

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

TABLE 7 - BPSA Annual Average Flow Projections (MGD) - Unadjusted <sup>(1)</sup>

Jurisdiction/Agency	Calculated Base Year 2000 <sup>(2)</sup>	Year 2005	Year 2010	Year 2015	Year 2020	Year 2025	Year 2030	IMA or other ALLOCATIONS <sup>(3)</sup>
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) <sup>(4)</sup>	1.87	2.10	2.32	2.63	2.89	3.21	3.47	3.10
<b>DISTRICT OF COLUMBIA - TOTAL</b>	<b>162.32</b>	<b>163.95</b>	<b>169.27</b>	<b>175.24</b>	<b>179.22</b>	<b>184.15</b>	<b>187.60</b>	<b>155.60</b>
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
<b>LCSA - TOTAL</b>	<b>7.85</b>	<b>12.35</b>	<b>16.07</b>	<b>19.24</b>	<b>21.73</b>	<b>23.86</b>	<b>25.89</b>	<b>13.80</b>
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) <sup>(5)</sup>	11.50	18.10	19.93	21.83	23.51	25.00	26.27	N/A
<b>MONTGOMERY CO. Subtotal</b>	<b>86.51</b>	<b>79.44</b>	<b>84.37</b>	<b>88.19</b>	<b>91.74</b>	<b>95.11</b>	<b>98.50</b>	<b>N/A</b>
PRINCE GEORGE'S CO.	43.62	45.32	47.09	49.42	51.80	54.20	57.03	N/A
<b>WSSC - TOTAL</b>	<b>130.13</b>	<b>124.76</b>	<b>131.46</b>	<b>137.61</b>	<b>143.54</b>	<b>149.31</b>	<b>155.53</b>	<b>169.60</b>
<b>FAIRFAX CO. (w/ portion of Arlington Co.) - TOTAL</b>	<b>26.69</b>	<b>29.36</b>	<b>32.58</b>	<b>36.40</b>	<b>38.87</b>	<b>40.26</b>	<b>41.52</b>	<b>31.00</b>
<b>Blue Plains Grand Total</b>	<b>326.99</b>	<b>330.42</b>	<b>349.38</b>	<b>368.49</b>	<b>383.36</b>	<b>397.58</b>	<b>410.54</b>	<b>370.00</b>

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.

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Table 8 - BPSA Annual Average Flow Projections (MGD) - Adjusted <sup>(1)</sup>

Jurisdiction/Agency	Calculated Base Year 2000 <sup>(2)</sup>	Year 2005	Year 2010	Year 2015	Year 2020	Year 2025	Year 2030	IMA or other ALLOCATIONS <sup>(3)</sup>
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) <sup>(4)</sup>	1.87	2.10	2.32	2.63	2.89	3.21	3.47	3.10
<b>DISTRICT OF COLUMBIA – TOTAL</b>	<b>162.32</b>	<b>163.95</b>	<b>163.77</b>	<b>158.74</b>	<b>162.72</b>	<b>172.82</b>	<b>176.27</b>	<b>155.60</b>
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
<b>LCSA – TOTAL</b>	<b>7.85</b>	<b>12.35</b>	<b>13.80</b>	<b>13.80</b>	<b>13.80</b>	<b>13.80</b>	<b>13.80</b>	<b>13.80</b>
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) <sup>(5)</sup>	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
<b>WSSC - TOTAL</b>	<b>130.13</b>	<b>124.76</b>	<b>131.46</b>	<b>137.61</b>	<b>143.54</b>	<b>149.31</b>	<b>155.53</b>	<b>169.60</b>
<b>FAIRFAX CO. (w/ portion of Arlington Co.) - TOTAL</b>	<b>26.69</b>	<b>29.36</b>	<b>31.00</b>	<b>31.00</b>	<b>31.00</b>	<b>31.00</b>	<b>31.00</b>	<b>31.00</b>
<b>Blue Plains Grand Total (w/ adjustments made for all flow management actions)</b>	<b>326.99</b>	<b>330.42</b>	<b>340.03</b>	<b>341.15</b>	<b>351.06</b>	<b>366.93</b>	<b>376.60</b>	<b>370.00</b>

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
<b>DC-WASA Reductions - Subtotal</b>	<b>0.00</b>	<b>-9.00</b>	<b>-20.00</b>	<b>-20.00</b>	<b>-20.00</b>	<b>-20.00</b>
<b>DC-WASA CSS LTCP Impacts (per submitted final plan)</b>						
[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
<b>DISTRICT OF COLUMBIA (DC-WASA TOTAL)</b>	<b>0.00</b>	<b>-5.50</b>	<b>-16.50</b>	<b>-16.50</b>	<b>-11.33</b>	<b>-11.33</b>
<b>LCSA - TOTAL</b>						
[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
<b>FAIRFAX CO. - TOTAL</b>						
[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
<b>Grand Total BPSA Future Flow Adjustments</b>	<b>0.00</b>	<b>-9.35</b>	<b>-27.34</b>	<b>-32.30</b>	<b>-30.65</b>	<b>-33.94</b>

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