

RRCA

Compact Accounting with non-federal reservoir evaporation above Harlan County

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Communication And/Or Work Product

Preliminary Estimate

Provisional Information  
Under Review

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

2006 Basin	Virgin Water Supply		Computed Water Supply	Allocations			Computed Beneficial Consumptive Use			
	Supply			Colorado	Kansas	Nebraska	Unallocated	Colorado	Kansas	Nebraska
North Fork	41,470		41,470	9,290	0	10,200	21,980	17,050	10	4,300
Anikaree	2,040		2,040	1,600	100	340	0	1,390	90	140
Buffalo	5,650		5,650	0	0	1,860	3,790	310	0	3,510
Rock	9,000		9,000	0	0	3,600	5,400	60	0	3,910
South Fork	20,100		21,600	9,590	8,680	300	3,030	16,000	4,410	1,190
Frenchman	105,100		105,720	0	0	56,670	49,050	30	0	81,730
Driftwood	2,130		2,130	0	150	350	1,630	0	10	1,460
Red Willow	13,830		20,950	0	0	4,020	16,930	0	0	8,250
Medicine	34,190		37,470	0	0	3,410	34,060	0	0	20,800
Beaver	4,740		4,740	950	1,840	1,920	30	0	1,670	2,820
Sappa	-440		-440	0	-180	-180	-80	0	-960	780
Prairie Dog	6,030		5,930	0	2,710	450	2,770	0	5,780	40
Main Stem	53,220		65,660	0	33,550	32,110	0	-3,290	39,810	97,750
Total All Basins	297,060		321,920	21,430	46,850	115,050	138,590	31,550	50,820	226,680
Main Stem Including Unallocated			204,250	0	104,370	99,880				
Total			321,920	21,430	117,670	182,820	0	31,550	50,820	226,680

Negative numbers represent the residual accounting impacts from groundwater well pumping. Reference RRCA accounting user's manual for comprehensive explanation.

**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	21,430	31,550	NA	(10,120)
2006			NA	
2007			NA	
Average	21,460	32,900		(11,430)

Sum (34,300)

**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	117,670	50,820	NA	66,850
2006			NA	
2007			NA	
Average	140,970	45,950		95,020

Sum 285,050

**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	182,820	226,680	11,486	(32,374)
2007				
Average	203,740	248,700	10,900	(34,050)

Sum (136,219)

## KS WATER DELIVERIES

(inches/acre)

	<u>2001</u>	<u>2002</u>	<u>2003</u>	<u>2004</u>	<u>2005</u>	<u>2006</u>
KAN-BOST.	11.1	12.4	8.2	0.0/6.4	0.0/5.1	3.0/6.0
ALMENA	4.0	3.9	3.7	0.0	0.0	0.0
KIRWIN	10.0	11.4	7.9	3.3	0.0	0.0
WEBSTER	8.5	9.3	7.1	2.2	0.0	0.0
GLEN ELDER	9.1	15.4	11.5	6.5	7.4	12.0

## NE WATER DELIVERIES

(inches/acre)

	<u>2001</u>	<u>2002</u>	<u>2003</u>	<u>2004</u>	<u>2005</u>	<u>2006</u>
AINSWORTH	16.4	21.4	17.7	18.8	15.8	19.2
TWIN LOUPS	10.3	13.0	13.0	12.0	10.8	11.7
MIR. FLATS	8.0	7.2	4.8	3.5	4.5	4.4
FR. VALLEY	4.0	3.7	4.1	3.1	0.6	0.0
H&RW	2.7	0.0	0.0	0.0	0.0	0.0
FR. CAMB.	7.6	6.1	0.0/7.6	0.0/7.8	0.0/6.0	0.0/6.0
BOST. IN NEB.	10.1	11.6	6.2	0.0/2.9	0.0/3.0	0.0

## KS WATER AVAILABILITY

(inches/acre)- Estimated for 2007

<b>KAN-BOSTWICK</b>	<b>0.0/6.0</b>
<b>ALMENA</b>	<b>2.5</b>
<b>KIRWIN</b>	<b>3.5</b>
<b>WEBSTER</b>	<b>.5</b>
<b>GLEN ELDER</b>	<b>Full Supply</b>

## NE WATER AVAILABILITY

(inches/acre)- Estimated for 2007

<b>AINSWORTH</b>	<b>Full Supply</b>
<b>TWIN LOUPS</b>	<b>Full Supply</b>
<b>MIRAGE FLATS</b>	<b>3.0</b>
<b>FR. VALLEY</b>	<b>0.5</b>
<b>H&amp;RW</b>	<b>0.5</b>
<b>FR. CAMBRIDGE</b>	<b>3.5/8.0</b>
<b>BOST. IN NEB.</b>	<b>0.0</b>

Comparison of Accounting for Nebraska's Lease of Surface Water in 2006 <sup>†</sup>

**Table 3C: Nebraska's Five-Year Average Allocation and CBCU with Early 2006 Estimate\***

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	182,820	226,680	11,486	(32,374)
2007				
<b>Average</b>	<b>203,870</b>	<b>248,960</b>	<b>10,900</b>	<b>(34,190)</b>

\* Since no Nebraska canals diverted storage water released from Harlan County Dam, the existing accounting procedures were used. This results in Kansas assuming all the charge for evaporation from Harlan County Lake.

**Table 3C: Nebraska's Five-Year Average Allocation and CBCU with Hypothetical 2006 Diversions\***

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	182,890	241,440	11,486	(47,064)
2007				
<b>Average</b>	<b>203,890</b>	<b>252,650</b>	<b>10,900</b>	<b>(37,860)</b>

\* This estimate is based on the hypothetical condition that Nebraska had actually diverted water into the Nebraska Bostwick canals, Culbertson Canal and Riverside Canal. For the Bureau of Reclamation project canals estimated diversions and deliveries were produced, so that the Compact Accounting could be conducted.

<sup>†</sup> The two estimated data sets used non-federal evaporation estimates for the basin above Harlan County Lake.

**Potential CBCU Savings**

**14,690 AF**

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