Shortage Sharing Scenarios - Pro Rata Reductions Based On Priority 4 Entitlements

(Values in Acre-feet)

Year	Priority 1-3 Mainstem Projected Consumptive Use[1]	Available for Priority 4 Diversions - Normal Supply[2]	Priority 4 Mainstem Total Entitlement	Priority 4 Mainstem Shortage Sharing Percentage	Arizona Portion of Lower Basin Shortage[3]	Available for Priority 4 Diversion - Reduced Supply	Priority 4 Mainstem Diversion - Reduced Supply	Projected Priority 4 Mainstem Diversion[1]	Priority 4 Mainstem Diversion - Net Reduction
400,000 Acre-Feet Shortage									
2010	1,171,867	1,556,133	164,652	10.58%	303,640	1,252,493	132,524	155,880	23,355
2016	1,177,135	1,550,865	164,652	10.62%	303,640	1,247,225	132,415	158,961	26,546
2025	1,185,597	1,542,403	164,652	10.68%	303,640	1,238,763	132,238	162,362	30,123
2031	1,191,580	1,536,420	164,652	10.72%	303,640	1,232,780	132,112	163,799	31,687
500,000 Acre-Feet Shortage									
2010	1,171,867	1,556,133	164,652	10.58%	379,550	1,176,583	124,492	155,880	31,387
2016	1,177,135	1,550,865	164,652	10.62%	379,550	1,171,315	124,356	158,961	34,605
2025	1,185,597	1,542,403	164,652	10.68%	379,550	1,162,853	124,135	162,362	38,227
2031	1,191,580	1,536,420	164,652	10.72%	379,550	1,156,870	123,977	163,799	39,822
600,000 Acre-Feet Shortage									
2010	1,171,867	1,556,133	164,652	10.58%	455,460	1,100,673	116,460	155,880	39,419
2016	1,177,135	1,550,865	164,652	10.62%	455,460	1,095,405	116,297	158,961	42,664
2025	1,185,597	1,542,403	164,652	10.68%	455,460	1,086,943	116,031	162,362	46,330
2031	1,191,580	1,536,420	164,652	10.72%	455,460	1,080,960	115,842	163,799	47,957

ENDNOTES

[1] Source: Arizona Department of Water Resources 2003 mainstem Colorado River water use projections.

[2] An amount of 72,000 acre-feet has also been deducted to account for higher priority Ak-Chin and Salt River Pima-Maricopa Indian settlement water.

[3] This is the amount of shortage after Mexico's (16.7%) and Nevada's (7.42%) shortage volumes are deducted.

PRIORITY 4 SHORTAGE SHARING ANALYSIS
Summary of Shortages to Priority 4 Mainstem Uses - Reduction in Diversions

Option	400,000 Acre-feet Shortage	500,000 Acre-feet Shortage	600,000 Acre-feet Shortage
COMPARISON OF SHORTAGE VOLUMES FOR SHORTAGES STARTING 2010			
Pro-Rata Reduction Based On Diversion	23,355	31,387	39,419
COMPARISON OF SHORTAGE VOLUMES FOR SHORTAGES STARTING 2031			
Pro-Rata Reduction Based On Diversion	31,687	39,822	47,957