

**Cache County Water Master Plan
Addendum #1
Updated Municipal and Industrial Water Supply Shortage Projections
November 13, 2014**

The following report section (4.2.7) is added to the Cache County Water Master in order to provide an updated and more in depth evaluation of the future municipal and industrial (M&I) water supply shortages that are projected for Cache County. This addendum is added to the master plan because:

- The Utah Division of Water Resources (DWRe) has made updates to the water supply and demand projections since the original report was written. The supply and demand numbers have not changed greatly, but DWRe and the County have changed how they are reported by summing the deficit (shortage) in each community in Cache County in each evaluated year. The total water deficit takes into account the geographic and municipal boundaries that may limit the water supply moving from one end of the county to the other.
- Bear River development plans require a more detailed understanding of the future M&I water needs in Cache County.
- The original master plan only included projections through year 2060. An estimate of the projected build out water demands provides added understanding of the future water needs.

4.2.7 Future M&I Water Shortage Evaluation

DWRe has prepared updated water supply and demand projections for all of the Utah water systems in the Bear River Basin. These projections are included in the attached tables for years 2010, 2020, 2025, 2030, 2040, 2050 and 2060. The projections in the tables are based on the assumption that the state per capita water conservation goal of 25% will be reached by the year 2025 in Cache County.

The updated projections have been used to estimate when Cache County will have annual supply shortages. Water improvement projects need to be started long before annual water shortages occur in a water system. This is true because water demands vary during any given year. Even though a system may have enough reliable water supply for a year, it may not have enough reliable water supply during high water use days. In addition, water supply projects require a great deal of planning and preparation time prior to construction. Because of these facts, a table has been created to identify M&I water supply shortages based on projected demands that are greater than 75% of the current annual reliable supply.

The DWRe has factored the annual water supplies based on input from system operators. It is based on how often they use their wells and variations in flows from springs. These factors help account for seasonal supply variations. Water systems also need to provide enough supply for peak days during the summer months. The specific value of 75% used to factor the current annual reliable supply was chosen based on past evaluations of daily summertime flow records that J-U-B ENGINEERS Inc. has completed for municipal water systems.

As mentioned above, water development projects take time to plan, permit and construct. Water source improvement projects can take five to ten years to complete. In Cache County, the total water demands are projected to increase by 18% between year 2050 and year 2060. The 75% factor on the annual reliable supply will also help in this regard as water system managers need time to make source improvements or to improve water conservation.

Table 4.3.A identifies and quantifies system supply shortages at years 2010, 2025, 2040, and 2060. The shortages are shown in red for each system. The numbers in the table are based on the assumption that the 25% water conservation goal will be reached by year 2025 and on utilization of 75% of the existing annual reliable supply.

Table 4.3.A: Projected Water Shortages

CACHE COUNTY -PROJECTED MUNICIPAL AND INDUSTRIAL (M&I) WATER SHORTAGES (Assuming State Per Capita Conservation Goal of 25% is Reached by Year 2025 in Cache County)										
City	SUPPLY		2010 DEMANDS		2025 DEMANDS		2040 DEMANDS		2060 DEMANDS	
	Existing Supply (ac-ft)	75% of Existing Supply (ac-ft)	M&I Demand (ac-ft)	Water Surplus Based on 75% of Existing Supply (ac-ft)	M&I Demand (ac-ft)	Water Surplus Based on 75% of Existing Supply (ac-ft)	M&I Demand (ac-ft)	Water Surplus Based on 75% of Existing Supply (ac-ft)	M&I Demand (ac-ft)	Water Surplus Based on 75% of Existing Supply (ac-ft)
Amalga	691	518	666	-148	662	-144	714	-196	1,286	-768
Benson	398	298	219	79	533	-235	979	-681	1,857	-1,559
Clarkston	1,132	849	293	555	256	592	329	519	456	392
Cornish	186	140	136	3	122	18	135	4	192	-53
Goaslind Spring	406	305	18	286	11	293	11	293	11	293
High Creek	68	51	51	0	43	8	44	7	43	8
Hyde Park	1,757	1,318	1,052	266	1,133	184	1,543	-225	1,720	-402
Hyrum	7,782	5,837	5,678	158	5,866	-30	7,396	-1,559	10,930	-5,094
Lewiston	1,708	1,281	807	473	742	539	963	318	1,434	-154
Logan	18,472	13,854	10,777	3,077	10,826	3,028	13,803	51	19,986	-6,132
Mendon	546	409	361	48	368	41	479	-70	616	-207
Millville	879	659	498	162	536	123	665	-6	1,045	-386
Newton	433	325	406	-81	297	28	349	-25	486	-161
Nibley	2,799	2,099	1,136	964	1,829	270	2,521	-422	3,494	-1,395
North Logan	1,962	1,472	1,670	-198	2,177	-706	2,752	-1,281	3,584	-2,113
Paradise	787	590	401	189	321	269	405	185	586	4
Providence	4,176	3,132	2,169	962	2,701	430	3,597	-465	4,971	-1,839
Richmond	1,688	1,266	1,000	266	882	384	1,019	247	1,580	-314
River Heights	2,133	1,599	550	1,049	565	1,034	607	993	803	797
Smithfield	7,381	5,536	3,090	2,446	3,064	2,472	4,133	1,403	4,785	750
South Cove	219	164	29	135	17	148	17	148	17	148
Trenton	273	205	213	-8	220	-15	283	-78	392	-187
Wellsville	5,750	4,313	1,493	2,819	1,718	2,595	2,195	2,117	3,153	1,160
			Total Shortage	-436	Total Shortage	-1,129	Total Shortage	-5,008	Total Shortage	-20,761
Note: Negative red values indicate water supply shortages based on the communities that will have demands greater than 75% of the current annual reliable supply.										

Cache County will continue to develop after year 2060 and will require more M&I water supply. In the Bear River Pipeline Concept Report Volume I prepared by Bowen Collins & Associates Inc., an ultimate M&I water demand estimate for Cache County is provided based on developable area. Two estimates are given, one based on a lower potential development density and one for a higher development density. The estimates are shown below in Table 4.3.B as given in Part 2 of the Bear River Pipeline Report Appendix.

Table 4.3.B: Ultimate M&I Water Demand

Projected M&I Water Demand for Cache County at Ultimate Development	
Demand Range	Water Demand (acre-ft/yr)
¹ Lower Density	302,000
² Higher Density	423,000
¹ 2.0 acre/ft per gross developable acre	
² 2.8 acre/ft per gross developable acre	

(Bowen, Collins & Associates, 2014)

Cache County will need water from new sources prior to ultimate build out. The current total reliable M&I water supply in the County as estimated by DWRe is 61,623 acre feet per year. Based on the evaluation of historic annual agricultural irrigation water diversions in Section 3.3.2 of this report, approximately 200,000 acre-feet of water is currently diverted for irrigation purposes. A future M&I supply of approximately 260,000 acre-feet could be available if all of the agricultural irrigation water was converted for M&I use. Approximately 40,000 to 163,000 acre feet of additional water will be needed for ultimate M&I build out.

GPCD Projections and Use to 2060

Model run as of 11/12/14 and is subject to change

System	2010										
	Potable Use	Potable GPCD	Secondary Use	Secondary GPCD	Total Use (ac-ft)	Total GPCD	Population	Potable Supply	Secondary Supply	Total Reliable Supply	Deficit
Cache County											
Amalga Town Culinary Water System	661	1,114	5	8	666	1,122	530	686	5	691	25
Benson Water Culinary District	169	202	50	60	219	261	750	348	50	398	178
Clarkston Town Culinary Water	211	235	83	92	293	327	800	1,049	83	1,132	838
Cornish Town Water	92	284	44	135	136	420	290	142	44	186	50
Goaslind Spring Water Works Co.	6	91	12	179	18	269	60	394	12	406	388
High Creek Culinary Water System	49	336	2	14	51	350	130	66	2	68	17
Hyde Park City	712	166	340	79	1,052	245	3,830	1,417	340	1,757	706
Hyrum City	4,278	506	1,400	166	5,678	671	7,550	6,382	1,400	7,782	2,104
Lewiston City	711	359	96	48	807	407	1,770	1,612	96	1,708	900
Logan City	8,957	167	1,820	34	10,777	200	48,000	16,652	1,820	18,472	7,695
Mendon City Culinary Water System	171	109	190	121	361	230	1,400	356	190	546	184
Millville City Water	444	208	54	25	498	234	1,900	825	54	879	382
Newton Town Water	219	244	187	209	406	453	800	246	187	433	27
Nibley City	836	138	300	50	1,136	188	5,400	2,499	300	2,799	1,663
North Logan Water	1,435	155	235	25	1,670	181	8,250	1,727	235	1,962	292
Paradise Town	111	110	290	288	401	397	900	497	290	787	386
Providence Town Water System	2,069	264	100	13	2,169	277	7,000	4,076	100	4,176	2,006
Richmond City Corp.	700	253	300	108	1,000	361	2,470	1,388	300	1,688	688
River Heights City	516	239	34	16	550	254	1,930	2,099	34	2,133	1,582
Smithfield City	1,685	157	1,405	131	3,090	287	9,600	5,976	1,405	7,381	4,291
South Cove Water Works Co., Inc.	7	88	22	281	29	369	70	197	22	219	190
Trenton Town Corp. Water	165	295	48	86	213	381	500	225	48	273	60
Wellsville City Corp.	1,473	387	20	5	1,493	392	3,400	5,730	20	5,750	4,257
Cache Total	25,677	214	7,037	59	32,713	272	107,330	54,586	7,037	61,623	0

GPCD Projections and Use to 2060

System	2020											
	Potable Use	Potable GPCD	Secondary Use	Secondary GPCD	Total Use (ac-ft)	Total GPCD	Population	Potable Supply	Secondary Supply	New Supply	Total Reliable Supply	Deficit
Cache County												
Amalga Town Culinary Water System	650	989	3	4	653	994	587	686	5	0	691	38
Benson Water Culinary District	333	179	56	30	389	209	1,659	348	50	0	398	8
Clarkston Town Culinary Water	196	209	44	47	239	255	836	1,049	83	0	1,132	892
Cornish Town Water	94	252	26	69	120	321	334	142	44	0	186	66
Goaslind Spring Water Works Co.	5	81	6	90	11	171	60	394	12	0	406	395
High Creek Culinary Water System	43	298	1	7	44	305	130	66	2	0	68	24
Hyde Park City	813	147	221	40	1,034	187	4,926	1,417	340	0	1,757	723
Hyrum City	4,660	449	868	84	5,528	533	9,255	6,382	1,400	0	7,782	2254
Lewiston City	636	319	49	24	685	343	1,781	1,612	96	0	1,708	1023
Logan City	9,427	148	1,090	17	10,517	165	56,851	16,652	1,820	0	18,472	7955
Mendon City Culinary Water System	200	97	127	61	327	158	1,844	356	190	0	546	218
Millville City Water	473	185	33	13	506	198	2,281	825	54	0	879	373
Newton Town Water	206	217	100	106	306	322	847	246	187	0	433	127
Nibley City	1,201	123	245	25	1,446	148	8,734	2,499	300	0	2,799	1353
North Logan Water	1,795	138	167	13	1,962	151	11,614	1,727	235	0	1,962	(0)
Paradise Town	122	98	182	146	304	243	1,118	497	290	0	787	482
Providence Town Water System	2,352	234	65	6	2,417	241	8,954	4,076	100	0	4,176	1759
Richmond City Corp.	701	225	171	55	872	280	2,785	1,388	300	0	1,688	816
River Heights City	552	212	21	8	573	220	2,324	2,099	34	0	2,133	1559
Smithfield City	1,901	139	902	66	2,803	205	12,184	5,976	1,405	0	7,381	4578
South Cove Water Works Co., Inc.	6	78	11	142	17	220	70	197	22	0	219	202
Trenton Town Corp. Water	176	262	29	43	205	305	600	225	48	0	273	68
Wellsville City Corp.	1,587	344	12	3	1,599	346	4,121	5,730	20	0	5,750	4151
Cache Total	28,463	190	4,441	30	32,560	219	133,898	54,586	7,037	0	61,623	(0)

GPCD Projections and Use to 2060

System	2025														
	Potable Use	Potable GPCD	POT % Reduction	Secondary Use	Secondary GPCD	SEC % Reduction	Total Use (ac-ft)	Total GPCD	% Reduction from 2000	Population	Potable Supply	Secondary Use	New Supply	Reliable Supply	Deficit
Cache County															
Amalga Town Culinary Water System	660	962	24%	3	4	26%	662	966	24%	612	686	5	0	691	29
Benson Water Culinary District	457	174	24%	76	29	26%	533	203	24%	2,342	348	50	0	398	(135)
Clarkston Town Culinary Water	210	203	24%	46	45	26%	256	248	24%	923	1,049	83	0	1,132	875
Cornish Town Water	96	245	24%	26	66	26%	122	311	24%	349	142	44	0	186	64
Goaslind Spring Water Works Co.	5	78	24%	6	87	26%	11	165	25%	60	394	12	0	406	395
High Creek Culinary Water System	42	290	24%	1	7	26%	43	297	24%	130	66	2	0	68	25
Hyde Park City	893	143	24%	240	38	26%	1,133	182	24%	5,568	1,417	340	0	1,757	624
Hyrum City	4,955	437	24%	911	80	26%	5,866	517	24%	10,124	6,382	1,400	0	7,782	1916
Lewiston City	689	310	24%	52	23	26%	742	333	24%	1,986	1,612	96	0	1,708	966
Logan City	9,717	144	24%	1,109	16	26%	10,826	160	24%	60,281	16,652	1,820	0	18,472	7646
Mendon City Culinary Water System	227	94	24%	141	59	26%	368	153	25%	2,145	356	190	0	546	178
Millville City Water	502	180	24%	34	12	26%	536	192	24%	2,487	825	54	0	879	343
Newton Town Water	201	211	24%	96	101	26%	297	312	24%	850	246	187	0	433	136
Nibley City	1,522	119	24%	307	24	26%	1,829	143	24%	11,386	2,499	300	0	2,799	970
North Logan Water	1,994	134	24%	183	12	26%	2,177	146	24%	13,272	1,727	235	0	1,962	(215)
Paradise Town	130	95	24%	191	140	26%	321	234	25%	1,223	497	290	0	787	465
Providence Town Water System	2,630	228	24%	71	6	26%	2,701	234	24%	10,299	4,076	100	0	4,176	1474
Richmond City Corp.	711	218	24%	171	53	26%	882	271	24%	2,906	1,388	300	0	1,688	806
River Heights City	545	206	24%	20	8	26%	565	214	24%	2,360	2,099	34	0	2,133	1567
Smithfield City	2,087	135	24%	977	63	26%	3,064	199	24%	13,761	5,976	1,405	0	7,381	4317
South Cove Water Works Co., Inc.	6	76	24%	11	136	26%	17	212	25%	70	197	22	0	219	202
Trenton Town Corp. Water	189	255	24%	31	42	26%	220	296	24%	662	225	48	0	273	53
Wellsville City Corp.	1,705	334	24%	13	3	26%	1,718	337	24%	4,555	5,730	20	0	5,750	4032
Cache Total	30,172	182	25%	4,717	28	26%	34,889	210	25%	148,352	54,586	7,037	0	61,623	(350)

GPCD Projections and Use to 2060

System	2030														
	Potable Use	Potable GPCD	POT % Reduction	Secondary Use	Secondary GPCD	SEC % Reduction	Total Use (ac-ft)	Total GPCD	% Reduction from 2000	Population	Potable Supply	Secondary Use	New Supply	Reliable Supply	Deficit
Cache County															
Amalga Town Culinary Water System	688	964	24%	3	4	26%	691	968	24%	637	686	5	0	691	0
Benson Water Culinary District	591	174	24%	98	29	26%	689	203	24%	3,025	348	50	0	398	(291)
Clarkston Town Culinary Water	230	203	24%	50	45	26%	281	248	24%	1,010	1,049	83	0	1,132	851
Cornish Town Water	100	246	24%	27	66	26%	127	311	24%	364	142	44	0	186	59
Goaslind Spring Water Works Co.	5	79	24%	6	86	26%	11	165	25%	60	394	12	0	406	395
High Creek Culinary Water System	42	291	24%	1	7	26%	43	297	24%	130	66	2	0	68	25
Hyde Park City	998	144	24%	267	38	26%	1,265	182	24%	6,209	1,417	340	0	1,757	492
Hyrum City	5,390	438	24%	986	80	26%	6,377	518	24%	10,993	6,382	1,400	0	7,782	1405
Lewiston City	762	310	24%	58	23	26%	819	334	24%	2,191	1,612	96	0	1,708	888
Logan City	10,288	144	24%	1,169	16	26%	11,457	161	24%	63,712	16,652	1,820	0	18,472	7015
Mendon City Culinary Water System	259	94	24%	161	59	26%	419	153	25%	2,445	356	190	0	546	126
Millville City Water	544	180	24%	37	12	26%	581	193	24%	2,694	825	54	0	879	298
Newton Town Water	202	211	24%	96	101	26%	298	312	24%	852	246	187	0	433	135
Nibley City	1,880	120	24%	377	24	26%	2,257	144	24%	14,038	2,499	300	0	2,799	542
North Logan Water	2,247	134	24%	206	12	26%	2,453	147	24%	14,930	1,727	235	0	1,962	(491)
Paradise Town	141	95	24%	207	139	26%	348	234	25%	1,328	497	290	0	787	438
Providence Town Water System	2,979	228	24%	81	6	26%	3,059	235	24%	11,645	4,076	100	0	4,176	1116
Richmond City Corp.	742	219	24%	178	52	26%	920	271	24%	3,026	1,388	300	0	1,688	768
River Heights City	554	207	24%	20	8	26%	575	214	24%	2,395	2,099	34	0	2,133	1558
Smithfield City	2,330	136	24%	1,086	63	26%	3,416	199	24%	15,338	5,976	1,405	0	7,381	3965
South Cove Water Works Co., Inc.	6	76	24%	11	136	26%	17	212	25%	70	197	22	0	219	202
Trenton Town Corp. Water	207	255	24%	34	41	26%	241	297	24%	725	225	48	0	273	32
Wellsville City Corp.	1,871	335	24%	14	3	26%	1,885	337	24%	4,989	5,730	20	0	5,750	3865
Cache Total	33,057	181	25%	5,172	28	26%	38,229	210	25%	162,806	54,586	7,037	0	61,623	(782)

GPCD Projections and Use to 2060

System	2040														
	Potable Use	Potable GPCD	POT % Reduction	Secondary Use	Secondary GPCD	SEC % Reduction	Total Use (ac-ft)	Total GPCD	% Reduction from 2000	Population	Potable Supply	Secondary Use	New Supply	Reliable Supply	Deficit
Cache County															
Amalga Town Culinary Water System	711	969	23%	3	4	26%	714	973	23%	655	686	5	0	691	(23)
Benson Water Culinary District	842	176	23%	137	29	26%	979	204	24%	4,281	348	50	0	398	(582)
Clarkston Town Culinary Water	271	205	23%	59	44	26%	329	249	24%	1,181	1,049	83	0	1,132	802
Cornish Town Water	107	247	23%	28	65	26%	135	313	24%	387	142	44	0	186	51
Goaslind Spring Water Works Co.	5	79	23%	6	86	26%	11	165	25%	60	394	12	0	406	395
High Creek Culinary Water System	43	292	23%	1	7	26%	44	299	23%	130	66	2	0	68	24
Hyde Park City	1,220	144	23%	323	38	26%	1,543	183	24%	7,546	1,417	340	0	1,757	214
Hyrum City	6,262	440	23%	1,134	80	26%	7,396	520	24%	12,695	6,382	1,400	0	7,782	386
Lewiston City	896	312	23%	67	23	26%	963	336	24%	2,561	1,612	96	0	1,708	745
Logan City	12,408	145	23%	1,395	16	26%	13,803	161	24%	76,381	16,652	1,820	0	18,472	4,669
Mendon City Culinary Water System	297	95	23%	182	58	26%	479	153	24%	2,790	356	190	0	546	66
Millville City Water	623	181	23%	42	12	26%	665	194	24%	3,065	825	54	0	879	214
Newton Town Water	237	212	23%	112	100	26%	349	313	24%	996	246	187	0	433	84
Nibley City	2,103	120	23%	418	24	26%	2,521	144	24%	15,615	2,499	300	0	2,799	278
North Logan Water	2,524	135	23%	229	12	26%	2,752	147	24%	16,669	1,727	235	0	1,962	(790)
Paradise Town	165	96	23%	240	139	26%	405	234	25%	1,545	497	290	0	787	381
Providence Town Water System	3,503	230	23%	94	6	26%	3,597	236	23%	13,613	4,076	100	0	4,176	579
Richmond City Corp.	824	220	23%	195	52	26%	1,019	272	24%	3,342	1,388	300	0	1,688	669
River Heights City	585	208	23%	21	8	26%	607	215	23%	2,514	2,099	34	0	2,133	1,526
Smithfield City	2,829	136	23%	1,304	63	26%	4,133	199	24%	18,509	5,976	1,405	0	7,381	3,248
South Cove Water Works Co., Inc.	6	77	23%	11	135	26%	17	212	25%	70	197	22	0	219	202
Trenton Town Corp. Water	244	257	23%	39	41	26%	283	298	24%	847	225	48	0	273	(10)
Wellsville City Corp.	2,179	337	23%	16	3	26%	2,195	339	23%	5,776	5,730	20	0	5,750	3,555
Cache Total	38,885	182	25%	6,055	28	26%	44,940	210	25%	191,229	54,586	7,037	0	61,623	(1,405)

GPCD Projections and Use to 2060

System	2050														
	Potable Use	Potable GPCD	POT % Reduction	Secondary Use	Secondary GPCD	SEC % Reduction	Total Use (ac-ft)	Total GPCD	Population	Potable Supply	Secondary Use	New Supply	Reliable Supply	Deficit	
Cache County															
Amalga Town Culinary Water System	1,086	960	24%	5	4	25%	1,091	965	24%	1,010	686	5	0	691	(400)
Benson Water Culinary District	1,347	174	24%	224	29	25%	1,571	203	24%	6,917	348	50	0	398	(1,174)
Clarkston Town Culinary Water	317	203	24%	70	45	25%	387	248	24%	1,396	1,049	83	0	1,132	744
Cornish Town Water	129	245	24%	35	66	25%	163	311	24%	468	142	44	0	186	23
Goaslind Spring Water Works Co.	5	78	24%	6	87	25%	11	165	25%	60	394	12	0	406	395
High Creek Culinary Water System	42	290	24%	1	7	25%	43	296	24%	130	66	2	0	68	25
Hyde Park City	1,228	143	24%	331	38	25%	1,559	182	24%	7,667	1,417	340	0	1,757	198
Hyrum City	7,687	436	24%	1,417	80	25%	9,103	517	24%	15,729	6,382	1,400	0	7,782	(1,321)
Lewiston City	1,211	309	24%	92	24	25%	1,303	333	24%	3,495	1,612	96	0	1,708	404
Logan City	14,912	144	24%	1,706	16	25%	16,618	160	24%	92,651	16,652	1,820	0	18,472	1,854
Mendon City Culinary Water System	321	94	24%	201	59	25%	522	153	25%	3,046	356	190	0	546	23
Millville City Water	802	180	24%	55	12	25%	857	192	24%	3,983	825	54	0	879	22
Newton Town Water	278	210	24%	134	101	25%	412	312	25%	1,179	246	187	0	433	21
Nibley City	2,465	119	24%	498	24	25%	2,963	143	24%	18,467	2,499	300	0	2,799	(164)
North Logan Water	2,783	134	24%	257	12	25%	3,040	146	24%	18,555	1,727	235	0	1,962	(1,078)
Paradise Town	198	95	24%	293	140	25%	491	234	25%	1,871	497	290	0	787	295
Providence Town Water System	4,105	228	24%	112	6	25%	4,216	234	24%	16,100	4,076	100	0	4,176	(41)
Richmond City Corp.	1,022	218	24%	247	53	25%	1,269	271	24%	4,184	1,388	300	0	1,688	419
River Heights City	656	206	24%	24	8	25%	681	214	24%	2,846	2,099	34	0	2,133	1,452
Smithfield City	2,919	135	24%	1,371	63	25%	4,290	199	25%	19,280	5,976	1,405	0	7,381	3,091
South Cove Water Works Co., Inc.	6	76	24%	11	136	25%	17	212	25%	70	197	22	0	219	202
Trenton Town Corp. Water	286	254	24%	47	42	25%	332	296	24%	1,002	225	48	0	273	(59)
Wellsville City Corp.	2,628	334	24%	20	3	25%	2,648	336	24%	7,032	5,730	20	0	5,750	3,102
Cache Total	46,434	183	25%	7,155	28	26%	53,589	211	25%	227,138	54,586	7,037	0	61,623	(4,238)

GPCD Projections and Use to 2060

System	2060														
	Potable Use	Potable GPCD	POT % Reduction	Secondary Use	Secondary GPCD	SEC % Reduction	Total Use (ac-ft)	Total GPCD	% Reduction from 2000	Population	Potable Supply	Secondary Use	New Supply	Reliable Supply	Deficit
Cache County															
Amalga Town Culinary Water System	1,281	961	24%	5	4	25%	1,286	965	24%	1,190	686	5	0	691	(595)
Benson Water Culinary District	1,592	174	24%	265	29	25%	1,857	203	24%	8,164	348	50	0	398	(1,459)
Clarkston Town Culinary Water	374	203	24%	83	45	25%	456	248	24%	1,645	1,049	83	0	1,132	675
Cornish Town Water	152	245	24%	41	66	25%	192	311	24%	551	142	44	0	186	(6)
Goaslind Spring Water Works Co.	5	78	24%	6	87	25%	11	165	25%	60	394	12	0	406	395
High Creek Culinary Water System	42	290	24%	1	7	25%	43	297	24%	130	66	2	0	68	25
Hyde Park City	1,355	143	24%	365	39	25%	1,720	182	24%	8,448	1,417	340	0	1,757	37
Hyrum City	9,227	437	24%	1,703	81	25%	10,930	517	24%	18,864	6,382	1,400	0	7,782	(3,148)
Lewiston City	1,333	310	24%	101	24	25%	1,434	333	24%	3,842	1,612	96	0	1,708	273
Logan City	17,931	144	24%	2,055	16	25%	19,986	160	24%	111,314	16,652	1,820	0	18,472	(1,514)
Mendon City Culinary Water System	379	94	24%	237	59	25%	616	153	25%	3,588	356	190	0	546	(70)
Millville City Water	978	180	24%	67	12	25%	1,045	192	24%	4,854	825	54	0	879	(166)
Newton Town Water	328	211	24%	158	102	25%	486	312	24%	1,388	246	187	0	433	(53)
Nibley City	2,906	119	24%	588	24	25%	3,494	143	24%	21,752	2,499	300	0	2,799	(695)
North Logan Water	3,281	134	24%	303	12	25%	3,584	146	24%	21,855	1,727	235	0	1,962	(1,622)
Paradise Town	236	95	24%	349	140	25%	586	235	25%	2,226	497	290	0	787	201
Providence Town Water System	4,839	228	24%	132	6	25%	4,971	234	24%	18,964	4,076	100	0	4,176	(795)
Richmond City Corp.	1,272	218	24%	308	53	25%	1,580	271	24%	5,203	1,388	300	0	1,688	108
River Heights City	774	206	24%	29	8	25%	803	214	24%	3,352	2,099	34	0	2,133	1,330
Smithfield City	3,255	135	24%	1,531	64	25%	4,785	199	24%	21,480	5,976	1,405	0	7,381	2,596
South Cove Water Works Co., Inc.	6	76	24%	11	137	25%	17	213	25%	70	197	22	0	219	202
Trenton Town Corp. Water	337	255	24%	55	42	25%	392	296	24%	1,180	225	48	0	273	(119)
Wellsville City Corp.	3,129	334	24%	24	3	25%	3,153	336	24%	8,365	5,730	20	0	5,750	2,597
Cache Total	55,009	183	25%	8,417	28	27%	63,426	211	25%	268,487	54,586	7,037	0	61,623	(10,243)