



Republican River Compact Administration Compact Accounting for 2005

Spreadsheet name: RRCA Accounting for 2005

Last update: 6-Aug-06

Starting workbook name: RRCA Accounting for 2004_Sept06_2005.xls By NDNR

Attachment 6 Column L formula corrected to avoid double-counting for BCU below Guide Rock
Column headings for Columns N, O, and P are corrected
Operating sign in Column N was corrected to be a minus.
Column cell reference in Column O corrected.

Table 5C Links to T1, Attachment 6, and GM_output sheets are provided.

5/1/2006 2006 Updates

Spreadsheet name: RRCA AccountingFor2005.xls
Attachment 7 updated
CoutlandAvLove updated
Reservoir Data updated
Stream Gage Data updated
NE Non-Federal reservoir Evap updated
NE Canal Diversion updated

6/14/2006

Spreadsheet name: RRCA AccountingFor2005(June14, 2006).xls
Impact 2005 Updated
Formating according to the KS RRCA Accounting for 2005 first guess.xls
KS Surface Water Pumping data Updated

6/19/2006

Stream Flow Data Refined with USGS Data Provided by Soenksen

6/22/2006 RRCA AccountingFor2005(June22, 2006NE).xls

Reservoir Data linked to the Fed_Reservoir sheet
Lovewell Reservoir Evap charged to the Republican River updated.

6/27/2006 Megan added CO data

7/31/2006 D. Barfield added Willem's 7/31 model results

Table 1. Added to the Table 1 page results for 2003 and 2004 and provided a place for the 2005-2007 Table 1 data.
This data is used in subsequent multi-year Tables in the spreadsheet.
Table 4A, 4B page - Added detail below the existing tables to allow computation of the multi-year average based on this data.
These detail tables pull data from the Table 1 data added as referenced in the note above.

8/1/2006 NE non-federal Reservoir net evaporation data updated, the NFR above Guide Rock moved from North Fork to Mainstem subbasin
Impact 2005 updated,

8/2/2006 White Rock Creek related rows in INPUT and MAINSTEM sheets are deleted
BureauT2 sheet was also deleted, since Net Evaporation of Lovewell Lake Charged to Republican River is computed outside now.

T3 linked to T1
Courtland Canal Deliveries to Lovewell Reservoir correctly linked to CoutlandAvLove sheet, even though it is no longer used.
T5A, T5B,E updated (NOT sure if they are done correctly???)

GW Imapcts 2003 and 2004 are added into the GM_Output sheet and linked to the related table.

8/6/2006 Clean up of temporary work

Table 5A - added formulas pointing to Table 1 page
Tables 5B & 5E - deleted 3 years of data so they represent 2 year averages

A		B	C	D	E	F
1	Calendar Year		2005	2003	2004	2005
3	Groundwater Data					
4	North Fork Subbasin	GW CBCU Colorado	14,359	14023	14373	14,359
5		GW CBCU Kansas	17	17	16	17
6		GW CBCU Nebraska	1,443	1402	1446	1,443
7	Arikaree Subbasin	GW CBCU Colorado	811	242	353	811
8		GW CBCU Kansas	122	100	116	122
9		GW CBCU Nebraska	250	508	431	250
10	Buffalo Subbasin	GW CBCU Colorado	306	265	290	306
11		GW CBCU Kansas	0	0	0	0
12		GW CBCU Nebraska	3,357	3338	3333	3,357
13	Rock Subbasin	GW CBCU Colorado	61	59	58	61
14		GW CBCU Kansas	0	0	0	0
15		GW CBCU Nebraska	3,744	3419	3581	3,744
16	South Fork Subbasin	GW CBCU Colorado	14,952	12115	12874	14,952
17		GW CBCU Kansas	7,227	5351	5781	7,227
18		GW CBCU Nebraska	1,372	1347	1202	1,372
19	Frenchman Subbasin	GW CBCU Colorado	42	37	39	42
20		GW CBCU Kansas	0	0	0	0
21		GW CBCU Nebraska	82,719	85647	89727	82,719
22	Driftwood Subbasin	GW CBCU Colorado	0	0	0	0
23		GW CBCU Kansas	0	0	0	0
24		GW CBCU Nebraska	1,481	1391	1479	1,481
25	Red Willow Subbasin	GW CBCU Colorado	0	0	0	0
26		GW CBCU Kansas	0	0	0	0
27		GW CBCU Nebraska	8,305	7815	8221	8,305
28	Medicine Creek Subbasin	GW CBCU Colorado	0	0	0	0
29		GW CBCU Kansas	0	0	0	0
30		GW CBCU Nebraska	20,766	21139	21296	20,766
31	Beaver Subbasin	GW CBCU Colorado	1,519	274	205	1,519
32		GW CBCU Kansas	2,684	777	1278	2,684
33		GW CBCU Nebraska	0	0	0	0
34	Sappa Subbasin	GW CBCU Colorado	1,462	-274	-205	-1,462
35		GW CBCU Kansas	702	500	556	702
36		GW CBCU Nebraska	0	0	0	0
37	Prairie Dog Subbasin	GW CBCU Colorado	5,775	1679	1824	5,775
38		GW CBCU Kansas	0	0	0	0
39		GW CBCU Nebraska	-1,954	132	-1269	-1,954
40	Mainstem Subbasin	GW CBCU Colorado	271	110	399	271
41		GW CBCU Kansas	81,100	74323	78183	81,100
42		GW CBCU Nebraska Above Guide Rock	2,956	2559	2382	2,956
43		GW CBCU Nebraska Below Guide Rock				
44						
45	Import Water Data					
46	North Fork Subbasin	Imported Water Nebraska	0	0	0	0
47	Arikaree Subbasin	Imported Water Nebraska	0	0	0	0
48	Buffalo Subbasin	Imported Water Nebraska	0	0	0	0
49	Rock Subbasin	Imported Water Nebraska	0	0	0	0
50	South Fork Subbasin	Imported Water Nebraska	0	0	0	0
51	Frenchman Subbasin	Imported Water Nebraska	0	0	0	0
52	Driftwood Subbasin	Imported Water Nebraska	0	0	0	0
53	Red Willow Subbasin	Imported Water Nebraska	35	20	25	35
54	Medicine Creek Subbasin	Imported Water Nebraska	9,633	9423	9522	9,633
55	Beaver Subbasin	Imported Water Nebraska	0	0	0	0
56	Sappa Subbasin	Imported Water Nebraska	0	0	0	0
57	Prairie Dog Subbasin	Imported Water Nebraska	0	0	0	0
58	Mainstem Subbasin	Imported Water Nebraska Above Guide Rock	2,297	337	634	2,297
59		Imported Water Nebraska Below Guide Rock	0	0	0	0
60		Total	11,965	9780	10381	11,965
61	SW Pumping Data					
62	North Fork Subbasin	SW Diversions - Irrigation - Non-Federal Canals - Colorado	2,790	2410	2888.7	2,790
63		SW Diversions - Irrigation - Small Pumps - Colorado	0	0	0	0
64		SW Diversions - M&I - Colorado	0	0	0	0
65	Arikaree Subbasin	SW Diversions - Irrigation - Non-Federal Canals - Colorado	0	0	0	0
66		SW Diversions - Irrigation - Small Pumps - Colorado	0	0	0	0
67		SW Diversions - M&I - Colorado	0	0	0	0
68		SW Diversions - Irrigation - Non-Federal Canals - Kansas	0	0	0	0
69		SW Diversions - Irrigation - Small Pumps - Kansas	0	0	0	0
70		SW Diversions - M&I - Kansas	0	0	0	0
71		SW Diversions - Irrigation - Non-Federal Canals - Nebraska	0	0	0	0
72		SW Diversions - Irrigation - Small Pumps - Nebraska	0	0	0	0
73		SW Diversions - M&I - Nebraska	0	0	0	0
74	Buffalo Subbasin	SW Diversions - Irrigation - Non-Federal Canals - Colorado	0	0	0	0
75		SW Diversions - Irrigation - Small Pumps - Colorado	0	0	0	0
76		SW Diversions - M&I - Colorado	0	0	0	0
77		SW Diversions - Irrigation - Non-Federal Canals - Nebraska	171	567	334	171
78		SW Diversions - Irrigation - Small Pumps - Nebraska	34	70.2	55.7	34
79		SW Diversions - M&I - Nebraska	0	0	0	0
80	Rock Subbasin	SW Diversions - Irrigation - Non-Federal Canals - Nebraska	0	0	0	0
81		SW Diversions - Irrigation - Small Pumps - Nebraska	0	0	0	0
82		SW Diversions - M&I - Nebraska	0	0	0	0
83	South Fork Subbasin	SW Diversions - Irrigation - Non-Federal Canals - Colorado	458	996	1283.3	458
84		SW Diversions - Irrigation - Small Pumps - Colorado	0	0	0	0
85		SW Diversions - M&I - Colorado	0	0	0	0
86		SW Diversions - Irrigation - Non-Federal Canals - Kansas	0	0	0	0
87		SW Diversions - Irrigation - Small Pumps - Kansas	13	39	25	13
88		SW Diversions - M&I - Kansas	0	0	0	0
89		SW Diversions - Irrigation - Non-Federal Canals - Nebraska	0	0	0	0
90		SW Diversions - Irrigation - Small Pumps - Nebraska	0	0	0	0
91		SW Diversions - M&I - Nebraska	0	0	0	0
92	Frenchman Subbasin	SW Diversions - Irrigation - Non-Federal Canals - Nebraska	0	0	0	0
93		SW Diversions - Irrigation - Small Pumps - Nebraska	0	0	0	0
94		SW Diversions - M&I - Nebraska	1	3.09	21	1
95	Driftwood Subbasin	SW Diversions - Irrigation - Non-Federal Canals - Kansas	0	0	0	0
96		SW Diversions - Irrigation - Small Pumps - Kansas	0	0	0	0
97		SW Diversions - M&I - Kansas	0	0	0	0
98		SW Diversions - Irrigation - Non-Federal Canals - Nebraska	0	0	0	0
99		SW Diversions - Irrigation - Small Pumps - Nebraska	0	0	0	0
100		SW Diversions - M&I - Nebraska	0	0	15.5	0
101	Red Willow Subbasin	SW Diversions - Irrigation - Non-Federal Canals - Nebraska	0	0	0	0
102		SW Diversions - Irrigation - Small Pumps - Nebraska	0	0	0	0
103		SW Diversions - M&I - Nebraska	123	341	167	123
104	Medicine Creek Subbasin	SW Diversions - Irrigation - Non-Federal Canals - Nebraska	0	0	0	0
105		SW Diversions - Irrigation - Small Pumps - Nebraska	0	0	0	0
106		SW Diversions - M&I - Nebraska	259	291	255	259
107		SW Diversions - Irrigation - Non-Federal Canals - Nebraska - Below Gage	0	0	0	0
108		SW Diversions - Irrigation - Small Pumps - Nebraska - Below Gage	78	106	57.5	78

A		B		C	D	E	F
Calendar Year				2005	2003	2004	2005
109	Beaver Subbasin	SW Diversions - M&I - Nebraska - Below Gage	0	0	0	0	0
110		SW Diversions - Irrigation - Non-Federal Canals - Colorado	0	0	0	0	0
111		SW Diversions - Irrigation - Small Pumps - Colorado	0	0	0	0	0
112		SW Diversions - M&I - Colorado	0	0	0	0	0
113		SW Diversions - Irrigation - Non-Federal Canals - Kansas	0	0	0	0	0
114		SW Diversions - Irrigation - Small Pumps - Kansas	12	26	22	12	
115		SW Diversions - M&I - Kansas	0	0	0	0	0
116		SW Diversions - Irrigation - Non-Federal Canals - Nebraska	0	0	0	0	0
117		SW Diversions - Irrigation - Small Pumps - Nebraska	0	0	0	0	0
118		SW Diversions - M&I - Nebraska	0	0	0	0	0
119		SW Diversions - Irrigation - Non-Federal Canals - Nebraska - Below Gage	0	0	0	0	0
120		SW Diversions - Irrigation - Small Pumps - Nebraska - Below Gage	0	0	0	0	0
121		SW Diversions - M&I - Nebraska - Below Gage	0	0	0	0	0
122	Sappa Subbasin	SW Diversions - Irrigation - Non-Federal Canals - Kansas	0	0	0	0	0
123		SW Diversions - Irrigation - Small Pumps - Kansas	3	14	28	3	
124		SW Diversions - M&I - Kansas	0	0	0	0	0
125		SW Diversions - Irrigation - Non-Federal Canals - Nebraska	0	0	0	0	0
126		SW Diversions - Irrigation - Small Pumps - Nebraska	54	0	19	54	
127		SW Diversions - M&I - Nebraska	0	0	0	0	0
128		SW Diversions - Irrigation - Non-Federal Canals - Nebraska - Below Gage	0	0	0	0	0
129		SW Diversions - Irrigation - Small Pumps - Nebraska - Below Gage	0	19	8	0	0
130		SW Diversions - M&I - Nebraska - Below Gage	0	0	0	0	0
131	Prairie Dog Subbasin	SW Diversions - Irrigation - Non-Federal Canals - Kansas	0	0	0	0	0
132		SW Diversions - Irrigation - Small Pumps - Kansas	159	273	87	159	
133		SW Diversions - M&I - Kansas	382	548	496	382	
134		SW Diversions - Irrigation - Non-Federal Canals - Nebraska - Below Gage	0	0	0	0	0
135		SW Diversions - Irrigation - Small Pumps - Nebraska - Below Gage	21	59	44	21	
136		SW Diversions - M&I - Nebraska - Below Gage	0	0	0	0	0
137	Mainstem Subbasin	SW Diversions - Irrigation - Non-Federal Canals - Kansas	0	0	0	0	0
138		SW Diversions - Irrigation - Small Pumps - Kansas	767	1064	668	767	
139		SW Diversions - M&I - Kansas	0	0	0	0	0
140		SW Diversions - Irrigation - Non-Federal Canals - Nebraska	1,661	3,719	3,066	1,661	
141		SW Diversions - Irrigation - Small Pumps - Nebraska	1,918	1,401	1,931	1,918	
142		SW Diversions - M&I - Nebraska	0	0	0	0	0
143		SW Diversions - Irrigation - Non-Federal Canals - Nebraska Below Guide Rock	0	0	0	0	0
144		SW Diversions - Irrigation - Small Pumps - Nebraska Below Guide Rock	1,278	1,562	689	1,278	
145		SW Diversions - M&I - Nebraska - Below Guide Rock	0	0	0	0	0
146							
147	Non-Federal SW Consumptive Use						
148		% Non-Federal Canal Diversion Consumed	60%	60%	60%	60%	
149		% Small Surface Water Pumps Consumed	75%	75%	75%	75%	
150		% Municipal And Industrial SW Consumed	50%	50%	50%	50%	
151							
152	Non-Federal Reservoir Evaporation Data						
153	North Fork Subbasin	Non-Federal Reservoir Evaporation - Colorado	48	0	46	16333	43
154	Ankaree Subbasin	Non-Federal Reservoir Evaporation - Colorado	0	0	0	0	0
155		Non-Federal Reservoir Evaporation - Kansas	40.5	0	40.5	41	
156		Non-Federal Reservoir Evaporation - Nebraska	0	0	0	0	0
157	Buffalo Subbasin	Non-Federal Reservoir Evaporation - Colorado	0	0	0	0	0
158		Non-Federal Reservoir Evaporation - Nebraska	21	0	21	21	
159	Rock Subbasin	Non-Federal Reservoir Evaporation - Nebraska	82	0	64	82	
160	South Fork Subbasin	Non-Federal Reservoir Evaporation - Colorado	16	0	0	0	0
161		Non-Federal Reservoir Evaporation - Kansas	284.5	0	284.5	285	
162		Non-Federal Reservoir Evaporation - Nebraska	0	0	0	0	0
163	Frenchman Subbasin	Non-Federal Reservoir Evaporation - Nebraska	134.8	0	244	135	
164	Driftwood Subbasin	Non-Federal Reservoir Evaporation - Kansas	6.7	0	6.6	7	
165		Non-Federal Reservoir Evaporation - Nebraska	1.8	0	8.2	2	
166	Red Willow Subbasin	Non-Federal Reservoir Evaporation - Nebraska	181.9	0	155.4	182	
167	Medicine Creek Subbasin	Non-Federal Reservoir Evaporation - Nebraska	292	0	233	292	
168		Non-Federal Reservoir Evaporation - Nebraska - Below Gage	7.2	0	3.6	7	
169	Beaver Subbasin	Non-Federal Reservoir Evaporation - Colorado	0	0	0	0	0
170		Non-Federal Reservoir Evaporation - Kansas	134.7	0	134.7	135	
171		Non-Federal Reservoir Evaporation - Nebraska	50.7	0	23.4	51	
172		Non-Federal Reservoir Evaporation - Nebraska - Below Gage	0	0	0	0	0
173	Sappa Subbasin	Non-Federal Reservoir Evaporation - Kansas	278.9	0	278.3	278	
174		Non-Federal Reservoir Evaporation - Nebraska	42.8	0	22.3	43	
175		Non-Federal Reservoir Evaporation - Nebraska - Below Gage	5.2	0	7.3	5	
176	Prairie Dog Subbasin	Non-Federal Reservoir Evaporation - Kansas	371.1	0	371	371	
177		Non-Federal Reservoir Evaporation - Nebraska	21.2	0	17.4	21	
178	Mainstem Subbasin	Non-Federal Reservoir Evaporation - Kansas	148	0	147.9	148	
179		Non-Federal Reservoir Evaporation - Nebraska - Above Guide Rock Gage	977	0	231.2	977	
180		Non-Federal Reservoir Evaporation - Nebraska - Below Guide Rock Gage	0	0	340	0	
181							
182	Stream Gage Data						
183	North Fork Subbasin	North Fork Republican River At Colorado-Nebraska State Line	1,060	17700	19759	21,060	
184	Ankaree Subbasin	Ankaree River At Haigler	1,151	1060	341	1,151	
185	Buffalo Subbasin	Buffalo Creek Near Haigler	2,227	2090	2276	2,227	
186	Rock Subbasin	Rock Creek At Parks	5,466	4710	5419	5,466	
187	South Fork Subbasin	South Fork Republican River Near Benkelman	0	905,3587	0	0	
188	Frenchman Subbasin	Frenchman Creek At Culbertson	23,235	13360	19926	23,235	
189	Driftwood Subbasin	Driftwood Creek Near McCook	1,911	1100	1201	1,911	
190	Red Willow Subbasin	Red Willow Creek Near Red Willow	3,791	3970	3555	3,791	
191	Medicine Creek Subbasin	Medicine Creek Below Harry Stank	19,992	19850	23300	19,992	
192	Beaver Subbasin	Beaver Creek Near Beaver City	173	220	163	173	
193	Sappa Subbasin	Sappa Creek Near Stamford	262	179,1155	84	262	
194	Prairie Dog Subbasin	Prairie Dog Creek Near Woodruff	3,436	1087,45	147	3,436	
195	Mainstem Subbasin	Republican River At Guide Rock	17,779	21345,53	15019	17,779	
196		Republican River Near Hardy	16,980	52394	41964	16,980	
197							
198	Flood Flow Data						
199	North Fork Subbasin	North Fork Flood Flow	0	0	0	0	
200	Ankaree Subbasin	Ankaree Flood Flow	0	0	0	0	
201	Buffalo Subbasin	Buffalo Flood Flow	0	0	0	0	
202	Rock Subbasin	Rock Flood Flow	0	0	0	0	
203	South Fork Subbasin	Southfork Flood Flow	0	0	0	0	
204	Frenchman Subbasin	Frenchman Flood Flow	0	0	0	0	
205	Driftwood Subbasin	Driftwood Flood Flow	0	0	0	0	
206	Red Willow Subbasin	Red Willow Flood Flow	0	0	0	0	
207	Medicine Creek Subbasin	Medicine Creek Flood Flow	0	0	0	0	
208	Beaver Subbasin	Beaver Flood Flow	0	0	0	0	
209	Sappa Subbasin	Sappa Flood Flow	0	0	0	0	
210	Prairie Dog Subbasin	Prairie Dog Flood Flow	0	0	0	0	
211	Mainstem Subbasin	Mainstem Flood Flow	0	0	0	0	
212							
213	Reservoir Data						
214	South Fork Subbasin	Bonny Reservoir Evaporation	3,430	3375	3158	3,430	

1	A	B	C	D	E	F
2	Calendar Year		2005	2003	2004	2005
215		Bonny Reservoir Change In Storage				
216	Frenchman Subbasin	Enders Reservoir Evaporation	-1,500	-2226	-2900	-1,500
217		Enders Reservoir Change In Storage	1,248	1485	966.6	1,248
218	Red Willow Subbasin	Hugh Butler Lake Evaporation	0	-218	300	0
219		Hugh Butler Lake Change In Storage	2,230	2377	2025.5	2,230
220	Medicine Creek Subbasin	Harry Strunk Lake Evaporation	1,800	2947	2800	1,800
221		Harry Strunk Lake Change In Storage	2,772	3755	2058.9	2,772
222	Prairie Dog Subbasin	Keith Sebelius Lake Evaporation	5,600	3385	-300	5,600
223		Keith Sebelius Lake Change In Storage	1,727	2823	2088.8	1,727
224	Mainstem Subbasin	Swanson Lake Evaporation	100	-4338	-1000	100
225		Swanson Lake Change In Storage	5,638	6086	2588.2	5,638
226		Harlan County Evaporation	4,600	4735	3900	4,600
227		Harlan County Change In Storage	17,706	23664	17017	17,706
228		Lovewell Reservoir Ev charged to the Republican River	21,000	-47110	-6200	21,000
229			2,020	670	1110	2,020
230	Canal Data					
231	North Fork Subbasin	Haigler Canal Diversions - Colorado				
232		Haigler Canal Diversions - Nebraska	2,423	1948	2072	2,423
233		Haigler Canal Diversions	4,745	4965	3732	4,745
234	South Fork Subbasin	Hale Ditch Diversions	7,168	6913	5804	7,168
235	Frenchman Subbasin	Champion Canal Diversions	0	0	0	0
236		Riverside Canal Diversions	0	0	0	0
237		Culbertson Canal Diversions	2,096	1838	1443	2,096
238		Culbertson Canal Extension Diversions	6,562	8002	8674	6,562
239		Culbertson Canal % Return Flow	0	0	0	0
240		Culbertson Canal Extension % Return Flow	78%	0.56	0.658467	1
241	Driftwood Subbasin	Meeker-Driftwood Canal Diversions	100%	1	1	1
242		Meeker-Driftwood Canal % Return Flow	0	0	0	0
243	Red Willow Subbasin	Red Willow Canal Diversions	100%	1	1	1
244		Red Willow Canal % Return Flow	0	0	0	0
245	Prairie Dog Subbasin	Almena Canal Diversions	100%	1	1	1
246		Almena Canal % Return Flow	0	3379	0	0
247	Mainstem Subbasin	Bartley Canal Diversion	100%	0.52	1	1
248		Bartley Canal % Return Flow	0	0	0	0
249		Cambridge Canal Diversion	100%	1	1	1
250		Cambridge Canal % Return Flow	19,732	18332	21964	19,732
251		Naponee Canal Diversion	54%	0.51	0.524585	1
252		Naponee Canal % Return Flow	0	2162	0	0
253		Franklin Canal Diversion	100%	0.53	1	1
254		Franklin Canal % Return Flow	0	15262	0	0
255		Franklin Pump Canal Diversions	100%	0.64	1	1
256		Franklin Pump Canal % Return Flow	0	1687	0	0
257		Superior Canal Diversions	100%	0.57	1	1
258		Superior Canal % Return Flow	4,712	8174	5800	4,712
259			64%	0.57	0.677867	1
260		Courtland Canal Diversions At Headgate				
261		Diversions to Nebraska Courtland	48,737	66500	31501	48,737
262		Nebraska Courtland % Return Flow	0	1591	0	0
263		Courtland Canal, Loss in NE assigned to upper Courtland-KS	100%	0.325913	1	1
264		Courtland Canal, Loss in NE assigned to delivery to Lovewell	415	2841	184	415
265		Courtland Canal At Kansas-Nebraska State Line	8,236	10116	5877	8,236
266		Courtland Canal Diversions to the Upper Courtland District	40,086	51952	25440	40,086
267		Courtland Canal Above Lovewell % Return Flow	1,864	17511	779	1,864
268		Courtland Canal, Loss assigned to deliveries of water to Lovewell, Stateline to Lovewell	63%	0.51802	0.792178	1
269		Courtland Canal Deliveries To Lovewell Reservoir	9,372	10687	10715	9,372
270		Diversions of Republican River water from Lovewell Reservoir to the Courtland Canal below Lovewell	29,265	26596	14130	29,265
271		Courtland Canal Below Lovewell % Return Flow	25,590	21270	25590	25,590
272			0.53	0.456652	0.496149	1
273						
274		To allocate Harlan County evaporation:				
275		Kansas Bostwick Diversions During Irrigation Season (2001-2003 average, no diversion in 2005)	41,081	27100	41081	41,081
		Nebraska Bostwick Diversions During Irrigation Season (2001-2003 average, no diversion in 2005)	40,187	28844	40187	40,187

	A	B
1	North Fork Republican River Sub-Basin	2005
2		
3	Input Data	
4	Groundwater / Model Data	
5	Imported Water Nebraska	0
6	GW CBCU Colorado	14359
7	GW CBCU Kansas	17
8	GW CBCU Nebraska	1443
9		
10	Surface Water Data	
11	North Fork Republican River At Colorado-Nebraska State Line	21060
12	Haigler Canal Diversions - Colorado	2423
13	SW Diversions - Irrigation - Non-Federal Canals- Colorado	2790
14	SW Diversions - Irrigation - Small Pumps - Colorado	0
15	SW Diversions - M&I - Colorado	0
16	Haigler Canal Diversions - Nebraska	4745
17	Non-Federal Reservoir Evaporation - Colorado	43
18	North Fork Flood Flow	0
19		
20	Consumptive Use Calculations	
21	Colorado	
22	Haigler Canal CBCU	1453.8
23	SW CBCU - Irrigation - Non Federal Canals	1674
24	SW CBCU - Irrigation - Small Pumps	0
25	SW CBCU - M&I	0
26	Non-Federal Reservoir Evaporation	43
27	SW CBCU	3171
28	GW CBCU	14359
29	Total CBCU	17530
30		
31	Kansas	
32	GW CBCU	17
33	Total CBCU	20
34		
35	Nebraska	
36	Haigler Canal CBCU	2847
37	SW CBCU	2847
38	GW CBCU	1443
39	Total CBCU	4290
40		
41	Totals	
42	Total SW CBCU	6018
43	Total GW CBCU	15819
44	Total Basin CBCU	21837
45		
46	Virgin Water Supply	
47	North Fork Republican River At Colorado-Nebraska State Line	21060
48	Nebraska Haigler Canal Return Flow To Main Stem	1898
49	Colorado CBCU	17530
50	Kansas CBCU	20
51	Nebraska CBCU	4290
52	Imported Water	0
53	Virgin Water Supply	44800
54	Adjustment For Flood Flows	0
55	Computed Water Supply	44800
56		
57	Allocations	
58	Colorado Percent Of Allocation	22.4%
59	Colorado Allocation	10040
60	Kansas Percent Of Allocation	0.0%
61	Kansas Allocation	0
62	Nebraska Percent Of Allocation	24.6%
63	Nebraska Allocation	11020
64	Total Basin Allocation	21060
65	Percent Of Supply Not Allocated	53.0%
66	Quantity Of Unallocated Supply	23740

	A	B	C	D	E
1	Arikaree River Sub-Basin	2005	2003	2004	2005
2					
3	Input Data				
4	Groundwater / Model Data				
5	Imported Water Nebraska	0	0	0	0
6	GW CBCU Colorado	811	242	353	353
7	GW CBCU Kansas	122	100	116	116
8	GW CBCU Nebraska	250	508	431	431
9					0
10	Surface Water Data				0
11	Arikaree River At Haigler	1151	1060	341	341
12	SW Diversions - Irrigation - Non-Federal Canals - Colorado	0	0	0	0
13	SW Diversions - Irrigation - Small Pumps - Colorado	0	0	0	0
14	SW Diversions - M&I - Colorado	0	0	0	0
15	SW Diversions - Irrigation - Non-Federal Canals - Kansas	0	0	0	0
16	SW Diversions - Irrigation - Small Pumps - Kansas	0	0	0	0
17	SW Diversions - M&I - Kansas	0	0	0	0
18	SW Diversions - Irrigation - Non-Federal Canals - Nebraska	0	0	0	0
19	SW Diversions - Irrigation - Small Pumps - Nebraska	0	0	0	0
20	SW Diversions - M&I - Nebraska	0	0	0	0
21	Non-Federal Reservoir Evaporation - Colorado	0	0	0	0
22	Non-Federal Reservoir Evaporation - Kansas	40.5	0	40.5	40.5
23	Non-Federal Reservoir Evaporation - Nebraska	0	0	0	0
24	Arikaree Flood Flow	0	0	0	0
25					0
26	Consumptive Use Calculations				0
27	Colorado				0
28	SW CBCU - Irrigation - Non Federal Canals	0	0	0	0
29	SW CBCU - Irrigation - Small Pumps	0	0	0	0
30	SW CBCU - M&I	0	0	0	0
31	Non-Federal Reservoir Evaporation	0	0	0	0
32	SW CBCU	0	0	0	0
33	GW CBCU	811	242	353	353
34	Total CBCU	810	240	350	350
35					0
36	Kansas				0
37	SW CBCU - Irrigation - Non Federal Canals	0	0	0	0
38	SW CBCU - Irrigation - Small Pumps	0	0	0	0
39	SW CBCU - M&I	0	0	0	0
40	Non-Federal Reservoir Evaporation	40.5	0	40.5	40.5
41	SW CBCU	41	0	40.5	40.5
42	GW CBCU	122	100	116	116
43	Total CBCU	160	100	160	160
44					0
45	Nebraska				0
46	SW CBCU - Irrigation - Non Federal Canals	0	0	0	0
47	SW CBCU - Irrigation - Small Pumps	0	0	0	0
48	SW CBCU - M&I	0	0	0	0
49	Non-Federal Reservoir Evaporation	0	0	0	0
50	SW CBCU	0	0	0	0
51	GW CBCU	250	508	431	431
52	Total CBCU	250	510	430	430
53					0
54	Totals				0
55	Total SW CBCU	41	0	40.5	40.5
56	Total GW CBCU	1183	850	900	900
57	Total Basin CBCU	1220	850	940	940
58					0
59	Virgin Water Supply				0
60	Arikaree River At Haigler	1151	1060	341	341
61	Colorado CBCU	810	240	350	350
62	Kansas CBCU	160	100	160	160
63	Nebraska CBCU	250	510	430	430
64	Imported Water	0	0	0	0
65	Virgin Water Supply	2370	1910	1280	1280
66	Adjustment For Flood Flows	0	0	0	0
67	Computed Water Supply	2370	1910	1280	1280
68					0
69	Allocations				0
70	Colorado Percent Of Allocation	78.5%	0.785	0.785	0.785
71	Colorado Allocation	1860	1500	1000	1000
72	Kansas Percent Of Allocation	5.1%	0.051	0.051	0.051
73	Kansas Allocation	120	100	70	70
74	Nebraska Percent Of Allocation	16.8%	0.168	0.168	0.168
75	Nebraska Allocation	400	320	220	220
76	Total Basin Allocation	2380	1920	1290	1290
77	Percent Of Supply Not Allocated	-0.4%	-0.004	-0.004	-0.004
78	Quantity Of Unallocated Supply	-10	-10	-10	-10

	A	B	C	D	E
1	Buffalo Creek Sub-Basin	2005	2003	2004	2005
2					
3	Input Data				
4	Groundwater / Model Data				
5	Imported Water Nebraska	0	0	0	0
6	GW CBCU Colorado	306	265	290	290
7	GW CBCU Kansas	0	0	0	0
8	GW CBCU Nebraska	3357	3338	3333	3333
9					0
10	Surface Water Data				0
11	Buffalo Creek Near Haigler	2227	2090	2276	2276
12	SW Diversions - Irrigation - Non-Federal Canals - Colorado	0	0	0	0
13	SW Diversions - Irrigation - Small Pumps - Colorado	0	0	0	0
14	SW Diversions - M&I - Colorado	0	0	0	0
15	SW Diversions - Irrigation - Non-Federal Canals - Nebraska	171.45	587	334	334
16	SW Diversions - Irrigation - Small Pumps - Nebraska	33.67	70.2	55.7	55.7
17	SW Diversions - M&I - Nebraska	0	0	0	0
18	Non-Federal Reservoir Evaporation - Colorado	0	0	0	0
19	Non-Federal Reservoir Evaporation - Nebraska	21	0	21.7	21.7
20	Buffalo Flood Flow	0	0	0	0
21					0
22	Consumptive Use Calculations				0
23	Colorado				0
24	SW Diversions - Irrigation - Non-Federal Canals - Colorado	0	0	0	0
25	SW Diversions - Irrigation - Small Pumps - Colorado	0	0	0	0
26	SW Diversions - M&I - Colorado	0	0	0	0
27	Non-Federal Reservoir Evaporation - Colorado	0	0	0	0
28	SW CBCU	0	0	0	0
29	GW CBCU	306	265	290	290
30	Total CBCU	310	270	290	290
31					0
32	Kansas				0
33	GW CBCU	0	0	0	0
34	Total CBCU	0	0	0	0
35					0
36	Nebraska				0
37	SW CBCU - Irrigation - Non Federal Canals	102.87	352.2	200.4	200.4
38	SW CBCU - Irrigation - Small Pumps	25	52.65	41.775	41.775
39	SW CBCU - M&I	0	0	0	0
40	Non-Federal Reservoir Evaporation	21	0	21.7	21.7
41	SW CBCU	149	404.85	263.875	263.875
42	GW CBCU	3357	3338	3333	3333
43	Total CBCU	3510	3740	3600	3600
44					0
45	Totals				0
46	Total SW CBCU	149	404.85	263.875	263.875
47	Total GW CBCU	3663	3603	3623	3623
48	Total Basin CBCU	3810	4010	3890	3890
49					0
50	Virgin Water Supply				0
51	Buffalo Creek Near Haigler	2227	2090	2276	2276
52	Colorado CBCU	310	270	290	290
53	Kansas CBCU	0	0	0	0
54	Nebraska CBCU	3510	3740	3600	3600
55	Imported Water	0	0	0	0
56	Virgin Water Supply	6050	6100	6170	6170
57	Adjustment For Flood Flows	0	0	0	0
58	Computed Water Supply	6050	6100	6170	6170
59					0
60	Allocations				0
61	Colorado Percent Of Allocation	0.0%	0	0	0
62	Colorado Allocation	0	0	0	0
63	Kansas Percent Of Allocation	0.0%	0	0	0
64	Kansas Allocation	0	0	0	0
65	Nebraska Percent Of Allocation	33.0%	0.33	0.33	0.33
66	Nebraska Allocation	2000	2010	2040	2040
67	Total Basin Allocation	2000	2010	2040	2040
68	Percent Of Supply Not Allocated	67.0%	0.67	0.67	0.67
69	Quantity Of Unallocated Supply	4050	4090	4130	4130

	A	B	C	D	E
1	Rock Creek Sub-Basin				
2		2005	2003	2004	2005
3	Input Data				
4	Groundwater / Model Data				
5	Imported Water Nebraska				
6	GW CBCU Colorado	0	0	0	0
7	GW CBCU Kansas	61	59	58	58
8	GW CBCU Nebraska	0	0	0	0
9		3744	3419	3581	3581
10	Surface Water Data				
11	Rock Creek At Parks				
12	SW Diversions - Irrigation - Non-Federal Canals - Nebraska	5466	4710	5419	5419
13	SW Diversions - Irrigation - Small Pumps - Nebraska	0	0	0	0
14	SW Diversions - M&I - Nebraska	0	0	0	0
15	Non-Federal Reservoir Evaporation - Nebraska	0	0	0	0
16	Rock Flood Flow	82	0	64	64
17		0	0	0	0
18	Consumptive Use Calculations				
19	Colorado				
20	GW CBCU				
21	Total CBCU	61	59	58	58
22		60	60	60	60
23	Kansas				
24	GW CBCU				
25	Total CBCU	0	0	0	0
26		0	0	0	0
27	Nebraska				
28	SW Diversions - Irrigation - Non-Federal Canals - Nebraska	0	0	0	0
29	SW CBCU - Irrigation - Small Pumps	0	0	0	0
30	SW CBCU - M&I	0	0	0	0
31	Non-Federal Reservoir Evaporation	0	0	0	0
32	SW CBCU	82	0	64	64
33	GW CBCU	82	0	64	64
34	Total CBCU	3744	3419	3581	3581
35		3830	3420	3650	3650
36	Totals				
37	Total SW CBCU				
38	Total GW CBCU	82	0	64	64
39	Total Basin CBCU	3805	3478	3639	3639
40		3890	3480	3700	3700
41	Virgin Water Supply				
42	Rock Creek At Parks				
43	Colorado CBCU	5466	4710	5419	5419
44	Kansas CBCU	60	60	60	60
45	Nebraska CBCU	0	0	0	0
46	Imported Water	3830	3420	3650	3650
47	Virgin Water Supply	0	0	0	0
48	Adjustment For Flood Flows	9360	8190	9130	9130
49	Computed Water Supply	0	0	0	0
50		9360	8190	9130	9130
51	Allocations				
52	Colorado Percent Of Allocation				
53	Colorado Allocation	0.0%	0	0	0
54	Kansas Percent Of Allocation	0	0	0	0
55	Kansas Allocation	0.0%	0	0	0
56	Nebraska Percent Of Allocation	0	0	0	0
57	Nebraska Allocation	40.0%	0.4	0.4	0.4
58	Total Basin Allocation	3740	3280	3650	3650
59	Percent Of Supply Not Allocated	3740	3280	3650	3650
60	Quantity Of Unallocated Supply	60.0%	0.6	0.6	0.6
		5620	4910	5480	5480

	A	B	C	D	E
1	South Fork Republican River Sub-Basin	2005	2003	2004	2005
2					
3	Input Data				
4	Groundwater / Model Data				
5	Imported Water Nebraska	0	0	0	0
6	GW CBCU Colorado	14952	12115	12874	12874
7	GW CBCU Kansas	7227	5351	5781	5781
8	GW CBCU Nebraska	1372	1347	1202	1202
9					0
10	Surface Water Data				0
11	South Fork Republican River Near Benkelman	0	905.3587	0	0
12	Bonny Reservoir Evaporation	3429.508	3375	3158.1	3158.1
13	Bonny Reservoir Change In Storage	-1500	-2226	-2900	-2900
14	Hale Ditch Diversions	0	0	0	0
15	SW Diversions - Irrigation - Non-Federal Canals - Colorado	458	996	1283.3	1283.3
16	SW Diversions - Irrigation - Small Pumps - Colorado	0	0	0	0
17	SW Diversions - M&I - Colorado	0	0	0	0
18	SW Diversions - Irrigation - Non-Federal Canals - Kansas	0	0	0	0
19	SW Diversions - Irrigation - Small Pumps - Kansas	13	39	25	25
20	SW Diversions - M&I - Kansas	0	0	0	0
21	SW Diversions - Irrigation - Non-Federal Canals - Nebraska	0	0	0	0
22	SW Diversions - Irrigation - Small Pumps - Nebraska	0	0	0	0
23	SW Diversions - M&I - Nebraska	0	0	0	0
24	Non-Federal Reservoir Evaporation - Colorado	0	0	0	0
25	Non-Federal Reservoir Evaporation - Kansas	284.5	0	284.5	284.5
26	Non-Federal Reservoir Evaporation - Nebraska	0	0	0	0
27	Southfork Flood Flow	0	0	0	0
28					0
29	Consumptive Use Calculations				0
30	Colorado				0
31	Hale Ditch CBCU	0	0	0	0
32	SW CBCU - Irrigation - Non Federal Canals	274.8	597.6	769.98	769.98
33	SW CBCU - Irrigation - Small Pumps	0	0	0	0
34	SW CBCU - M&I	0	0	0	0
35	Non-Federal Reservoir Evaporation	0	0	0	0
36	Bonny Reservoir Evaporation	3429.508	3375	3158.1	3158.1
37	SW CBCU	3704	3972.6	3928.08	3928.08
38	GW CBCU	14952	12115	12874	12874
39	Total CBCU	18660	16090	16800	16800
40					0
41	Kansas				0
42	SW CBCU - Irrigation - Non Federal Canals	0	0	0	0
43	SW CBCU - Irrigation - Small Pumps	9.75	29.25	18.75	18.75
44	SW CBCU - M&I	0	0	0	0
45	Non-Federal Reservoir Evaporation	284.5	0	284.5	284.5
46	SW CBCU	294	29.25	303.25	303.25
47	GW CBCU	7227	5351	5781	5781
48	Total CBCU	7520	5380	6080	6080
49					0
50	Nebraska				0
51	SW CBCU - Irrigation - Non Federal Canals	0	0	0	0
52	SW CBCU - Irrigation - Small Pumps	0	0	0	0
53	SW CBCU - M&I	0	0	0	0
54	Non-Federal Reservoir Evaporation	0	0	0	0
55	SW CBCU	0	0	0	0
56	GW CBCU	1372	1347	1202	1202
57	Total CBCU	1370	1350	1200	1200
58					0
59	Totals				0
60	Total SW CBCU	3999	4001.85	4231.33	4231.33
61	Total GW CBCU	23551	18813	19857	19857
62	Total Basin CBCU	27550	22810	24090	24090
63					0
64	Virgin Water Supply				0
65	South Fork Republican River Near Benkelman	0	905.3587	0	0
66	Colorado CBCU	18660	16090	16800	16800
67	Kansas CBCU	7520	5380	6080	6080
68	Nebraska CBCU	1370	1350	1200	1200
69	Bonny Reservoir Change In Storage	-1500	-2226	-2900	-2900
70	Imported Water	0	0	0	0
71	Virgin Water Supply	26050	21500	21180	21180
72	Adjustment For Flood Flows	0	0	0	0
73	Computed Water Supply	27550	23730	24080	24080
74					0
75	Allocations				0
76	Colorado Percent Of Allocation	44.4%	0.444	0.444	0.444
77	Colorado Allocation	12230	10540	10690	10690
78	Kansas Percent Of Allocation	40.2%	0.402	0.402	0.402
79	Kansas Allocation	11080	9540	9680	9680
80	Nebraska Percent Of Allocation	1.4%	0.014	0.014	0.014
81	Nebraska Allocation	390	330	340	340
82	Total Basin Allocation	23700	20410	20710	20710
83	Percent Of Supply Not Allocated	14.0%	0.14	0.14	0.14
84	Quantity Of Unallocated Supply	3850	3320	3370	3370

	A	B	C	D	E
1	Frenchman Creek Sub-Basin				
2		2005	2003	2004	2005
3	Input Data				
4	Groundwater / Model Data				
5	Imported Water Nebraska	0	0	0	0
6	GW CBCU Colorado	42	37	39	39
7	GW CBCU Kansas	0	0	0	0
8	GW CBCU Nebraska	82719	85647	89727	89727
9					
10	Surface Water Constants				
11	Culbertson Canal % Return Flow	78%	0.56	0.658467	0.658467
12	Culbertson Canal Extension % Return Flow	100%	1	1	1
13					
14	Surface Water Data				
15	Frenchman Creek At Culbertson	23235	13360	19926	19926
16	Enders Reservoir Evaporation	1247.6	1485	966.6	966.6
17	Enders Reservoir Change In Storage	0	-218	300	300
18	Champion Canal Diversions	0	0	0	0
19	Riverside Canal Diversions	2096	1838	1443	1443
20	Culbertson Canal Diversions	6562	8002	8674	8674
21	Culbertson Canal Extension Diversions	0	0	0	0
22	SW Diversions - Irrigation - Non-Federal Canals - Nebraska	0	0	0	0
23	SW Diversions - Irrigation - Small Pumps - Nebraska	1.479	3.09	21	21
24	SW Diversions - M&I - Nebraska	0	0	0	0
25	Non-Federal Reservoir Evaporation - Nebraska	134.8	0	244.1	244.1
26	Frenchman Flood Flow	0	0	0	0
27					
28	Consumptive Use Calculations				
29	Colorado				
30	GW CBCU	42	37	39	39
31	Total CBCU	40	40	40	40
32					
33	Kansas				
34	GW CBCU	0	0	0	0
35	Total CBCU	0	0	0	0
36					
37	Nebraska				
38	Champion Canal CBCU	0	0	0	0
39	Riverside Canal CBCU	1257.6	1102.8	865.8	865.8
40	Culbertson Canal CBCU	1437.7	3520.88	2962.454	2962.454
41	Culbertson Canal Extension CBCU	0	0	0	0
42	SW CBCU - Irrigation - Non Federal Canals	0	0	0	0
43	SW CBCU - Irrigation - Small Pumps	1	2.3175	15.75	15.75
44	SW CBCU - M&I	0	0	0	0
45	Enders Reservoir Evaporation	1248	1485	966.6	966.6
46	Non-Federal Reservoir Evaporation	134.8	0	244.1	244.1
47	SW CBCU	4079	6110.998	5054.704	5054.704
48	GW CBCU	82719	85647	89727	89727
49	Total CBCU	86800	91760	94780	94780
50					
51	Totals				
52	Total SW CBCU	4079	6110.998	5054.704	5054.704
53	Total GW CBCU	82761	85684	89766	89766
54	Total Basin CBCU	86840	91790	94820	94820
55					
56	Virgin Water Supply				
57	Frenchman Creek At Culbertson	23235	13360	19926	19926
58	17% Culbertson Canal Return Flow to Main Stem	871	761.7904	970.9628	970.9628
59	100% Culbertson Canal Extension Return Flow to Main Stem	0	0	0	0
60	Colorado CBCU	40	40	40	40
61	Kansas CBCU	0	0	0	0
62	Nebraska CBCU	86800	91760	94780	94780
63	Enders Reservoir Change In Storage	0	-218	300	300
64	Imported Water	0	0	0	0
65	Virgin Water Supply	110950	105700	116020	116020
66	Adjustment For Flood Flows	0	0	0	0
67	Computed Water Supply	110950	105920	115720	115720
68					
69	Allocations				
70	Colorado Percent Of Allocation	0.0%	0	0	0
71	Colorado Allocation	0	0	0	0
72	Kansas Percent Of Allocation	0.0%	0	0	0
73	Kansas Allocation	0	0	0	0
74	Nebraska Percent Of Allocation	53.6%	0.536	0.536	0.536
75	Nebraska Allocation	59470	56770	62030	62030
76	Total Basin Allocation	59470	56770	62030	62030
77	Percent Of Supply Not Allocated	46.4%	0.464	0.464	0.464
78	Quantity Of Unallocated Supply	51480	49150	53690	53690

	A	B	C	D	E
1	Driftwood Creek Sub-Basin	2005	2003	2004	2005
2					
3	Input Data				
4	Groundwater / Model Data				
5	Imported Water Nebraska	0	0	0	0
6	GW CBCU Colorado	0	0	0	0
7	GW CBCU Kansas	0	0	0	0
8	GW CBCU Nebraska	1481	1391	1479	1479
9					0
10	Surface Water Constants				
11	Meeker-Driftwood Canal % Return Flow	100%	1	1	1
12					0
13	Surface Water Data				
14	Driftwood Creek Near McCook	1911	1100	1201	1201
15	SW Diversions - Irrigation - Non-Federal Canals - Kansas	0	0	0	0
16	SW Diversions - Irrigation - Small Pumps - Kansas	0	0	0	0
17	SW Diversions - M&I - Kansas	0	0	0	0
18	Meeker-Driftwood Canal Diversions	0	0	0	0
19	SW Diversions - Irrigation - Non-Federal Canals - Nebraska	0	0	0	0
20	SW Diversions - Irrigation - Small Pumps - Nebraska	0	0	15.5	15.5
21	SW Diversions - M&I - Nebraska	0	0	0	0
22	Non-Federal Reservoir Evaporation - Kansas	6.6	0	6.6	6.6
23	Non-Federal Reservoir Evaporation - Nebraska	1.8	0	8.2	8.2
24	Driftwood Flood Flow	0	0	0	0
25					0
26	Consumptive Use Calculations				
27	Colorado				
28	GW CBCU	0	0	0	0
29	Total CBCU	0	0	0	0
30					0
31	Kansas				
32	SW CBCU - Irrigation - Non Federal Canals	0	0	0	0
33	SW CBCU - Irrigation - Small Pumps	0	0	0	0
34	SW CBCU - M&I	0	0	0	0
35	Non-Federal Reservoir Evaporation	6.6	0	6.6	6.6
36	SW CBCU	7	0	6.6	6.6
37	GW CBCU	0	0	0	0
38	Total CBCU	10	0	10	10
39					0
40	Nebraska				
41	SW CBCU - Irrigation - Non Federal Canals	0	0	0	0
42	SW CBCU - Irrigation - Small Pumps	0	0	11.625	11.625
43	SW CBCU - M&I	0	0	0	0
44	Non-Federal Reservoir Evaporation	1.8	0	8.2	8.2
45	SW CBCU	2	0	19.825	19.825
46	GW CBCU	1481	1391	1479	1479
47	Total CBCU	1480	1390	1500	1500
48					0
49	Totals				
50	Total SW CBCU	8	0	26.425	26.425
51	Total GW CBCU	1481	1391	1479	1479
52	Total Basin CBCU	1490	1390	1510	1510
53					0
54	Virgin Water Supply				
55	Driftwood Creek Near McCook	1911	1100	1201	1201
56	24% Meeker Driftwood Canal Return	0	0	0	0
57	Colorado CBCU	0	0	0	0
58	Kansas CBCU	10	0	10	10
59	Nebraska CBCU	1480	1390	1500	1500
60	Imported Water	0	0	0	0
61	Virgin Water Supply	3400	2490	2710	2710
62	Adjustment For Flood Flows	0	0	0	0
63	Computed Water Supply	3400	2490	2710	2710
64					0
65	Allocations				
66	Colorado Percent Of Allocation	0.0%	0	0	0
67	Colorado Allocation	0	0	0	0
68	Kansas Percent Of Allocation	6.9%	0.069	0.069	0.069
69	Kansas Allocation	230	170	190	190
70	Nebraska Percent Of Allocation	16.4%	0.164	0.164	0.164
71	Nebraska Allocation	560	410	440	440
72	Total Basin Allocation	790	580	630	630
73	Percent Of Supply Not Allocated	76.7%	0.767	0.767	0.767
74	Quantity Of Unallocated Supply	2610	1910	2080	2080

	A	B	C	D	E
1	Red Willow Creek Sub-Basin				
2		2005	2003	2004	2005
3	Input Data				
4	Groundwater / Model Data				
5	Imported Water Nebraska				
6	GW CBCU Colorado	35	20	25	25
7	GW CBCU Kansas	0	0	0	0
8	GW CBCU Nebraska	0	0	0	0
9		8305	7815	8221	8221
10	Surface Water Constants				
11	Red Willow Canal % Return Flow	100%	1	1	1
12					
13	Surface Water Data				
14	Red Willow Creek Near Red Willow	3791	3970	3555	3555
15	Hugh Butler Lake Evaporation	2230.2614	2377	2025.5	2025.5
16	Hugh Butler Lake Change In Storage	1800	2947	2800	2800
17	Red Willow Canal Diversions	0	0	0	0
18	SW Diversions - Irrigation - Non-Federal Canals - Nebraska	0	0	0	0
19	SW Diversions - Irrigation - Small Pumps - Nebraska	0	0	0	0
20	SW Diversions - M&I - Nebraska	123.25	341	167	167
21	Non-Federal Reservoir Evaporation - Nebraska	0	0	0	0
22	Red Willow Flood Flow	181.9	0	155.4	155.4
23		0	0	0	0
24	Consumptive Use Calculations				
25	Colorado				
26	GW CBCU	0	0	0	0
27	Total CBCU	0	0	0	0
28		0	0	0	0
29	Kansas				
30	GW CBCU	0	0	0	0
31	Total CBCU	0	0	0	0
32		0	0	0	0
33	Nebraska				
34	Red Willow Canal CBCU (10%)	0	0	0	0
35	SW CBCU - Irrigation - Non Federal Canals	0	0	0	0
36	SW CBCU - Irrigation - Small Pumps	0	0	0	0
37	SW CBCU - M&I	92	255.75	125.25	125.25
38	Hugh Butler Lake Evaporation (10%)	0	0	0	0
39	Non-Federal Reservoir Evaporation	223	237.7	202.55	202.55
40	SW CBCU	181.9	0	155.4	155.4
41	GW CBCU	497	493.45	483.2	483.2
42	Total CBCU	8305	7815	8221	8221
43		8800	8310	8700	8700
44	Totals				
45	Total SW CBCU				
46	Total GW CBCU	497	493.45	483.2	483.2
47	Total Basin CBCU	8305	7815	8221	8221
48		8800	8310	8700	8700
49	Virgin Water Supply				
50	Red Willow Creek Near Red Willow				
51	Red Willow Canal CBCU (90%)	3791	3970	3555	3555
52	Colorado CBCU	0	0	0	0
53	Kansas CBCU	0	0	0	0
54	Nebraska CBCU	0	0	0	0
55	Hugh Butler Lake Change In Storage	8800	8310	8700	8700
56	Hugh Butler Lake Evaporation (90%)	1800	2947	2800	2800
57	90% Red Willow Canal Return Flow To Main Stem	2007.2353	2139.3	1822.95	1822.95
58	Imported Water	0	0	0	0
59	Virgin Water Supply	35	20	25	25
60	Adjustment For Flood Flows	16360	17350	16850	16850
61	Computed Water Supply	0	0	0	0
62		14560	14400	14050	14050
63	Allocations				
64	Colorado Percent Of Allocation				
65	Colorado Allocation	0.0%	0	0	0
66	Kansas Percent Of Allocation	0	0	0	0
67	Kansas Allocation	0.0%	0	0	0
68	Nebraska Percent Of Allocation	0	0	0	0
69	Nebraska Allocation	19.2%	0.192	0.192	0.192
70	Total Basin Allocation	2800	2760	2700	2700
71	Percent Of Supply Not Allocated	2800	2760	2700	2700
72	Quantity Of Unallocated Supply	80.8%	0.808	0.808	0.808
		11760	11640	11350	11350

	A	B	C	D	E
1	Medicine Creek Sub-Basin	2005	2003	2004	2005
2					
3	Input Data				
4	Groundwater / Model Data				
5	Imported Water Nebraska	9633	9423	9522	9522
6	GW CBCU Colorado	0	0	0	0
7	GW CBCU Kansas	0	0	0	0
8	GW CBCU Nebraska	20766	21139	21296	21296
9					0
10	Surface Water Data				
11	Medicine Creek Below Harry Strunk	19992	19850	23300	23300
12	Harry Strunk Lake Evaporation	2771.71	3755	2058.9	2058.9
13	Harry Strunk Lake Change In Storage	5600	3385	-300	-300
14	SW Diversions - Irrigation - Non-Federal Canals - Nebraska	0	0	0	0
15	SW Diversions - Irrigation - Small Pumps - Nebraska	258.8	291	255	255
16	SW Diversions - M&I - Nebraska	0	0	0	0
17	SW Diversions - Irrigation - Non-Federal Canals - Nebraska - Below Gage	0	0	0	0
18	SW Diversions - Irrigation - Small Pumps - Nebraska - Below Gage	77.6	106	57.5	57.5
19	SW Diversions - M&I - Nebraska - Below Gage	0	0	0	0
20	Non-Federal Reservoir Evaporation - Nebraska	292.3	0	233.2	233.2
21	Non-Federal Reservoir Evaporation - Nebraska - Below Gage	7.2	0	3.6	3.6
22	Medicine Creek Flood Flow	0	0	0	0
23					0
24	Consumptive Use Calculations				
25	Colorado				
26	GW CBCU	0	0	0	0
27	Total CBCU	0	0	0	0
28					0
29	Kansas				
30	GW CBCU	0	0	0	0
31	Total CBCU	0	0	0	0
32					0
33	Nebraska				
34	SW CBCU - Irrigation - Non Federal Canals	0	0	0	0
35	SW CBCU - Irrigation - Small Pumps	194	218.25	191.25	191.25
36	SW CBCU - M&I	0	0	0	0
37	SW CBCU - Irrigation - Non Federal Canals - Below Gage	0	0	0	0
38	SW CBCU - Irrigation - Small Pumps - Below Gage	58	79.5	43.125	43.125
39	SW CBCU - M&I - Below Gage	0	0	0	0
40	Non-Federal Reservoir Evaporation	292.3	0	233.2	233.2
41	Non-Federal Reservoir Evaporation - Below gage	7.2	0	3.6	3.6
42	SW CBCU	552	297.75	471.175	471.175
43	GW CBCU	20766	21139	21296	21296
44	Total CBCU	21320	21440	21770	21770
45					0
46	Totals				
47	Total SW CBCU	552	297.75	471.175	471.175
48	Total GW CBCU	20766	21139	21296	21296
49	Total Basin CBCU	21320	21440	21770	21770
50					0
51	CBCU Below Gage				
52	SW CBCU Below The Gage	65	79.5	46.725	46.725
53	Total	65	79.5	46.725	46.725
54					0
55	Virgin Water Supply				
56	Medicine Creek Below Harry Strunk	19992	19850	23300	23300
57	Colorado CBCU	0	0	0	0
58	Kansas CBCU	0	0	0	0
59	Nebraska CBCU	21320	21440	21770	21770
60	SW CBCU Below The Gage	65	79.5	46.725	46.725
61	Harry Strunk Lake Change In Storage	5600	3385	-300	-300
62	Harry Strunk Lake Evaporation	2771.71	3755	2058.9	2058.9
63	Imported Water	9633	9423	9522	9522
64	Virgin Water Supply	39990	38930	37260	37260
65	Adjustment For Flood Flows	0	0	0	0
66	Computed Water Supply	34390	35550	37560	37560
67					0
68	Allocations				
69	Colorado Percent Of Allocation	0.0%	0	0	0
70	Colorado Allocation	0	0	0	0
71	Kansas Percent Of Allocation	0.0%	0	0	0
72	Kansas Allocation	0	0	0	0
73	Nebraska Percent Of Allocation	9.1%	0.091	0.091	0.091
74	Nebraska Allocation	3130	3240	3420	3420
75	Total Basin Allocation	3130	3240	3420	3420
76	Percent Of Supply Not Allocated	90.9%	0.909	0.909	0.909
77	Quantity Of Unallocated Supply	31260	32310	34140	34140

	A	B	C	D	E
1	Beaver Creek Sub-Basin				
2		2005	2003	2004	2005
3	Input Data				
4	Groundwater / Model Data				
5	Imported Water Nebraska	0	0	0	0
6	GW CBCU Colorado	0	0	0	0
7	GW CBCU Kansas	1519	274	205	205
8	GW CBCU Nebraska	2684	777	1278	1278
9					
10	Surface Water Data				
11	Beaver Creek Near Beaver City	173	220	163	163
12	SW Diversions - Irrigation - Non-Federal Canals- Colorado	0	0	0	0
13	SW Diversions - Irrigation - Small Pumps - Colorado	0	0	0	0
14	SW Diversions - M&I - Colorado	0	0	0	0
15	SW Diversions - Irrigation - Non-Federal Canals- Kansas	0	0	0	0
16	SW Diversions - Irrigation - Small Pumps - Kansas	12	26	22	22
17	SW Diversions - M&I - Kansas	0	0	0	0
18	SW Diversions - Irrigation - Non-Federal Canals - Nebraska	0	0	0	0
19	SW Diversions - Irrigation - Small Pumps - Nebraska	0	0	0	0
20	SW Diversions - M&I - Nebraska	0	0	0	0
21	SW Diversions - Irrigation - Non-Federal Canals - Nebraska -Below Gage	0	0	0	0
22	SW Diversions - Irrigation - Small Pumps -Nebraska - Below Gage	0	0	0	0
23	SW Diversions - M&I - Nebraska - Below Gage	0	0	0	0
24	Non-Federal Reservoir Evaporation - Colorado	0	0	0	0
25	Non-Federal Reservoir Evaporation - Kansas	134.7	0	134.7	134.7
26	Non-Federal Reservoir Evaporation - Nebraska	50.7	0	23.4	23.4
27	Non-Federal Reservoir Evaporation - Nebraska - Below Gage	0	0	0	0
28	Beaver Flood Flow	0	0	0	0
29					
30	Consumptive Use Calculations				
31	Colorado				
32	SW CBCU - Irrigation - Non Federal Canals	0	0	0	0
33	SW CBCU - Irrigation - Small Pumps	0	0	0	0
34	SW CBCU - M&I	0	0	0	0
35	Non-Federal Reservoir Evaporation	0	0	0	0
36	SW CBCU	0	0	0	0
37	GW CBCU	0	0	0	0
38	Total CBCU	0	0	0	0
39					
40	Kansas				
41	SW CBCU - Irrigation - Non Federal Canals	0	0	0	0
42	SW CBCU - Irrigation - Small Pumps	9	19.5	16.5	16.5
43	SW CBCU - M&I	0	0	0	0
44	Non-Federal Reservoir Evaporation	134.7	0	134.7	134.7
45	SW CBCU	144	19.5	151.2	151.2
46	GW CBCU	1519	274	205	205
47	Total CBCU	1660	290	360	360
48					
49	Nebraska				
50	SW CBCU - Irrigation - Non Federal Canals	0	0	0	0
51	SW CBCU - Irrigation - Small Pumps	0	0	0	0
52	SW CBCU - M&I	0	0	0	0
53	SW CBCU - Irrigation - Non Federal Canals - Below Gage	0	0	0	0
54	SW CBCU - Irrigation - Small Pumps - Below Gage	0	0	0	0
55	SW CBCU - M&I - Below Gage	0	0	0	0
56	Non-Federal Reservoir Evaporation	50.7	0	23.4	23.4
57	Non-Federal Reservoir Evaporation - Below gage	0	0	0	0
58	SW CBCU	51	0	23.4	23.4
59	GW CBCU	2684	777	1278	1278
60	Total CBCU	2730	780	1300	1300
61					
62	CBCU Below Gage				
63	SW CBCU Below The Gage	0	0	0	0
64	Total	0	0	0	0
65					
66	Totals				
67	Total SW CBCU	194	19.5	174.6	174.6
68	Total GW CBCU	4203	1051	1483	1483
69	Total Basin CBCU	4400	1070	1660	1660
70					
71	Virgin Water Supply				
72	Beaver Creek Near Beaver City	173	220	163	163
73	Colorado CBCU	0	0	0	0
74	Kansas CBCU	1660	290	360	360
75	Nebraska CBCU	2730	780	1300	1300
76	SW CBCU Below The Gage	0	0	0	0
77	Imported Water	0	0	0	0
78	Virgin Water Supply	0	0	0	0
79	Adjustment For Flood Flows	4560	1290	1820	1820
80	Computed Water Supply	0	0	0	0
81		4560	1290	1820	1820
82	Allocations				
83	Colorado Percent Of Allocation	20.0%	0.2	0.2	0.2
84	Colorado Allocation	910	260	360	360
85	Kansas Percent Of Allocation	38.8%	0.388	0.388	0.388
86	Kansas Allocation	1770	500	710	710
87	Nebraska Percent Of Allocation	40.6%	0.406	0.406	0.406
88	Nebraska Allocation	1850	520	740	740
89	Total Basin Allocation	4530	1280	1810	1810
90	Percent Of Supply Not Allocated	0.6%	0.006	0.006	0.006
91	Quantity Of Unallocated Supply	30	10	10	10

	A	B	C	D	E
1	Sappa Creek Sub-Basin	2005	2003	2004	2005
2					
3	Input Data				
4	Groundwater / Model Data				
5	Imported Water Nebraska	0	0	0	0
6	GW CBCU Colorado	0	0	0	0
7	GW CBCU Kansas	-1462	-274	-205	-205
8	GW CBCU Nebraska	702	500	556	556
9					0
10	Surface Water Data				
11	Sappa Creek Near Stamford	262	179.1155	84	84
12	Beaver Creek Near Beaver City	173	220	163	163
13	SW Diversions - Irrigation - Non-Federal Canals - Kansas	0	0	0	0
14	SW Diversions - Irrigation - Small Pumps - Kansas	3	14	28	28
15	SW Diversions - M&I - Kansas	0	0	0	0
16	SW Diversions - Irrigation - Non-Federal Canals - Nebraska	0	0	0	0
17	SW Diversions - Irrigation - Small Pumps - Nebraska	53.6	0	19.6	19.6
18	SW Diversions - M&I - Nebraska	0	0	0	0
19	SW Diversions - Irrigation - Non-Federal Canals - Nebraska - Below Gage	0	0	0	0
20	SW Diversions - Irrigation - Small Pumps - Nebraska - Below Gage	0	19.8	0	0
21	SW Diversions - M&I - Nebraska - Below Gage	0	0	0	0
22	Non-Federal Reservoir Evaporation - Kansas	278.3	0	278.3	278.3
23	Non-Federal Reservoir Evaporation - Nebraska	42.8	0	22.3	22.3
24	Non-Federal Reservoir Evaporation - Nebraska - Below Gage	5.2	0	7.3	7.3
25	Sappa Flood Flow	0	0	0	0
26					0
27	Consumptive Use Calculations				
28	Colorado				
29	GW CBCU	0	0	0	0
30	Total CBCU	0	0	0	0
31					0
32	Kansas				
33	SW CBCU - Irrigation - Non Federal Canals	0	0	0	0
34	SW CBCU - Irrigation - Small Pumps	2.25	10.5	21	21
35	SW CBCU - M&I	0	0	0	0
36	Non-Federal Reservoir Evaporation	278.3	0	278.3	278.3
37	SW CBCU	281	10.5	299.3	299.3
38	GW CBCU	-1462	-274	-205	-205
39	Total CBCU	-1180	-260	90	90
40					0
41	Nebraska				
42					0
43	SW CBCU - Irrigation - Non Federal Canals	0	0	0	0
44	SW CBCU - Irrigation - Small Pumps	40	0	14.7	14.7
45	SW CBCU - M&I	0	0	0	0
46	SW CBCU - Irrigation - Non Federal Canals - Below Gage	0	0	0	0
47	SW CBCU - Irrigation - Small Pumps - Below Gage	0	14.85	0	0
48	SW CBCU - M&I - Below Gage	0	0	0	0
49	Non-Federal Reservoir Evaporation	42.8	0	22.3	22.3
50	Non-Federal Reservoir Evaporation - Below gage	5.2	0	7.3	7.3
51	SW CBCU	83	14.85	37	37
52	GW CBCU	702	500	556	556
53	Total CBCU	790	510	590	590
54					0
55	CBCU Below Gage				
56	SW CBCU Below The Gage	5	14.85	7.3	7.3
57	Total	5	14.85	7.3	7.3
58					0
59	Totals				
60	Total SW CBCU	364	25.35	336.3	336.3
61	Total GW CBCU	-760	226	351	351
62	Total Basin CBCU	-396	251.35	687.3	687.3
63					0
64	Virgin Water Supply				
65	Sappa Creek Near Stamford	262	179.1155	84	84
66	Beaver Creek Near Beaver City	173	220	163	163
67	Colorado CBCU	0	0	0	0
68	Kansas CBCU	-1180	-260	90	90
69	Nebraska CBCU	790	510	590	590
70	SW CBCU Below The Gage	5	14.85	7.3	7.3
71	Imported Water	0	0	0	0
72	Virgin Water Supply	-310	190	590	590
73	Adjustment For Flood Flows	0	0	0	0
74	Computed Water Supply	-310	190	590	590
75					0
76	Allocations				
77	Colorado Percent Of Allocation	0.0%	0	0	0
78	Colorado Allocation	0	0	0	0
79	Kansas Percent Of Allocation	41.1%	0.411	0.411	0.411
80	Kansas Allocation	-130	80	240	240
81	Nebraska Percent Of Allocation	41.1%	0.411	0.411	0.411
82	Nebraska Allocation	-130	80	240	240
83	Total Basin Allocation	-260	160	480	480
84	Percent Of Supply Not Allocated	17.8%	0.178	0.178	0.178
85	Quantity Of Unallocated Supply	-50	30	110	110

	A	B	C	D	E
1	Prairie Dog Creek Sub-Basin	2005	2003	2004	2005
2					
3	Input Data				
4	Groundwater / Model Data				
5	Imported Water-Nebraska	0	0	0	0
6	GW CBCU Colorado	0	0	0	0
7	GW CBCU Kansas	5775	1679	1824	1824
8	GW CBCU Nebraska	0	0	0	0
9					0
10	Surface Water Constants				0
11	Almena Canal %-Return-Flow	100%	0.52	1	1
12					0
13	Surface Water Data				0
14	Prairie Dog Creek Near-Woodruff	3436	1087.45	147	147
15	Keith Sebelius Lake Evaporation	1727.007	2823	2088.8	2088.8
16	Keith Sebelius Lake Change In Storage	100	-4338	-1000	-1000
17	Almena Canal Diversions	0	3379	0	0
18	SW Diversions -Irrigation -Non-Federal Canals-Kansas	0	0	0	0
19	SW Diversions -Irrigation -Small Pumps - Kansas	159	273	87	87
20	SW Diversions - M&I -Kansas	382	548	496	496
21	SW Diversions -Irrigation -Non-Federal Canals-Nebraska -Below Gage	0	0	0	0
22	SW Diversions -Irrigation -Small Pumps -Nebraska - Below Gage	21	59.2	44.3	44.3
23	SW Diversions -M&I -Nebraska - Below Gage	0	0	0	0
24	Non-Federal Reservoir Evaporation -Kansas	371.1	0	371.1	371.1
25	Non-Federal Reservoir Evaporation -Nebraska	21.2	0	17.4	17.4
26	Prairie Dog Flood Flow	0	0	0	0
27					0
28	Consumptive Use Calculations				0
29	Colorado				0
30	GW CBCU	0	0	0	0
31	Total CBCU	0	0	0	0
32					0
33	Kansas				0
34	Almena Canal CBCU	0	1621.92	0	0
35	SW CBCU - Irrigation - Non Federal Canals	0	0	0	0
36	SW CBCU - Irrigation - Small Pumps	119.25	204.75	65.25	65.25
37	SW CBCU - M&I	191	274	248	248
38	Keith Sebelius Lake Evaporation	1727	2823	2088.8	2088.8
39	Non-Federal Reservoir Evaporation	371.1	0	371.1	371.1
40	SW CBCU	2408	4923.67	2773.15	2773.15
41	GW CBCU	5775	1679	1824	1824
42	Total CBCU	8180	6600	4600	4600
43					0
44	Nebraska				0
45	SW Diversions - Irrigation - Non-Federal Canals - Nebraska -Below Gage	0	0	0	0
46	SW Diversions - Irrigation - Small Pumps -Nebraska - Below Gage	15.75	44.4	33.225	33.225
47	SW Diversions - M&I - Nebraska - Below Gage	0	0	0	0
48	Non-Federal Reservoir Evaporation	21.2	0	17.4	17.4
49	SW CBCU	37	44.4	50.625	50.625
50	GW CBCU	0	0	0	0
51	Total CBCU	40	40	50	50
52					0
53	CBCU Below Gage				0
54	SW CBCU Below The Gage	37	44.4	50.625	50.625
55	Total	37	44.4	50.625	50.625
56					0
57	Totals				0
58	Total SW CBCU	2445	4968.07	2823.775	2823.775
59	Total GW CBCU	5775	1679	1824	1824
60	Total Basin CBCU	8220	6647.07	4647.775	4647.775
61					0
62	Virgin Water Supply				0
63	Prairie Dog Creek Near Woodruff	3436	1087.45	147	147
64	Colorado CBCU	0	0	0	0
65	Kansas CBCU	8180	6600	4600	4600
66	Nebraska CBCU	40	40	50	50
67	SW CBCU Below The Gage	37	44.4	50.625	50.625
68	Keith Sebelius Lake Change In Storage	100	-4338	-1000	-1000
69	Imported Water	0	0	0	0
70	Virgin Water Supply	11720	3350	3750	3750
71	Adjustment For Flood Flows	0	0	0	0
72	Computed Water Supply	11620	7690	4750	4750
73					0
74	Allocations				0
75	Colorado Percent Of Allocation	0.0%	0	0	0
76	Colorado Allocation	0	0	0	0
77	Kansas Percent Of Allocation	45.7%	0.457	0.457	0.457
78	Kansas Allocation	5310	3510	2170	2170
79	Nebraska Percent Of Allocation	7.6%	0.076	0.076	0.076
80	Nebraska Allocation	880	580	360	360
81	Total Basin Allocation	6190	4090	2530	2530
82	Percent Of Supply Not Allocated	46.7%	0.467	0.467	0.467
83	Quantity Of Unallocated Supply	5430	3600	2220	2220

	A	B	C	D
1	Mainstem Sub-Basin	2005	2003	2004
2				
3	Input Data			
4	Groundwater / Model Data			
5	Imported Water Nebraska Above Guide Rock	2297	337	834
6	GW CBCU Colorado	-1954	132	-1269
7	GW CBCU Kansas	271	110	399
8	GW CBCU Nebraska Above Guide Rock	81100	74323	78183
9	GW CBCU Nebraska Below Guide Rock	2956	2559	2382
10	GW CBCU Nebraska	84056	76882	80565
11				
12	Surface Water Constants			
13	Meeker-Driftwood Canal % Return Flow	100%	1	1
14	Culbertson Canal % Return Flow	78%	0.56	0.658467
15	Culbertson Canal Extension % Return Flow	100%	1	1
16	Red Willow Canal % Return Flow	100%	1	1
17	Bartley Canal % Return Flow	100%	1	1
18	Cambridge Canal % Return Flow	54%	0.51	0.524585
19	Naponee Canal % Return Flow	100%	0.53	1
20	Franklin Canal % Return Flow	100%	0.64	1
21	Franklin Pump Canal % Return Flow	100%	0.57	1
22	Superior Canal % Return Flow	64%	0.57	0.677867
23	Nebraska Courtland % Return Flow	100%	0.325913	1
24	Courtland Canal Above Lovewell % Return Flow	63%	0.51802	0.792178
25	Courtland Canal Below Lovewell % Return Flow	53%	0.456652	0.496149
26				
27	Surface Water Data			
28	Surface Water Gages			
29	Republican River Near Hardy	16980	52394	41964
30	North Fork Republican River At Colorado-Nebraska State Line	21060	17700	19759
31	Arikaree River At Haigler	1151	1060	341
32	Buffalo Creek Near Haigler	2227	2090	2276
33	Rock Creek At Parks	5466	4710	5419
34	South Fork Republican River Near Benkelman	0	905.3587	0
35	Frenchman Creek At Culbertson	23235	13360	19926
36	Driftwood Creek Near McCook	1911	1100	1201
37	Red Willow Creek Near Red Willow	3791	3970	3555
38	Medicine Creek Below Harry Strunk	19992	19850	23300
39	Sappa Creek Near Stamford	262	179.1155	84
40	Prairie Dog Creek Near Woodruff	3436	1087.45	147
41	Reservoir Data			
42	Swanson Lake Evaporation	5638	6086	2588.2
43	Swanson Lake Change In Storage	4600	4735	3900
44	Hugh Butler Lake Evaporation	2230	2377	2025.5
45	Harry Strunk Lake Evaporation	2772	3755	2058.9
46	Harlan County Evaporation	17706	23664	17017
47	Harlan County Change In Storage	21000	-47110	-6200
48	Lovewell Reservoir Ev. charged to the Republican River	2020	670	1110
49	Canal Diversion Data			
50	Bartley Canal Diversion	0	0	0
51	Cambridge Canal Diversion	19732	18332	21964
52	Naponee Canal Diversion	0	2162	0
53	Franklin Canal Diversion	0	15262	0
54	Franklin Pump Canal Diversions	0	1687	0
55	Superior Canal Diversions	4712	8174	5800
56				
57	Courtland Canal Diversions At Headgate	48737	66500	31501
58	Diversions to Nebraska Courtland	0	1591	0
59	Courtland Canal, Loss in NE assigned to upper Courtland KS	415	2841	184
60	Courtland Canal, Loss in NE assigned to delivery to Lovewell	8236	10116	5877
61	Courtland Canal At Kansas-Nebraska State Line	40086	51952	25440
62	Courtland Canal Diversions to the Upper Courtland District	1864	17511	779
63	Courtland Canal, Loss assigned to deliveries of water to Lovewell, Stateline to Lovewell	9372	10687	10715
64	Courtland Canal Deliveries To Lovewell Reservoir	29265	26596	14130
65	Diversions of Republican River water from Lovewell Reservoir to the Courtland Canal below Lovewell	25590	21270	25590
66				
67	Kansas Bostwick Diversions During Irrigation Season (2001-2003 average, no diversion in 2005)	41081	27100	41081
68	Nebraska Bostwick Diversions During Irrigation Season (2001-2003 average, no diversion in 2004)	40187	28844	40187
69				
70	Meeker-Driftwood Canal Diversions	0	0	0
71	Red Willow Canal Diversions	0	0	0
72	Culbertson Canal Diversions	6562	8002	8674
73	Culbertson Canal Extension Diversions	0	0	0
74	Haigler Canal Diversions - Nebraska	4745	4965	3732
75	Kansas Surface Water Data			
76	SW Diversions - Irrigation - Non-Federal Canals- Kansas	0	0	0
77	SW Diversions - Irrigation - Small Pumps - Kansas	767	1064	668
78	SW Diversions - M&I - Kansas	0	0	0

	A	B	C	D
1	Mainstem Sub-Basin	2005	2003	2004
2				
79	Non-Federal Reservoir Evaporation - Kansas	148	0	147.9
80	Nebraska Surface Water Data			
81	SW Diversions - Irrigation - Non-Federal Canals - Nebraska - Mainstem	1661	3719	3066
82	SW Diversions - Irrigation - Small Pumps - Nebraska - Mainstem	1918	1401	1931
83	SW Diversions - M&I - Nebraska - Mainstem	0	0	0
84	Non-Federal Reservoir Evaporation - Nebraska - Above Guide Rock Gage	977	0	2331
85	Non-Federal Reservoir Evaporation - Nebraska - Below Guide Rock Gage	0	0	340
86	Mainstem Flood Flow	0	0	0
87				
88	Calculations			
89	Return Flow From Courtland Canal To Republican River Above Hardy From Kansas	601	779.28	381.6
90	Courtland Canal Transportation Loss in NE assigned to the Upper Courtland KS that does not recharge	75	511.38	33.12
91	Courtland Canal Transportation Loss in NE assigned to deliveries to Lovewell that does not recharge	1482	1820.88	1057.86
92	Courtland Canal Transportation Loss from the Stateline to Lovewell that does not return	1687	1923.66	1928.7
93	Percent Kansas Bostwick Diversions During Irrigation Season	50.55%	0.484413	0.5055
94	Percent Nebraska Diversions During Irrigation Season	49.45%	0.515587	0.4945
95	Net Evaporation From Harlan County Reservoir Charged To Kansas	8951	11463.15	8602.099
96	Net Evaporation From Harlan County Reservoir Charged To Nebraska	8756	12200.85	8414.901
97				
98	Consumptive Use Calculations			
99	Colorado			
100	GW Depletion	-1954	132	-1269
101	Total CU	-1950	130	-1270
102				
103	Kansas			
104	Net Evaporation From Harlan County Reservoir Charged To Kansas	8951	11463.15	8602.099
105	Courtland Canal Transportation Loss in NE assigned to deliveries to Lovewell that does not recharge	1482	1820.88	1057.86
106	Courtland Canal Above Lovewell CBCU	690	8439.955	161.8932
107	Courtland Canal Transportation Loss from the Stateline to Lovewell that does not return	1687	1923.66	1928.7
108	Net Evaporation From Lovewell Charged To Kansas	2020	670	1110
109	Courtland Canal Below Lovewell CBCU	12113	11557.02	12893.54
110	SW CBCU - Irrigation - Non Federal Canals	0	0	0
111	SW CBCU - Irrigation - Small Pumps	575	798	501
112	SW CBCU - M&I	0	0	0
113	Non-Federal Reservoir Evaporation - Kansas	148	0	147.9
114	SW CBCU	27665	36672.67	26402.99
115	GW CBCU	271	110	399
116	Total CBCU	27940	36780	26800
117				
118	Nebraska			
119	NE Courtland Canal CBCU (includes transportation loss)	0	1072.473	0
120	Superior Canal CBCU	1687	3514.82	1868.371
121	Franklin Pump Canal CBCU	0	725.41	0
122	Franklin Canal CBCU	0	5494.32	0
123	Naponee Canal CBCU	0	1016.14	0
124	Cambridge Canal Diversion	9153	8982.68	10442.02
125	Bartley Canal Diversion	0	0	0
126	Meeker-Driftwood Canal CBCU	0	0	0
127	Red Willow Canal Diversions (90%)	0	0	0
128	SW CBCU - Irrigation - Non Federal Canals	996	2231.4	1839.6
129	SW CBCU - Irrigation - Small Pumps	1439	1050.75	1448.25
130	SW CBCU - M&I	0	0	0
131	Harry Strunk Lake Evaporation	2772	3755	2058.9
132	Swanson Lake Evaporation	5638	6086	2588.2
133	Hugh Butler Lake Evaporation (90%)	2007	2139.3	1822.95
134	Harlan County Evaporation Charged To Nebraska (2001-2003 average, no diversion in 2005)	8756	12200.85	8414.901
135	Non-Federal Reservoir Evaporation - Nebraska	977	0	340
136	SW CBCU	33425	48269.14	30823.19
137	GW CBCU	84056	76882	80565
138	Total CBCU	117480	125150	111390
139				
140	Totals			
141	Total SW CBCU	61090	84941.81	57226.18
142	Total GW CBCU	82373	77124	79695
143	Total Basin CBCU	143460	162070	136920
144				
145	Virgin Water Supply			
146	Republican River Near Hardy	16980	52394	41964
147	North Fork Republican River At Colorado-Nebraska State Line	21060	17700	19759
148	Arikaree River At Haigler	1151	1060	341
149	Buffalo Creek Near Haigler	2227	2090	2276
150	Rock Creek At Parks	5466	4710	5419
151	South Fork Republican River Near Benkelman	0	905.3587	0
152	Frenchman Creek At Culbertson	23235	13360	19926

	A	B	C	D
1	Mainstem Sub-Basin	2005	2003	2004
2				
153	Driftwood Creek Near McCook	1911	1100	1201
154	Red Willow Creek Near Red Willow	3791	3970	3555
155	Medicine Creek Below Harry Strunk	19992	19850	23300
156	Sappa Creek Near Stamford	262	179.1155	84
157	Prairie Dog Creek Near Woodruff	3436	1087.45	147
158				
159	Colorado CBCU	-1950	130	-1270
160	Kansas CBCU Above Stateline	11231	14593.41	10341.98
161	Nebraska CBCU	117480	125150	111390
162				
163	90% Red Willow Canal CBCU - Nebraska	0	0	0
164	90% Hugh Butler Lake Evap	2007	2139.3	1822.95
165	Harry Strunk Lake Evaporation	2772	3755	2058.9
166				
167	CBCU Below Medicine Creek Gage	65	79.5	46.725
168	CBCU Below Beaver Creek Gage	0	0	0
169	CBCU Below Sappa Creek Gage	5	14.85	7.3
170	CBCU Below Prairie Dog Gage	37	44.4	50.625
171				
172	Harlan County Change In Storage	21000	-47110	-6200
173	Swanson Lake Change In Storage	4600	4735	3900
174				
175	Haigler Canal Return Flow To Mainstem	1898	1986	1492.8
176	Culbertson Canal Return Flow To Mainstem	871	761.7904	970.9628
177	Culbertson Canal Extension Return Flow To Mainstem	0	0	0
178	Meeker - Driftwood Canal Return Flow To Driftwood Creek	0	0	0
179	Red Willow Canal Return Flow To Mainstem	0	0	0
180				
181	Courtland Canal At Kansas-Nebraska State Line	40086	51952	25440
182	Return Flow To Republican River Above Hardy From Kansas	601.29	779.28	381.6
183				
184	Imported Water	2297	337	834
185	Virgin Water Supply	116557	126212.9	102101.4
186	Adjustment For Flood Flows	0	0	0
187	Computed Water Supply	90960	168590	104400
188				
189	Allocations			
190	Colorado Percent Of Allocation	0	0	0
191	Colorado Allocation	0	0	0
192	Kansas Percent Of Allocation	51.1%	0.511	0.511
193	Kansas Allocation	46480	86150	53350
194	Nebraska Percent Of Allocation	48.9%	0.489	0.489
195	Nebraska Allocation	44480	82440	51050
196	Total Basin Allocation	90960	168590	104400
197	Percent Of Supply Not Allocated	0.0%	0	0
198	Quantity Of Unallocated Supply	0	0	0

Table 1: Annual Virgin and Computed Water Supply, Allocations, and Computed Beneficial Consumptive Uses by State, Main Stem, and Sub-Basin

2005 Basin	Virgin Water Supply	Computed Water Supply	Allocations				Computed Beneficial Consumptive Use		
			Colorado	Kansas	Nebraska	Unallocated	Colorado	Kansas	Nebraska
North Fork	44,800	44,800	10,040	0	11,020	23,740	17,530	20	4,290
Arikaree	2,370	2,370	1,860	120	400	-10	810	160	250
Buffalo	6,050	6,050	0	0	2,000	4,050	310	0	3,510
Rock	9,360	9,360	0	0	3,740	5,620	60	0	3,830
South Fork	26,050	27,550	12,230	11,080	390	3,850	18,660	7,520	1,370
Frenchman	110,950	110,950	0	0	59,470	51,480	40	0	86,800
Driftwood	3,400	3,400	0	230	560	2,610	0	10	1,480
Red Willow	16,360	14,560	0	0	2,800	11,760	0	0	8,800
Medicine	39,990	34,390	0	0	3,130	31,260	0	0	21,320
Beaver	4,560	4,560	910	1,770	1,850	30	0	1,660	2,730
Sappa	-310	-310	0	-130	-130	-50	0	-1,180	790
Prairie Dog	11,720	11,620	0	5,310	880	5,430	0	8,180	40
Main Stem	116,560	90,960	0	46,480	44,480	0	-1,950	27,940	117,480
Total All Basins	391,860	360,260	25,040	64,860	130,590	139,770	35,460	44,310	252,690
Main Stem Including Unallocated		230,730	0	117,900	112,830				
Total	391,860	360,260	25,040	136,280	198,940	0	35,460	44,310	252,690

Previous Years' computations for multi-year tests

Year 1 2003

Table 1: Annual Virgin and Computed Water Supply, Allocations, and Computed Beneficial Consumptive Uses by State, Main Stem, and Sub-Basin

2003 Basin	Virgin Water Supply	Computed Water Supply	Allocations				Computed Beneficial Consumptive Use		
			Colorado	Kansas	Nebraska	Unallocated	Colorado	Kansas	Nebraska
North Fork	40,730	40,730	9,120	0	10,020	21,590	16,640	20	4,380
Arikaree	1,910	1,910	1,500	100	320	-10	240	100	510
Buffalo	6,100	6,100	0	0	2,010	4,090	270	0	3,740
Rock	8,190	8,190	0	0	3,280	4,910	60	0	3,420
South Fork	21,500	23,730	10,540	9,540	330	3,320	16,090	5,380	1,350
Frenchman	105,700	105,920	0	0	56,770	49,150	40	0	91,760
Driftwood	2,490	2,490	0	170	410	1,910	0	0	1,390
Red Willow	17,350	14,400	0	0	2,760	11,640	0	0	6,310
Medicine	38,930	35,550	0	0	3,240	32,310	0	0	21,440
Beaver	1,290	1,290	260	500	520	10	0	290	780
Sappa	190	190	0	80	80	30	0	-260	510
Prairie Dog	3,350	7,690	0	3,510	580	3,600	0	6,600	40
Main Stem	126,210	168,590	0	86,150	82,440	0	130	36,780	125,150
Total All Basins	373,940	416,780	21,420	100,050	162,760	132,550	33,470	48,910	262,780
Main Stem Including Unallocated		301,140	0	153,880	147,260				
Total	373,940	416,780	21,420	167,780	227,580	0	33,470	48,910	262,780

Year 2 2004

Table 1: Annual Virgin and Computed Water Supply, Allocations, and Computed Beneficial Consumptive Uses by State, Main Stem, and Sub-Basin

2004 Basin	Virgin Water Supply	Computed Water Supply	Allocations				Computed Beneficial Consumptive Use		
			Colorado	Kansas	Nebraska	Unallocated	Colorado	Kansas	Nebraska
North Fork	42,360	42,360	9,490	0	10,420	22,450	17,400	20	3,690
Arikaree	1,280	1,280	1,000	70	220	-10	350	160	430
Buffalo	6,170	6,170	0	0	2,040	4,130	290	0	3,600
Rock	9,130	9,130	0	0	3,650	5,480	60	0	3,650
South Fork	21,180	24,080	10,690	9,680	340	3,370	16,800	6,080	1,200
Frenchman	116,020	115,720	0	0	62,030	53,690	40	0	94,780
Driftwood	2,710	2,710	0	190	440	2,080	0	10	1,500
Red Willow	16,850	14,050	0	0	2,700	11,350	0	0	8,700
Medicine	37,260	37,560	0	0	3,420	34,140	0	0	21,770
Beaver	1,820	1,820	360	710	740	10	0	360	1,300
Sappa	590	590	0	240	240	110	0	90	590
Prairie Dog	3,750	4,750	0	2,170	360	2,220	0	4,600	50
Main Stem	102,100	104,400	0	53,350	51,050	0	-1,270	26,800	111,390
Total All Basins	361,220	364,620	21,540	66,410	137,650	139,020	33,670	38,120	252,650
Main Stem Including Unallocated		243,420	0	124,390	119,030				
Total	361,220	364,620	21,540	137,450	205,630	0	33,670	38,120	252,650

Year 3 2005

Table 1: Annual Virgin and Computed Water Supply, Allocations, and Computed Beneficial Consumptive Uses by State, Main Stem, and Sub-Basin

2005 Basin	Virgin Water Supply	Computed Water Supply	Allocations				Computed Beneficial Consumptive Use		
			Colorado	Kansas	Nebraska	Unallocated	Colorado	Kansas	Nebraska
North Fork	44,800	44,800	10,040	0	11,020	23,740	17,530	20	4,290
Arikaree	2,370	2,370	1,860	120	400	-10	810	160	250
Buffalo	6,050	6,050	0	0	2,000	4,050	310	0	3,510
Rock	9,360	9,360	0	0	3,740	5,620	60	0	3,830
South Fork	26,050	27,550	12,230	11,080	390	3,850	18,660	7,520	1,370
Frenchman	110,950	110,950	0	0	59,470	51,480	40	0	86,800
Driftwood	3,400	3,400	0	230	560	2,610	0	10	1,480
Red Willow	16,360	14,560	0	0	2,800	11,760	0	0	8,800
Medicine	39,990	34,390	0	0	3,130	31,260	0	0	21,320
Beaver	4,560	4,560	910	1,770	1,850	30	0	1,660	2,730
Sappa	-310	-310	0	-130	-130	-50	0	-1,180	790
Prairie Dog	11,720	11,620	0	5,310	880	5,430	0	8,180	40
Main Stem	116,560	90,960	0	46,480	44,480	0	-1,950	27,940	117,480
Total All Basins	391,860	360,260	25,040	64,860	130,590	139,770	35,460	44,310	252,690
Main Stem Including Unallocated	0	230,730	0	117,900	112,830	0	0	0	0
Total	391,860	360,260	25,040	136,280	198,940	0	35,460	44,310	252,690

Table 2: Original Compact Virgin Water Supply and Allocations

Basin	Virgin Water Supply	Colorado Allocation	% of Basin Supply	Kansas Allocation	% of Basin Supply	Nebraska Allocation	% of Basin Supply	Unallocated	% of Basin Supply
North Fork	44,700	10,000	22.4%			11,000	24.6%	23,700	53.0%
Arikaree	19,610	15,400	78.5%	1,000	5.1%	3,300	16.8%	-90	-0.4%
Buffalo	7,890					2,600	33.0%	5,290	67.0%
Rock	11,000					4,400	40.0%	6,600	60.0%
South Fork	57,200	25,400	44.4%	23,000	40.2%	800	1.4%	8,000	14.0%
Frenchman	98,500					52,800	53.6%	45,700	46.4%
Driftwood	7,300			500	6.9%	1,200	16.4%	5,600	76.7%
Red Willow	21,900					4,200	19.2%	17,700	80.8%
Medicine	50,800					4,600	9.1%	46,200	90.9%
Beaver	16,500	3,300	20.0%	6,400	38.8%	6,700	40.6%	100	0.6%
Sappa	21,400			8,800	41.1%	8,800	41.1%	3,800	17.8%
Prairie Dog	27,600			12,600	45.7%	2,100	7.6%	12,900	46.7%
Tributaries Sub-Total	384,000							175,500	
Main Stem	94,500								
Main Stem + Unallocated	270,000			138,000	51.1%	132,000	48.9%		
Total	478,900	54,100		190,300		234,500			

Table 3A: Colorado's Five-Year Average Allocation and CBCU

Year	Allocation	Computed Beneficial Consumptive Use	Imported Water Supply Credit	Allocation - (CBCU - IWS Credit)
2003	21,420	33,470	NA	(12,050)
2004	21,540	33,670	NA	(12,130)
2005	25,040	35,460	NA	(10,420)
2006			NA	
2007			NA	
Average	22,670	34,200		(11,530)

Sum (34,600)

Table 3B: Kansas's Five-Year Average Allocation and CBCU

Year	Allocation	Computed Beneficial Consumptive Use	Imported Water Supply Credit	Allocation - (CBCU - IWS Credit)
2003	167,780	48,910	NA	118,870
2004	137,450	38,120	NA	99,330
2005	136,280	44,310	NA	91,970
2006			NA	
2007			NA	
Average	147,170	43,780		103,390

Sum 310,170

Table 3C: Nebraska's Five-Year Average Allocation and CBCU

Year	Allocation	Computed Beneficial Consumptive Use	Imported Water Supply Credit	Allocation - (CBCU - IWS Credit)
2003	227,580	262,780	9,780	(25,420)
2004	205,630	252,650	10,380	(36,640)
2005	198,940	252,690	11,965	(41,785)
2006				
2007				
Average	210,720	256,040	10,710	(34,620)

Table 4A: Colorado's Sub-Basin Non-impairment Compliance

Basin	Allocation (Five-year Average)	Unallocated Supply (Five-year Average)	Imported Water Supply Credit (Five-year Average)	Total Available Supply	Computed Beneficial Consumptive Use (Five-year Average)	Available Supply - CBCU
North Fork	9,550	22,593	NA	32,143	17,190	14,953
Anikaree	1,453	-10	NA	1,443	467	977
South Fork	11,153	3,513	NA	14,667	17,183	(2,517)
Beaver	510	17	NA	527	0	527

Table 4B: Kansas's Sub-Basin Non-impairment Compliance

Basin	Allocation (Five-year Average)	Unallocated Supply (Five-year Average)	Unused Allocation from Colorado (5-year running average)	Imported Water Supply Credit (Five-year Average)	Total Available Supply (5-year running average)	Computed Beneficial Consumptive Use (Five-year Average)	Available Supply - CBCU
Anikaree	97	-10	987	NA	1,073	140	933
South Fork	10,100	3,513	0	NA	13,613	6,327	7,287
Driftwood	197	2,200	0	NA	2,397	7	2,390
Beaver	993	17	510	NA	1,520	770	750
Sappa	63	30	0	NA	93	-450	543
Prairie Dog	3,663	3,750	0	NA	7,413	6,460	953

Colorado detail

Basin	Allocation	Unallocated Supply	Imported Water Supply Credit	Total Available Supply	Computed Beneficial Consumptive Use	Available Supply - CBCU
North Fork						
2003	9,120	21,580	NA	30,710	16,640	14,070
2004	9,490	22,450	NA	31,940	17,400	14,540
2005	10,040	23,740	NA	33,780	17,530	16,250
2006						
2007						
Average	9,550	22,593		32,143	17,190	14,953
Anikaree						
2003	1,500	-10	NA	1,490	240	1,250
2004	1,000	-10	NA	990	350	640
2005	1,860	-10	NA	1,850	810	1,040
2006						
2007						
Average	1,453	-10		1,443	467	977
South Fork						
2003	10,540	3,320	NA	13,860	16,090	-2,230
2004	10,690	3,370	NA	14,060	16,800	-2,740
2005	12,230	3,850	NA	16,080	18,660	-2,580
2006						
2007						
Average	11,153	3,513		14,667	17,183	-2,517
Beaver						
2003	260	10	NA	270	0	270
2004	360	10	NA	370	0	370
2005	910	30	NA	940	0	940
2006						
2007						
Average	510	17		527	0	527

Kansas detail

Basin	Allocation	Unallocated Supply	Unused Allocation from Colorado	Imported Water Supply Credit	Total Available Supply	Computed Beneficial Consumptive Use	Available Supply - CBCU
Anikaree							
2003	100	-10	1,260	NA	1,350	100	1,250
2004	70	-10	850	NA	710	160	550
2005	120	-10	1,050	NA	1,160	160	1,000
2006							
2007							
Average	97	-10	987		1,073	140	933
South Fork							
2003	9,540	3,320	0	NA	12,860	5,380	7,480
2004	9,680	3,370	0	NA	13,050	6,080	6,970
2005	11,080	3,850	0	NA	14,930	7,520	7,410
2006							
2007							
Average	10,100	3,513	0		13,613	6,327	7,287
Driftwood							
2003	170	1,910	0	NA	2,080	0	2,080
2004	190	2,080	0	NA	2,270	10	2,260
2005	230	2,610	0	NA	2,840	10	2,830
2006							
2007							
Average	197	2,200	0		2,397	7	2,390
Beaver							
2003	500	10	260	NA	770	290	480
2004	710	10	360	NA	1,080	360	720
2005	1,770	30	910	NA	2,710	1,660	1,050
2006							
2007							
Average	993	17	510		1,520	770	750
Sappa							
2003	80	30	0	NA	110	-260	370
2004	240	110	0	NA	350	90	260
2005	-130	-50	0	NA	-180	-1,180	1,000
2006							
2007							
Average	63	30	0		93	-450	543
Prairie Dog							
2003	3,510	3,600	0	NA	7,110	6,600	510
2004	2,170	2,220	0	NA	4,390	4,600	-210
2005	5,310	5,430	0	NA	10,740	8,180	2,560
2006							
2007							
Average	3,663	3,750	0		7,413	6,460	953

Table 5A: Colorado's Compliance During Water-Short Year Administration

Year	Allocation - Allocation Beaver	Computed Beneficial Consumptive Use - CBCU Beaver	Imported Water Supply Credit - IWS Beaver	Allocation - (CBCU - IWS Credit)
2003	21,160	33,470	NA	(12,310)
2004	21,180	33,670	NA	(12,490)
2005	24,130	35,460	NA	(11,330)
2006			NA	
2007			NA	
Average	22,160	34,200	NA	(12,040)

Table 5B: Kansas's Compliance During Water-Short Year Administration

Year	Allocation			Computed Beneficial Consumptive Use	Imported Water Supply Credit	Allocation - (CBCU - IWS)
	Sub-Basin Total	Kansas's Share of Unallocated Supply	Total			
2004	13,060	71,039	84,099	11,320	NA	72,779
2005	18,380	71,422	89,802	16,370	NA	73,432
Average	15,720	71,230	86,950	13,850	NA	73,110

Table 5E: Nebraska's Tributary Compliance During Water-Short Year Administration

Year	Allocation			Computed Beneficial Consumptive Use	Imported Water Supply Credit	Allocation - (CBCU - IWS)
	Sub-Basin Total	Nebraska's Share of Unallocated Supply	Total			
2004	86,600	67,981	154,581	141,260	9,571	22,892
2005	86,110	68,348	154,458	135,210	9,692	28,940
Average	86,360	68,160	154,520	138,240	9,630	25,920

Table 5C: Nebraska's Compliance During Water-Short Year Administration

Year	Allocation			Computed Beneficial Consumptive Use			Imported Water Supply Credit above Guide Rock	Allocation - (CBCU - IWS above Guide Rock)
	State-Wide Allocation	Allocation Below Guide Rock	Allocation Above Guide Rock	State-Wide CBCU	CBCU Below Guide Rock	CBCU Above Guide Rock		
2004	205,630	10,494	195,136	252,650	2,899	249,751	10,381	(44,234)
2005	198,940	4,519	194,421	252,690	3,915	248,776	11,965	(42,390)
Average	202,290	7,510	194,780	252,670	3,410	249,260	11,170	(43,310)

Table 5D: Nebraska's Compliance Under a Alternative Water-Short Year Administration Plan

Year	Allocation			Computed Beneficial Consumptive Use			Imported Water Supply Credit above Guide Rock	Allocation - (CBCU - IWS above Guide Rock)
	State-Wide Allocation	Allocation Below Guide Rock	Allocation Above Guide Rock	State-Wide CBCU	CBCU Below Guide Rock	CBCU Above Guide Rock		
2003								
2004								
2005								
Average								

Attachment 6: Computing Water Supplies and Consumptive Use Above Guide Rock

Total Mainstem CWS	Hardy Gage	Superior Courtland Diversion Dam	Courtland Canal Diversions	Superior Canal Diversion	Courtland Canal Returns	Superior Canal Returns	Total Bostwick Returns Below Guide Rock	NE CBCU Below Guide Rock	KS CBCU Below Guide Rock	Total CBCU Below Guide Rock	Gain Guide Rock to Hardy	VWS Guide Rock to Hardy	Mainstem VWS Above Guide Rock	NE MS Allocation Above Guide Rock	KS MS Allocation Above Guide Rock	Nebraska Guide Rock to Hardy Allocation	Kansas Guide Rock to Hardy Allocation
90,960	16,980	1,779	48,737	4,712	7,695	3,025	10,720	3,915	846	4,761	4,481	9,242	81,718	39,960	41,758	4,519	4,723

COURTLAND CANAL	
Return Flow From Courtland Canal To Republican River Above Hardy From Kansas	601
Return Flow From Courtland Canal To Republican River Above Hardy From Nebraska	7,094
Courtland Canal Diversions At Headgate	48737
Courtland Canal At Kansas-Nebraska State Line	40086
NE Courtland Canal CBCU (includes transportation loss)	0
Superior Canal CBCU	1,687

NEBRASKA	
SW Diversions - Irrigation - Small Pumps - Nebraska Below Guide Rock	1,278
SW Diversions - M&I - Nebraska - Below Guide Rock	0
SW Return - Irrigation	319.5
SW Return - M&I	0
GW CBCU Nebraska Below Guide Rock	2956

KANSAS	
SW CBCU - Irrigation - Small Pumps	575
SW CBCU - M&I	0
GW CBCU Kansas	271

2005
Attachment 7: Calculations of Return Flows from Bureau of Reclamation Canals

Col 1	Col 2	Col 3	Col 4	Col 5	Col 6	Col 7	Col 8	Col 9	Col 10	Col 11
Canal Diversion	Headgate Diversion	Spill to Waste-Way	Field Deliveries	Canal Loss	Average Field Loss Factor	Field Loss	Total Loss from District and Field Loss	Percent Field Loss That Returns to the Stream	Total return to Stream from Canal and Field Loss	Return as Percent of Canal Diversion
Name Canal	Sum of measured spills to river	Sum of Deliveries to the field	Col 2 - Col 4	Col 4 x Col 6	Col 5 + Col 7	Col 4 x Col 6	Col 5 + Col 7	Estimated Percent Loss*	Col 8 x Col 9	Col 10/Col 2
Example	100	5	60	40	30%	18	58	82%	48	48%
Culbertson	6562		447	6115	30%	134	6249	82%	5124	78%
Culbertson Extension	0		0	0	30%	0	0	82%	0	100%
Meeker - Driftwood	0		0	0	30%	0	0	82%	0	100%
Red Willow	0		0	0	30%	0	0	82%	0	100%
Bartley	0		0	0	30%	0	0	82%	0	100%
Cambridge	19732		9758	9974	30%	2927	12901	82%	10579	54%
Naponee	0		0	0	35%	0	0	82%	0	100%
Franklin	0		0	0	35%	0	0	82%	0	100%
Franklin Pump	0		0	0	35%	0	0	82%	0	100%
Almena	0		0	0	30%	0	0	82%	0	100%
Superior	4712		1483	3229	31%	460	3689	82%	3025	64%
Nebraska Courtland	0		0	0	23%	0	0	82%	0	100%
Courtland Canal Above Lovewell (KS)	1864		561	1303	23%	129	1432	82%	1174	63%
Courtland Canal Below Lovewell	25916		12040	13876	23%	2769	16645	82%	13649	53%

* The average field efficiencies for each district and percent loss that returns to the stream may be reviewed and, if necessary, changed by the RRCRA to improve the accuracy of the estimates.

Impacts 2005 (acre-feet)				
Location	Colorado Pumping	Kansas Pumping	Nebraska Pumping	Nebraska Mound
Arikaree	811	122	250	0
Beaver	0	1519	2684	0
Buffalo	306	0	3357	0
Driftwood	0	0	1481	0
Frenchman	42	0	78069	0
North Fork	14359	17	1443	0
Above Swanson	-1967	103	10992	0
Swanson - Harlan	0	70	39772	2061
Harlan - Guide Rock	0	0	29058	219
Guide Rock - Hardy	0	64	2956	0
Medicine	0	0	20414	9633
Prairie Dog	0	5265	0	0
Red Willow	0	0	6596	35
Rock	61	0	3744	0
Sappa	0	-1462	702	0
South Fork	13679	7227	1372	0
Hugh Butler	0	0	1709	0
Bonny	1273	0	0	0
Keith Sebelius	0	510	0	0
Enders	0	0	4650	0
Harlan	0	34	857	17
Harry Strunk	0	0	352	0
Swanson	13	0	421	0
Mainstem	-1975	242	82778	2274
Total	28571	13483	210881	11966
MS's 4 reaches + 2 reservoirs	-1954	271	84056	2297
NE above Guide Rock			81100	2297
Total of individual sub-basins	28577	13469	210879	11965

Impacts 2003 (acre-feet)				
Location	Colorado Pumping	Kansas Pumping	Nebraska Pumping	Nebraska Mound
Arikaree	242	100	507	0
Beaver	0	274	777	0
Buffalo	265	0	3338	0
Driftwood	0	0	1391	0
Frenchman	37	0	81210	0
North Fork	14023	17	1402	0
Above Swanson	112	-40	17979	0
Swanson - Harlan	0	53	27271	144
Harlan - Guide Rock	0	0	27709	181
Guide Rock - Hardy	0	59	2559	0
Medicine	0	0	20684	9423
Prairie Dog	0	1137	0	0
Red Willow	0	0	6056	20
Rock	59	0	3419	0
Sappa	0	-274	500	0
South Fork	10790	5351	1347	0
Hugh Butler	0	0	1759	0
Bonny	1325	0	0	0
Keith Sebelius	0	542	0	0
Enders	0	0	4437	0
Harlan	0	38	881	12
Harry Strunk	0	0	455	0
Swanson	20	0	483	0
Mainstem	108	77	75517	320
Total	26872	7274	204164	9782

Impacts 2004 (acre-feet)				
Location	Colorado Pumping	Kansas Pumping	Nebraska Pumping	Nebraska Mound
Arikaree	353	116	431	0
Beaver	0	205	1278	0
Buffalo	290	0	3333	0
Driftwood	0	0	1479	0
Frenchman	39	0	85199	0
North Fork	14373	16	1446	0
Above Swanson	-1287	201	13809	0
Swanson - Harlan	0	91	33956	622
Harlan - Guide Rock	0	0	29155	198
Guide Rock - Hardy	0	71	2382	0
Medicine	0	0	20898	9522
Prairie Dog	0	1328	0	0
Red Willow	0	0	6448	25
Rock	58	0	3581	0
Sappa	0	-205	556	0
South Fork	11532	5781	1202	0
Hugh Butler	0	0	1773	0
Bonny	1342	0	0	0
Keith Sebelius	0	496	0	0
Enders	0	0	4528	0
Harlan	0	36	776	14
Harry Strunk	0	0	398	0
Swanson	18	0	487	0
Mainstem	-1294	368	79303	815
Total	26715	8150	213115	10386

COURTLAND CANAL ABOVE LOVEWELL

2005

1	2	3	4	5	6	7	8	9	10	11	ALLOCATION OF LOSSES				15	16	17	18	19	
											12	13	14	15						
Records	Records	Records	District	(3 + 4)	(2 - 5)	District	Records	(7 + 8)	(3 - 9)	6-(6x(3/5))	(6-11)x(7/9)	(6-11-12)	(10 x 7/9)	(10 - 14)	(4 + 11)	(7 + 12 + 14)	(8 + 13 + 15)	(16 + 17 + 18)	(= 2)	
Month	Court Canal 0.7	Court Canal 15.1	NEB Bost Use Main Canal 0.7 to 15.1	Total out flow in NEB	Total Loss in NEB 0.7 to 15.1	KAN Bost Use Main Canal 15.1 to 34.8	DEL to Lovewell Court Canal 34.8	Total out flow in KAN	Total Loss in KAN 15.1 to 34.8	NEB Bost	NEBRASKA Courtland Canal 0.7 to 15.1	LOSS IN KANSAS Courtland Canal 15.1 to 34.8	LOSS IN KAN Bost	USBR	NEB Bost	KAN Bost	USBR			
January	3685	2747	0	2747	938	0	1804	1804	943	0	0	938	0	943	0	0	0	3685	C	
February	5087	4265	0	4265	822	0	3430	3430	835	0	0	822	0	835	0	0	0	5087	H	
March	5911	4926	0	4926	985	0	3950	3950	976	0	0	985	0	976	0	0	0	5087	E	
April	7430	6557	0	6557	873	0	5677	5677	880	0	0	873	0	880	0	0	0	5911	E	
May	5479	4608	0	4608	871	0	3749	3749	859	0	0	871	0	859	0	0	0	5479	C	
June	6559	5764	0	5764	795	374	4164	4538	1226	0	66	871	101	859	0	0	0	5479	K	
July	1221	893	0	893	328	125	788	125	788	0	328	729	101	1125	0	541	6018	6559		
August	2663	2118	0	2118	545	62	1562	1624	494	0	21	524	19	475	0	1221	0	1221		
September	1941	1375	0	1375	566	0	913	913	462	0	462	566	0	462	0	102	2561	0	2663	
October	2488	1843	0	1843	645	0	884	884	959	0	0	645	0	959	0	0	1941	0	1941	
November	3017	2416	0	2416	601	0	1512	1512	904	0	0	601	0	904	0	0	2488	0	2488	
December	3256	2574	0	2574	682	0	1620	1620	954	0	0	682	0	954	0	0	3017	0	3017	
Total	48737	40086	0	40086	8651	561	29265	29826	10280	0	415	8236	886	9372	0	1864	46873	0	48737	

Data Source: cout wrk sht 05.XLS from the BOR

Federal Reservoir Net Evaporation 2005

Reservoir Name	Gross Evaporation [Acre-feet]	Net Evaporation	Net / Gross [%]
Enders Reservoir	2,573	1247.6	48.49%
Harlan County Lake	32,621	17706.3	54.28%
Harry Strunk Lake	5,472	2771.7	50.65%
Hugh Butler Lake	4,339	2230.3	51.40%
Swanson Lake	10,240	5638.0	55.06%
Bonny Reservoir	5,133	3429.5	66.81%
Keith Sebelius Lake	3,706	1727.0	46.60%
Lovewell Reservoir	8,886	3063.5	34.48%

Source of Data: This table is copied from the NetEvap sheet of ReservoirNetEvap05.xls, which is prepared by the State of Nebraska.

Federal Reservoir Storage Change 2005

Reservoir Name	Storage Change [Acre-feet]
Enders Reservoir	0
Harlan County Lake	21000
Harry Strunk Lake	5600
Hugh Butler Lake	1800
Swanson Lake	4600
Bonny Reservoir	-1500
Keith Sebelius Lake	100

Source of Data: This table is copied from the Summary sheet of ResStorChange05.xls, which is prepared by the State of Nebraska.

Harlan County Lake Net Evaporation Split

Year	Diversions during Release Season			
	Kansas AF	Nebraska AF	Kansas %	Nebraska %
2005	41108.1	40118.7	50.55%	49.45%

Source of Data: This table is copied from the Summary sheet of HClake_Split_200505.xls, which is prepared by the State of Nebraska.
For 2005, the KS and NE diversion values are average of 2001, 2002, and 2003 value since no diversion in 2005.