Table 18-2. Estimated Water Use, Savings, and Return Flow Assuming High Level of Conservation for the Middle Rio Grande Planning Region

Category	Regional Estimates (acre-feet) [a]						
	Total	Residential Indoor	Residential Outdoor	Commercial	Industrial	Institu-tional	UAW
2000 (Population = 725,000)							
Water use [b]	158,890	47,667	31,778	41,311	3,178	17,478	17,478
Return flow [c]	87,215	46,714	636	23,134	2,701	4,544	1,049
2010 Low Projection (Population= 830,000) [d]							
Water use [e]	146,432	43,930	29,286	38,072	2,929	16,108	16,108
Water savings [e]	148,697	44,609	29,739	38,661	2,974	16,357	16,357
Return flow [c]	64,070	30,710	811	21,238	6,970	3,427	914
2010 "High Projection (Population = 892,000) [d]							
Water use [e]	156,475	46,943	31,295	40,684	3,130	17,212	17,212
Water savings [e]	195,413	58,624	39,083	50,807	3,908	21,495	21,495
Return flow [c]	77,580	46,004	626	22,783	2,660	4,475	1,033
2020 Low Projection (Population = 940,000) [d]							
Water use [e]	139,507	41,852	27,901	36,272	2,790	15,346	15,346
Water savings [e]	109,390	32,817	21,878	28,441	2,188	12,033	12,033
Return flow [c]	69,168	41,015	558	20,312	2,372	3,990	921
2020 High Projection (Population = 1,005,000) [d]							
Water use [e]	156,173	46,852	31,235	40,605	3,123	17,179	17,179
Water savings [e]	120,284	36,085	24,057	31,274	2,406	13,231	13,231
Return flow [c]	77,431	45,915	625	22,739	2,655	4,467	1,031
2050 Low Projection (Population = 1,150,000) [d]							
Water use [e]	154,331	46,299	30,866	40,126	3,087	16,976	16,976
Water savings [e]	238,351	71,505	47,670	61,971	4,767	26,219	26,219
Return flow [c]	76,517	45,373	617	22,471	2,624	4,414	1,019
2050 High Projection (Population = 1,500,000) [d]							
Water use [e]	200,263	60,079	40,053	52,068	4,005	22,029	22,029
Water savings [e]	292,211	87,663	58,442	75,975	5,844	32,143	32,143
Return flow [c]	99,290	58,877	801	29,158	3,404	5,728	1,322

[a]   Based on gallons per capita per day (gpcd) rates provided in Table 18-1

[b]   Distribution of water use by end-use category is based upon the following data:
        Wilson, 2002c (Table 4: Summary of water use in acre-feet, in New Mexico counties, 2000)
        City of Albuquerque, 2000
        Witherspoon, 2001
        Rio Rancho, 2000
        Skeie-Campbell, 2002

[c]   Return flow is based on historical rates provided by John Shomaker & Associates, Inc., 2000 (Tables 21 and 29). The return flow rates used in this table assume a constant return rate by category of use: Residential Indoor = 98%, Residential Outdoor = 2%, Commercial = 56%, Industrial = 85%, Institutional = 26% and UAW = 6%.

[d]   Population projections based on MRGCOG, 2000.

[e]   Projected water use and savings (calculated using a baseline of 2000) results were computed using the Sandia National Laboratories Water Model computer model by Vince Tidwell and Howard Passel, November 15, 2002.

UAW = Unaccounted-for water