



**N.F. and Main Stem Republican (NB) Above Guide Rock for Water Short Years**  
**Baseline Reduction Depletions from surface water pumping REPEATED 1981-2000.**  
**N.F. and Main Stem Republican (NB) Above Guide**

Year	Total CY AF/year	Gain Guide Rock to Hardy*	Consumptive Use Guide Rock to Hardy	Mound Credit Guide Rock to Hardy	Virgin Water Supply Below Guide Rock Gain + CU	Nebraska Allocation Below Guide Rock	Nebraska Allocation Below Rock + Credit	Total Nebraska Allocation + Credit	Nebraska Allocation Above Guide Rock with Mound Credit	Consumptive Use Above Guide Rock Total CU - CU below	Allocation minus Consumptive Use	Compliance Two-Year Average	Compliance Three-Year Average
2001	346,868	31,652	1800	0	33,452	16,358	193,000	176,642	298,794	(122,162)			
2002	537,338	78,770	1800	0	80,570	39,399	295,481	256,082	315,802	(59,720)	(90,936)		
2003	893,842	75,383	1800	0	77,183	37,743	472,356	434,613	321,927	112,686	26,483	(23,062)	
2004	736,827	104,327	1800	0	106,127	51,896	393,229	341,333	337,344	3,989	58,337	18,985	
2005	560,256	50,557	1800	0	52,957	25,603	309,734	284,131	330,697	(46,566)	(21,289)	23,370	
2006	585,758	73,662	1800	0	75,462	36,901	320,524	283,624	333,804	(50,180)	(49,373)	(30,919)	
2007	581,540	104,626	1800	0	106,426	52,043	321,703	269,660	329,016	(59,355)	(54,768)	(52,034)	
2008	553,481	30,470	1800	0	32,270	15,780	157,800	292,806	332,314	(39,509)	(49,432)	(49,681)	
2009	497,387	13,506	1800	0	15,306	7,484	280,415	272,931	321,582	(48,651)	(44,080)	(49,172)	
2010	558,543	14,728	1800	0	16,528	8,082	309,611	301,529	328,693	(27,165)	(37,908)	(38,442)	
2011	426,773	292	1800	0	2,092	1,023	239,098	238,075	296,244	(58,169)	(42,667)	(44,662)	
2012	360,971	33,474	1800	0	35,274	17,249	203,903	186,664	309,020	(122,366)	(90,268)	(69,233)	
2013	867,905	191,068	1800	0	192,868	94,313	466,999	372,686	301,026	71,660	(25,353)	(36,232)	
2014	696,100	41,133	1800	0	42,933	20,994	377,910	356,916	344,040	12,875	42,268	(12,610)	
2015	678,808	47,286	1800	0	49,086	24,003	367,782	343,779	360,090	(16,271)	(1,698)	22,755	
2016	705,651	48,838	1800	0	50,638	24,762	382,561	360,073	344,114	13,686	(1,292)	3,430	
2017	686,793	30,367	1800	0	32,167	15,730	375,803	360,073	371,710	(11,637)	1,024	(4,741)	
2018	638,235	39,745	1800	0	41,545	20,316	351,732	331,417	340,503	(9,086)	(10,361)	(2,346)	
2019	534,447	39,026	1800	0	40,826	19,964	300,524	280,560	348,578	(68,018)	(38,552)	(29,580)	
2020	606,387	14,232	1800	0	16,032	7,840	341,021	333,182	346,223	(13,041)	(40,530)	(30,049)	
2021	375,709	32,363	1800	0	34,163	16,706	211,986	195,280	352,790	(157,510)	(85,276)	(79,523)	
2022	560,383	79,423	1800	0	81,223	39,718	306,477	266,759	364,781	(98,022)	(127,766)	(89,524)	
2023	908,307	76,023	1800	0	77,823	38,055	483,210	445,155	365,875	79,279	(9,371)	(58,751)	
2024	755,632	104,977	1800	0	106,777	52,214	404,855	352,641	378,719	(26,078)	26,601	(14,940)	
2025	574,766	51,148	1800	0	52,948	25,891	320,231	294,340	367,998	(73,648)	(49,863)	(6,816)	
2026	603,224	74,260	1800	0	76,060	37,193	331,271	294,077	365,454	(71,377)	(72,512)	(57,034)	
2027	601,261	105,217	1800	0	107,017	52,331	332,525	280,194	361,898	(81,704)	(76,540)	(75,576)	
2028	570,646	31,062	1800	0	32,862	16,069	319,090	303,020	363,786	(60,766)	(71,235)	(71,282)	
2029	517,045	14,061	1800	0	15,861	7,756	290,891	283,135	351,769	(68,634)	(64,700)	(70,368)	
2030	576,538	15,272	1800	0	17,072	8,348	319,772	311,424	359,162	(47,739)	(58,186)	(59,046)	
2031	476,117	841	1800	0	2,641	1,291	264,106	262,815	368,741	(95,926)	(71,832)	(70,766)	
2032	376,784	33,979	1800	0	35,779	17,496	213,446	195,950	338,917	(142,967)	(119,447)	(95,544)	
2033	882,709	191,537	1800	0	193,337	94,542	476,426	381,885	342,344	39,540	(51,713)	(36,451)	
2034	713,643	41,829	1800	0	43,429	21,237	387,294	366,057	342,344	24,713	(14,831)	(37,769)	
2035	694,879	47,763	1800	0	49,563	24,236	377,268	353,032	391,397	(38,365)	(24,122)	(2,901)	
2036	721,094	49,299	1800	0	51,099	24,987	391,819	366,832	378,504	(11,672)	(25,019)	(19,972)	
2037	701,741	30,850	1800	0	32,650	15,966	384,618	368,653	403,251	(34,598)	(23,135)	(28,212)	
2038	655,439	40,225	1800	0	42,025	20,550	360,966	340,416	367,127	(26,711)	(30,655)	(24,327)	
2039	549,607	39,486	1800	0	41,286	20,189	309,288	289,099	377,201	(88,102)	(57,406)	(49,804)	
2040	621,250	14,688	1800	0	16,488	8,063	350,135	342,073	370,751	(28,678)	(58,390)	(47,830)	
Average	612,016	53,431	1,800	0	55,231	27,008	336,191	309,183	348,697	(39,514)	(38,593)	(37,651)	
Max	908,307	191,537	1,800	0	193,337	94,542	483,210	445,155	403,251	112,686	58,337	23,370	
Min	346,868	292	1,800	0	2,092	1,023	193,000	176,642	296,244	(157,510)	(127,766)	(95,544)	
Median	593,510	40,679	1,800	0	42,479	20,772	326,487	302,274	350,174	(43,037)	(42,667)	(38,105)	

\* Gain Guide Rock to Hardy = Hardy gage+ consumptive use ms GR-Hardy - Passing Guide Rock - return flows from Courtland and Superior above Hardy-mound credit



**N.F. and Main Stem Republican (NB) Above Guide Rock for Water Short Years**  
**N.F. and Main Stem Republican (NB) Above Guide Rock for Water Short Years**  
**Baseline Reduction Depletions from surface water pumping held constant at the average of 1990-1994 Depletions**

Year	Total VWS CY AF/year	Gain Guide Rock to Hardy*	Consumptive Use Guide Rock to Hardy	Mound Credit to Hardy	Virgin Water Supply Below Guide Rock Gain + CU	Nebraska Allocation Below Guide Rock	Nebraska Allocation Below Rock + Credit	Total Nebraska Allocation + Credit	Nebraska Allocation Above Guide Rock with Mound Credit	Consumptive Use Above Guide Rock - CU below	Allocation minus Consumptive Use	Compliance Two-Year Average	Compliance Three-Year Average
2001	344,371	31,652	1800	0	33,452	16,358	16,358	180,752	174,394	304,381	(129,987)	(91,950)	
2002	522,637	78,770	1800	0	80,570	39,399	39,399	287,830	248,431	302,345	(53,914)	(27,668)	(24,863)
2003	823,146	75,383	1800	0	77,183	37,743	37,743	434,099	396,356	287,105	(109,251)	(58,234)	(20,852)
2004	683,973	104,327	1800	0	106,127	51,896	51,896	364,837	312,941	306,723	(7,218)	(18,011)	(24,409)
2005	535,310	50,557	1800	0	52,357	25,603	25,603	297,207	271,605	314,845	(43,240)	(40,609)	(45,175)
2006	544,696	74,662	1800	0	75,462	36,901	36,901	299,039	262,139	300,116	(37,977)	(47,667)	(44,437)
2007	563,139	104,826	1800	0	106,426	52,043	52,043	310,605	258,563	312,869	(54,307)	(46,220)	(37,296)
2008	501,911	30,470	1800	0	32,270	15,780	15,780	282,942	267,161	308,188	(41,027)	(42,176)	(35,430)
2009	459,690	13,506	1800	0	15,306	7,484	7,484	261,167	253,693	297,009	(43,326)	(44,163)	(43,884)
2010	511,931	14,728	1800	0	16,528	8,082	8,082	286,723	278,641	306,175	(27,534)	(31,728)	(30,330)
2011	407,667	292	1800	0	2,092	1,023	1,023	229,473	228,450	289,242	(60,792)	(91,728)	(70,330)
2012	398,099	33,474	1800	0	35,274	17,249	17,249	222,477	205,228	327,893	(122,665)	(40,037)	(11,670)
2013	939,505	191,068	1800	0	192,868	94,313	94,313	502,230	407,917	344,570	(24,306)	(9,542)	(9,070)
2014	653,549	41,133	1800	0	42,933	20,994	20,994	356,905	335,910	311,604	(24,306)	(9,542)	(9,070)
2015	657,636	47,286	1800	0	49,086	24,003	24,003	357,701	333,698	338,920	(5,222)	(9,542)	(9,070)
2016	717,131	48,838	1800	0	50,638	24,762	24,762	388,481	363,719	355,594	(8,125)	(1,451)	(4,284)
2017	643,369	30,367	1800	0	32,167	15,730	15,730	354,068	338,338	328,388	(9,950)	(9,037)	(9,037)
2018	620,240	39,745	1800	0	41,545	20,316	20,316	343,098	322,772	322,508	(6,113)	(6,113)	(6,113)
2019	525,978	39,026	1800	0	40,826	19,964	19,964	296,751	276,787	340,109	(63,322)	(31,529)	(17,702)
2020	576,808	14,292	1800	0	16,032	7,840	7,840	326,568	318,728	316,686	(2,042)	(30,640)	(20,339)
2021	376,728	32,363	1800	0	34,163	16,706	16,706	210,028	193,322	358,377	(165,055)	(81,506)	(75,445)
2022	541,309	79,423	1800	0	81,223	39,718	39,718	299,290	259,572	351,324	(91,752)	(128,403)	(84,921)
2023	841,316	76,023	1800	0	77,823	38,055	38,055	445,259	407,203	331,053	(76,150)	(7,801)	(60,219)
2024	703,473	104,977	1800	0	106,777	52,214	52,214	376,520	324,306	347,098	(22,792)	(26,679)	(12,798)
2025	554,636	51,148	1800	0	52,948	25,891	25,891	308,100	282,209	352,136	(69,927)	(46,360)	(5,523)
2026	563,098	74,260	1800	0	76,060	37,193	37,193	309,863	272,670	331,766	(59,096)	(64,512)	(60,605)
2027	582,107	105,217	1800	0	107,017	52,331	52,331	321,965	269,033	345,751	(76,718)	(67,907)	(68,580)
2028	519,412	31,062	1800	0	32,862	16,069	16,069	293,473	277,404	339,660	(62,256)	(69,487)	(66,024)
2029	479,504	14,061	1800	0	15,861	7,756	7,756	271,656	263,900	327,196	(63,296)	(62,776)	(67,424)
2030	530,861	15,272	1800	0	17,072	8,348	8,348	296,982	288,614	336,644	(48,031)	(55,664)	(57,861)
2031	455,907	841	1800	0	2,641	1,291	1,291	254,391	253,099	351,739	(98,640)	(73,335)	(69,989)
2032	414,159	33,979	1800	0	35,779	17,496	17,496	232,040	214,545	357,790	(143,246)	(120,943)	(96,639)
2033	954,775	191,537	1800	0	193,337	94,542	94,542	511,696	417,154	385,888	(31,266)	(55,990)	(70,206)
2034	670,549	41,629	1800	0	43,429	21,237	21,237	366,243	345,007	343,500	(1,507)	(16,386)	(36,824)
2035	673,707	47,763	1800	0	49,563	24,236	24,236	367,187	342,950	370,267	(27,317)	(12,905)	(1,819)
2036	732,574	49,299	1800	0	51,099	24,987	24,987	397,739	372,751	369,984	(17,233)	(22,275)	(14,348)
2037	658,377	30,850	1800	0	32,650	15,966	15,966	362,893	346,917	359,929	(13,012)	(15,122)	(19,187)
2038	637,444	40,225	1800	0	42,025	20,550	20,550	352,322	349,132	349,132	(17,360)	(15,186)	(15,868)
2039	541,138	39,486	1800	0	41,286	20,189	20,189	305,515	285,327	368,792	(83,405)	(50,363)	(37,926)
2040	591,672	14,688	1800	0	16,488	8,063	8,063	335,682	327,619	341,214	(13,595)	(48,500)	(38,120)
Average	591,338	53,431	1,800	0	55,231	27,008	27,008	325,279	298,271	333,836	(35,565)	(34,637)	(33,714)
Max	954,775	191,537	1,800	0	193,337	94,542	94,542	511,696	417,154	389,984	(109,251)	(58,234)	(27,477)
Min	344,371	292	1,800	0	2,092	1,023	1,023	190,752	174,394	287,105	(165,055)	(128,403)	(96,639)
Median	563,118	40,679	1,800	0	42,479	20,772	20,772	310,234	283,768	337,782	(39,502)	(40,609)	(37,611)

\* Gain Guide Rock to Hardy = Hardy gage+ consumptive use ms GR-Hardy - Passing Guide Rock - return flows from Courland and Superior above Hardy-mound credit



**N.F. and Main Stem Republican (NB) Above Guide Rock for Water Short Years**  
**20% Reduction Depletions from surface water pumping held constant at the average of 1990-1994 Depletions**  
**N.F. and Main Stem Republican (NB) Above Guide F**

Year	Total VV's CY	Gain Guide Rock to Hardy*	Consumptive Use Guide Rock to Hardy	Mound Credit Guide Rock to Hardy	Virgin Water Supply Below Guide Rock Gain + CU	Nebraska Allocation Below Guide Rock	Nebraska Allocation Below Rock + Credit	Total Nebraska Allocation + Credit	Nebraska Allocation Above Guide Rock with Mound Credit	Consumptive Use Above Guide Rock - CU below	Allocation minus Consumptive Use	Compliance Two-Year Average	Compliance Three-Year Average
2001	344,798	31,702	1800	0	33,502	16,382	190,982	174,599	299,928	(125,329)	(84,146)	(15,373)	
2002	523,083	78,891	1800	0	80,691	39,458	288,050	248,592	271,555	(42,963)	(84,146)	(15,373)	
2003	823,434	75,556	1800	0	77,356	37,827	378,272	396,477	294,305	122,172	39,604	(15,373)	
2004	684,416	104,488	1800	0	106,288	51,975	365,004	313,029	291,353	21,676	71,924	39,843	
2005	535,382	50,808	1800	0	52,608	25,725	297,261	271,536	295,853	(24,317)	(1,321)	39,843	
2006	544,596	73,900	1800	0	75,700	37,017	298,939	261,921	283,720	(21,799)	(23,058)	(8,147)	
2007	562,698	104,882	1800	0	106,682	52,167	310,249	258,082	291,394	(33,312)	(27,555)	(26,476)	
2008	501,902	30,743	1800	0	32,543	15,914	282,800	266,886	287,988	(21,102)	(27,207)	(25,404)	
2009	458,894	13,830	1800	0	15,630	7,643	260,648	253,005	280,129	(27,124)	(24,113)	(27,179)	
2010	511,340	15,029	1800	0	16,829	8,229	286,316	278,087	288,690	(10,603)	(18,864)	(19,610)	
2011	437,659	596	1800	0	2,396	1,172	243,996	242,824	302,133	(59,309)	(34,956)	(32,345)	
2012	397,271	33,861	1800	0	35,661	17,438	221,885	204,447	307,242	(102,795)	(81,052)	(57,568)	
2013	940,364	191,383	1800	0	193,183	94,466	502,542	408,075	302,867	105,208	1,207	(18,965)	
2014	656,149	41,424	1800	0	43,224	21,137	359,920	338,784	285,650	53,134	79,171	18,516	
2015	688,162	47,676	1800	0	49,476	24,194	357,802	333,608	309,065	24,543	36,938	60,962	
2016	717,790	49,247	1800	0	51,047	24,962	388,628	363,666	317,047	46,619	35,581	41,432	
2017	643,396	30,763	1800	0	32,563	15,923	353,999	338,076	299,758	39,318	42,468	36,493	
2018	619,308	40,150	1800	0	41,950	20,514	342,459	321,946	296,024	25,921	32,119	36,953	
2019	524,896	39,429	1800	0	41,229	20,161	295,900	275,739	315,400	(39,661)	(6,870)	8,193	
2020	575,957	14,653	1800	0	16,453	8,046	325,906	317,860	289,224	28,636	4,966	4,966	
2021	375,991	32,830	1800	0	34,630	16,934	209,451	192,517	328,681	(136,164)	(53,764)	(49,063)	
2022	541,607	79,851	1800	0	81,651	39,927	299,270	259,343	314,337	(54,994)	(95,579)	(54,174)	
2023	840,864	76,469	1800	0	78,259	38,274	444,900	406,626	296,847	109,779	27,392	(21,126)	
2024	702,831	105,359	1800	0	107,159	52,401	375,933	323,533	315,288	8,245	59,012	21,010	
2025	554,999	51,646	1800	0	53,446	26,135	308,143	282,008	318,970	(36,962)	(14,359)	27,020	
2026	562,168	74,691	1800	0	76,491	37,404	309,150	271,746	306,770	(35,024)	(35,993)	(21,247)	
2027	581,337	105,650	1800	0	107,450	52,543	320,610	268,067	315,820	(47,753)	(41,389)	(39,913)	
2028	518,012	31,472	1800	0	33,272	16,270	292,420	276,150	312,056	(35,906)	(41,829)	(39,561)	
2029	477,279	14,554	1800	0	16,354	7,997	270,293	262,296	303,083	(40,787)	(38,346)	(41,482)	
2030	529,142	15,720	1800	0	17,520	8,567	295,783	287,215	311,797	(24,582)	(32,684)	(33,758)	
2031	453,904	1,242	1800	0	3,042	1,488	253,144	251,657	325,360	(73,704)	(49,143)	(46,357)	
2032	412,549	34,498	1800	0	36,298	17,750	230,860	213,110	329,881	(116,771)	(95,237)	(71,885)	
2033	955,375	192,016	1800	0	193,816	94,776	511,738	416,962	330,040	86,922	(14,924)	(34,518)	
2034	672,946	42,020	1800	0	43,820	21,428	369,057	347,629	307,693	39,936	63,429	3,362	
2035	672,969	48,249	1800	0	50,049	24,474	366,560	342,086	331,958	10,128	25,032	45,662	
2036	732,959	49,844	1800	0	51,644	25,254	397,606	372,352	342,407	29,945	20,036	26,670	
2037	657,888	31,339	1800	0	33,139	16,205	362,422	346,217	321,328	24,889	27,417	21,654	
2038	635,763	40,706	1800	0	42,506	20,785	351,130	330,345	316,009	14,336	19,612	23,056	
2039	539,322	39,968	1800	0	41,768	20,425	304,193	283,769	337,449	(53,681)	(19,672)	(4,819)	
2040	590,187	15,162	1800	0	16,962	8,294	334,538	326,244	308,305	17,939	(17,871)	(7,135)	
Average	591,741	53,807	1,800	0	55,607	27,192	325,370	298,178	307,085	(8,907)	(7,759)	(6,644)	
Max	955,375	192,016	1,800	0	193,816	94,776	511,738	416,962	342,407	122,172	79,171	60,962	
Min	344,798	596	1,800	0	2,396	1,172	190,982	174,599	274,305	(136,164)	(95,579)	(71,685)	
Median	562,433	41,065	1,800	0	42,865	20,961	309,700	282,988	307,468	(21,450)	(14,924)	(11,760)	

\* Gain Guide Rock to Hardy = Hardy gage+ consumptive use ms GR-Hardy - Passing Guide Rock - return flows from Courtland and Superior above Hardy-mound credit



N.F. and Main Stem Republican (NB) Above Guide Rock for Water Short Years  
 40% Reduction Depletions from surface water pumping held constant at the average of 1990-1994 Depletions  
 N.F. and Main Stem Republican (NB) Above Guide F

Year	Total VWS CY AF/year	Gain Guide Rock to Hardy*	Consumptive Use Guide Rock to Hardy	Mound Credit Guide Rock to Hardy	Virgin Water Supply Below Guide Rock Gain + CU	Nebraska Allocation Below Guide Rock	Nebraska Allocation Below Rock + Credit	Total Nebraska Allocation + Credit	Nebraska Allocation Above Guide Rock with Mound Credit	Consumptive Use Above Guide Rock Total CU - CU below	Allocation minus Consumptive Use	Compliance Two-Year Average	Compliance Three-Year Average
2001	345,115	31,746	1800	0	33,546	16,404	191,138	174,733	295,957	(121,224)			
2002	523,361	79,001	1800	0	80,801	39,512	288,186	248,674	282,523	(33,849)	(77,536)		
2003	823,570	75,714	1800	0	77,514	37,904	434,331	396,426	263,974	(33,452)	49,302	(7,540)	
2004	684,381	104,933	1800	0	106,433	52,046	364,970	312,924	277,949	(34,975)	83,713	44,526	
2005	535,660	51,014	1800	0	52,814	25,826	297,371	271,803	266,450	(4,353)	53,723	7,947	
2006	544,239	74,074	1800	0	75,874	37,102	298,678	261,576	271,291	(13,510)	(9,192)	(8,214)	
2007	562,493	105,071	1800	0	106,871	52,260	310,041	257,781	267,950	(1,169)	(7,483)	(6,613)	
2008	501,488	30,954	1800	0	32,754	16,017	282,512	266,495	260,086	(7,409)	(4,445)	(7,466)	
2009	458,727	14,094	1800	0	15,894	7,772	260,424	252,652	277,295	(24,643)	1,954	817	
2010	510,197	15,273	1800	0	17,073	8,349	285,644	277,295	277,295	0	0	0	
2011	436,641	842	1800	0	2,642	1,292	243,312	242,020	278,127	(36,107)	(12,383)	(10,733)	
2012	396,385	34,132	1800	0	35,932	17,571	221,281	203,710	278,900	(75,190)	(55,649)	(33,319)	
2013	940,474	191,612	1800	0	193,412	94,578	502,463	407,885	271,153	(136,732)	30,771	8,478	
2014	656,129	41,625	1800	0	43,425	21,235	359,800	338,565	261,347	(77,218)	106,975	46,253	
2015	658,034	47,967	1800	0	49,767	24,336	357,594	333,257	277,596	(55,661)	66,440	89,870	
2016	718,104	49,592	1800	0	51,392	25,130	388,623	363,493	270,914	(93,579)	69,387	71,997	
2017	643,342	31,075	1800	0	32,875	16,076	363,837	337,761	270,914	(66,847)	74,980	68,540	
2018	618,998	40,444	1800	0	42,244	20,657	342,164	321,507	285,761	(35,746)	61,296	68,569	
2019	524,826	39,738	1800	0	41,538	20,312	295,609	275,297	280,435	(4,138)	25,304	39,151	
2020	575,102	14,961	1800	0	16,781	8,206	325,370	317,164	261,452	(55,712)	25,287	35,440	
2021	375,584	33,157	1800	0	34,957	17,094	208,954	191,861	288,841	(96,981)	(20,634)	(15,469)	
2022	541,701	80,172	1800	0	81,972	40,085	299,140	259,056	277,127	(18,071)	(57,526)	(19,780)	
2023	840,518	76,806	1800	0	78,606	38,439	444,551	406,112	262,700	(143,412)	62,671	9,453	
2024	702,592	105,662	1800	0	107,462	52,549	375,606	323,057	279,437	(43,620)	93,516	56,320	
2025	554,446	52,022	1800	0	53,822	26,319	307,678	281,359	279,724	(1,635)	22,627	62,889	
2026	561,657	75,026	1800	0	76,826	37,568	308,644	271,076	271,297	(221)	707	15,011	
2027	580,633	105,988	1800	0	107,788	52,708	319,986	267,278	274,156	(8,878)	(4,550)	(2,488)	
2028	517,514	31,803	1800	0	33,603	16,432	291,904	275,472	274,404	(1,068)	(3,905)	(2,677)	
2029	476,321	14,917	1800	0	16,717	8,175	269,534	261,359	267,874	(4,515)	(2,724)	(4,775)	
2030	527,957	16,073	1800	0	17,873	8,740	294,971	286,231	274,099	(12,131)	2,808	2,228	
2031	452,236	1,580	1800	0	3,380	1,653	251,980	250,327	287,819	(37,492)	(12,681)	(10,625)	
2032	411,224	34,881	1800	0	36,681	17,937	229,904	211,967	286,800	(74,833)	(56,163)	(33,398)	
2033	955,227	192,352	1800	0	194,152	94,940	511,421	416,481	279,508	(136,873)	31,020	8,183	
2034	672,780	42,313	1800	0	44,113	21,571	368,774	347,202	269,518	(77,684)	107,279	46,575	
2035	672,672	48,630	1800	0	50,430	24,660	366,158	341,498	286,591	(54,907)	66,296	89,821	
2036	732,504	50,255	1800	0	52,055	25,455	397,097	371,642	290,261	(81,381)	60,144	71,324	
2037	657,313	31,702	1800	0	33,502	16,383	361,914	345,531	280,494	(65,037)	73,209	67,108	
2038	634,012	41,084	1800	0	42,884	20,956	350,044	329,088	275,086	(54,002)	59,519	66,807	
2039	538,826	40,314	1800	0	42,114	20,594	303,578	282,984	291,116	(8,132)	22,935	36,969	
2040	588,320	15,550	1800	0	17,350	8,484	333,355	324,871	270,902	(53,969)	22,919	33,280	
Average	591,283	54,096	1,800	0	55,896	27,333	324,963	297,630	275,646	(21,984)	23,410	24,689	
Max	955,227	192,352	1,800	0	194,152	94,940	511,421	416,481	295,957	(143,412)	107,279	89,870	
Min	345,115	842	1,800	0	2,642	1,292	191,138	174,733	260,086	(121,224)	(77,536)	(33,398)	
Median	562,075	41,339	1,800	0	43,139	21,095	309,342	282,172	276,642	(6,488)	22,919	12,232	

\* Gain Guide Rock to Hardy = Hardy gage+ consumptive use ms GR-Hardy - Passing Guide Rock - return flows from Courland and Superior above Hardy-mound credit





N.F. and Main Stem Republican (NB) Above Guide Rock for Water Short Years  
 25% Reduction One-Mile From Stream

Year	Total VWs CY AF/year	Gain Guide Rock to Hardy*	Consumptive Use Guide Rock to Hardy	Mound Credit Guide Rock to Hardy	Virgin Water Supply Below Guide Rock Gain + CU	Nebraska Allocation Below Guide Rock	Nebraska Allocation Below Rock + Credit	Total Nebraska Allocation + Credit	Nebraska Allocation Above Guide Rock with Mound Credit	Consumptive Use Above Guide Rock Total CU - CU below	Allocation minus Consumptive Use	Compliance Two-Year Average	Compliance Three-Year Average
2001	350,129	31,711	1800	0	33,511	16,387	16,387	177,938	304,381	(126,443)			
2002	535,825	78,922	1800	0	80,722	39,473	39,473	295,444	302,345	(46,374)	(86,409)		
2003	838,086	75,597	1800	0	77,397	37,847	37,847	442,617	287,105	117,665	85,645	(18,384)	
2004	700,501	104,527	1800	0	106,327	51,994	51,994	374,423	322,429	305,723	16,706	67,185	
2005	556,562	50,865	1800	0	52,665	25,753	25,753	309,160	283,406	(31,439)	(7,367)	34,310	
2006	562,180	73,949	1800	0	75,749	37,041	37,041	309,355	272,313	(300,116)	(29,621)	(14,179)	
2007	564,395	104,933	1800	0	106,733	52,192	52,192	323,077	270,885	(41,984)	(34,893)	(33,742)	
2008	522,087	30,805	1800	0	32,605	15,944	15,944	294,670	278,726	(308,188)	(29,462)	(33,083)	
2009	475,266	13,903	1800	0	15,703	7,679	7,679	270,379	262,700	(34,309)	(31,885)	(35,252)	
2010	527,965	15,098	1800	0	16,898	8,263	8,263	296,039	287,776	(306,175)	(18,399)	(27,390)	
2011	454,822	679	1800	0	2,479	1,212	1,212	254,651	253,439	(320,342)	(66,903)	(42,651)	
2012	415,755	33,932	1800	0	35,732	17,473	17,473	232,779	327,893	(112,587)	(89,745)	(65,963)	
2013	978,458	191,451	1800	0	193,251	94,500	94,500	522,952	428,432	344,570	83,882	(14,353)	
2014	678,993	41,484	1800	0	43,284	21,166	21,166	372,806	348,421	311,604	40,035	61,958	
2015	684,920	47,757	1800	0	49,557	24,234	24,234	372,654	382,920	355,594	26,902	18,201	
2016	752,285	49,360	1800	0	51,160	25,017	25,017	407,513	382,920	351,639	9,501	24,768	
2017	668,111	30,849	1800	0	32,649	15,965	15,965	367,795	351,829	328,388	23,441	25,479	
2018	641,748	40,237	1800	0	42,037	20,556	20,556	354,868	334,312	322,508	11,804	19,948	
2019	545,170	39,520	1800	0	41,320	20,206	20,206	308,141	287,935	340,109	(52,174)	(20,185)	
2020	598,490	14,761	1800	0	16,561	8,098	8,098	338,031	329,932	316,686	13,246	(9,041)	
2021	401,182	32,927	1800	0	34,727	16,982	16,982	224,384	207,402	358,377	(150,975)	(68,864)	
2022	571,309	79,941	1800	0	81,741	39,971	39,971	315,484	275,513	351,324	(75,811)	(113,393)	
2023	867,618	76,562	1800	0	78,362	38,319	38,319	459,371	421,051	331,053	89,998	7,093	
2024	728,014	105,459	1800	0	107,259	52,450	52,450	390,123	337,673	347,098	(9,425)	40,287	
2025	582,235	51,745	1800	0	53,545	26,184	26,184	322,987	296,803	352,136	(55,333)	8,414	
2026	581,945	74,787	1800	0	76,587	37,451	37,451	320,607	283,156	331,766	(48,610)	(51,971)	
2027	604,518	105,745	1800	0	107,545	52,589	52,589	333,937	281,347	345,751	(56,507)	(56,116)	
2028	538,829	31,585	1800	0	33,385	16,325	16,325	304,602	288,277	339,680	(51,384)	(54,799)	
2029	495,321	14,668	1800	0	16,468	8,053	8,053	280,741	272,689	327,196	(54,508)	(56,765)	
2030	547,432	15,822	1800	0	17,622	8,617	8,617	306,285	297,668	336,644	(38,977)	(46,742)	
2031	474,329	1,363	1800	0	3,169	1,547	1,547	265,286	263,749	351,739	(87,990)	(63,483)	
2032	432,472	34,608	1800	0	36,408	17,803	17,803	242,756	224,952	357,790	(132,838)	(110,414)	
2033	999,724	192,100	1800	0	193,900	94,817	94,817	535,127	440,309	385,888	54,421	(39,208)	
2034	699,174	42,127	1800	0	43,927	21,480	21,480	383,216	361,736	343,500	18,236	36,328	
2035	702,239	48,360	1800	0	50,160	24,528	24,528	382,700	358,172	370,267	(12,095)	3,070	
2036	768,938	49,936	1800	0	51,786	25,299	25,299	417,352	392,052	389,984	2,068	(5,013)	
2037	686,563	31,449	1800	0	33,249	16,259	16,259	377,828	361,569	359,929	1,640	1,854	
2038	659,797	40,813	1800	0	42,613	20,838	20,838	364,608	349,132	349,132	(5,363)	(1,861)	
2039	560,751	40,083	1800	0	41,883	20,481	20,481	317,051	296,570	368,792	(72,162)	(38,762)	
2040	613,027	15,294	1800	0	17,094	8,359	8,359	347,142	338,783	341,214	(2,431)	(37,297)	
Average	614,679	53,893	1,800	0	55,693	27,234	27,234	338,332	311,098	334,614	(23,516)	(22,467)	
Max	999,724	192,100	1,800	0	193,900	94,817	94,817	535,127	440,309	389,984	17,665	67,185	
Min	350,129	679	1,800	0	2,479	1,212	1,212	194,325	177,938	287,105	(150,975)	(113,393)	
Median	583,315	41,149	1,800	0	42,949	21,002	21,002	323,032	296,687	337,782	(28,632)	(29,621)	

\* Gain Guide Rock to Hardy = Hardy gage+ consumptive use ms GR-Hardy - Passing Guide Rock - return flows from Courland and Superior above Hardy-mound credit



N.F. and Main Stem Republican (NB) Above Guide Rock for Water Short Years  
 Reduced by 10% 2002, 20% 2011, 30% 2021 and 40% 2031

N.F. and Main Stem Republican (NB) Above Guide F

Year	Total VWS CY AF/year	Gain Guide Rock to Hardy*	Consumptive Use Guide Rock to Hardy	Mound Credit Guide Rock to Hardy	Virgin Water Supply Below Guide Rock Gain + CU	Nebraska Allocation Below Guide Rock	Nebraska Allocation Below Rock + Credit	Total Nebraska Allocation + Credit	Nebraska Allocation Above Guide Rock with Mound Credit	Consumptive Use Above Guide Rock Total CU - CU below	Allocation minus Consumptive Use	Compliance Two-Year Average	Compliance Three-Year Average
2001	344,560	31,679	1800	0	33,479	16,371	190,858	174,487	301,809	(127,322)			
2002	522,972	78,838	1800	0	80,638	39,432	287,997	248,565	295,782	(47,217)	(87,270)		
2003	823,362	75,481	1800	0	77,281	37,791	434,224	396,433	279,482	116,951	34,867	(19,196)	
2004	684,402	104,425	1800	0	106,225	51,944	365,010	313,066	297,565	15,501	66,226	28,412	
2005	535,619	50,705	1800	0	52,505	25,675	297,366	271,691	304,169	(32,478)	(8,489)	33,325	
2006	544,498	79,802	1800	0	75,602	36,969	298,903	261,934	292,032	(30,099)	(31,288)	(15,692)	
2007	562,853	104,779	1800	0	106,579	52,117	310,403	258,286	301,381	(43,095)	(36,597)	(35,224)	
2008	501,810	30,639	1800	0	32,439	15,863	282,801	266,938	297,176	(30,238)	(36,666)	(34,477)	
2009	459,406	13,704	1800	0	15,504	7,581	260,972	288,640	288,640	(35,249)	(32,744)	(36,194)	
2010	511,649	14,925	1800	0	16,725	8,179	286,490	278,311	297,868	(19,557)	(27,403)	(28,348)	
2011	438,226	488	1800	0	2,288	1,119	244,396	243,277	309,840	(66,563)	(43,060)	(40,456)	
2012	397,579	33,789	1800	0	35,589	17,403	222,099	204,696	315,656	(110,960)	(88,762)	(65,693)	
2013	940,317	191,317	1800	0	193,117	94,434	502,568	408,134	313,900	94,234	(8,363)	(27,763)	
2014	656,274	41,365	1800	0	43,165	21,108	360,024	338,916	315,726	22,190	70,373	9,928	
2015	658,231	47,623	1800	0	50,999	24,939	388,724	363,785	324,671	39,114	28,582	34,588	
2016	717,886	49,199	1800	0	50,999	24,939	388,724	363,785	324,671	39,114	28,582	34,588	
2017	643,861	30,727	1800	0	32,527	15,906	354,269	322,157	300,874	21,283	27,384	31,294	
2018	619,613	40,106	1800	0	41,906	20,492	342,649	275,916	320,105	(44,189)	(11,453)	3,527	
2019	525,109	39,393	1800	0	41,193	20,143	296,059	318,069	293,549	24,519	(9,835)	538	
2020	576,251	14,621	1800	0	16,421	8,030	326,098	192,692	331,308	(138,616)	(57,048)	(52,762)	
2021	376,252	32,818	1800	0	34,618	16,928	209,620	259,537	315,162	(55,625)	(97,120)	(56,574)	
2022	541,952	79,875	1800	0	81,675	39,939	299,476	286,931	310,130	(30,817)	(31,723)	(17,655)	
2023	841,057	76,512	1800	0	78,312	38,295	445,031	406,736	296,353	110,383	(36,401)	(35,143)	
2024	703,016	105,408	1800	0	107,208	52,425	376,053	323,629	313,147	10,481	(36,013)	(34,281)	
2025	555,393	51,723	1800	0	53,523	26,173	308,350	282,177	314,806	(32,629)	(11,074)	29,412	
2026	562,304	74,757	1800	0	76,557	37,436	309,201	271,765	302,581	(30,817)	(31,723)	(17,655)	
2027	581,626	105,725	1800	0	107,525	52,580	320,725	268,145	310,130	(41,985)	(36,401)	(35,143)	
2028	518,083	31,563	1800	0	33,363	16,315	292,434	276,119	306,161	(30,042)	(36,013)	(34,281)	
2029	477,147	14,660	1800	0	16,460	8,049	270,201	262,152	297,469	(35,317)	(32,680)	(35,781)	
2030	528,747	15,822	1800	0	17,622	8,617	295,608	286,931	305,026	(18,036)	(26,676)	(27,798)	
2031	453,816	1,401	1800	0	3,201	1,555	253,022	251,456	316,078	(64,622)	(41,328)	(39,325)	
2032	412,253	34,878	1800	0	36,678	17,936	230,596	212,660	310,989	(98,329)	(61,475)	(60,329)	
2033	955,985	192,236	1800	0	194,036	94,893	512,016	417,133	305,890	111,243	6,457	(17,236)	
2034	673,292	42,118	1800	0	43,918	21,476	369,181	347,705	294,071	53,634	82,438	22,189	
2035	673,139	48,437	1800	0	50,237	24,566	366,522	341,956	313,210	28,746	41,190	64,541	
2036	733,126	50,133	1800	0	51,933	25,395	397,618	372,222	315,813	56,409	42,578	46,263	
2037	658,253	31,597	1800	0	33,397	16,331	362,525	346,194	302,593	43,601	50,005	42,919	
2038	635,102	40,989	1800	0	42,789	20,924	350,710	329,786	296,420	33,366	38,483	44,459	
2039	539,823	40,218	1800	0	42,018	20,547	304,242	283,695	312,771	(29,076)	2,145	15,964	
2040	589,319	15,415	1800	0	17,215	8,418	333,980	325,562	289,028	36,534	3,729	13,608	
Average	591,854	53,847	1,800	0	55,647	27,211	325,423	298,211	304,913	(6,702)	(5,710)	(4,793)	
Max	955,985	192,236	1,800	0	194,036	94,893	512,016	417,133	331,308	116,951	82,438	64,541	
Min	344,560	488	1,800	0	2,288	1,119	190,858	174,487	279,482	(138,616)	(97,120)	(65,693)	
Median	562,578	41,177	1,800	0	42,977	21,016	309,802	282,936	304,523	(24,317)	(9,835)	(16,464)	

\* Gain Guide Rock to Hardy = Hardy gage+ consumptive use ms GR-Hardy - Passing Guide Rock - return flows from Courtland and Superior above Hardy-mound credit



**N.F. and Main Stem Republican (NB) Above Guide Rock for Water Short Years**  
 Reduce pumping by 10% Everywhere and an additional 25% within one mile of stream

Year	Total VWs CY AF/year	Gain Guide Rock to Hardy*	Consumptive Use Guide Rock to Hardy	Virgin Water Supply Below Guide Rock Gain + CU	Nebraska Allocation Below Guide Rock	Nebraska Allocation Below Rock + Credit	Total Nebraska Allocation + Credit	Nebraska Allocation Above Guide Rock with Mound Credit	Consumptive Use Above Guide Rock Total CU - CU below	Allocation minus Consumptive Use	Compliance Two-Year Average	Compliance Three-Year Average
2001	345,089	31,736	1800	33,536	16,399	16,399	191,124	174,725	297,464	(122,740)		
2002	523,370	78,974	1800	80,774	39,499	39,499	288,193	248,694	286,063	(37,369)	(80,054)	
2003	823,708	75,683	1800	77,483	37,889	37,889	434,410	378,521	268,333	128,188	45,409	(10,640)
2004	684,564	104,601	1800	106,401	52,030	52,030	365,079	313,049	284,000	29,049	78,618	39,956
2005	535,850	50,961	1800	52,761	25,800	25,800	297,496	271,696	286,434	(14,738)	7,155	47,499
2006	544,516	74,040	1800	75,840	37,086	37,086	298,967	261,781	275,542	(13,761)	(14,250)	183
2007	562,666	105,021	1800	106,821	52,235	52,235	310,205	297,970	282,306	(24,336)	(19,049)	(17,612)
2008	501,938	30,904	1800	32,704	15,992	15,992	282,810	266,818	279,670	(12,952)	(18,594)	(16,983)
2009	459,292	14,022	1800	15,822	7,737	7,737	260,807	253,070	272,624	(19,554)	(16,203)	(18,914)
2010	511,185	15,205	1800	17,005	8,315	8,315	286,231	277,915	280,410	(2,495)	(11,025)	(11,634)
2011	437,341	782	1800	2,582	1,263	1,263	243,779	242,516	294,113	(51,597)	(27,046)	(24,549)
2012	396,932	34,068	1800	35,868	17,539	17,539	221,694	204,155	297,432	(93,277)	(72,437)	(49,123)
2013	940,994	191,554	1800	193,354	94,550	94,550	502,956	408,306	292,297	116,008	11,366	(9,622)
2014	656,584	41,591	1800	43,391	21,218	21,218	360,150	338,931	279,460	59,471	87,740	27,401
2015	688,828	47,900	1800	49,700	24,303	24,303	358,137	333,834	299,534	34,299	46,885	69,926
2016	718,576	49,512	1800	51,312	25,091	25,091	389,026	363,935	305,373	58,562	46,431	50,778
2017	643,769	30,999	1800	32,799	16,039	16,039	354,199	338,160	292,737	45,423	51,992	46,095
2018	619,916	40,379	1800	42,179	20,625	20,625	342,775	322,150	288,214	33,936	39,680	45,974
2019	525,353	39,667	1800	41,467	20,278	20,278	296,066	275,809	307,078	(31,269)	1,333	16,030
2020	576,134	14,915	1800	16,715	8,174	8,174	326,067	317,894	283,482	34,411	1,571	12,359
2021	376,406	33,094	1800	34,894	17,063	17,063	209,614	192,551	318,961	(126,410)	(45,999)	(41,089)
2022	542,540	80,096	1800	81,896	40,047	40,047	299,779	289,732	306,027	(46,295)	(86,353)	(46,098)
2023	841,435	76,727	1800	78,527	38,399	38,399	445,221	406,821	290,384	116,437	35,071	(18,756)
2024	703,567	105,603	1800	107,403	52,520	52,520	376,338	323,812	308,188	15,624	66,031	28,589
2025	555,705	51,921	1800	53,721	26,269	26,269	308,530	282,260	300,380	(28,421)	(28,408)	(13,730)
2026	582,846	74,939	1800	76,739	37,525	37,525	309,484	271,959	308,741	(40,437)	(34,429)	(32,418)
2027	582,069	105,904	1800	107,704	52,667	52,667	320,971	266,304	305,616	(29,224)	(34,831)	(32,694)
2028	518,725	31,743	1800	33,543	16,402	16,402	292,795	276,392	298,040	(35,667)	(32,446)	(35,109)
2029	477,682	14,834	1800	16,634	8,134	8,134	270,507	262,373	306,101	(18,915)	(27,291)	(27,935)
2030	529,194	15,985	1800	17,785	8,697	8,697	295,893	287,186	306,178	(68,514)	(43,715)	(41,032)
2031	454,257	1,525	1800	3,325	1,626	1,626	253,289	251,664	320,178	(109,557)	(89,035)	(65,662)
2032	412,746	34,788	1800	36,588	17,892	17,892	230,985	213,094	322,650	(109,557)	(89,035)	(65,662)
2033	956,451	192,263	1800	194,063	94,897	94,897	512,316	471,419	322,510	94,908	(7,324)	(27,721)
2034	673,990	42,266	1800	44,066	21,548	21,548	369,648	348,099	303,762	44,337	69,623	9,896
2035	673,832	48,541	1800	50,341	24,617	24,617	367,041	342,425	325,050	17,375	30,856	52,207
2036	733,737	50,150	1800	51,950	25,404	25,404	398,021	372,617	334,141	38,476	27,925	33,996
2037	658,900	31,642	1800	33,442	16,353	16,353	363,004	346,651	316,945	29,706	34,091	28,519
2038	636,253	40,990	1800	42,790	20,924	20,924	351,465	330,541	310,644	19,897	24,802	29,360
2039	540,381	40,261	1800	42,061	20,568	20,568	304,706	284,138	331,943	(47,805)	599	
2040	590,648	15,481	1800	17,281	8,451	8,451	334,837	326,387	304,431	21,956	(12,925)	(1,984)
Average	592,199	54,032	1,800	55,832	27,302	27,302	325,611	298,309	299,948	(1,639)	(369)	790
Max	956,451	192,263	1,800	194,063	94,897	94,897	512,316	471,419	303,762	128,188	87,740	69,926
Min	345,089	782	1,800	2,582	1,263	1,263	191,124	174,725	268,333	(126,410)	(89,035)	(65,662)
Median	562,756	41,291	1,800	43,091	21,071	21,071	309,845	283,199	299,957	(13,306)	(7,324)	(5,803)

\* Gain Guide Rock to Hardy = Hardy gage+ consumptive use ms GR-Hardy - Passing Guide Rock - return flows from Courtland and Superior above Hardy-mound credit

**N.F. and Main Stem Republican (NB) Above Guide Rock for Water Short Years**  
**Reduce pumping by 10% Everywhere and an additional 50% within one mile of stream**  
**N.F. and Main Stem Republican (NB) Above Guide Rock - return flows from Courtland and Superior above Hardy-mound credit**

Year	Total VVs CY	Gain Guide Rock to Hardy*	Consumptive Use Guide Rock to Hardy	Mound Credit Guide Rock to Hardy	Virgin Water Supply Below Guide Rock Gain + CU	Nebraska Allocation Below Guide Rock	Nebraska Allocation Below Rock + Credit	Total Nebraska Allocation + Credit	Nebraska Allocation Above Guide Rock with Mound Credit	Consumptive Use Above Guide Rock Total CU - CU below	Allocation minus Consumptive Use	Compliance Two-Year Average	Compliance Three-Year Average
2001	154,678	31,786	1800	0	33,586	16,424	16,424	76,434	60,011	102,012	(42,002)		
2002	364,762	79,100	1800	0	80,900	39,560	39,560	190,882	151,322	116,819	34,503	(3,749)	
2003	685,638	75,935	1800	0	77,635	37,964	37,964	348,167	310,204	119,689	190,515	112,509	61,005
2004	541,437	104,761	1800	0	106,561	52,109	52,109	277,244	225,135	126,288	144,681	107,955	107,955
2005	405,631	51,185	1800	0	52,985	25,910	25,910	216,402	190,492	137,114	53,378	76,113	114,247
2006	417,964	74,239	1800	0	76,039	37,183	37,183	220,341	183,158	131,735	51,423	52,401	67,883
2007	439,496	105,219	1800	0	107,019	52,332	52,332	233,697	181,365	139,789	41,576	46,499	48,792
2008	377,522	31,146	1800	0	32,946	16,111	16,111	205,509	189,398	137,038	52,360	46,968	48,483
2009	337,074	14,313	1800	0	16,113	7,879	7,879	184,450	176,571	132,715	43,856	48,108	45,931
2010	386,844	15,481	1800	0	17,281	8,450	8,450	208,283	199,932	136,345	63,487	53,672	59,295
2011	302,953	1,060	1800	0	2,860	1,398	1,398	161,776	160,377	138,281	22,096	42,792	43,146
2012	269,087	34,374	1800	0	36,174	17,689	17,689	142,543	124,854	145,098	(20,245)	926	21,780
2013	838,384	191,818	1800	0	193,618	94,679	94,679	435,770	341,091	165,889	175,202	77,479	59,018
2014	537,885	41,833	1800	0	43,633	21,337	21,337	284,872	263,535	141,081	122,454	148,828	92,470
2015	539,356	48,232	1800	0	50,032	24,466	24,466	282,645	258,179	154,682	103,497	112,975	133,718
2016	610,123	49,875	1800	0	51,675	25,269	25,269	319,069	293,800	168,469	125,331	114,414	117,094
2017	521,741	31,354	1800	0	33,154	16,212	16,212	276,853	260,641	147,844	112,796	119,063	113,875
2018	500,410	40,719	1800	0	42,519	20,792	20,792	266,287	245,495	146,679	98,816	105,806	112,314
2019	396,234	40,016	1800	0	41,816	20,448	20,448	216,052	195,604	150,311	45,293	72,055	85,635
2020	454,233	15,287	1800	0	17,087	8,356	8,356	247,220	238,864	142,446	96,418	70,855	80,176
2021	249,587	33,477	1800	0	35,277	17,250	17,250	130,705	113,454	160,630	(47,176)	24,621	31,512
2022	423,664	80,458	1800	0	82,258	40,224	40,224	223,582	183,358	161,080	22,278	(12,449)	23,840
2023	728,369	171,132	1800	0	176,932	38,598	38,598	371,474	332,876	153,817	179,059	100,669	51,387
2024	574,136	105,964	1800	0	107,764	52,697	52,697	294,796	242,099	153,724	88,375	133,717	96,571
2025	430,702	52,341	1800	0	54,141	26,475	26,475	228,508	202,033	158,745	43,288	65,831	103,574
2026	431,710	75,326	1800	0	77,126	37,715	37,715	226,802	189,087	145,357	43,730	43,509	58,464
2027	454,314	106,295	1800	0	108,095	52,859	52,859	240,244	187,385	154,140	33,245	38,488	40,088
2028	386,010	32,138	1800	0	33,938	16,596	16,596	209,433	192,837	148,569	44,268	38,757	40,415
2029	344,496	15,263	1800	0	17,063	8,344	8,344	186,379	178,035	142,180	35,855	40,062	37,789
2030	392,034	16,390	1800	0	18,190	8,895	8,895	209,115	200,220	144,975	55,245	45,550	45,123
2031	305,142	1,923	1800	0	3,723	1,821	1,821	161,474	159,653	146,894	12,759	34,002	34,620
2032	268,747	35,209	1800	0	37,009	18,097	18,097	141,566	123,469	152,199	(28,730)	(7,986)	13,091
2033	847,839	192,645	1800	0	194,445	95,084	95,084	439,820	344,737	183,546	161,190	66,230	48,406
2034	543,599	42,591	1800	0	44,391	21,707	21,707	285,804	264,097	151,570	112,527	136,859	81,662
2035	541,286	48,977	1800	0	50,777	24,830	24,830	282,434	257,603	163,590	94,013	103,270	122,577
2036	610,731	50,620	1800	0	52,420	25,633	25,633	318,508	292,875	178,422	114,453	104,233	106,998
2037	524,265	32,076	1800	0	33,876	16,566	16,566	276,542	259,976	157,586	102,390	108,421	103,619
2038	501,044	41,416	1800	0	43,216	21,133	21,133	264,802	243,669	152,369	91,280	96,835	102,707
2039	391,943	40,674	1800	0	42,474	20,770	20,770	212,447	191,677	155,190	36,487	63,883	76,719
2040	452,268	15,920	1800	0	17,720	8,665	8,665	245,690	237,024	146,903	90,121	63,304	72,629
Average	462,084	54,362	1,800	0	56,162	27,463	27,463	243,615	216,152	147,296	68,856	70,005	71,014
Max	847,839	192,645	1,800	0	194,445	95,084	95,084	439,820	344,737	183,546	161,190	148,828	133,718
Min	154,678	1,060	1,800	0	2,860	1,398	1,398	76,434	60,011	102,012	(47,176)	(12,449)	13,091
Median	435,603	41,625	1,800	0	43,435	21,235	21,235	231,102	200,026	147,374	54,311	65,631	64,444

\* Gain Guide Rock to Hardy = Hardy gage+ consumptive use ms GR-Hardy - Passing Guide Rock - return flows from Courtland and Superior above Hardy-mound credit







**N.F. and Main Stem Republican (NB) Above Guide Rock for Water Short Years**  
**20% Reduction all wells 25% reduction within one mile of stream**

**N.F. and Main Stem Republican (NB) Above Guide F**

Year	Total VWS CY AF/year	Gain Guide Rock to Hardy*	Consumptive Use Guide Rock to Hardy	Mound Credit Guide Rock to Hardy	Virgin Water Supply Below Guide Rock Gain + CU	Nebraska Allocation Below Guide Rock	Nebraska Allocation Below Rock + Credit	Nebraska Allocation Below Rock + Credit	Total Nebraska Allocation + Credit	Nebraska Allocation Above Guide Rock with Mound Credit	Consumptive Use Above Guide Rock Total CU - CU below	Allocation minus Consumptive Use	Compliance Two-Year Average	Compliance Three-Year Average
2001	345,144	31,747	1800	0	33,547	16,404	16,404	191,154	174,750	296,006	(121,256)			
2002	523,413	79,003	1800	0	80,803	39,513	39,513	288,218	248,706	282,858	(34,152)	(77,704)		
2003	823,654	75,716	1800	0	77,516	37,905	37,905	376,905	396,479	264,753	131,726	48,787	(7,894)	
2004	684,534	104,635	1800	0	106,435	52,047	52,047	365,063	313,017	279,286	33,730	82,728	43,768	
2005	535,824	51,017	1800	0	52,817	25,828	25,828	297,878	271,651	279,891	(8,241)	12,745	52,405	
2006	544,447	74,089	1800	0	75,889	37,110	37,110	298,417	261,707	269,183	(7,476)	(7,858)	6,005	
2007	582,825	105,074	1800	0	106,874	52,261	52,261	310,252	257,991	274,837	(16,846)	(12,161)	(10,854)	
2008	501,779	30,961	1800	0	32,781	16,020	16,020	282,710	266,690	272,218	(5,528)	(11,187)	(9,950)	
2009	489,043	14,095	1800	0	15,895	7,773	7,773	260,640	252,867	265,055	(12,188)	(8,858)	(11,521)	
2010	510,652	15,276	1800	0	17,076	8,350	8,350	260,640	271,624	271,624	5,954	(3,117)	(3,921)	
2011	437,084	852	1800	0	2,652	1,297	1,297	243,612	242,315	284,607	(42,292)	(18,169)	(16,175)	
2012	396,868	34,142	1800	0	35,942	17,576	17,576	221,610	204,034	286,663	(82,629)	(62,460)	(39,655)	
2013	940,923	191,620	1800	0	193,420	94,582	94,582	502,778	408,196	280,712	127,484	22,428	854	
2014	656,529	41,637	1800	0	43,437	21,241	21,241	360,091	333,669	269,891	68,960	98,222	37,938	
2015	658,657	47,975	1800	0	49,775	24,340	24,340	358,010	333,669	287,400	46,269	57,615	80,904	
2016	718,608	49,599	1800	0	51,399	25,134	25,134	388,987	363,853	291,758	72,095	59,182	62,441	
2017	643,830	31,078	1800	0	32,878	16,077	16,077	354,191	338,114	281,939	56,714	64,405	58,360	
2018	619,719	40,451	1800	0	42,251	20,661	20,661	342,633	321,973	276,739	45,233	50,974	58,014	
2019	525,211	39,743	1800	0	41,543	20,315	20,315	295,935	275,621	293,440	(17,820)	13,707	28,043	
2020	575,933	14,991	1800	0	16,791	8,211	8,211	325,918	317,707	272,845	44,862	13,521	24,092	
2021	376,221	33,171	1800	0	34,971	17,101	17,101	209,432	192,331	303,372	(111,041)	(33,090)	(28,000)	
2022	542,430	80,176	1800	0	81,976	40,086	40,086	299,661	259,575	291,434	(31,859)	(71,450)	(32,680)	
2023	841,262	76,827	1800	0	78,627	38,449	38,449	445,071	406,622	276,804	129,818	48,979	(4,361)	
2024	703,348	105,684	1800	0	107,484	52,560	52,560	323,590	323,590	294,482	29,108	79,463	42,356	
2025	555,188	52,029	1800	0	53,829	26,323	26,323	308,210	281,888	295,596	(13,709)	7,700	48,406	
2026	562,663	75,039	1800	0	76,839	37,574	37,574	309,309	271,735	286,709	(14,974)	(14,341)	142	
2027	581,615	106,005	1800	0	107,805	52,717	52,717	320,652	267,935	293,175	(25,240)	(20,107)	(17,974)	
2028	518,356	31,890	1800	0	33,690	16,445	16,445	292,501	276,056	291,272	(15,216)	(20,228)	(27,392)	
2029	477,043	14,933	1800	0	16,733	8,182	8,182	270,088	261,886	284,647	(22,761)	(18,989)	(21,072)	
2030	528,773	16,080	1800	0	17,880	8,743	8,743	295,547	286,804	291,734	(4,930)	(13,846)	(14,303)	
2031	453,465	1,609	1800	0	3,409	1,667	1,667	252,785	251,118	305,603	(54,485)	(29,708)	(27,392)	
2032	412,054	34,890	1800	0	36,690	17,942	17,942	230,523	212,581	306,981	(94,400)	(74,442)	(51,272)	
2033	956,270	192,362	1800	0	194,162	94,945	94,945	512,141	417,196	302,662	114,534	10,067	(11,450)	
2034	673,729	42,335	1800	0	44,135	21,582	21,582	369,428	342,176	288,819	59,027	86,780	26,387	
2035	673,634	48,642	1800	0	50,442	24,666	24,666	366,842	342,176	307,744	34,432	46,729	69,931	
2036	733,236	50,243	1800	0	52,043	25,449	25,449	397,675	372,226	314,395	57,831	46,131	50,430	
2037	668,548	31,739	1800	0	33,539	16,401	16,401	362,723	346,322	300,846	45,476	51,654	45,913	
2038	635,355	41,083	1800	0	42,883	20,970	20,970	350,897	329,927	295,412	34,515	39,996	45,941	
2039	540,164	40,354	1800	0	42,154	20,613	20,613	304,478	283,864	314,843	(30,979)	1,768	16,937	
2040	589,624	15,572	1800	0	17,372	8,495	8,495	334,239	325,744	290,422	35,922	2,171	12,953	
Average	591,941	54,108	1,800	0	55,908	27,339	27,339	325,419	298,080	287,953	10,127	11,488	12,739	
Max	956,270	192,362	1,800	0	194,162	94,945	94,945	512,141	417,196	314,843	131,726	98,222	80,904	
Min	345,144	852	1,800	0	2,652	1,297	1,297	191,154	174,750	264,753	(121,256)	(77,704)	(51,272)	
Median	562,744	41,360	1,800	0	43,160	21,105	21,105	309,781	282,876	288,110	(5,229)	7,700	3,430	

\* Gain Guide Rock to Hardy = Hardy gage+ consumptive use ms GR-Hardy - Passing Guide Rock - return flows from Courtland and Superior above Hardy-mound credit



**N.F. and Main Stem Republican (NB) Above Guide Rock for Water Short Years**  
**20% Reduction all wells with additional 50% reduction wells within 1 mile of stream**

Year	Total VVs CY AF/year	Gain Guide Rock to Hardy*	Consumptive Use Guide Rock to Hardy	Mound Credit Guide Rock to Hardy	Virgin Water Supply Below Guide Rock Gain + CU	Nebraska Allocation Below Guide Rock	Nebraska Allocation Below Rock + Credit	Total Nebraska Allocation + Credit	Nebraska Allocation Above Guide Rock with Mound Credit	Consumptive Use Above Guide Rock Total CU - CU below	Allocation minus Consumptive Use	Compliance Two-Year Average	Compliance Three-Year Average
2001	345,411	31,794	1800	33,594	16,428	191,295	174,868	291,614	(116,746)				
2002	523,532	79,107	1800	80,907	39,563	288,289	248,726	273,942	(25,216)			(70,981)	
2003	823,647	75,868	1800	77,668	37,980	434,390	396,410	255,211	141,199			57,991	(254)
2004	684,901	104,787	1800	106,587	52,121	365,235	313,114	321,114	46,913			94,056	54,299
2005	536,627	104,787	1800	53,022	25,928	297,871	271,943	269,220	8,723			27,818	65,612
2006	545,001	74,270	1800	76,070	37,198	299,064	271,866	253,835	8,031			8,377	21,222
2007	563,358	105,268	1800	107,068	52,356	310,465	258,109	257,432	677			4,354	5,810
2008	501,947	31,189	1800	32,989	16,132	282,750	266,618	255,395	11,223			5,950	6,643
2009	458,725	14,364	1800	16,164	7,904	260,406	252,502	248,527	3,975			7,599	5,291
2010	510,634	15,528	1800	17,328	8,473	285,856	277,383	252,964	24,419			14,197	13,205
2011	436,967	1,105	1800	2,905	1,420	243,501	242,080	264,400	(22,320)			1,049	2,025
2012	396,778	34,404	1800	36,204	17,704	221,488	203,785	264,438	(60,654)			(41,487)	(19,518)
2013	941,379	191,857	1800	193,657	94,698	502,970	408,272	260,188	148,084			43,715	21,704
2014	657,685	41,869	1800	43,669	21,354	360,648	339,294	252,667	86,627			77,745	58,019
2015	659,128	48,278	1800	50,078	24,488	358,207	333,719	264,856	68,863			77,745	101,191
2016	718,867	49,933	1800	51,733	25,297	389,077	363,779	266,718	97,061			82,962	84,184
2017	644,765	31,411	1800	33,211	16,240	354,630	338,390	261,091	77,299			71,300	81,074
2018	619,456	40,777	1800	42,577	20,820	342,433	321,619	256,311	65,302			71,300	79,887
2019	526,086	40,082	1800	41,882	20,480	296,278	275,799	268,078	7,721			36,511	50,107
2020	575,954	15,342	1800	17,142	8,382	325,918	317,536	254,812	62,724			35,222	45,249
2021	376,833	33,544	1800	35,344	17,283	209,647	192,364	274,809	(82,445)			(4,000)	(9,532)
2022	542,883	80,519	1800	82,319	40,254	299,839	259,585	268,459	(8,974)			(45,660)	
2023	841,720	77,188	1800	78,988	38,625	495,253	406,628	256,502	150,126			70,626	19,602
2024	703,927	106,024	1800	107,824	52,726	376,376	323,651	271,082	52,568			101,347	64,607
2025	555,997	52,419	1800	54,219	26,513	308,263	281,750	270,361	11,389			9,298	23,721
2026	562,603	75,368	1800	77,183	37,743	309,201	271,458	264,252	7,206			3,228	5,948
2027	581,656	106,350	1800	108,150	52,886	320,582	287,697	268,447	(751)			3,440	4,695
2028	518,548	32,197	1800	33,997	16,624	292,513	275,889	262,450	(749)			3,441	2,044
2029	477,254	15,931	1800	17,131	8,377	270,078	261,701	268,059	(749)			8,760	8,384
2030	528,386	16,459	1800	18,259	8,929	295,258	286,329	268,059	(18,270)			(5,822)	(4,131)
2031	452,787	1,985	1800	3,785	1,851	252,364	250,513	280,427	(29,914)			(48,864)	(26,486)
2032	412,194	35,309	1800	37,109	18,146	230,465	212,318	280,132	(67,814)			36,470	14,342
2033	956,516	192,714	1800	194,514	95,117	512,226	417,109	276,356	140,753			110,306	50,933
2034	674,155	42,651	1800	44,451	21,736	369,625	347,888	268,030	79,858			70,452	93,885
2035	674,077	49,041	1800	50,841	24,861	367,012	342,151	281,106	81,045			74,397	76,218
2036	733,693	50,694	1800	52,494	25,669	397,847	372,178	284,428	87,750			78,233	72,503
2037	658,930	32,137	1800	33,937	16,595	362,887	346,292	277,576	68,715			63,095	71,313
2038	635,328	41,481	1800	43,281	21,164	350,818	329,654	272,179	57,474			27,589	41,298
2039	540,402	40,756	1800	42,556	20,810	304,491	283,681	285,977	(2,296)			26,044	36,521
2040	589,515	15,992	1800	17,792	8,700	334,110	325,410	271,026	54,384			26,044	36,521
Average	592,191	54,416	1,800	56,216	27,489	325,491	298,001	267,046	30,956			32,549	33,920
Max	956,516	192,714	1,800	194,514	95,117	512,226	417,109	291,614	150,126			117,355	101,191
Min	345,411	1,105	1,800	2,905	1,420	191,295	174,868	248,527	(116,746)			(70,981)	(26,486)
Median	562,980	41,675	1,800	43,475	21,259	309,833	282,716	267,374	14,830			27,818	22,712

\* Gain Guide Rock to Hardy = Hardy gage+ consumptive use ms GR-Hardy - Passing Guide Rock - return flows from Courtland and Superior above Hardy-mound credit

Consumptive Use Calculations 1991-2000 (efficient)

Year	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	Total 1991-2000	Average
Prairie Dog Creek	270	200	0	200	160	110	380	164	164	164	0	7	1,812	181
Sappa Creek	1,280	1,260	80	1,460	900	1,140	3,290	998	998	998	641	416	12,404	1,240
Beaver Creek	0	0	20	60	100	200	450	36	36	36	0	198	938	94
Medicine Creek	960	1,090	240	1,550	1,280	1,680	2,880	1,024	1,024	1,024	514	497	12,752	1,275
Red Willow Creek	950	720	460	1,330	1,110	1,200	1,990	1,154	894	1,124	624	743	10,932	1,093
Driftwood Creek	1,137	1,139	1,063	1,032	60	80	100	36	36	36	0	0	4,719	472
Frenchman Creek	13,160	11,010	12,170	14,510	12,580	12,050	15,010	12,907	12,206	13,315	8,443	5,810	128,918	12,892
South Fork of the RR	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Rock Creek	0	0	30	100	0	0	0	24	24	24	0	0	202	20
Buffalo Creek	370	640	380	580	450	730	580	486	486	486	387	482	5,188	519
Arkaree River	0	0	0	0	0	0	0	0	0	0	0	0	0	0
N.F. Republican Rv. In Colorado	3,200	1,510	3,120	3,130	2,380	3,320	3,430	3,763	4,009	3,675	3,057	3,015	31,537	3,154
N.F. and Main Stem	77,795	55,678	31,013	101,264	93,990	57,980	109,600	89,523	80,712	100,597	64,205	74,037	798,153	79,815
Total Surface Water Depletion	99,122	73,247	48,576	125,216	113,010	78,490	137,710	110,115	100,589	121,479	77,871	85,205	1,007,555	100,756

Ground Water Depletions to Stream

Year	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	Total 1991-2000
Prairie Dog Creek	0	0	-48	-13	0	-14	0	0	0	0	-75	0	-75
Sappa Creek	576	710	4,351	4,896	3,551	4,116	3,495	2,419	1,149	792	26,055	0	26,055
Beaver Creek	1,449	3,120	7,110	6,727	6,403	6,271	5,964	4,979	4,871	3,568	50,462	0	50,462
Medicine Creek	15,188	14,897	13,272	13,338	15,005	15,021	15,225	15,934	15,274	15,918	149,072	0	149,072
Red Willow Creek	5,183	5,470	5,080	4,385	5,481	7,302	5,316	5,342	6,345	5,178	55,082	0	55,082
Driftwood Creek	1,150	1,153	1,076	1,043	1,117	1,146	1,150	1,196	1,171	1,153	11,355	0	11,355
Frenchman Creek	67,146	64,127	63,311	67,820	70,599	70,592	72,913	73,843	75,033	74,927	700,311	0	700,311
South Fork of the RR	850	759	927	735	864	955	935	810	1,012	968	8,815	0	8,815
Rock Creek	2,224	2,373	2,500	2,563	2,642	2,775	2,838	2,894	3,022	3,125	26,956	0	26,956
Buffalo Creek	2,221	2,296	2,286	2,296	2,413	2,503	2,567	2,690	2,798	2,912	24,982	0	24,982
Arkaree River	299	163	178	116	232	232	162	207	313	188	2,090	0	2,090
N.F. Republican Rv. In Colorado	734	648	664	776	905	843	972	1,082	1,022	1,183	8,829	0	8,829
N.F. and Main Stem	74,233	80,703	72,212	57,617	77,783	86,704	70,422	69,495	86,757	68,440	744,366	0	744,366
Total Groundwater Depletion	171,253	176,419	172,919	162,299	186,995	198,446	181,959	180,891	198,767	178,352	180,830	85,205	1,808,300
Total Depletion													2,815,855

36%  
64%

Surface Water as Percent Total Depletions  
Groundwater as Percent Total Depletions

Groundwater Depletions to Streamflow by NRD 1991-2000

Year	Upper Republican (acre-ft)	Middle Republican (acre-ft)	Lower Republican (acre-ft)	Tri-Basin (acre-ft)	Other (acre-ft)	Total Impact (acre-ft)
1991	64826	49433	37990	7633	549	160431
1992	67036	57818	39886	11267	550	176557
1993	74053	56861	43157	11544	651	186266
1994	62647	41397	42044	8788	638	155514
1995	71320	53840	48321	9893	664	184038
1996	81183	69168	48004	13356	790	212501
1997	69794	49404	46155	11072	808	177233
1998	72889	48653	43929	10393	828	176692
1999	80522	60444	44387	13012	919	199284
2000	73692	42920	44631	10841	894	172978
Average	71,796	52,994	43,850	10,780	729	180,149

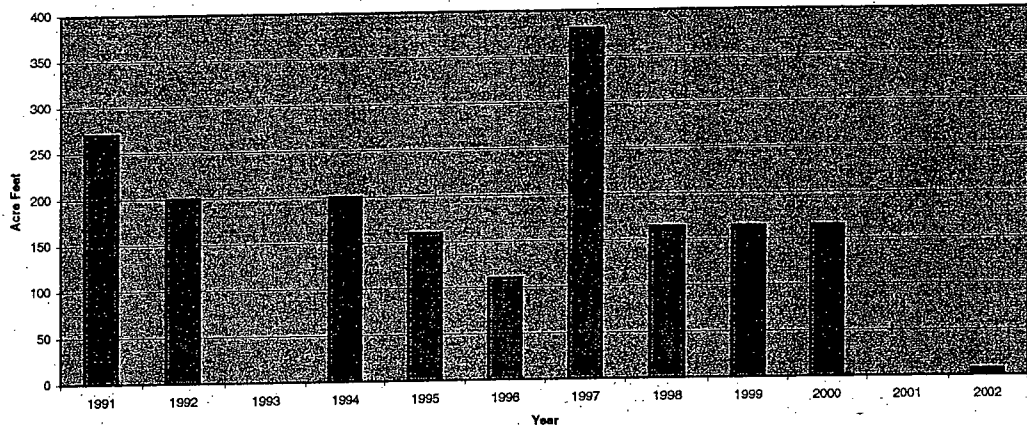
Year	Upper Republican (%)	Middle Republican (%)	Lower Republican (%)	Tri-Basin (%)	Other (%)	Total (%)
1991	40%	31%	24%	5%	0%	100%
1992	38%	33%	23%	6%	0%	100%
1993	40%	31%	23%	6%	0%	100%
1994	40%	27%	27%	6%	0%	100%
1995	39%	29%	26%	5%	0%	100%
1996	38%	33%	23%	6%	0%	100%
1997	39%	28%	26%	6%	0%	100%
1998	41%	28%	25%	6%	0%	100%
1999	40%	30%	22%	7%	0%	100%
2000	43%	25%	26%	6%	1%	100%
Average	40%	29%	24%	6%	0%	100%

Prairie Dog	Red Willow	Rock	Sappa	South Fork	Hugh Butler	Bonny	Keith Sebelius	Enders	Harlan	Harry Strunk	Swanson	Mainstem Total
0	3,846	1,059	1,156	970	809	0	0	1,626	604	115	137	61,178
-10	3,421	1,282	2,902	671	882	0	0	1,802	672	127	136	55,207
-15	3,132	1,364	2,863	561	926	0	0	1,895	681	134	137	44,720
0	3,693	1,426	2,909	572	994	0	0	2,037	774	143	150	57,994
0	4,160	1,504	3,262	652	1,041	0	0	2,200	713	154	157	62,443
0	4,032	1,590	2,125	668	1,109	0	0	2,342	790	165	155	54,433
0	4,233	1,705	1,461	766	1,123	0	0	2,440	715	174	154	62,555
0	4,176	1,833	1,270	727	1,171	0	0	2,547	821	181	160	59,952
0	4,153	1,915	687	396	1,263	0	0	2,661	896	190	160	57,784
0	4,549	2,036	615	603	1,336	0	0	2,795	909	202	173	63,166
0	5,183	2,224	576	850	1,421	0	0	2,933	995	213	166	74,223
0	5,470	2,373	710	759	1,307	0	0	3,040	843	220	147	80,703
-48	5,080	2,500	4,351	927	1,114	0	0	3,081	642	215	131	72,212
-13	4,385	2,563	4,896	735	1,349	0	0	3,165	868	215	157	57,617
0	5,481	2,642	3,551	864	1,449	0	0	3,300	957	226	156	77,783
-14	5,939	2,775	4,116	955	1,363	0	0	3,386	769	233	143	86,704
0	5,316	2,838	3,495	935	1,480	0	0	3,464	963	238	162	70,422
0	5,342	2,894	2,419	810	1,549	0	0	3,606	949	249	180	69,495
0	6,345	3,022	1,149	1,012	1,345	0	0	3,711	862	250	179	86,757
0	5,178	3,125	792	968	1,601	0	0	3,848	988	252	220	68,440

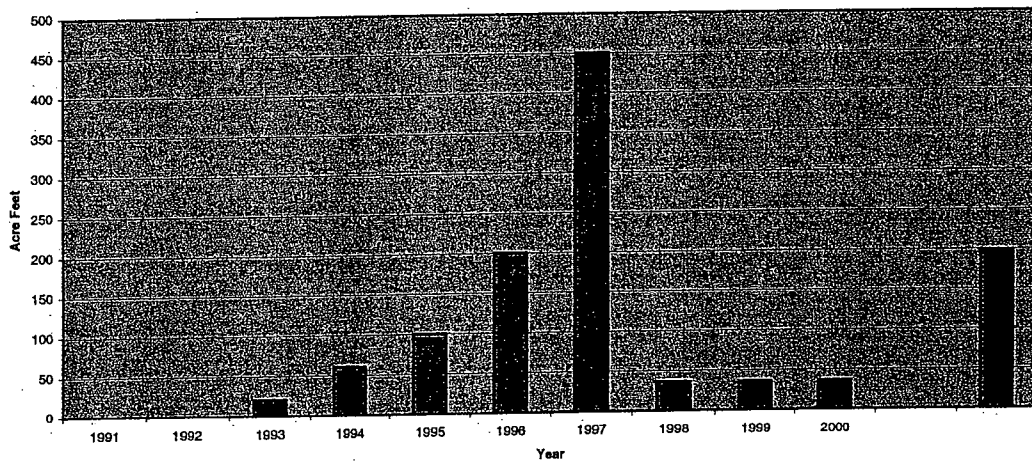
Year	Arikaree	Beaver	Buffalo	Driftwood	Frenchman	North Fork	Above Swanson	Swanson-Harlan	Harlan-Guide Rock	Guide Rock-Hardy	Medicine
1981	245	5,389	1,342	799	48,218	284	9,364	38,300	12,119	1,395	9,234
1982	212	5,796	1,476	830	51,308	343	8,950	32,080	12,595	1,581	9,479
1983	95	5,301	1,498	922	51,478	365	7,226	22,058	13,879	1,558	9,637
1984	174	5,281	1,550	1,039	54,162	344	9,426	32,891	14,398	1,279	10,573
1985	189	5,369	1,647	1,052	56,155	390	9,910	36,432	14,557	1,544	11,170
1986	176	4,546	1,729	1,072	57,257	427	9,100	29,199	14,778	1,356	11,678
1987	190	4,737	1,798	1,103	58,626	532	9,414	35,979	15,702	1,460	12,172
1988	170	4,098	1,874	1,098	59,761	566	9,320	30,961	18,138	1,534	12,463
1989	163	2,156	1,940	1,101	60,358	611	9,042	29,265	17,748	1,728	13,009
1990	202	1,121	2,056	1,121	63,730	642	10,763	32,921	18,016	1,465	13,967
1991	299	1,449	2,221	1,150	67,146	734	12,310	39,061	20,805	2,046	15,188
1992	163	3,120	2,296	1,153	64,127	648	10,185	50,193	18,701	1,624	14,897
1993	178	7,110	2,286	1,076	63,311	664	8,607	45,541	16,747	1,318	13,272
1994	116	6,727	2,296	1,043	67,820	776	9,102	28,483	18,682	1,349	13,338
1995	232	6,403	2,413	1,117	70,599	905	10,886	42,670	22,230	1,997	15,005
1996	232	6,271	2,503	1,146	70,592	843	11,112	53,160	20,614	1,818	15,021
1997	162	5,964	2,567	1,150	72,913	972	10,999	35,118	22,491	1,814	15,225
1998	207	4,979	2,690	1,196	73,843	1,082	10,260	35,610	21,897	1,727	15,934
1999	313	4,871	2,798	1,171	75,033	1,022	12,906	50,121	21,909	1,820	15,274
2000	188	3,568	2,912	1,153	74,927	1,183	10,224	31,017	25,285	1,915	15,918



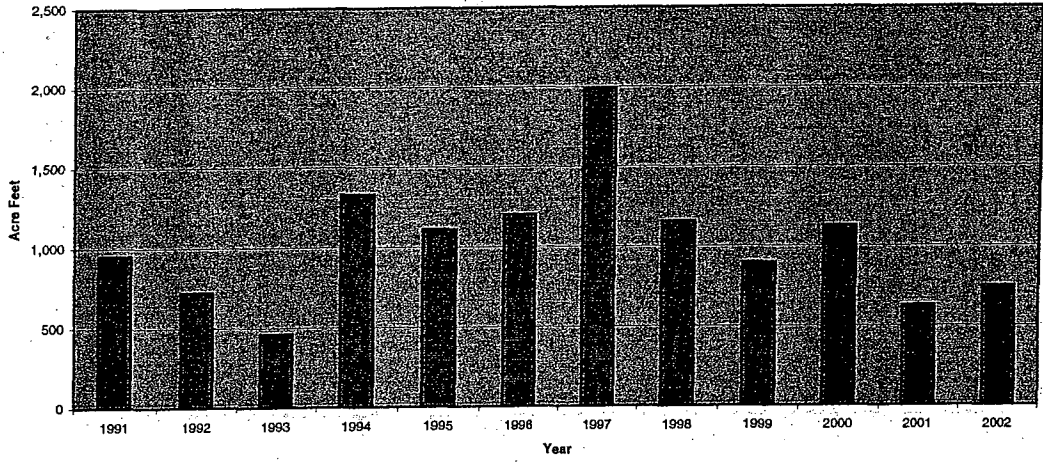
Surface Water CU Prairie Dog



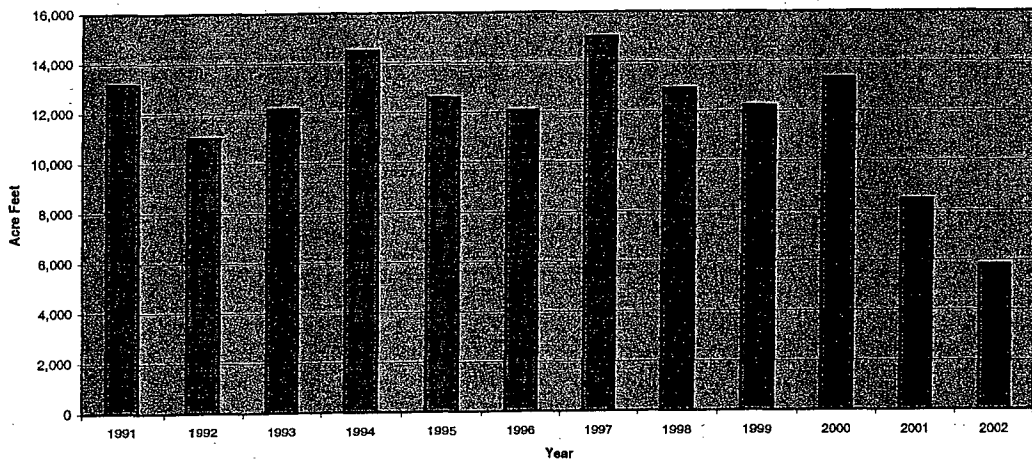
Surface Water CU Beaver



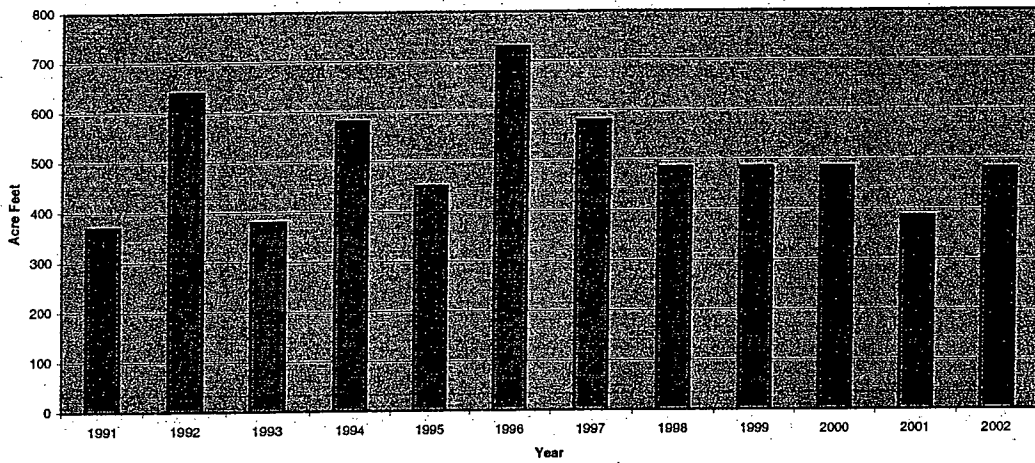
Surface Water CU Red Willow



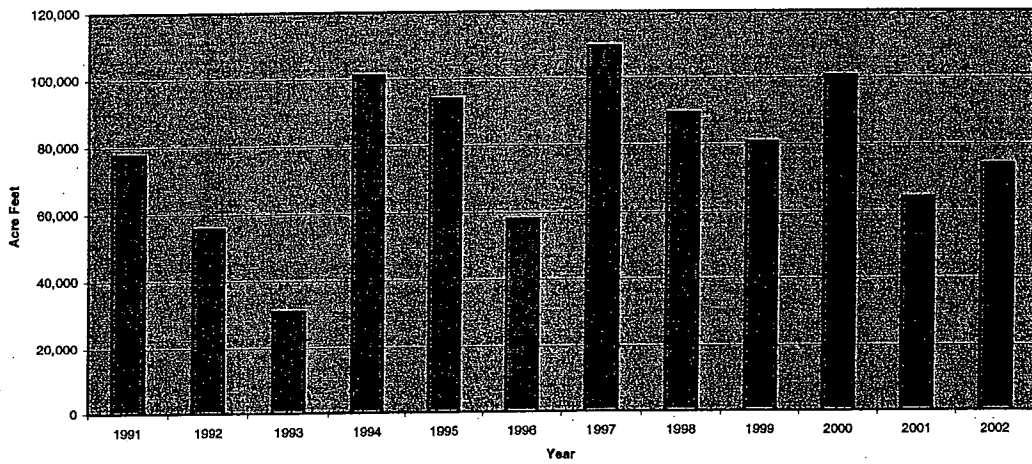
Surface Water CU French



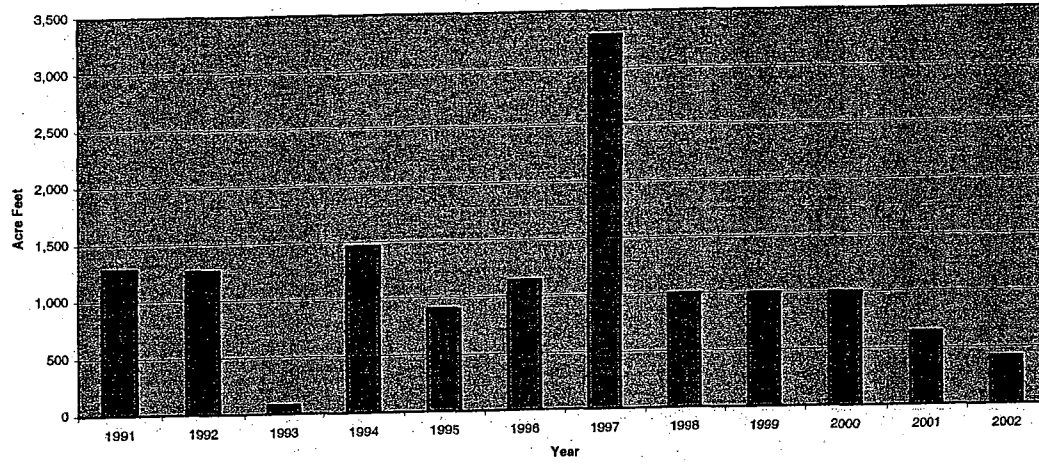
Surface Water CU Buffalo



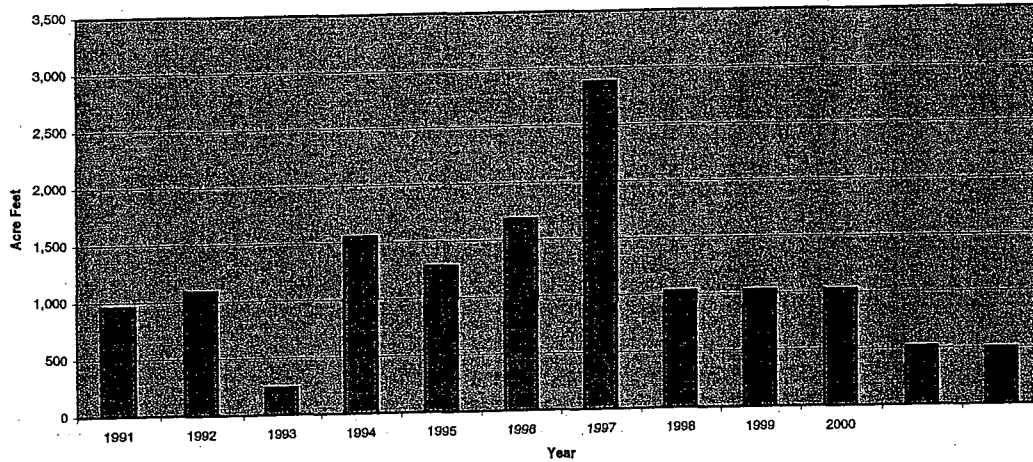
Surface Water CU Main Stem



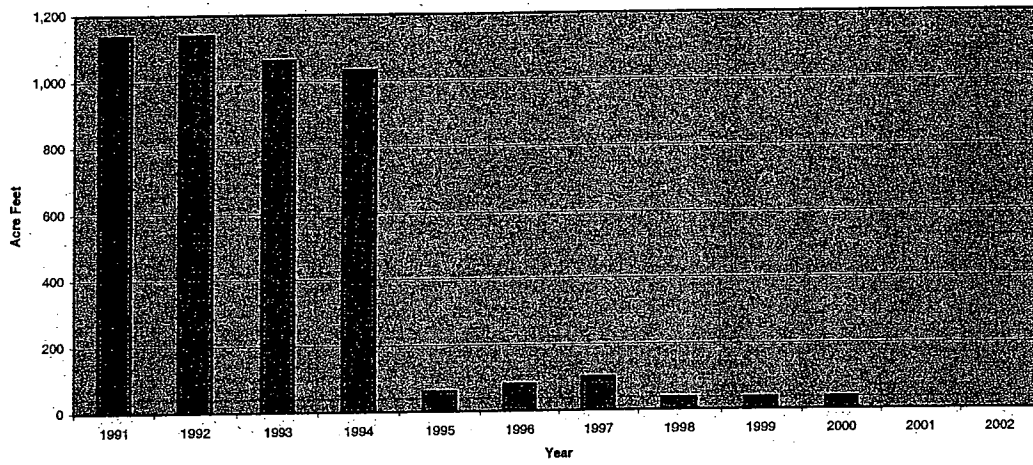
### Surface Water CU Sappa



### Surface Water CU Medicine



Surface Water CU Driftwood



Surface Water CU Rock

