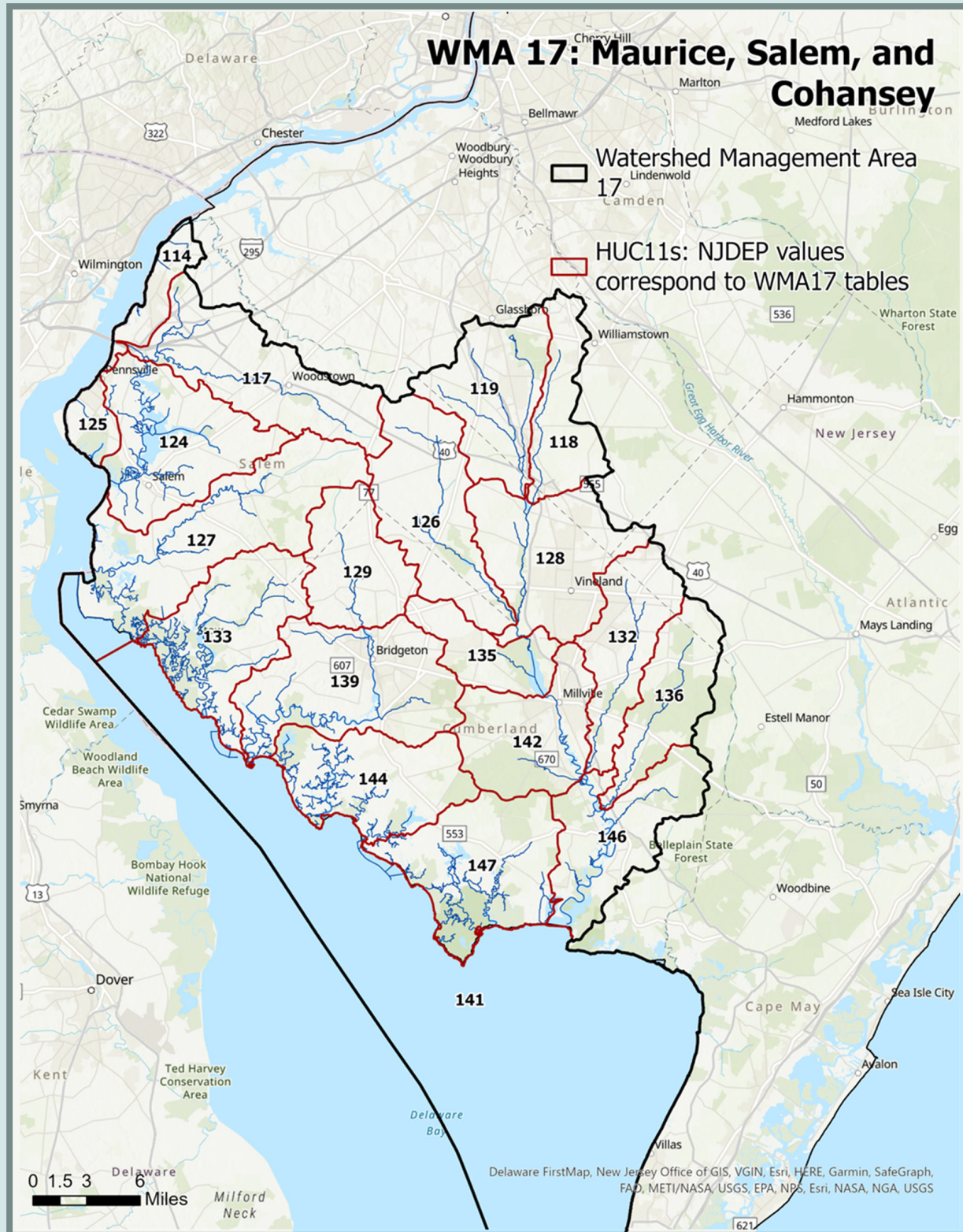


Table 17.A Summary of HUC11 Area, Low Flow Margin, and Water Availability Considerations

DEP Value	HUC11	HUC11 Name	HUC11 Area (mi ²)	Watershed Area (mi ²)	September Median Flow (mgd)	7Q10 (mgd)	LFM Percentage	LFM (mgd)	NJ Highlands ²	Major SW Potable Supply ³	Potentially 7Q10 Limited ⁴	Lim. Avail. HUC Upstream	In a Stressed WMA	Number of Stressed 3-Yr Periods	Has Saline Discharge
141	02040204910	Delaware Bay (Cape May Pt to Fishing Ck)	348.6	348.6	Not Calc.	Not Calc.	25%								
114	02040206020	Pennsville / Penns Grove tribs	13.7	22.7	3.0	1.3	25%	1.7					Yes	0	Yes
117	02040206030	Salem R (above 39d40m14s dam)/ Salem Canal	58.3	58.3	12.9	5.4	25%	7.5					Yes	7	
124	02040206040	Salem River (below 39d40m14s dam)	58.9	58.6	13.0	3.1	25%	9.8			Yes		Yes	3	Yes
127	02040206060	Alloway Creek / Hope Creek	85.8	77.5	22.8	4.1	25%	18.7			Yes		Yes	0	Yes
133	02040206070	Stow Creek	55.2	55.0	24.6	8.9	25%	15.7					Yes	0	Yes
129	02040206080	Cohansey River (above Sunset Lake)	37.4	37.4	15.9	8.8	25%	7.1					Yes	8	
139	02040206090	Cohansey River (below Cornwell Run)	69.7	107.0	33.3	17.2	25%	16.1				Yes	Yes	8	
144	02040206100	Back / Cedar / Nantuxent Creeks	51.0	51.0	10.7	3.9	25%	6.8					Yes	8	

DEP Value	HUC11	HUC11 Name	HUC11 Area (mi ²)	Watershed Area (mi ²)	September Median Flow (mgd)	7Q10 (mgd)	LFM Percentage	LFM (mgd)	NJ Highlands ²	Major SW Potable Supply ³	Potentially 7Q10 Limited ⁴	Lim. Avail. HUC Upstream	In a Stressed WMA	Number of Stressed 3-Yr Periods	Has Saline Discharg
147	02040206110	Dividing Creek	60.1	60.6	7.6	1.3	25%	6.3			Yes		Yes	7	
119	02040206120	Still Run / Little Ease Run	46.1	46.1	14.9	5.7	25%	9.2					Yes	4	
118	02040206130	Scotland Run	29.8	29.8	12.9	5.5	25%	7.3					Yes	8	
128	02040206140	Maurice River (above Sherman Ave Bridge)	56.8	190.5	42.6	15.5	25%	27.1				Yes	Yes	7	
126	02040206150	Muddy Run	57.9	57.8	20.8	10.1	25%	10.7					Yes	8	
135	02040206160	Maurice River (Union Lk to Sherman Ave)	25.0	215.5	10.8	5.8	25%	5.0				Yes	Yes	8	
142	02040206170	Maurice River (Menantico Ck to Union Lk)	44.6	260.1	11.4	4.7	25%	6.7				Yes	Yes	8	Yes
132	02040206180	Menantico Creek	39.2	39.2	22.9	7.8	25%	15.1					Yes	8	
136	02040206190	Manamuskin River	36.2	36.2	14.1	6.8	25%	7.4					Yes	0	
146	02040206200	Maurice River (below Menantico Creek)	48.9	384.4	20.2	9.1	25%	11.2				Yes	Yes	0	

Table 17.B Summary of HUC11 Remaining Available Water and Full Allocation

					Current			Full Allocation (F.A.)			Largest Dep-Con Loss			
DEP Value	HUC11	HUC11 Name	Peak Year With. ⁵	Available Water (mgd)	Net Dep-Con (mgd)	% Available Used	Remaining Available Water (mgd)	Net Dep-Con (mgd)	% Available Used	Remaining Available Water (mgd)	Largest Loss Current Use	Largest Loss % Available Water (Current)	Largest Loss F.A. Use	Largest Loss % Available Water (F.A.)
141	02040204910	Delaware Bay (Cape May Pt to Fishing Ck)												
114	02040206020	Pennsville / Penns Grove tribs	2014	0.4	-0.7	Net Gain	1.2	-3.6	Net Gain	4.0	Con Aq Leak	100%	Potable	100%
117	02040206030	Salem R (above 39d40m14s dam)/ Salem Canal	2017	1.9	6.1	328%	0.0	13.2	707%	0.0	Ag/Irr	100%	Ag/Irr	100%
124	02040206040	Salem River (below 39d40m14s dam)	2018	2.5	2.7	110%	0.0	5.4	218%	0.0	Ag/Irr	70%	Ag/Irr	100%
127	02040206060	Alloway Creek / Hope Creek	2013	4.7	0.9	20%	3.7	7.4	158%	0.0	Ag/Irr	9%	Potable	100%
133	02040206070	Stow Creek	2017	3.9	1.5	38%	2.5	5.7	145%	0.0	Ag/Irr	33%	Ag/Irr	100%
129	02040206080	Cohansey River (above Sunset Lake)	2016	1.8	10.0	562%	0.0	46.7	2,631%	0.0	Ag/Irr	100%	Ag/Irr	100%
139	02040206090	Cohansey River (below Cornwell Run)	2016	4.0	7.2	179%	0.0	33.0	821%	0.0	Ag/Irr	100%	Ag/Irr	100%
144	02040206100	Back / Cedar / Nantuxent Creeks	2016	1.7	4.4	259%	0.0	19.1	1,116%	0.0	Ag/Irr	100%	Ag/Irr	100%

					Current			Full Allocation (F.A.)			Largest Dep-Con Loss			
DEP Value	HUC11	HUC11 Name	Peak Year With. ⁵	Available Water (mgd)	Net Dep-Con (mgd)	% Available Used	Remaining Available Water (mgd)	Net Dep-Con (mgd)	% Available Used	Remaining Available Water (mgd)	Largest Loss Current Use	Largest Loss % Available Water (Current)	Largest Loss F.A. Use	Largest Loss % Available Water (F.A.)
147	02040206110	Dividing Creek	2015	1.6	2.6	166%	0.0	3.8	242%	0.0	Com/Ind /Min	100%	Com/Ind/ Min	100%
119	02040206120	Still Run / Little Ease Run	2020	2.3	3.2	138%	0.0	8.9	388%	0.0	Ag/Irr	84%	Ag/Irr	100%
118	02040206130	Scotland Run	2013	1.8	2.5	136%	0.0	7.6	414%	0.0	Potable	100%	Potable	100%
128	02040206140	Maurice River (above Sherman Ave Bridge)	2016	6.8	10.5	155%	0.0	25.8	381%	0.0	Potable	100%	Potable	100%
126	02040206150	Muddy Run	2017	2.7	10.5	393%	0.0	27.0	1,007%	0.0	Ag/Irr	100%	Ag/Irr	100%
135	02040206160	Maurice River (Union Lk to Sherman Ave)	2016	1.2	3.7	299%	0.0	10.9	878%	0.0	Ag/Irr	100%	Ag/Irr	100%
142	02040206170	Maurice River (Menantico Ck to Union Lk)	2020	1.7	4.8	285%	0.0	9.9	590%	0.0	Potable	100%	Potable	100%
132	02040206180	Menantico Creek	2016	3.8	8.8	233%	0.0	27.1	719%	0.0	Ag/Irr	100%	Ag/Irr	100%
136	02040206190	Manamuskin River	2015	1.8	1.7	95%	0.1	5.5	298%	0.0	Ag/Irr	80%	Ag/Irr	100%
146	02040206200	Maurice River (below Menantico Creek)	2020	2.8	1.6	57%	1.2	4.3	155%	0.0	Con Aq Leak	39%	Potable	78%

Table 17.C Summary of HUC11 Withdrawals in Millions of Gallons per Day (mgd)

			Public Supply		Domestic	Com/Ind/Min		Ag/Irr		Non-Ag Irr		Power Gen		Combined				RSW Withdrawals
DEP Value	HUC11	HUC11 Name	UnGW	Non-RSW SW	UnGW	UnGW	SW	UnGW	SW	UnGW	SW	UnGW	SW	SFD Adj UnGW	SW	Leakage	Total	
141	02040204910	Delaware Bay (Cape May Pt to Fishing Ck)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
114	02040206020	Pennsville / Penns Grove tribs	0.9	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	1.4	0.0	2.2	0.0	1.0	3.2	0.0
117	02040206030	Salem R (above 39d40m14s dam)/ Salem Canal	0.3	0.0	0.6	0.0	8.8	0.5	4.5	0.0	0.0	0.0	0.0	1.3	13.3	0.9	15.6	0.0
124	02040206040	Salem River (below 39d40m14s dam)	0.0	0.0	0.4	0.0	0.0	0.2	1.8	0.0	0.0	0.0	0.0	0.5	1.8	0.9	3.2	0.0
127	02040206060	Alloway Creek / Hope Creek	0.0	0.3	0.9	0.0	0.0	0.4	0.1	0.0	0.0	0.0	0.0	1.2	0.3	0.1	1.7	0.0
133	02040206070	Stow Creek	0.0	0.0	0.2	0.0	1.0	0.6	0.9	0.0	0.0	0.0	0.0	0.7	1.9	0.0	2.6	0.0
129	02040206080	Cohansey River (above Sunset Lake)	0.6	0.0	0.8	4.8	0.0	10.1	1.3	0.0	0.0	0.0	0.0	14.6	1.3	0.0	16.0	0.0
139	02040206090	Cohansey River (below Cornwell Run)	2.9	0.0	1.3	0.0	1.5	7.1	1.3	0.1	0.0	0.0	0.0	10.2	2.7	0.0	13.0	0.0
144	02040206100	Back / Cedar / Nantuxent Creeks	0.0	0.0	0.4	0.0	0.0	5.2	0.1	0.0	0.0	0.0	0.0	5.0	0.1	0.1	5.3	0.0
147	02040206110	Dividing Creek	0.0	0.0	0.2	0.2	43.9	0.0	0.0	0.0	0.0	0.0	0.0	0.4	43.9	0.0	44.3	0.0
119	02040206120	Still Run / Little Ease Run	0.9	0.1	0.9	0.0	0.0	2.2	0.2	0.0	0.0	0.0	0.0	3.6	0.4	0.2	4.1	0.0
118	02040206130	Scotland Run	2.3	0.0	1.0	0.0	0.0	0.4	0.0	0.0	0.0	0.0	0.0	3.3	0.0	0.0	3.3	0.0

			Public Supply		Domestic	Com/Ind/Min		Ag/Irr		Non-Ag Irr		Power Gen		Combined				RSW Withdrawals
DEP Value	HUC11	HUC11 Name	UnGW	Non-RSW SW	UnGW	UnGW	SW	UnGW	SW	UnGW	SW	UnGW	SW	SFD Adj UnGW	SW	Leakage	Total	
128	02040206140	Maurice River (above Sherman Ave Bridge)	8.5	0.0	1.2	1.3	0.0	3.3	0.0	0.0	0.0	0.0	0.0	13.0	0.0	0.0	13.0	0.0
126	02040206150	Muddy Run	0.1	0.2	0.7	0.1	0.0	10.6	0.6	0.3	0.2	0.0	0.0	10.6	1.0	0.7	12.3	0.0
135	02040206160	Maurice River (Union Lk to Sherman Ave)	0.6	0.0	0.4	0.0	0.0	2.8	0.0	0.0	0.0	0.0	0.0	3.4	0.0	0.9	4.3	0.0
142	02040206170	Maurice River (Menantico Ck to Union Lk)	3.2	0.0	0.4	0.2	0.0	2.2	0.0	0.0	0.0	0.0	0.0	5.5	0.0	0.0	5.5	0.0
132	02040206180	Menantico Creek	1.7	0.0	0.6	0.7	4.6	7.2	0.3	0.1	0.0	0.0	0.0	9.3	4.9	0.5	14.8	0.0
136	02040206190	Manamuskin River	0.2	0.0	0.3	0.1	0.0	1.9	0.0	0.0	0.0	0.0	0.0	2.2	0.0	0.1	2.3	0.0
146	02040206200	Maurice River (below Menantico Creek)	0.0	0.0	0.4	1.0	8.8	0.0	0.0	0.0	0.0	0.0	0.0	1.2	8.8	1.1	11.1	0.0

Table 17.D Summary of HUC11 Discharges in Millions of Gallons per Day (mgd)

DEP Value	HUC11	HUC11 Name	Sanitary Sewer			Domestic Septic	Com/Ind/Min		Ag/Irr		Non-Ag Irr		Power Gen		Combined		
			UnGW	SW Fresh	SW Saline		UnGW	SW	UnGW	SW	UnGW	SW	UnGW	SW	UnGW	SW	Total
141	02040204910	Delaware Bay (Cape May Pt to Fishing Ck)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
114	02040206020	Pennsville / Penns Grove tribs	0.0	1.1	1.1	0.1	1.4	0.0	0.0	0.0	0.0	0.0	1.4	0.0	2.9	1.1	4.0
117	02040206030	Salem R (above 39d40m14s dam)/ Salem Canal	0.0	0.4	0.0	0.5	0.0	8.0	0.1	0.4	0.0	0.0	0.0	0.0	0.6	8.9	9.4
124	02040206040	Salem River (below 39d40m14s dam)	0.0	0.0	0.6	0.3	0.0	0.0	0.0	0.2	0.0	0.0	0.0	0.0	0.3	0.2	0.5
127	02040206060	Alloway Creek / Hope Creek	0.0	0.0	0.0	0.6	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.7	0.0	0.7
133	02040206070	Stow Creek	0.0	0.0	0.0	0.1	0.0	0.9	0.1	0.1	0.0	0.0	0.0	0.0	0.2	1.0	1.1
129	02040206080	Cohansey River (above Sunset Lake)	0.0	0.0	0.0	0.6	4.3	0.0	1.0	0.1	0.0	0.0	0.0	0.0	5.9	0.1	6.0
139	02040206090	Cohansey River (below Cornwell Run)	0.0	2.7	0.0	0.9	0.0	1.3	0.7	0.1	0.0	0.0	0.0	0.0	1.7	4.1	5.8
144	02040206100	Back / Cedar / Nantuxent Creeks	0.0	0.0	0.0	0.3	0.0	0.0	0.5	0.0	0.0	0.0	0.0	0.0	0.8	0.0	0.8
147	02040206110	Dividing Creek	0.0	0.0	0.0	0.2	0.2	41.3	0.0	0.0	0.0	0.0	0.0	0.0	0.4	41.3	41.7

			Sanitary Sewer			Domestic Septic	Com/Ind/Min		Ag/Irr		Non-Ag Irr		Power Gen		Combined		
DEP Value	HUC11	HUC11 Name	UnGW	SW Fresh	SW Saline		UnGW	SW	UnGW	SW	UnGW	SW	UnGW	SW	UnGW	SW	Total
119	02040206120	Still Run / Little Ease Run	0.0	0.0	0.0	0.7	0.0	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.9	0.0	0.9
118	02040206130	Scotland Run	0.0	0.0	0.0	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8	0.0	0.8
128	02040206140	Maurice River (above Sherman Ave Bridge)	0.0	0.0	0.0	0.9	1.2	0.0	0.3	0.0	0.0	0.0	0.0	0.0	2.4	0.0	2.4
126	02040206150	Muddy Run	0.0	0.0	0.0	0.5	0.1	0.0	1.1	0.1	0.0	0.0	0.0	0.0	1.7	0.1	1.8
135	02040206160	Maurice River (Union Lk to Sherman Ave)	0.0	0.0	0.0	0.3	0.0	0.0	0.3	0.0	0.0	0.0	0.0	0.0	0.6	0.0	0.6
142	02040206170	Maurice River (Menantico Ck to Union Lk)	0.0	0.0	2.2	0.3	0.2	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.7	0.0	0.7
132	02040206180	Menantico Creek	0.0	0.0	0.0	0.4	0.6	4.1	0.7	0.0	0.0	0.0	0.0	0.0	1.8	4.2	6.0
136	02040206190	Manamuskin River	0.0	0.0	0.0	0.2	0.1	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.5	0.0	0.5
146	02040206200	Maurice River (below Menantico Creek)	0.0	0.0	0.0	0.3	0.9	8.3	0.0	0.0	0.0	0.0	0.0	0.0	1.2	8.3	9.5

Notes (applicability may vary by WMA)

1. There are some watersheds upstream of WMA where depletive and consumptive uses are occurring, but this analysis does not account for out of state water use.
2. New or increased diversions within HUC11s located completely or partially within the Highlands will be addressed on a case-by-case basis in cooperation with the Highlands Council.
3. New or increased diversions upstream of potable supply reservoirs or intakes must quantify and offset any reduction to the system's safe yield.
4. The HUC11 LFM method available water exceeds 50% of the 7Q10. Additional availability analysis required.
5. Peak Year With. represents the final year of the 3-year period with the highest average withdrawals.

WATERSHED MANAGEMENT AREA 18 - LOWER DELAWARE

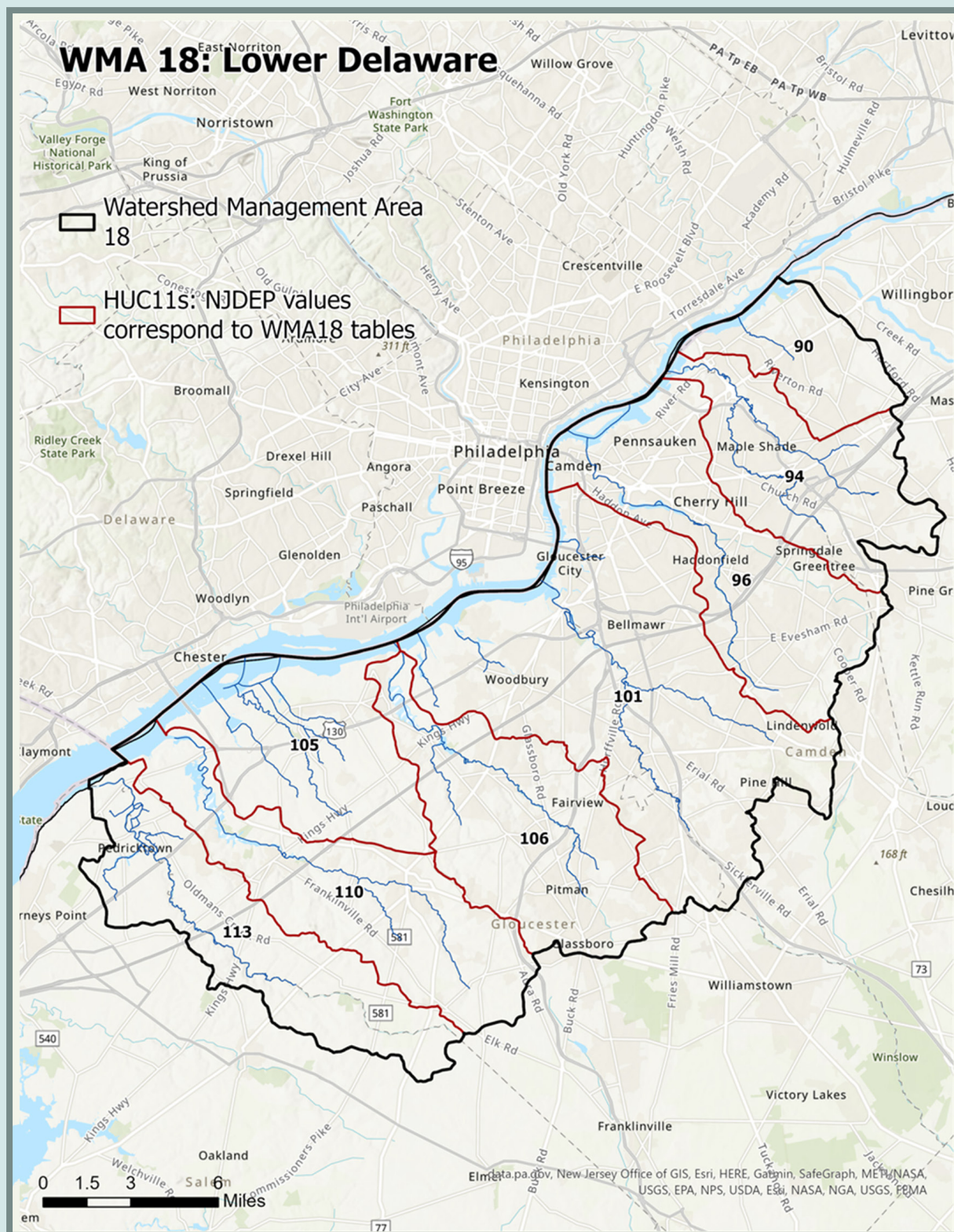


Table 18.A Summary of HUC11 Area, Low Flow Margin, and Water Availability Considerations

DEP Value	HUC11	HUC11 Name	HUC11 Area (mi ²)	Watershed Area (mi ²)	September Median Flow (mgd)	7Q10 (mgd)	LFM Percentage	LFM (mgd)	NJ Highlands ²	Major SW Potable Supply ³	Potentially 7Q10 Limited ⁴	Lim. Avail. HUC Upstream	In a Stressed WMA	Number of Stressed 3-Yr Periods	Has Saline Discharge
90	02040202090	Pompeston Creek / Swede Run	19.8	18.5	4.0	1.4	25%	2.5						0	
94	02040202100	Pennsauken Creek	36.4	36.2	9.8	4.4	25%	5.4						0	
96	02040202110	Cooper River	51.3	48.5	18.2	8.9	25%	9.3						8	
101	02040202120	Woodbury / Big Timber / Newton Creeks	98.9	95.7	71.3	43.3	25%	28.0						0	
106	02040202130	Mantua Creek	50.2	50.1	26.2	11.5	25%	14.7						0	
105	02040202140	Cedar Swamp / Repaupo Ck / Clonmell Ck	41.0	35.8	20.0	6.7	25%	13.3						0	
110	02040202150	Raccoon Creek / Birch Creek	49.7	48.4	21.4	9.9	25%	11.5						0	
113	02040202160	Oldmans Creek	44.0	43.9	16.1	6.7	25%	9.4						8	

Table 18.B Summary of HUC11 Remaining Available Water and Full Allocation

					Current			Full Allocation (F.A.)			Largest Dep-Con Loss			
DEP Value	HUC11	HUC11 Name	Peak Year With. ⁵	Available Water (mgd)	Net Dep-Con (mgd)	% Available Used	Remaining Available Water (mgd)	Net Dep-Con (mgd)	% Available Used	Remaining Available Water (mgd)	Largest Loss Current Use	Largest Loss % Available Water (Current)	Largest Loss F.A. Use	Largest Loss % Available Water (F.A.)
90	02040202090	Pompeston Creek / Swede Run	2017	0.6	-0.3	Net Gain	1.0	0.4	62%	0.2	Con Aq Leak	100%	Potable	100%
94	02040202100	Pennsauken Creek	2014	1.4	-0.4	Net Gain	1.8	-0.3	Net Gain	1.7	Con Aq Leak	100%	Potable	87%
96	02040202110	Cooper River	2020	2.3	8.0	346%	0.0	10.4	447%	0.0	Potable	100%	Potable	100%
101	02040202120	Woodbury / Big Timber / Newton Creeks	2016	7.0	-57.2	Net Gain	64.2	-58.8	Net Gain	65.8	Con Aq Leak	57%	Potable	52%
106	02040202130	Mantua Creek	2018	3.7	2.9	80%	0.7	5.4	146%	0.0	Con Aq Leak	50%	Potable	100%
105	02040202140	Cedar Swamp / Repaupo Ck / Clonmell Ck	2014	3.3	1.0	31%	2.3	6.2	188%	0.0	Con Aq Leak	38%	Ag/Irr	100%
110	02040202150	Raccoon Creek / Birch Creek	2017	2.9	2.1	73%	0.8	9.2	318%	0.0	Ag/Irr	55%	Ag/Irr	100%
113	02040202160	Oldmans Creek	2013	2.4	3.9	164%	0.0	12.8	543%	0.0	Ag/Irr	100%	Ag/Irr	100%

Table 18.C Summary of HUC11 Withdrawals in Millions of Gallons per Day (mgd)

			Public Supply		Domestic	Com/Ind/Min		Ag/Irr		Non-Ag Irr		Power Gen		Combined				RSW Withdrawals
DEP Value	HUC11	HUC11 Name	UnGW	Non-RSW SW	UnGW	UnGW	SW	UnGW	SW	UnGW	SW	UnGW	SW	SFD Adj UnGW	SW	Leakage	Total	
90	02040202090	Pompeston Creek / Swede Run	0.0	0.0	0.1	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.1	0.1	1.2	1.4	0.0
94	02040202100	Pennsauken Creek	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.1	4.1	4.2	0.0
96	02040202110	Cooper River	4.5	0.0	0.2	0.1	0.9	0.0	0.0	0.2	0.1	0.0	0.0	4.4	1.1	3.7	9.2	0.0
101	02040202120	Woodbury / Big Timber / Newton Creeks	2.2	0.0	0.4	0.1	0.0	0.1	0.0	0.1	0.8	0.0	0.0	2.7	0.8	4.0	7.6	0.0
106	02040202130	Mantua Creek	0.5	0.0	0.5	0.1	0.2	0.2	0.4	0.0	0.1	0.0	0.0	1.2	0.7	1.9	3.8	0.0
105	02040202140	Cedar Swamp / Repaupo Ck / Clonmell Ck	0.8	0.1	0.2	0.4	0.4	0.3	0.3	0.0	0.0	0.0	0.0	1.6	0.8	1.3	3.7	0.0
110	02040202150	Raccoon Creek / Birch Creek	1.0	0.0	1.3	0.0	0.0	0.4	1.4	0.0	0.0	0.0	0.0	2.4	1.4	1.4	5.2	0.0
113	02040202160	Oldmans Creek	0.0	0.0	0.5	0.0	0.0	1.8	1.8	0.0	0.0	0.0	0.0	2.1	1.8	0.9	4.8	0.0

Table 18.D Summary of HUC11 Discharges in Millions of Gallons per Day (mgd)

			Sanitary Sewer			Domestic Septic	Com/Ind/Min		Ag/Irr		Non-Ag Irr		Power Gen		Combined		
DEP Value	HUC11	HUC11 Name	UnGW	SW Fresh	SW Saline		UnGW	SW	UnGW	SW	UnGW	SW	UnGW	SW	UnGW	SW	Total
90	02040202090	Pompeston Creek / Swede Run	0.0	1.6	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	1.6	1.7
94	02040202100	Pennsauken Creek	0.0	4.5	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	4.5	4.7
96	02040202110	Cooper River	0.0	0.0	0.0	0.1	0.1	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.9	1.1
101	02040202120	Woodbury / Big Timber/ Newton Creeks	0.0	63.4	0.0	0.3	0.9	0.0	0.0	0.0	0.0	0.1	0.0	0.0	1.3	63.5	64.8
106	02040202130	Mantua Creek	0.0	0.0	0.0	0.4	0.2	0.2	0.1	0.0	0.0	0.0	0.0	0.0	0.6	0.2	0.9
105	02040202140	Cedar Swamp / Repaupo Ck / Clonmell Ck	0.0	0.4	0.0	0.2	1.7	0.4	0.0	0.0	0.0	0.0	0.0	0.0	1.9	0.8	2.6
110	02040202150	Raccoon Creek / Birch Creek	0.0	1.7	0.0	0.9	0.2	0.0	0.1	0.1	0.0	0.0	0.0	0.0	1.2	1.9	3.1
113	02040202160	Oldmans Creek	0.0	0.0	0.0	0.4	0.1	0.0	0.2	0.2	0.0	0.0	0.0	0.0	0.8	0.2	1.0

Notes (applicability may vary by WMA)

1. There are some watersheds upstream of WMA where depletive and consumptive uses are occurring, but this analysis does not account for out of state water use.
2. New or increased diversions within HUC11s located completely or partially within the Highlands will be addressed on a case-by-case basis in cooperation with the Highlands Council.
3. New or increased diversions upstream of potable supply reservoirs or intakes must quantify and offset any reduction to the system's safe yield.
4. The HUC11 LFM method available water exceeds 50% of the 7Q10. Additional availability analysis required.
5. Peak Year With. represents the final year of the 3-year period with the highest average withdrawals.

WATERSHED MANAGEMENT AREA 19 - RANCOCAS

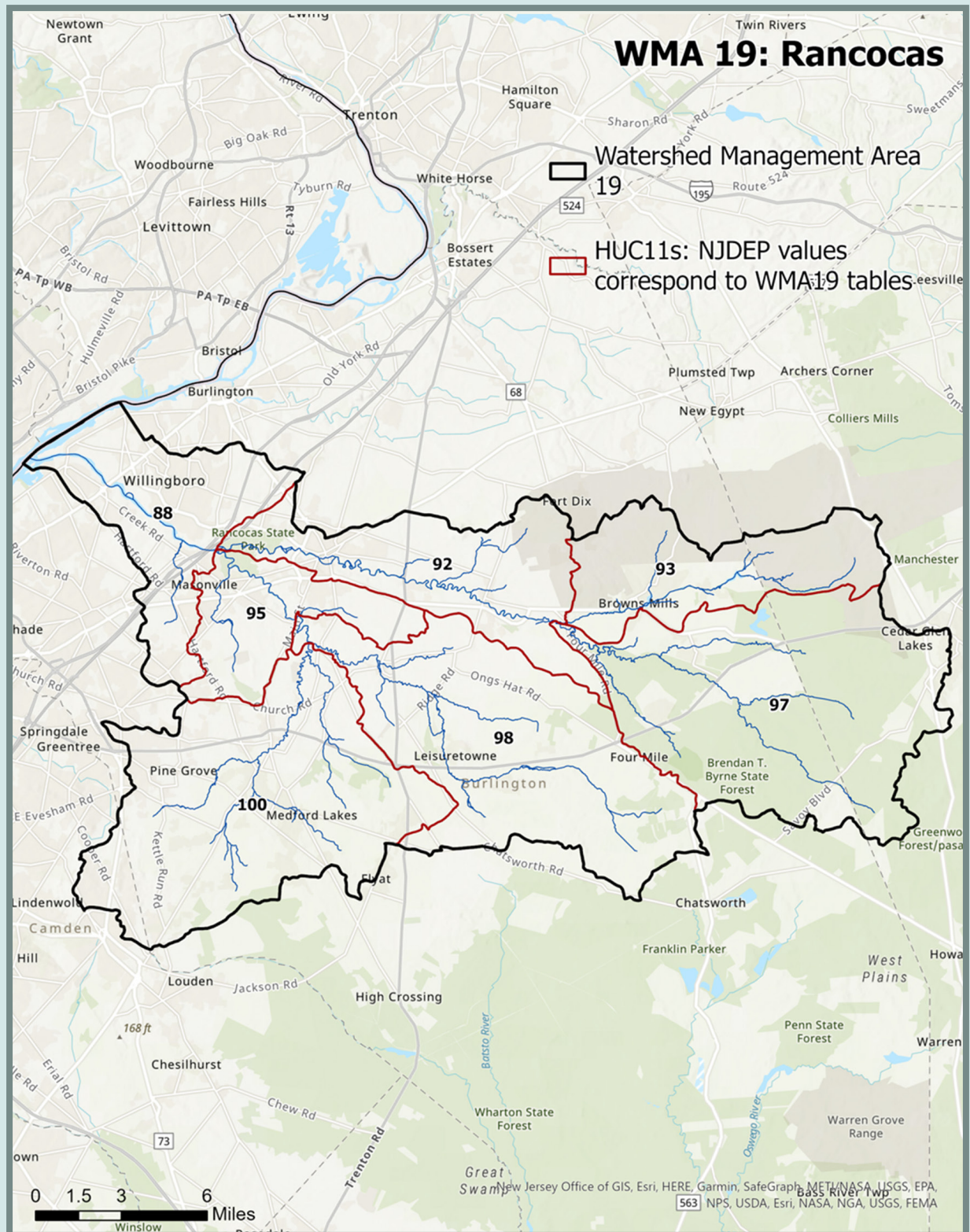


Table 19.A Summary of HUC11 Area, Low Flow Margin, and Water Availability Considerations

DEP Value	HUC11	HUC11 Name	HUC11 Area (mi ²)	Watershed Area (mi ²)	September Median Flow (mgd)	7Q10 (mgd)	LFM Percentage	LFM (mgd)	NJ Highlands ²	Major SW Potable Supply ³	Potentially 7Q10 Limited ⁴	Lim. Avail. HUC Upstream	In a Stressed WMA	Number of Stressed 3-Yr Periods	Has Saline Discharge
93	02040202020	Rancocas Creek NB (above New Lisbon dam)	32.1	32.1	17.7	7.0	25%	10.6						0	
97	02040202030	Greenwood Branch (NB Rancocas Creek)	78.2	78.1	31.3	13.7	25%	17.6						0	
92	02040202040	Rancocas Creek NB (below New Lisbon dam)	37.7	147.9	17.7	7.4	25%	10.4						0	
98	02040202050	Rancocas Creek SB (above Bobbys Run)	68.6	144.6	20.5	6.1	25%	14.4			Yes			0	
100	02040202060	Rancocas Creek SB SW Branch	76.0	76.0	26.8	12.9	25%	13.9						0	
95	02040202070	Rancocas Creek SB (below Bobbys Run)	22.6	167.1	4.7	1.7	25%	3.0						0	
88	02040202080	Rancocas Creek	35.6	349.7	6.9	2.7	25%	4.2						0	

Table 19.B Summary of HUC11 Remaining Available Water and Full Allocation

					Current			Full Allocation (F.A.)			Largest Dep-Con Loss			
DEP Value	HUC11	HUC11 Name	Peak Year With. ⁵	Available Water (mgd)	Net Dep-Con (mgd)	% Available Used	Remaining Available Water (mgd)	Net Dep-Con (mgd)	% Available Used	Remaining Available Water (mgd)	Largest Loss Current Use	Largest Loss % Available Water (Current)	Largest Loss F.A. Use	Largest Loss % Available Water (F.A.)
93	02040202020	Rancocas Creek NB (above New Lisbon dam)	2014	2.7	1.2	46%	1.4	4.1	153%	0.0	Potable	35%	Potable	100%
97	02040202030	Greenwood Branch (NB Rancocas Creek)	2020	4.4	0.7	16%	3.7	9.7	219%	0.0	Com/Ind/Min	11%	Potable	100%
92	02040202040	Rancocas Creek NB (below New Lisbon dam)	2017	2.6	-2.5	Net Gain	5.1	-0.7	Net Gain	3.2	Con Aq Leak	36%	Ag/Irr	89%
98	02040202050	Rancocas Creek SB (above Bobbys Run)	2014	3.6	3.2	88%	0.4	9.2	254%	0.0	Ag/Irr	79%	Ag/Irr	100%
100	02040202060	Rancocas Creek SB SW Branch	2016	3.5	0.9	26%	2.6	1.8	51%	1.7	Con Aq Leak	61%	Non-Ag Irr	15%
95	02040202070	Rancocas Creek SB (below Bobbys Run)	2015	0.7	0.6	81%	0.1	0.9	126%	0.0	Con Aq Leak	76%	Potable	100%
88	02040202080	Rancocas Creek	2016	1.1	-7.2	Net Gain	8.2	-7.3	Net Gain	8.3	Con Aq Leak	100%	Potable	53%

Table 19.C Summary of HUC11 Withdrawals in Millions of Gallons per Day (mgd)

			Public Supply		Domestic	Com/Ind/Min		Ag/Irr		Non-Ag Irr		Power Gen		Combined				RSW Withdrawals
DEP Value	HUC11	HUC11 Name	UnGW	Non-RSW SW	UnGW	UnGW	SW	UnGW	SW	UnGW	SW	UnGW	SW	SFD Adj UnGW	SW	Leakage	Total	
93	02040202020	Rancocas Creek NB (above New Lisbon dam)	0.0	0.9	0.2	0.0	0.0	0.0	1.3	0.0	0.0	0.0	0.0	0.2	2.2	0.3	2.6	0.0
97	02040202030	Greenwood Branch (NB Rancocas Creek)	0.1	0.0	0.6	0.0	5.5	0.0	1.3	0.0	0.0	0.0	0.0	0.7	6.9	0.0	7.5	0.0
92	02040202040	Rancocas Creek NB (below New Lisbon dam)	0.0	0.0	0.4	0.0	0.0	0.1	0.9	0.0	0.0	0.0	0.0	0.4	0.9	0.9	2.3	0.0
98	02040202050	Rancocas Creek SB (above Bobbys Run)	0.1	0.0	0.5	0.0	0.1	0.7	3.4	0.0	0.0	0.0	0.0	1.1	3.5	0.4	5.0	0.0
100	02040202060	Rancocas Creek SB SW Branch	0.0	0.1	1.9	0.0	0.0	0.8	0.5	0.0	0.4	0.0	0.0	2.5	0.9	2.1	5.6	0.0
95	02040202070	Rancocas Creek SB (below Bobbys Run)	0.0	0.0	0.1	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.1	0.1	0.6	0.7	0.0
88	02040202080	Rancocas Creek	0.0	0.0	0.2	0.1	0.0	0.2	0.0	0.0	0.2	0.0	0.0	0.5	0.2	1.3	2.0	0.0

Table 19.D Summary of HUC11 Discharges in Millions of Gallons per Day (mgd)

			Sanitary Sewer			Domestic Septic	Com/Ind/Min		Ag/Irr		Non-Ag Irr		Power Gen		Combined		
DEP Value	HUC11	HUC11 Name	UnGW	SW Fresh	SW Saline		UnGW	SW	UnGW	SW	UnGW	SW	UnGW	SW	UnGW	SW	Total
93	02040202020	Rancocas Creek NB (above New Lisbon dam)	0.0	0.0	0.0	0.1	0.0	0.0	0.0	1.3	0.0	0.0	0.0	0.0	0.1	1.3	1.4
97	02040202030	Greenwood Branch (NB Rancocas Creek)	0.0	0.0	0.0	0.4	0.0	5.1	0.0	1.3	0.0	0.0	0.0	0.0	0.4	6.4	6.8
92	02040202040	Rancocas Creek NB (below New Lisbon dam)	0.0	4.3	0.0	0.3	0.0	0.0	0.1	0.1	0.0	0.0	0.0	0.0	0.3	4.4	4.8
98	02040202050	Rancocas Creek SB (above Bobbys Run)	0.1	0.3	0.0	0.3	0.0	0.1	0.2	1.0	0.0	0.0	0.0	0.0	0.6	1.3	1.9
100	02040202060	Rancocas Creek SB SW Branch	0.0	3.0	0.0	1.4	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	1.6	3.1	4.7
95	02040202070	Rancocas Creek SB (below Bobbys Run)	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.1
88	02040202080	Rancocas Creek	0.0	8.8	0.0	0.2	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	8.8	9.2

Notes (applicability may vary by WMA)

1. There are some watersheds upstream of WMA where depletive and consumptive uses are occurring, but this analysis does not account for out of state water use.
2. New or increased diversions within HUC11s located completely or partially within the Highlands will be addressed on a case-by-case basis in cooperation with the Highlands Council.
3. New or increased diversions upstream of potable supply reservoirs or intakes must quantify and offset any reduction to the system's safe yield.
4. The HUC11 LFM method available water exceeds 50% of the 7Q10. Additional availability analysis required.
5. Peak Year With. represents the final year of the 3-year period with the highest average withdrawals.

WATERSHED MANAGEMENT AREA 20 - ASSISCUNK, CROSSWICKS, AND DOCTORS

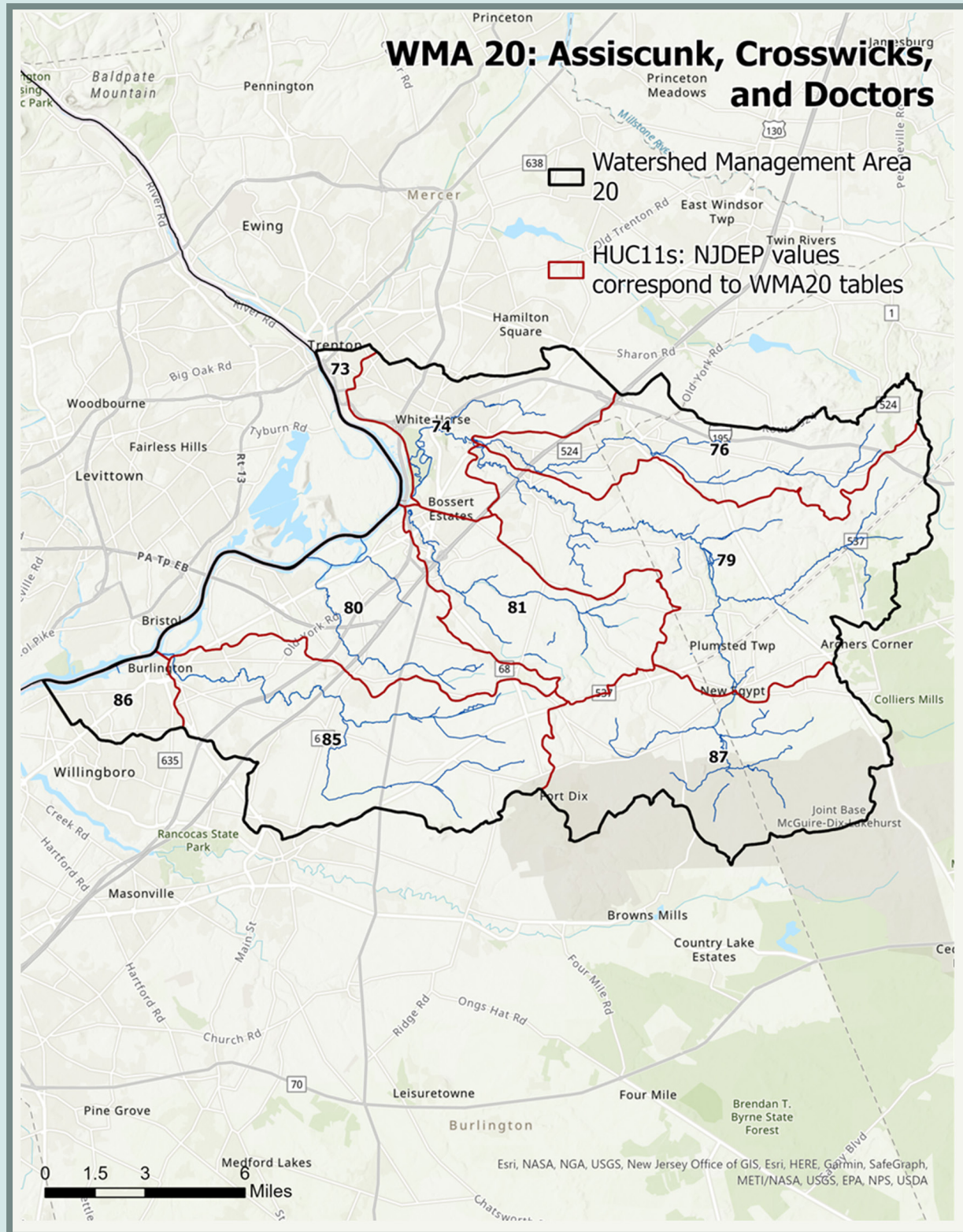


Table 20.A Summary of HUC11 Area, Low Flow Margin, and Water Availability Considerations

DEP Value	HUC11	HUC11 Name	HUC11 Area (mi ²)	Watershed Area (mi ²)	September Median Flow (mgd)	7Q10 (mgd)	LFM Percentage	LFM (mgd)	NJ Highlands ²	Major SW Potable Supply ³	Potentially 7Q10 Limited ⁴	Lim. Avail. HUC Upstream	In a Stressed WMA	Number of Stressed 3-Yr Periods	Has Saline Discharge
73	02040201030	Duck Creek and UDRV to Assunpink Ck	3.3	2.7	0.3	0.1	25%	0.2						0	
87	02040201040	Crosswicks Ck (above New Egypt)	41.2	41.2	17.8	8.1	25%	9.7						0	
79	02040201050	Crosswicks Ck (Doctors Ck to New Egypt)	57.0	98.2	21.1	9.2	25%	11.9						0	
76	02040201060	Doctors Creek	25.9	25.9	7.4	2.2	25%	5.1			Yes			0	
74	02040201070	Crosswicks Ck (below Doctors Creek)	20.1	144.2	3.6	1.2	25%	2.4						0	
81	02040201080	Blacks Creek	23.4	23.4	5.8	2.0	25%	3.8						0	
80	02040201090	Crafts Creek	28.9	25.9	2.6	0.6	25%	2.1			Yes			0	
85	02040201100	Assiscunk Creek	45.9	45.9	5.1	1.5	25%	3.6			Yes			0	
86	02040201110	Burlington/ Edgewater Park Delaware tribs	7.2	6.6	1.4	0.5	25%	0.8						0	

Table 20.B Summary of HUC11 Remaining Available Water and Full Allocation

					Current			Full Allocation (F.A.)			Largest Dep-Con Loss			
DEP Value	HUC11	HUC11 Name	Peak Year With. ⁵	Available Water (mgd)	Net Dep-Con (mgd)	% Available Used	Remaining Available Water (mgd)	Net Dep-Con (mgd)	% Available Used	Remaining Available Water (mgd)	Largest Loss Current Use	Largest Loss % Available Water (Current)	Largest Loss F.A. Use	Largest Loss % Available Water (F.A.)
73	02040201030	Duck Creek and UDRV to Assunpink Ck	2017	0.1	-9.7	Net Gain	9.8	0.0	1%	0.1	Minimal Loss	0%	Potable	N/A
87	02040201040	Crosswicks Ck (above New Egypt)	2017	2.4	1.2	52%	1.2	1.6	65%	0.9	Con Aq Leak	35%	Potable	20%
79	02040201050	Crosswicks Ck (Doctors Ck to New Egypt)	2016	3.0	1.9	63%	1.1	10.0	336%	0.0	Ag/Irr	41%	Ag/Irr	100%
76	02040201060	Doctors Creek	2020	1.3	0.6	44%	0.7	3.8	293%	0.0	Con Aq Leak	33%	Ag/Irr	100%
74	02040201070	Crosswicks Ck (below Doctors Creek)	2018	0.6	-4.7	Net Gain	5.3	-3.3	Net Gain	3.9	Con Aq Leak	63%	Potable	72%
81	02040201080	Blacks Creek	2017	0.9	0.0	5%	0.9	4.3	458%	0.0	Ag/Irr	90%	Ag/Irr	100%
80	02040201090	Crafts Creek	2020	0.5	-0.2	Net Gain	0.7	-0.5	Net Gain	1.0	Con Aq Leak	96%	Potable	37%
85	02040201100	Assiscunk Creek	2016	0.9	0.9	98%	0.0	1.7	194%	0.0	Con Aq Leak	58%	Ag/Irr	100%
86	02040201110	Burlington/ Edgewater Park Delaware tribs	2020	0.2	-2.3	Net Gain	2.5	-2.9	Net Gain	3.1	Con Aq Leak	26%	Potable	100%

Table 20.C Summary of HUC11 Withdrawals in Millions of Gallons per Day (mgd)

			Public Supply		Domestic	Com/Ind/Min		Ag/Irr		Non-Ag Irr		Power Gen		Combined				RSW Withdrawals
DEP Value	HUC11	HUC11 Name	UnGW	Non-RSW SW	UnGW	UnGW	SW	UnGW	SW	UnGW	SW	UnGW	SW	SFD Adj UnGW	SW	Leakage	Total	
73	02040201030	Duck Creek and UDRV to Assunpink Ck	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87	02040201040	Crosswicks Ck (above New Egypt)	0.0	0.0	0.4	0.0	0.3	0.0	0.5	0.0	0.0	0.0	0.0	0.4	0.7	0.8	2.0	0.0
79	02040201050	Crosswicks Ck (Doctors Ck to New Egypt)	0.0	0.0	1.1	0.0	0.0	0.5	1.0	0.0	0.2	0.0	0.0	1.4	1.1	1.0	3.6	0.0
76	02040201060	Doctors Creek	0.0	0.0	0.2	0.0	0.0	0.1	0.3	0.0	0.0	0.0	0.0	0.2	0.3	0.4	0.9	0.0
74	02040201070	Crosswicks Ck (below Doctors Creek)	1.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.8	0.0	0.4	2.1	0.0
81	02040201080	Blacks Creek	0.0	0.0	0.7	0.0	0.0	0.1	0.9	0.0	0.0	0.0	0.0	0.7	1.0	0.2	1.9	0.0
80	02040201090	Crafts Creek	0.8	0.0	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.2	0.0	0.5	1.7	0.0
85	02040201100	Assiscunk Creek	0.0	0.0	0.4	0.0	0.0	0.2	0.2	0.0	0.1	0.0	0.0	0.6	0.3	0.5	1.4	0.0
86	02040201110	Burlington/ Edgewater Park Delaware tribs	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	0.0	0.1	1.0	0.0

Table 20.D Summary of HUC11 Discharges in Millions of Gallons per Day (mgd)

			Sanitary Sewer			Domestic Septic	Com/Ind/Min		Ag/Irr		Non-Ag Irr		Power Gen		Combined		
DEP Value	HUC11	HUC11 Name	UnGW	SW Fresh	SW Saline		UnGW	SW	UnGW	SW	UnGW	SW	UnGW	SW	UnGW	SW	Total
73	02040201030	Duck Creek and UDRV to Assunpink Ck	0.0	9.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	9.7	9.7
87	02040201040	Crosswicks Ck (above New Egypt)	0.0	0.1	0.0	0.3	0.0	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.4	0.8
79	02040201050	Crosswicks Ck (Doctors Ck to New Egypt)	0.0	0.7	0.0	0.8	0.0	0.0	0.1	0.1	0.0	0.0	0.0	0.0	0.9	0.8	1.7
76	02040201060	Doctors Creek	0.0	0.1	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.2	0.4
74	02040201070	Crosswicks Ck (below Doctors Creek)	0.0	6.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.8	6.9
81	02040201080	Blacks Creek	0.0	1.1	0.0	0.5	0.0	0.0	0.1	0.1	0.0	0.0	0.0	0.0	0.6	1.2	1.8
80	02040201090	Crafts Creek	0.0	1.3	0.0	0.4	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6	1.3	1.9
85	02040201100	Assiscunk Creek	0.0	0.2	0.0	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.2	0.5
86	02040201110	Burlington/ Edgewater Park Delaware tribs	0.0	3.2	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	3.2	3.3

Notes (applicability may vary by WMA)

1. There are some watersheds upstream of WMA where depletive and consumptive uses are occurring, but this analysis does not account for out of state water use.
2. New or increased diversions within HUC11s located completely or partially within the Highlands will be addressed on a case-by-case basis in cooperation with the Highlands Council.
3. New or increased diversions upstream of potable supply reservoirs or intakes must quantify and offset any reduction to the system's safe yield.
4. The HUC11 LFM method available water exceeds 50% of the 7Q10. Additional availability analysis required.
5. Peak Year With. represents the final year of the 3-year period with the highest average withdrawals.