

**Exempt Well Certificates of Water Right by County and Year 1/1/1991 to 12/31/2010**

COUNTY	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	Grand Total
RAVALLI	238	331	529	336	308	375	341	298	294	293	235	273	387	383	356	617	304	208	241	162	6509
FLATHEAD	276	223	340	311	238	119	422	215	216	206	181	210	262	614	414	623	230	399	224	139	5862
GALLATIN	193	268	324	308	352	155	298	229	243	287	219	299	153	594	296	296	520	193	187	25	5439
LEWIS AND CLARK	197	158	188	217	258	146	185	202	235	253	170	134	310	389	263	361	273	145	174	187	4445
MISSOULA	164	230	365	273	242	260	218	176	185	207	152	151	208	189	227	419	162	189	176	116	4309
YELLOWSTONE	86	130	128	106	137	157	133	172	172	190	157	177	165	212	145	300	158	136	132	15	3008
LINCOLN	80	46	86	122	73	56	162	61	90	83	60	61	94	206	111	257	99	172	91	60	2070
MADISON	50	71	70	62	107	52	90	56	75	71	36	82	51	177	131	122	177	106	62	12	1660
CARBON	41	52	70	88	70	113	77	70	107	67	65	94	64	110	80	126	88	102	76	10	1570
PARK	41	50	119	68	136	36	88	60	64	84	58	89	42	128	93	75	148	55	62	7	1503
CASCADE	52	48	91	51	76	44	71	64	72	83	74	89	51	55	56	93	91	63	60	46	1330
JEFFERSON	85	47	50	69	59	50	61	68	74	78	43	22	83	107	88	116	66	37	50	32	1285
STILLWATER	41	40	67	62	49	56	74	49	72	112	52	73	61	90	55	79	76	82	67	7	1264
LAKE	87	73	118	132	94	55	176	73	59	32	18	20	31	53	35	81	22	42	20	7	1228
SANDERS	38	35	62	89	68	50	108	47	51	45	32	33	31	78	62	118	68	95	71	30	1211
BEAVERHEAD	55	36	39	50	50	44	59	28	57	48	33	21	75	109	77	97	87	45	70	38	1118
SILVER BOW	111	98	50	47	46	38	46	46	39	58	18	8	27	70	28	36	45	14	45	26	896
BROADWATER	20	13	16	28	29	22	32	31	32	35	25	7	37	84	78	107	70	37	58	33	794
FERGUS	26	28	43	20	24	33	26	23	49	34	78	82	49	27	50	78	46	35	29	13	793
MUSSELSHELL	25	45	40	26	33	24	22	34	28	30	34	34	24	38	40	50	27	25	28	9	616
GRANITE	12	22	31	17	27	35	28	17	24	20	24	21	29	42	38	56	40	28	28	15	554
RICHLAND	24	26	26	35	41	27	36	20	20	33	14	20	12	33	24	45	29	39	29	19	552
MINERAL	15	22	24	15	26	23	30	29	38	37	10	14	25	31	33	65	24	25	15	14	515
SWEET GRASS	17	19	28	23	16	20	24	17	23	36	45	34	30	23	31	40	19	26	36	3	510
POWELL	30	16	17	29	38	21	18	23	27	33	15	4	22	45	30	41	26	24	26	22	507
DEER LODGE	28	9	17	17	33	17	28	22	33	24	13	10	28	40	23	27	18	7	22	16	432
CUSTER	10	17	18	32	22	32	21	15	10	14	15	18	20	43	24	38	21	18	20	13	421
POWDER RIVER	18	34	22	29	12	4	6	14	11	17	21	29	14	27	23	25	29	15	16	5	371
DAWSON	13	16	27	11	25	20	11	9	22	26	7	30	13	20	13	46	19	14	17	7	366
BIG HORN	13	16	8	9	23	14	11	15	12	17	8	18	66	18	14	19	12	17	14	12	336
SHERIDAN	11	3	20	14	27	25	12	16	30	27	10	22	14	4	10	21	19	12	21	12	330
JUDITH BASIN	5	6	17	3	4	6	9	7	20	31	42	43	15	9	18	25	22	19	18	8	327
ROSEBUD	9	12	16	18	12	6	15	19	13	12	19	19	7	29	17	25	11	15	20	7	301
TETON	8	8	9	7	7	6	7	2	5	20	19	14	19	13	7	72	26	24	18	9	300
GARFIELD	13	10	13	10	18	10	16	15	11	22	8	11	14	5	12	16	23	23	16	23	289
HILL	25	27	13	14	19	8	14	17	16	8	21	15	8	12	15	16	3	9	10	8	278
MCCONE	13	21	13	23	15	8	11	9	7	11	10	17	8	5	9	30	22	9	23	5	269
MEAGHER	15	14	7	5	22	5	8	8	8	13	26	20	7	21	10	19	32	10	9	4	263
VALLEY	9	8	8	16	20	8	7	10	16	7	3	13	10	8	11	14	12	10	8	14	212
CARTER	12	19	23	12	9	4	6	2	6	12	7	21	13	6	11	19	5	2	2	3	194
ROOSEVELT	7	2	14	15	17	9	14	18	13	13	13	12	5	1	5	15	5	9	2	1	190
PHILLIPS	5	9	18	6	11	6	2	2	3	5	6	18	6	2	5	28	13	11	11	15	182
BLAINE	21	23	14	5	6	1	2	1	6	2	20	17	11	3	3	13	5	3	9	2	167
PRAIRIE	3	13	6	6	8	4	8	7	4	17	6	5	13	11	3	12	13	2	9	17	167
FALLON	6	8	8	7	4	8	3	6	6	10	4	5	8	15	12	13	10	10	16	5	164
GOLDEN VALLEY	7	5	1	2	6	3	7	4	6	5	12	7	7	17	8	24	8	10	2	2	143
WHEATLAND	9	4	13	7	6	6	2	3	9	2	13	8	5	3	7	4	6	11	6	1	125
WIBAUX	15	8	6	14	5	1	4	2	6	6	4	6	3	8	2	7	2	4	14	6	123
CHOUTEAU	11	8	9	6	3	1	1	5	9	7	6	7	1	3	4	8	4	3	3	2	101
TREASURE	8	4	3	8	4	4	1	2	2	2	5	4	3	7	5	9	2	18	5		94
DANIELS	1	1	7	11	13	7	5	5	7	6		2	3		1	9	3	4	1	6	92
PONDERA	1	2	4	2			5		2	5	12	5	4	3	2	17	8	2	12	6	92
GLACIER	2	3	2	1		3	4	3	10	6	6	9	2	1	1	9	2	7	2	1	74
PETROLEUM	2	6	7	2	5	2	2	2	4	5	4	4	6	2	3	4	2	3	2	2	69
TOOLE	3	2	2	2	2	1	1	2	2	5	4	4	2		1	5	1	3	3		41
LIBERTY	1	1	3			1	1	1		2	6	3					1		2		22
<b>Grand Total</b>	<b>2308</b>	<b>2446</b>	<b>3269</b>	<b>2896</b>	<b>2955</b>	<b>2241</b>	<b>3069</b>	<b>2349</b>	<b>2653</b>	<b>2814</b>	<b>2198</b>	<b>2468</b>	<b>2658</b>	<b>4223</b>	<b>3120</b>	<b>4887</b>	<b>3254</b>	<b>2626</b>	<b>2390</b>	<b>1259</b>	<b>56083</b>

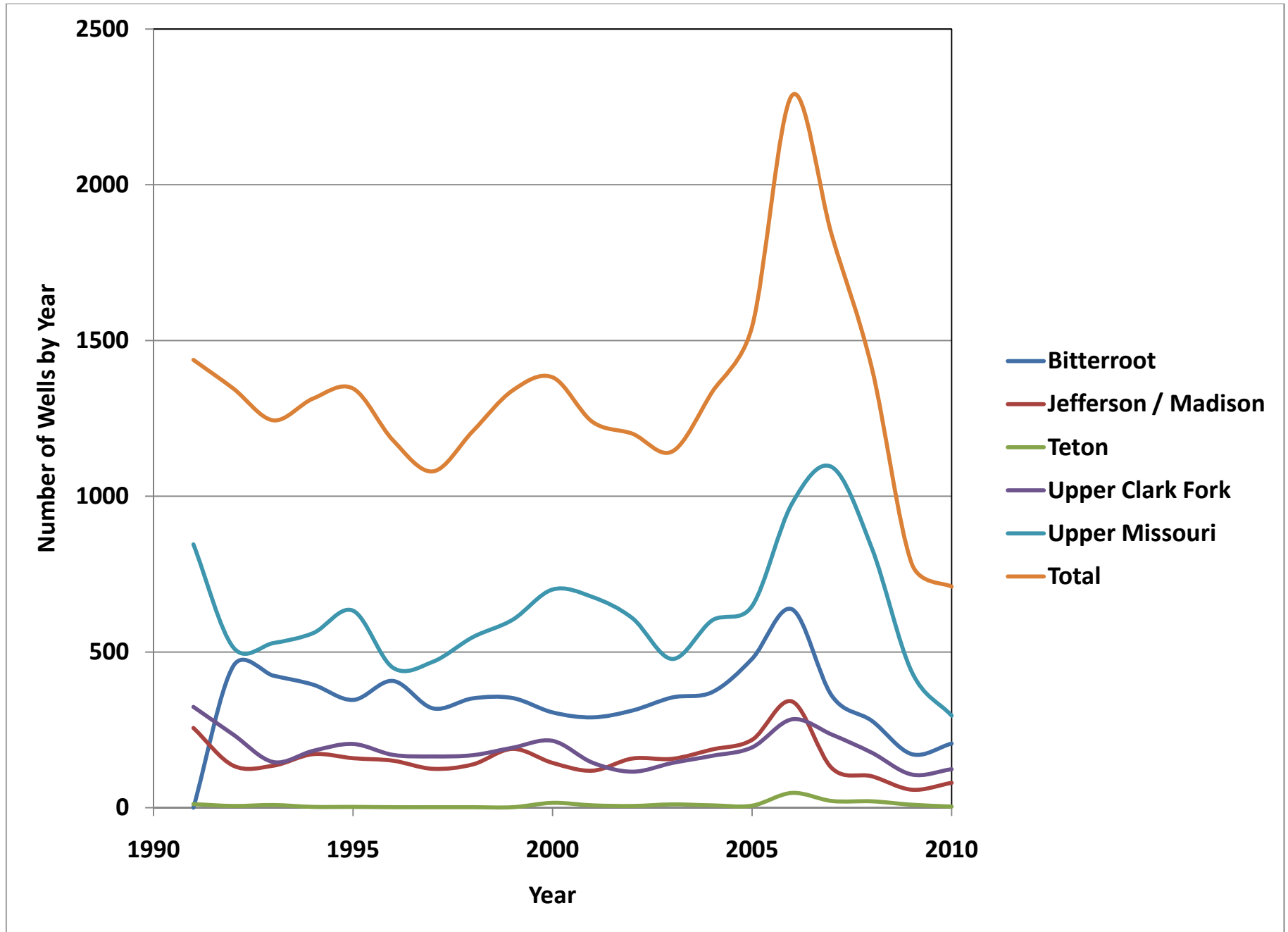
EXEMPT WELLS IN CLOSED BASINS

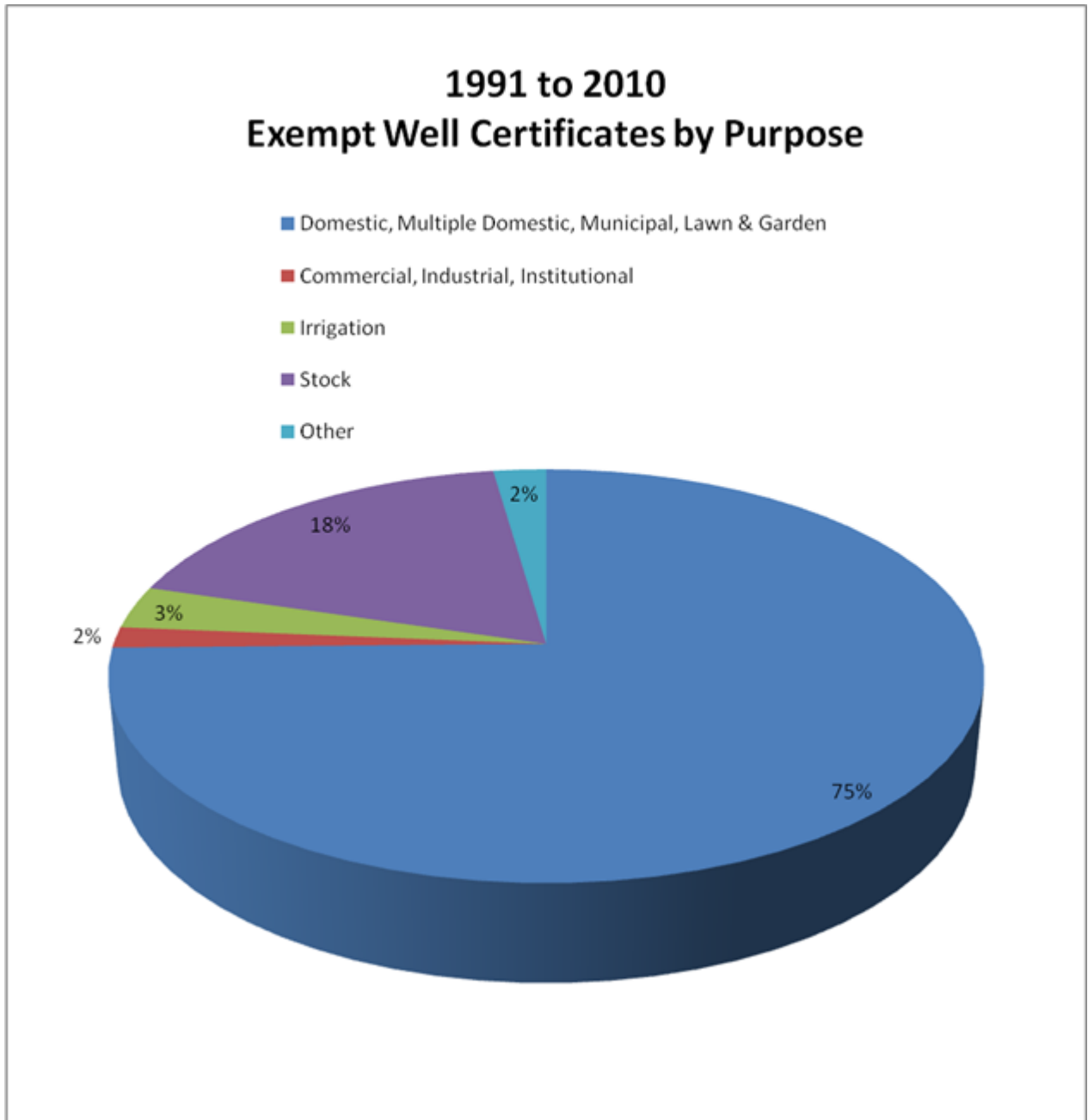
CUMULATIVE NUMBERS OF EXEMPT WELLS (excluding stock)							CUMULATIVE VOLUMES (AF) FOR EXEMPT WELLS (assuming 1/2 acre lawn)							
Year	Jefferson /		Upper Clark		Upper	Total	Year	Jefferson /		Upper		Upper	Total	Total
	Bitterroot	Madison	Teton	Fork	Missouri			Bitterroot	Madison	Teton	Clark Fork	Missouri	Diverted	Consumed
													Volume	Volume
1991	0	256	12	324	846	1,438	1991	0	298	14	377	984	1,672	974
1992	455	391	18	559	1,361	2,784	1992	529	455	21	650	1,582	3,237	1,885
1993	879	526	27	706	1,890	4,028	1993	1,022	612	31	821	2,197	4,683	2,728
1994	1,274	698	30	889	2,451	5,342	1994	1,481	811	35	1,034	2,849	6,210	3,617
1995	1,620	857	33	1,094	3,084	6,688	1995	1,883	996	38	1,272	3,585	7,775	4,529
1996	2,027	1,008	35	1,264	3,534	7,868	1996	2,357	1,172	41	1,469	4,109	9,147	5,328
1997	2,346	1,133	37	1,429	4,003	8,948	1997	2,727	1,317	43	1,661	4,654	10,403	6,059
1998	2,697	1,272	39	1,598	4,551	10,157	1998	3,135	1,479	45	1,858	5,291	11,808	6,878
1999	3,049	1,461	41	1,791	5,155	11,497	1999	3,545	1,699	48	2,082	5,993	13,366	7,785
2000	3,355	1,605	57	2,006	5,856	12,879	2000	3,900	1,866	66	2,332	6,808	14,973	8,721
2001	3,645	1,724	65	2,151	6,533	14,118	2001	4,238	2,004	76	2,501	7,595	16,413	9,560
2002	3,957	1,882	71	2,267	7,142	15,319	2002	4,600	2,188	83	2,636	8,303	17,809	10,374
2003	4,311	2,039	82	2,411	7,620	16,463	2003	5,012	2,370	95	2,803	8,859	19,139	11,148
2004	4,682	2,226	90	2,578	8,222	17,798	2004	5,443	2,588	105	2,997	9,559	20,691	12,052
2005	5,160	2,444	97	2,772	8,870	19,343	2005	5,999	2,841	113	3,223	10,312	22,488	13,099
2006	5,797	2,785	145	3,056	9,847	21,630	2006	6,739	3,238	169	3,553	11,448	25,146	14,647
2007	6,156	2,912	167	3,291	10,941	23,467	2007	7,157	3,385	194	3,826	12,720	27,282	15,891
2008	6,435	3,013	188	3,468	11,775	24,879	2008	7,481	3,503	219	4,032	13,689	28,923	16,847
2009	6,607	3,071	198	3,575	12,212	25,663	2009	7,681	3,570	230	4,156	14,197	29,835	17,378
2010	6,813	3,151	202	3,699	12,508	26,373	2010	7,921	3,663	235	4,300	14,541	30,660	17,859
2020	11,000	4,900	280	5,500	19,000	41,000	2020	13,000	5,700	330	6,400	22,000	48,000	28,000
2030	14,000	6,500	380	7,300	25,000	53,000	2030	16,000	7,600	440	8,500	29,000	62,000	36,000
2040	18,000	8,100	480	9,100	31,000	67,000	2040	21,000	9,400	560	10,600	36,000	78,000	45,000

2020-40 future year projections estimated by linear regression

Standards Used for Volume			
<u>Domestic In-House Use</u>		<u>Lawn irrigation</u>	
	GPD	AF	AF/acre
Diverted	187.5	0.21	1.9
Consumed	9.375	0.01	1.33

EXEMPT WELLS BY YEAR  
IN CLOSED BASINS





Compiled by DNRC for June 2011 WPIC

“Other Uses” include such purposes as: fishery, wildlife, wetlands, and recreation