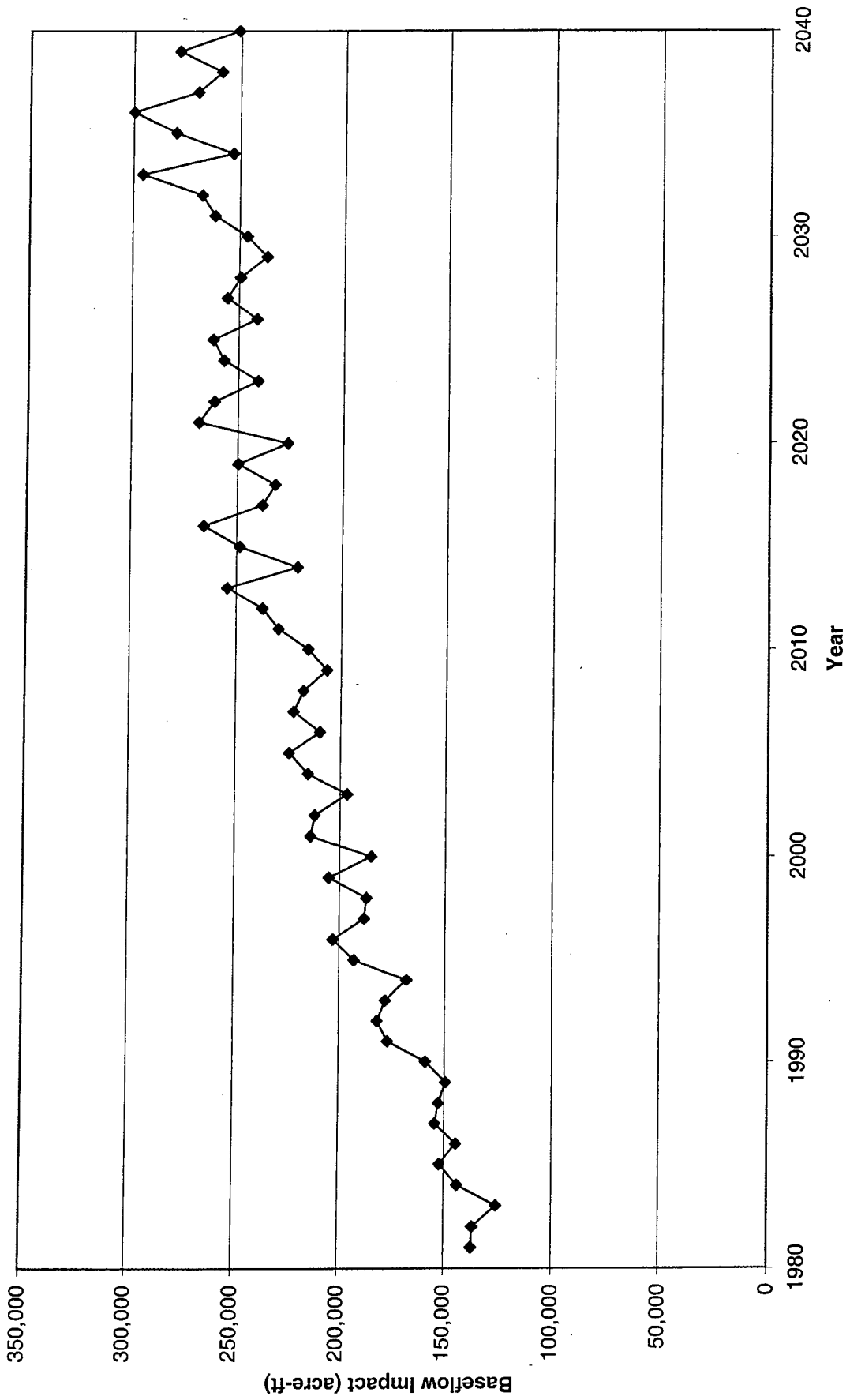


Baseline Impact of Projected Nebraska Pumping In Nebraska (acre-feet)



Pumpage and Depletion by NRD

YEAR	UPPER REPUBLICAN	MIDDLE REPUBLICAN	LOWER REPUBLICAN	TRI BASIN	Other	Total
<b>Total Pumpage Volume Acre Feet</b>						
1991	463,137	300,297	275,895	535,721	329,774	1,904,824
1992	334,973	169,657	145,458	283,197	188,329	1,121,614
1993	256,709	60,881	41,515	97,059	91,913	548,077
1994	494,951	271,512	174,458	318,218	257,376	1,516,515
1995	439,376	280,015	246,010	482,322	301,091	1,748,815
1996	328,475	174,909	124,411	279,010	192,117	1,098,922
1997	489,546	288,260	237,626	449,652	289,844	1,754,928
1998	503,415	297,421	194,440	341,039	265,550	1,601,866
1999	380,234	135,750	153,409	290,099	216,873	1,176,364
2000	663,490	380,069	263,751	521,548	412,330	2,241,187
2001	466,841	307,861	238,542	406,975	335,479	1,755,698
2002	644,833	426,294	361,303	561,574	478,206	2,472,210
<b>Avg 1991-2000</b>	<b>435,431</b>	<b>235,877</b>	<b>185,697</b>	<b>359,787</b>	<b>254,520</b>	<b>1,471,311</b>
<b>Percentage</b>	<b>30%</b>	<b>16%</b>	<b>13%</b>	<b>24%</b>	<b>17%</b>	<b>100%</b>

**Groundwater Depletions to Stream Acre Feet**

Year	URNRD	MRNRD	LRNRD	TriBasin NRD	Other	Total
1991	64,826	49,433	37,990	7,633	549	160,431
1992	67,036	57,818	39,886	11,267	550	176,557
1993	74,053	56,861	43,157	11,544	651	186,266
1994	62,647	41,397	42,044	8,788	638	155,514
1995	71,320	53,840	48,321	9,893	664	184,038
1996	81,183	69,168	48,004	13,356	790	212,501
1997	69,794	49,404	46,155	11,072	808	177,233
1998	72,889	48,653	43,929	10,393	828	176,692
1999	80,522	60,444	44,387	13,012	919	199,284
2000	73,692	42,920	44,631	10,841	894	172,978
<b>Average</b>	<b>71,796</b>	<b>52,994</b>	<b>43,850</b>	<b>10,780</b>	<b>729</b>	<b>180,149</b>
<b>Percentage</b>	<b>40%</b>	<b>29%</b>	<b>24%</b>	<b>6%</b>	<b>0%</b>	<b>100%</b>
<b>Ratio Depletion/Pumping</b>	<b>0.16</b>	<b>0.22</b>	<b>0.24</b>	<b>0.03</b>	<b>0.00</b>	<b>0.12</b>



# Summary of Pumage Volume by NRD for 1990-2002

## Comingled Well Pumpage Volume Acre Feet

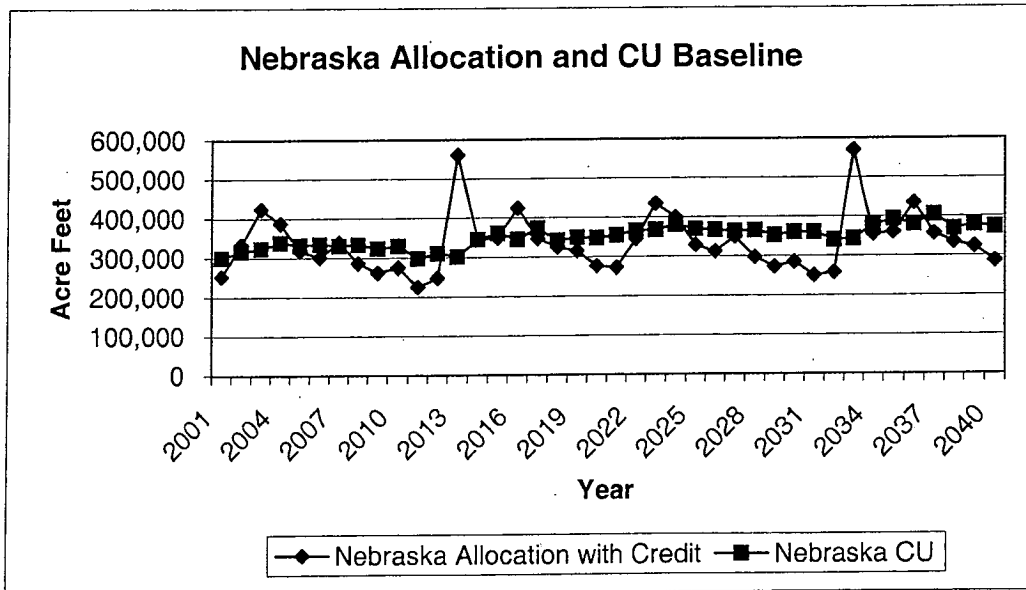
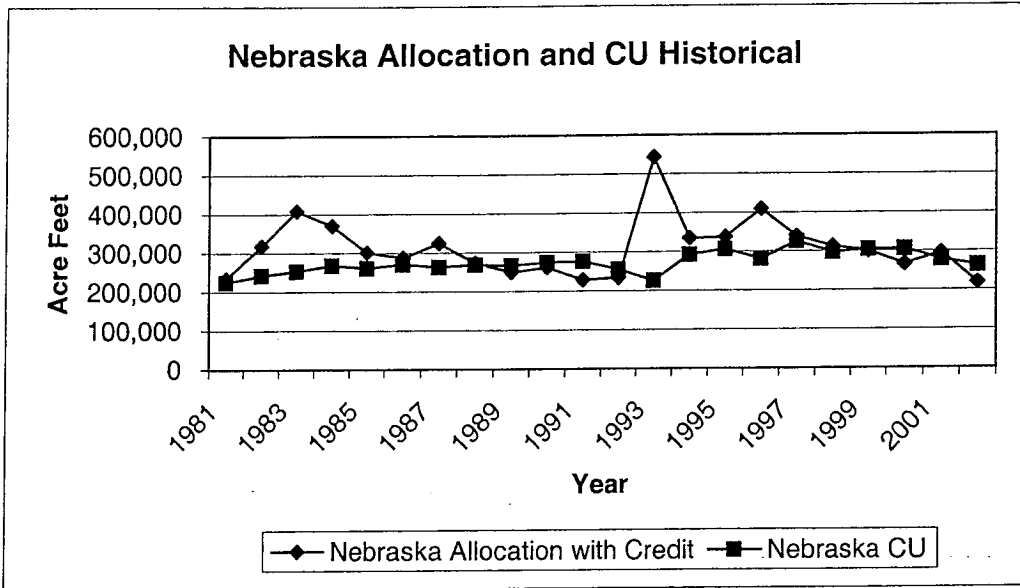
YEAR	UPPER		MIDDLE		LOWER		TRI BASIN	CENTRAL PLATTE	SOUTH PLATTE	TWIN PLATTE	LITTLE BLUE	ANNUAL TOTAL
	REPUBLICAN	REPUBLICAN	REPUBLICAN	REPUBLICAN	REPUBLICAN	REPUBLICAN						
1990	537	28,847	7,388	20,666	6,550	1,227	10,249	0	75,464			
1991	412	28,108	10,100	27,167	7,072	1,251	10,475	0	84,585			
1992	301	16,609	5,691	15,220	4,808	778	6,936	0	50,343			
1993	192	7,196	1,842	5,622	1,388	543	4,852	0	21,635			
1994	460	30,351	7,245	15,891	4,455	1,194	10,490	0	70,087			
1995	426	35,045	10,988	25,120	6,532	1,113	10,279	0	89,503			
1996	318	19,770	5,374	14,017	4,325	708	6,017	0	50,529			
1997	538	29,775	9,520	22,452	6,878	1,033	8,713	0	78,908			
1998	598	33,008	8,080	17,261	5,269	1,080	7,932	0	73,228			
1999	444	13,421	6,482	14,409	3,874	875	6,567	0	46,071			
2000	732	37,680	10,051	24,871	7,163	2,148	12,740	0	95,385			
2001	917	28,649	11,856	29,688	6,647	1,565	9,393	0	88,714			
2002	984	27,574	18,783	40,485	11,036	2,098	17,834	0	118,793			
Avg 1991-2000	442	25,096	7,537	18,203	5,176	1,072	8,500	0	66,027			
Avg 1990-2000	476	27,261	8,092	19,708	5,692	1,141	9,040	0	71,410			

Nebraska Allocation and Consumptive Use Scenarios

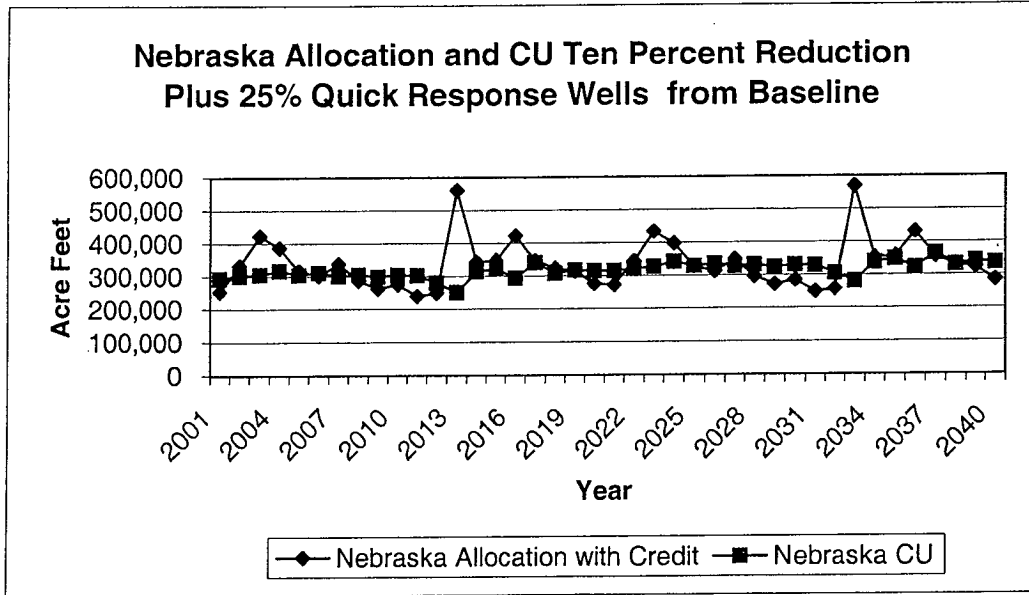
Historical	Kansas		Nebraska				Colorado				Mound				Revised statewide allocations				Statewide Allocation - CU		Nebraska Five-Year Running Average	
	RRCA SW CU	Modelled GW CU	Modelled GW CU + RRCA	Modelled RRCA SW SW CU	Modelled GW CU + RRCA	Modelled RRCA SW SW CU	Modelled GW CU + RRCA	Modelled RRCA SW SW CU	Modelled GW CU + RRCA	Modelled RRCA SW SW CU	Total	CWS	CO	KS	NE	Total	Ne with mound credit	CO	KS	NE	w/ credit	Average
1981-2002																						
Average	40,423	18,066	58,490	104,689	167,734	272,422	11,627	21,382	33,009	16,333	568,871	36,593	237,217	295,062	568,871	311,394	3,583	178,727	38,972	38,972	38,972	42,318
Max	66,860	34,028	84,216	137,734	203,911	324,976	16,700	28,013	38,901	24,608	1,026,128	52,291	465,601	518,742	1,026,128	543,350	18,197	422,443	317,853	317,853	317,853	107,008
Min	9,130	9,531	31,794	48,576	125,889	223,880	9,510	16,645	28,005	12,663	375,576	21,760	149,373	204,443	375,576	219,343	(9,519)	91,933	(46,797)	(46,797)	(46,797)	(18,128)
Median	37,141	17,789	58,656	109,191	171,815	269,342	10,888	20,830	33,456	15,571	546,990	35,855	225,580	283,644	546,990	301,241	4,305	169,717	16,979	16,979	16,979	45,088
Baseline																						
Average	41,764	18,483	60,247	106,981	243,516	350,497	12,711	21,321	34,032	16,301	611,613	34,639	257,532	319,442	611,613	335,743	607	197,285	(14,754)	(14,754)	(14,754)	(13,505)
Max	66,860	34,010	84,029	135,442	299,564	405,051	20,090	28,051	39,035	24,608	1,069,551	46,536	487,155	545,473	1,069,551	570,081	11,582	444,015	257,789	257,789	257,789	59,828
Min	9,130	10,410	31,744	48,576	196,785	298,044	9,570	16,645	29,415	12,663	398,883	25,152	150,036	213,035	398,883	225,698	(7,952)	84,864	(109,926)	(83,386)	(83,386)	(83,386)
Median	39,200	18,613	59,302	111,683	247,462	351,974	11,185	20,849	34,124	15,571	592,359	34,063	249,734	309,750	592,359	326,952	299	193,067	(34,272)	(34,272)	(34,272)	(13,429)
5 Percent Reduction																						
Average	40,898	17,603	58,500	107,004	244,294	351,298	12,705	21,321	34,026	16,301	619,143	34,755	260,602	323,786	619,143	340,087	729	202,102	(11,211)	(11,211)	(11,211)	(9,879)
Max	66,860	31,235	82,120	137,734	299,564	407,343	20,090	28,051	39,035	24,608	1,086,897	46,542	495,026	554,737	1,086,897	579,345	11,588	454,661	264,507	264,507	264,507	63,846
Min	9,130	11,403	33,480	48,576	196,785	300,594	9,570	16,645	29,415	12,663	435,764	25,216	168,212	231,725	435,764	244,388	(7,846)	101,966	(105,228)	(105,228)	(105,228)	(78,974)
Median	38,987	17,534	57,322	111,563	247,462	351,974	11,185	20,849	34,103	15,571	598,486	34,089	252,211	313,264	598,486	330,525	533	197,999	(31,306)	(31,306)	(31,306)	(8,920)
10 Percent																						
Average	40,898	17,603	58,500	107,004	244,294	351,298	12,705	21,321	34,026	16,301	624,901	34,792	262,985	327,125	624,901	343,426	766	204,485	(7,872)	(7,872)	(7,872)	(6,457)
Max	66,860	31,235	82,120	137,734	299,564	407,343	20,090	28,051	39,035	24,608	1,098,727	46,545	500,307	561,206	1,098,727	585,814	11,591	459,942	269,416	269,416	269,416	67,857
Min	9,130	11,403	33,480	48,576	196,785	300,594	9,570	16,645	29,415	12,663	439,509	25,260	169,591	234,078	439,509	246,741	(7,802)	103,345	(101,830)	(101,830)	(101,830)	(75,675)
Median	38,987	17,534	57,322	111,563	247,462	351,974	11,185	20,849	34,103	15,571	604,825	34,116	254,330	316,875	604,825	334,237	592	200,745	(27,887)	(27,887)	(27,887)	(5,141)
10 Percent plus 25 Percent Quick Response Wells																						
Average	40,898	17,603	58,500	107,004	209,628	316,632	12,705	21,321	34,026	16,301	610,744	34,484	257,340	318,920	610,744	335,221	458	198,840	18,589	18,589	18,589	20,790
Max	66,860	31,235	82,120	137,734	243,821	364,359	20,090	28,051	39,035	24,608	1,068,452	46,497	487,062	544,710	1,068,452	569,318	11,543	446,697	309,305	309,305	309,305	100,077
Min	9,130	11,403	33,480	48,576	178,013	250,553	9,570	16,645	29,415	12,663	429,651	25,078	166,111	227,885	429,651	240,548	(7,984)	99,865	(78,921)	(78,921)	(78,921)	(51,812)
Median	38,987	17,534	57,322	111,563	209,637	317,384	11,185	20,849	34,103	15,571	590,276	33,934	249,034	308,593	590,276	325,795	160	194,822	766	766	766	23,559

Allocation - CU  
 ↑  
 ↓  
 COMPARE  
 ↑  
 ↓  
 HESZ

Nebraska Allocation and Consumptive Use Scenarios



Nebraska Allocation and Consumptive Use Scenarios



Nebraska Allocation and Consumptive Use Scenarios

