

Analysis of Alternative Threshold Quantities

Assume:

1. Renewable Water Supply (RWS) for basin 1995 value (74.3 bgd)
2. Consumptive use (CU) in basin 1995 value (1.9 bgd)
3. Assume threshold anything over 1 mgd or 5 mgd.
4. Assume all consumptive use.
5. Assume demand of 100 new withdrawals/yr. Basin-wide then the cumulative potential consumptive withdrawals would be 100 mgd/yr or 0.1 bgd/yr and 0.5 bgd/yr.
6. Assume all is transported outside the basin by whatever means resulting in a like decrease in the RWS.
7. Let the ratio of CU/RWS x 100 serve as a reference value to assess alternative threshold quantities and potential cumulative impact over time.

Potential change* in proportion of consumptive water use in Great Lakes Basin relative to renewable water supply (bgd) at threshold of 1 mgd and 5 mgd.

	1 mgd		
Year	RWS	CU	CU/RWS x 100
0	74.3	1.9	2.5%
10	73.3	2.9	4.0%
50	69.3	6.9	10%

	5 mgd		
0	74.3	1.9	2.5%
10	69.3	6.9	10%
50	49.3	26.9	55%

*Given worse case assumptions.