

Round 7.0 Updates (12/12/05, BPTC Draft)

TABLE 7 - BPSA Annual Average Flow Projections (MGD) - Unadjusted ⁽¹⁾

Jurisdiction/Agency	Calculated Base Year 2000 ⁽²⁾	Year 2005	Year 2010	Year 2015	Year 2020	Year 2025	Year 2030	IMA or other ALLOCATIONS ⁽³⁾
DISTRICT OF COLUMBIA	160.45	161.85	166.95	172.61	176.33	180.94	184.13	148.00
PI RESERVE (excludes LCSA flows)	0	0	0	0	0	0	0	4.50
OTHER PI USERS (Dulles Airport, National Park Service, Naval Ship R&D, Town of Vienna) ⁽⁴⁾	1.87	2.10	2.32	2.63	2.89	3.21	3.47	3.10
DISTRICT OF COLUMBIA - TOTAL	162.32	163.95	169.27	175.24	179.22	184.15	187.60	155.60
LCSA (PI Reserve share)	0	3.55	7.27	10.44	12.93	15.06	17.09	5.00
LCSA (Other PI Users share)	7.85	8.80	8.80	8.80	8.80	8.80	8.80	8.80
LCSA - TOTAL	7.85	12.35	16.07	19.24	21.73	23.86	25.89	13.80
MONTGOMERY CO. (non-Seneca basins)	75.01	79.44	84.37	88.19	91.74	95.11	98.50	N/A
MONTGOMERY CO. (Seneca basin flows directed to Blue Plains) ⁽⁵⁾	11.50	18.10	19.93	21.83	23.51	25.00	26.27	N/A
MONTGOMERY CO. Subtotal	86.51	79.44	84.37	88.19	91.74	95.11	98.50	N/A
PRINCE GEORGE'S CO.	43.62	45.32	47.09	49.42	51.80	54.20	57.03	N/A
WSSC - TOTAL	130.13	124.76	131.46	137.61	143.54	149.31	155.53	169.60
FAIRFAX CO. (w/ portion of Arlington Co.) - TOTAL	26.69	29.36	32.58	36.40	38.87	40.26	41.52	31.00
Blue Plains Grand Total	326.99	330.42	349.38	368.49	383.36	397.58	410.54	370.00

Legend: Yellow/gold color-coded data indicates flows exceeding either formal IMA capacity allocations or other agreed upon allocations.

Notes:

(1) "Unadjusted" flows reflect baseline flow projections (i.e., Round 6.3 & Census 2000 data), while "Adjusted" flows reflect the impact of diverting and/or increased flow demands from various projected flow management plans and schedules. All projections are for annual average flows and assume average hydrologic conditions.

(2) Calculated Base Year 2000 – Regression-based flow figures based on average hydrologic conditions, not actual Year 2000 flows. Only adjustment was to reflect the 5 MGD diversion to the original Seneca WWTP.

(3) IMA or other allocations - presents IMA allocations as modified by reallocation of 5 MGD of the PI Reserve to LCSA for Loudoun County, and shows other agreed-upon sub-allocations not codified within the IMA itself.

(4) Other PI Users' Sub-allocations include: Dulles Airport – 1.5 MGD, Town of Vienna – 1.5 MGD, Navy Ship R&D – 0.07 MGD, and Nat. Park Service – 0.03 MGD.

(5) Seneca basin - Projections reflect the impact of diverting all flows from the Seneca basin, as the basin will become a separate service area and completely independent of the BPSA by Year 2005 (December).

Current Seneca plant capacity is 20 MGD; future planned capacity is 26 MGD.

Round 7.0 Updates (12/12/05, BPTC Draft)

Table 8 - BPSA Annual Average Flow Projections (MGD) - Adjusted ⁽¹⁾

Jurisdiction/Agency	Calculated Base Year 2000 ⁽²⁾	Year 2005	Year 2010	Year 2015	Year 2020	Year 2025	Year 2030	IMA or other ALLOCATIONS ⁽³⁾
DISTRICT OF COLUMBIA	160.45	161.85	161.45	156.11	159.83	169.61	172.80	148.00
PI RESERVE (excludes LCSA flows)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	4.50
OTHER PI USERS (Dulles Airport, National Park Service, Naval Ship R&D, Town of Vienna) ⁽⁴⁾	1.87	2.10	2.32	2.63	2.89	3.21	3.47	3.10
DISTRICT OF COLUMBIA – TOTAL	162.32	163.95	163.77	158.74	162.72	172.82	176.27	155.60
LCSA (PI Reserve share)	0.00	3.55	5.00	5.00	5.00	5.00	5.00	5.00
LCSA (Other PI Users share)	7.85	8.80	8.80	8.80	8.80	8.80	8.80	8.80
LCSA – TOTAL	7.85	12.35	13.80	13.80	13.80	13.80	13.80	13.80
MONTGOMERY CO. (non-Seneca basins)	75.01	79.44	84.37	88.19	91.74	95.11	98.50	N/A
MONTGOMERY CO. (Seneca basin flows directed to Blue Plains) ⁽⁵⁾	11.50	0.00	0.00	0.00	0.00	0.00	0.00	N/A
MONTGOMERY CO. Subtotal	86.51	79.44	84.37	88.19	91.74	95.11	98.50	N/A
PRINCE GEORGE'S CO.	43.62	45.32	47.09	49.42	51.80	54.20	57.03	N/A
WSSC - TOTAL	130.13	124.76	131.46	137.61	143.54	149.31	155.53	169.60
FAIRFAX CO. (w/ portion of Arlington Co.) - TOTAL	26.69	29.36	31.00	31.00	31.00	31.00	31.00	31.00
Blue Plains Grand Total (w/ adjustments made for all flow management actions)	326.99	330.42	340.03	341.15	351.06	366.93	376.60	370.00

Legend: Yellow/gold color-coded data indicates flows exceeding either formal IMA capacity allocations or other agreed upon allocations.

Notes:

(1) "Unadjusted" flows reflect baseline flow projections (i.e., Round 6.3 & Census 2000 data), while "Adjusted" flows reflect the impact of diverting and/or increased flow demands from various projected flow management plans and schedules. All projections are for annual average flows and assume average hydrologic conditions.

(2) Calculated Base Year 2000 – Regression-based flow figures based on average hydrologic conditions, not actual Year 2000 flows. Only adjustment was to reflect the 5 MGD diversion to the original Seneca WWTP.

(3) IMA or other allocations - presents IMA allocations as modified by reallocation of 5 MGD of the PI Reserve to LCSA for Loudoun County, and shows other agreed-upon sub-allocations not codified within the IMA itself.

(4) Other PI Users' Sub-allocations include: Dulles Airport – 1.5 MGD, Town of Vienna – 1.5 MGD, Navy Ship R&D – 0.07 MGD, and Nat. Park Service – 0.03 MGD.

(5) Seneca basin - Projections reflect the impact of diverting all flows from the Seneca basin, as the basin will become a separate service area and completely independent of the BPSA by Year 2005 (December).

Current Seneca plant capacity is 20 MGD; future planned capacity is 26 MGD.

Table 9 - Future Adjustments to BPSA Flows (MGD)

Jurisdiction/Agency and Flow Management Plans/Timing	Year 2005	Year 2010	Year 2015	Year 2020	Year 2025	Year 2030
DC-WASA Wastewater Reduction Program [9 MGD reduction by 2007]	0.00	-9.00	-9.00	-9.00	-9.00	-9.00
DC-WASA Water Conservation Program [6 MGD reduction by 2012]	0.00	0.00	-6.00	-6.00	-6.00	-6.00
DC-WASA Sewer System Assessment Program [5 MGD reduction by 2015]	0.00	0.00	-5.00	-5.00	-5.00	-5.00
DC-WASA Reductions - Subtotal	0.00	-9.00	-20.00	-20.00	-20.00	-20.00
DC-WASA CSS LTCP Impacts (per submitted final plan)						
[Phase I - additional 3.5 MGD demand by 2010; Complete plan - additional 5.17 MGD demand by 2022; With Total demand of 8.67 MGD]	0.00	3.50	3.50	3.50	8.67	8.67
DISTRICT OF COLUMBIA (DC-WASA TOTAL)	0.00	-5.50	-16.50	-16.50	-11.33	-11.33
LCSA - TOTAL						
[LCSA'S 10 MGD Broad Run plant on-line by 2008; flows over 13.8 MGD diverted to Broad Run; 1st expansion by 2018 if required]	0.00	-2.27	-5.44	-7.93	-10.06	-12.09
FAIRFAX CO. - TOTAL						
[Divert combined flows of over 31.00 MGD to either Noman Cole or Broad Run plants]	0.00	-1.58	-5.40	-7.87	-9.26	-10.52
Grand Total BPSA Future Flow Adjustments	0.00	-9.35	-27.34	-32.30	-30.65	-33.94

Note: * Calculated Base Year 2000 – Regression-based flow figures based on average hydrologic conditions, not actual Year 2000 flows. Only adjustment was to reflect the 5 MGD diversion to the original Seneca WWTP.

Note: For long-term planning purposes, the impacts of any flow management actions are reflected only at the five-year flow projection intervals. In several cases the actual timing of the impacts (i.e., additions/diversions) will require that management actions be implemented between the five-year intervals