



# United States Department of the Interior



BUREAU OF RECLAMATION  
Nebraska Kansas Area Office  
McCook Field Office  
1706 West 3rd Street  
McCook, NE 69001

IN REPLY REFER TO:

NK-410  
PRJ-23.00 BSW

DEC 7 2006

Mr. Kenneth Nelson  
Kansas-Bostwick Irrigation  
District No. 2  
P.O. Box 165  
Courtland, KS 66939

Subject: 2006 Irrigation Season

Dear Mr. Nelson:

The Kansas-Bostwick Irrigation District used a total of 38,446 acre-feet of water during the 2006 irrigation season. There were 10,595 acre-feet used above Lovewell and 27,851 acre-feet used below Lovewell.

We are enclosing the following: The 2006 "Water Use Statement", "Analysis of Use and Loss Distribution," and copies of the Courtland 0.7, Courtland 15.1, Courtland 34.8 and Courtland 38.0 canal records. We will use the data from your "Kansas-Bostwick Irrigation District Monthly Water Report Summary" for our "Monthly Water Distribution" reports. Please send the number of acres irrigated on the upper and lower Courtland Canals in 2006 along with an estimate of acres to be irrigated during the 2007 season to the McCook Office at your earliest convenience.

Sincerely,

Marvin R. Swanda  
Office Manager

Enclosures

*Attachments Available*

PRES.	<i>CH</i>
SEC'Y	<i>BP</i>
TREAS.	<i>MD</i>
SUPT.	<i>KN</i>



# United States Department of the Interior



BUREAU OF RECLAMATION  
Nebraska Kansas Area Office  
McCook Field Office  
1706 West 3rd Street  
McCook, NE 69001

IN REPLY REFER TO:

NK-410  
WTR-4.10

JUN 9 2006

Kansas Bostwick Irrigation District No. 2  
P.O. Box 165  
Courtland, KS 66939-0165

Subject: Updated 2006 Available Water Supply (Franklin, Superior-Courtland and Courtland Units, Bostwick Division, Kansas, Pick-Sloan Missouri River Basin Program)

Gentlemen:

The Bureau of Reclamation (Reclamation) has established the shutoff content for Harlan County Lake (HCL) for the 2006 irrigation season as provided for in Attachment B to the Contract No. 009D6B0120 between the United States and the Kansas-Bostwick Irrigation District No. 2 in Kansas. The shutoff elevation using the actual May 31 data is 1927.52 ft. m.s.l.

Currently, the estimated total water supply from HCL that is available for irrigation release is approximately 15,689 acre-feet. The District's share of available water supply from HCL is 5,571 acre-feet.

This estimate is based on the assumption that inflow to HCL equals evaporation from the lake during the irrigation season.

If you have any questions, please contact this office at (308) 345-1044.

Sincerely,

Marvin R. Swanda  
Office Manager

PRES.	GH
SEC'Y	BT
TREAS.	MD
SUPT.	KN

## RESOLUTION

Whereas, the Kansas Bostwick Irrigation District #2 and the Bostwick Irrigation District in Nebraska, have a Memorandum of Agreement detailing specific provisions for the use of the Bostwick Division water supply;

Whereas, the Bostwick Irrigation District in Nebraska will execute a contract with the State of Nebraska providing for the use of their water supply for the 2006 irrigation season;

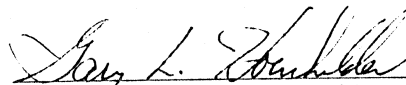
Whereas, the Kansas Bostwick Irrigation District #2 will receive a portion of the above mentioned contracted supply;

Whereas, Amendment No. 2 to the Memorandum of Agreement between the Districts has been prepared to address the effect upon the 2006 irrigation season;


Whereas, the Kansas Bostwick Irrigation District #2 finds the Amendment No. 2 to accurately describe the conditions and accounting planned for the 2006 irrigation season caused by the above mentioned contract;

Therefore, Be it Resolved that the Kansas Bostwick Irrigation District #2 conforms to Amendment No. 2 to the Memorandum of Agreement dated October 4, 2000 and as amended March 5, 2002.

This Resolution was agreed to and signed this 18<sup>th</sup> day of May 2006.

  
\_\_\_\_\_  
Gary L. Housholder - President

  
\_\_\_\_\_  
Brad D. Peterson - Secretary

  
\_\_\_\_\_  
Monty D. Dahl - Treasurer



United States Department of the Interior



BUREAU OF RECLAMATION  
Great Plains Region  
Nebraska-Kansas Area Office  
P.O. Box 1607  
Grand Island, Nebraska 68802-1607

IN REPLY REFER TO:

NK-100  
RES-3.10 BSW

MAR 28 2006

Kenneth Nelson, Superintendent  
Kansas-Bostwick Irrigation District No. 2  
P. O. Box 165  
Courtland, KS 66939-0165

Subject: Request to Advance the Irrigation Season, Courtland Unit, Bostwick Division,  
Pick-Sloan Missouri Basin Program, Kansas

Dear Mr. Nelson:

This is in response to your letter dated March 21, 2006, requesting the Bureau of Reclamation's consent to deliver natural flow water beginning once the maximum amount of allowable storage is reached in Lovewell Reservoir after April 1, 2006. As provided in Article 1.j of the "Contract between the United States of America and the Kansas Bostwick Irrigation District No. 2, Contract No. 009D6B0120," the irrigation season may be extended for an additional period of April 1 through April 30 as may be agreed upon in writing between the United States and the District.

Reclamation does not object to your request in advancing the irrigation season to allow the delivery of natural flow water once the maximum amount of allowable storage is reached in Lovewell Reservoir after April 1, 2006.

The District should consult with the Department of Water Resources in Stockton, Kansas to ensure compliance with the appropriate State water right rules and regulations.

If you have any questions on this matter, please contact Marv Swanda at 308-345-1027.

Sincerely,

Alice E. Johns  
Area Manager

Acting For

PRES.	GH
DEPT.	BP
TREAS.	MD
SUPT.	KN



# United States Department of the Interior



BUREAU OF RECLAMATION  
Great Plains Region  
Nebraska-Kansas Area Office  
P.O. Box 1607  
Grand Island, Nebraska 68802-1607

IN REPLY REFER TO:

NK-100  
ADM-13.00 BSW

MAR 28 2006

✓ Kenny Nelson, Superintendent  
Kansas Bostwick Irrigation District No. 2  
P O Box 165  
Courtland, KS 67622

Mike Delka, Manager  
Bostwick Irrigation District in Nebraska  
P.O. Box 446  
Red Cloud, NE 68970-0446

Subject: Draft Amendment to Memorandum of Agreement between Bostwick Irrigation District in Nebraska and Kansas Bostwick Irrigation District No. 2, Courtland Unit, Franklin Unit, Superior-Courtland Unit, Bostwick Division, Pick-Sloan Missouri Basin Program, Nebraska and Kansas

Dear Messrs. Nelson and Delka:

Enclosed is a draft Amendment to Memorandum of Agreement (MOA) which includes revisions attempting to address the comments this office received from your Districts. The revisions that were made only include those specific to 2006. No permanent revisions in the MOA were included. The revisions include:

Article 1: Referenced as 3.G has been rewritten and incorporates definitions of "irrigation season" and "water supply" to correspond with the Nebraska Bostwick's proposed agreement with the State of Nebraska.

Article 2: Revised sub-article "a" to incorporate reference to the 2006 irrigation season accounting will "commence with irrigation deliveries" to match definition of "irrigation season" in 3.G.

Article 2: Revised sub-article "a" to further define releases from Harlan County that are to be accounted for as "Nebraska Bostwick" releases for accounting purposes. The intent of this revision is that whenever water is released from storage, proportional amounts are considered Nebraska Bostwick water and Kansas Bostwick water.

Article 2: Revised sub-article "a" sentence regarding end of accounting for storage releases by adding "for the season" so that Kansas Bostwick can shut off releases in

PRES.	GLH
SEC'Y	BP
TREAS.	MD
SUPT.	KW

case of an event which would temporarily eliminate demand without ending the irrigation season.

Article 2: Added last sentence which describes the accounting for diversions of natural flow at Superior-Courtland Diversion Dam after September 1.

Revisions to Article 1.C were not addressed concerning Nebraska Bostwick operating the diversion dam. Should this be worked out between the Districts, it could be inferred from the existing Article 1.C that work performed by Nebraska Bostwick would be reimbursed by KS Bostwick in the amount of 90 percent. It is suggested that this MOA not include provisions for this arrangement or change in operations at this time.

Revisions to Article 3.D were not addressed concerning eliminating the provision for Nebraska Bostwick annually making a written request to the State of Nebraska for the administration of natural streamflows for the benefit of the Bostwick Division water supply. It is suggested that this provision remain in the MOU as Nebraska Bostwick has the senior natural flow right of 1946 on the Superior Canal.

Please review and provide comments or advise this office if the draft is acceptable as written. If you have any questions or need further clarification, please contact Stephen Ronshaugen or Marv Swanda at telephone 308-389-5304 or 308-345-1027, respectively.

Sincerely,



Acting For Alice E. Johns  
Area Manager

Enclosures

cc: Lee Orton, Attorney  
100 N. 8<sup>th</sup> Street, Suite 200  
Lincoln, NE 68508-1303  
w/enclosures

**DRAFT**

**AMENDMENT NO. 2**

AMENDMENT TO  
MEMORANDUM OF AGREEMENT  
BETWEEN THE  
BOSTWICK IRRIGATION DISTRICT IN NEBRASKA  
AND  
KANSAS-BOSTWICK IRRIGATION DISTRICT NO. 2

This AMENDMENT to the MEMORANDUM OF AGREEMENT made this \_\_\_\_\_ day of \_\_\_\_\_, 2006, by and between Kansas-Bostwick Irrigation District No. 2, party of the first part, and the Bostwick Irrigation District in Nebraska, party of the second part.

WITNESSETH:

WHEREAS, the following statements are made by way of explanation:

a. Kansas-Bostwick Irrigation District No. 2, party of the first part, and the Bostwick Irrigation District in Nebraska, party of the second part, during Board of Directors meetings for each of the respective Districts executed the "Memorandum of Agreement between the Bostwick Irrigation District in Nebraska and Kansas-Bostwick Irrigation District No. 2" dated October 4, 2000.

b. The "Memorandum of Agreement between the Bostwick Irrigation District in Nebraska and Kansas-Bostwick Irrigation District No. 2" was amended on March 5, 2002, to provide a more accurate and comprehensive description of the water supply facilities covered by the Agreement.

c. To provide for appropriate accounting and delivery of water during the 2006 irrigation season, certain provisions of the Agreement needs amended to reflect procedures to be followed for the 2006 irrigation season, therefore the "Memorandum of Agreement between the Bostwick Irrigation District in Nebraska and Kansas-Bostwick Irrigation District No. 2" is hereby amended as follows:

NOW, THEREFORE, in consideration of the premises and of the mutual covenants herein set out, it is agreed as follows:

1. The following shall be substituted for the existing Article 3. G. for the 2006 irrigation season ONLY:

3. G. The Bostwick Irrigation District in Nebraska agrees before the start of the

irrigation season to relinquish the rights to the use of its water supply in order for their water supply to be used on Kansas-Bostwick Irrigation District No. 2 project lands. For purposes of this agreement for the 2006 irrigation season only, "irrigation season" and "water supply" as used herein are defined as follows:

(1) "Water Supply" shall mean the Water Supply determined by the U.S. Bureau of Reclamation (hereinafter "Bureau") under its water storage permit for Harlan County Lake as calculated and published by the Bureau for January 2006 according to the Harlan County Lake Operation Consensus Plan (hereinafter "Consensus Plan"), and natural flow that may become available for diversion at the Superior-Courtland Diversion Dam during the Irrigation Season.

(2) "Irrigation Season" shall mean the date beginning with the commencement of water deliveries for direct irrigation at the Superior-Courtland Diversion Dam and ending on the date of the last water delivery for direct irrigation, which date shall be no later than September 1, 2006.

2. The following shall be substituted for the existing Article 2. as it applies to the 2006 irrigation season ONLY:

2. To the allocation and payment of irrigation's share of the Corps of Engineers' operation, maintenance and replacement cost associated with Harlan County Dam and Harlan County Lake based on the most recent three-year moving average of each District's total diversions as established by Reclamation. (See the spreadsheet attached hereto and made a part hereof as Attachment A for prior year computations and procedures for computing individual District percentages.)

a. For purposes of this agreement for the 2006 irrigation season, the Bostwick Irrigation District in Nebraska's 2006 diversions to be recorded on Attachment A, will be computed assuming that the Bostwick Irrigation District in Nebraska had diverted their share of the 2006 Bostwick Division water supply into the Superior Canal. Commencing with water deliveries for direct irrigation at the Superior-Courtland Diversion Dam, available natural flow at Superior-Courtland Diversion Dam will be apportioned as described in Attachment B of this Memorandum of Agreement and ending no later than September 1, 2006. Accounting for the Bostwick Irrigation District in Nebraska's use of storage waters from Harlan County Lake will begin with the commencement of releases from Harlan County Lake for Kansas-Bostwick Irrigation District No. 2 and end when storage releases from Harlan County Lake for Kansas-Bostwick Irrigation District No. 2 have ceased for the season or September 1, 2006, whichever is earlier. The assumed use of water from Harlan County Lake by the Bostwick Irrigation District in Nebraska will be calculated using their proportionate share, as described in Attachment B, applied against the total releases from Harlan County Lake. The accounting for any diversions at Superior-Courtland Diversion Dam subsequent to September 1, 2006 will be based on the historical methods used in prior years and recorded on said Attachment A.



irrigation season to relinquish the rights to the use of its water supply in order for their water supply to be used on Kansas-Bostwick Irrigation District No. 2 project lands. For purposes of this agreement for the 2006 irrigation season only, "irrigation season" and "water supply" as used herein are defined as follows:

(1) "Water Supply" shall mean the Water Supply determined by the U.S. Bureau of Reclamation (hereinafter "Bureau") under its water storage permit for Harlan County Lake as calculated and published by the Bureau for January 2006 according to the Harlan County Lake Operation Consensus Plan (hereinafter "Consensus Plan"), and natural flow that may become available for diversion at the Superior-Courtland Diversion Dam during the Irrigation Season.

(2) "Irrigation Season" shall mean the date beginning with the commencement of water deliveries for direct irrigation at the Superior-Courtland Diversion Dam and ending on the date of the last water delivery for direct irrigation, which date shall be no later than September 1, 2006.

2. The following shall be substituted for the existing Article 2. as it applies to the 2006 irrigation season ONLY:

2. To the allocation and payment of irrigation's share of the Corps of Engineers' operation, maintenance and replacement cost associated with Harlan County Dam and Harlan County Lake based on the most recent three-year moving average of each District's total diversions as established by Reclamation. (See the spreadsheet attached hereto and made a part hereof as Attachment A for prior year computations and procedures for computing individual District percentages.)

a. For purposes of this agreement for the 2006 irrigation season, the Bostwick Irrigation District in Nebraska's 2006 diversions to be recorded on Attachment A, will be computed assuming that the Bostwick Irrigation District in Nebraska had diverted their share of the 2006 Bostwick Division water supply into the Superior Canal. Commencing with water deliveries for direct irrigation at the Superior-Courtland Diversion Dam, available natural flow at Superior-Courtland Diversion Dam will be apportioned as described in Attachment B of this Memorandum of Agreement and ending no later than September 1, 2006. Accounting for the Bostwick Irrigation District in Nebraska's use of storage waters from Harlan County Lake will begin with the commencement of releases from Harlan County Lake for Kansas-Bostwick Irrigation District No. 2 and end when storage releases from Harlan County Lake for Kansas-Bostwick Irrigation District No. 2 have ceased for the season or September 1, 2006, whichever is earlier. The assumed use of water from Harlan County Lake by the Bostwick Irrigation District in Nebraska will be calculated using their proportionate share, as described in Attachment B, applied against the total releases from Harlan County Lake. The accounting for any diversions at Superior-Courtland Diversion Dam subsequent to September 1, 2006 will be based on the historical methods used in prior years and recorded on said Attachment A.

b. For purposes of this agreement in 2006, Kansas-Bostwick Irrigation District No. 2's total diversions will be computed as follows: Kansas-Bostwick Irrigation District No. 2's actual diversions during 2006, as accounted for by Reclamation, LESS the Bostwick Irrigation District in Nebraska's 2006 share of the Bostwick Division water supply as if they had diverted this supply into Superior Canal.

EXCEPT AS PROVIDED HEREIN, all other terms and conditions of the "Memorandum of Agreement between the Bostwick Irrigation District in Nebraska and Kansas-Bostwick Irrigation District No. 2" shall remain in full force and effect.

3

BOARD OF DIRECTORS  
Kansas-Bostwick Irrigation District No. 2

BOARD OF DIRECTORS  
Bostwick Irrigation District in Nebraska

\_\_\_\_\_  
President

\_\_\_\_\_  
President

\_\_\_\_\_  
Secretary

\_\_\_\_\_  
V.-Pres./Sec.

\_\_\_\_\_  
Treasurer

\_\_\_\_\_  
Treasurer

APPROVED:

BUREAU OF RECLAMATION  
Nebraska-Kansas Area Office

\_\_\_\_\_  
Alice E. Johns Area Manager



# United States Department of the Interior

BUREAU OF RECLAMATION  
Great Plains Region  
Nebraska-Kansas Area Office  
P. O. Box 1607  
Grand Island, Nebraska 68802-1607

McCook Field Office  
1706 West 3<sup>rd</sup> Street  
McCook, NE 69001

IN REPLY REFER TO:

NK-410  
PRJ-23.00 BSW

FEB 14 2006

Mr. Kenneth Nelson  
Kansas-Bostwick Irrigation  
District No. 2  
PO Box 165  
Courtland, KS 66939

Subject: Monthly Water Distribution Reports - 2005

Dear Mr. Nelson:

Enclosed for your records are copies of the 2005 "Monthly Water Distribution" reports for the Courtland Canal above Lovewell, Courtland Canal below Lovewell, and the Kansas-Bostwick Summary.

Sincerely,

*William E. Peck, Jr.*

ACTING FOR

Marvin R. Swanda  
Office Manager

Enclosures

PRES.	<u>        </u>
SECY	<u>        </u>
TREAS.	<u>        </u>
CUPT.	<u>        </u>

*ECJ*  
*BP*  
*GH*  
*KN*

KBID 000222

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF RECLAMATION

**MONTHLY WATER DISTRIBUTION**

Canal: COURTLAND ABOVE LOVEWELL District: KANSAS-BOSTWICK IRRIGATION DISTRICT NO. 2  
Project: Pick-Sloan Missouri Basin Program Acres Irrigated During Season: 1,107 Year 2005

Diversion from: Republican River ACRE-FEET:

Month	2	3	4	5	6	7	8	9	10	11	Delivered to Farms		Acres Feet Per Acre****
											From Main Canal**	Lateral***	
January	0	0	0	0	0	0	0	0	0	0	0	0	0
February	0	0	0	0	0	0	0	0	0	0	0	0	0
March	0	0	0	0	0	0	0	0	0	0	0	0	0
April	0	0	0	0	0	0	0	0	0	0	0	0	0
May	0	0	0	0	0	0	0	0	0	0	0	0	0
June	66	101	373	540	0	167	0	0	0	373	0	373	0.337
July	328	768	125	1,221	0	1,096	0	0	0	125	0	125	0.113
August	21	19	63	103	0	40	0	0	0	63	0	63	0.057
September	0	0	0	0	0	0	0	0	0	0	0	0	0
October	0	0	0	0	0	0	0	0	0	0	0	0	0
November	0	0	0	0	0	0	0	0	0	0	0	0	0
December	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	415	888	561	1,864	0	1,303	0	0	0	561	0	561	0.51
Acres ft. per acre****				1.68	0	1.18	0	0	0	0.51	0	0.51	
Percent Net Supply				100	0	69.9	0.0	0.0	0.0	30.1	0.0	30.1	

INSTRUCTIONS  
 Columns 8+11=Column 4.  
 Columns 2+3+4=Column 5.  
 Columns 5-6-8-11=Column 7.  
 Columns 8-9-12=Column 10.

NOTE: Nebraska canal loss as shared by Kansas-Bostwick included in this report.  
 NOTE: Net Supply does not include losses incurred by Kansas Bostwick or USBR (to Lovewell).

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF RECLAMATION  
**MONTHLY WATER DISTRIBUTION**

Canal: COURTLAND BELOW LOVELWELL District: KANSAS-BOSTWICK IRRIGATION DISTRICT NO. 2  
Project: Pick-Sloan Missouri Basin Program Acres Irrigated During Season: 23,439 Year 2005

Month	ACRE-FEET:													
	2	3	4	5	6	7	8	9	10	11	12	13	14	
	Diverted From Lovewell Reservoir	Inflow From Other Sources	Delivered to Regulating Reservoir	Net Supply	Main Canal Waste	Main Canal Losses	Delivered to Laterals*	Lateral Waste	Lateral Losses	From Main Canal**	Delivered to Farms Lateral***	Total	Acres Per Acre****	
January	0	0	0	0	0	0	0	0	0	0	0	0	0	0
February	0	0	0	0	0	0	0	0	0	0	0	0	0	0
March	0	0	0	0	0	0	0	0	0	0	0	0	0	0
April	0	0	0	0	0	0	0	0	0	0	0	0	0	0
May	0	0	0	0	0	0	0	0	0	0	0	0	0	0
June	4,310	0	0	4,310	0	841	3,449	288	1,787	20	1,374	1,394	0.059	
July	14,572	0	0	14,572	0	1,835	12,618	1,648	3,736	119	7,234	7,353	0.314	
August	7,034	0	0	7,034	0	1,008	5,986	843	1,890	40	3,253	3,293	0.14	
September	0	0	0	0	0	0	0	0	0	0	0	0	0	0
October	0	0	0	0	0	0	0	0	0	0	0	0	0	0
November	0	0	0	0	0	0	0	0	0	0	0	0	0	0
December	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	25,916	0	0	25,916	0	3,684	22,053	2,779	7,413	179	11,861	12,040	0.513	
Acres ft. per acre****				1.11	0	0.16	0.94	0.12	0.32	0.01	0.51	0.51		
Percent Net Supply				100	0	14.2	85.1	10.7	28.6	0.7	45.8	46.5		

INSTRUCTIONS Column 2=Diversion amount exclusive of waste at head gates for sluicing.  
Columns 2+3-4=Column 5.  
Columns 5-6-8-11=Column 7.  
Columns 8-9-12=Column 10.

\*Measured at lateral turnouts from main canal.  
\*\*Measured at farm turnouts from main canal.  
\*\*\*Measured at farm turnouts from laterals.  
\*\*\*\*Use total acres irrigated during season to compute this column.

7-322

Revised for KRP use  
2-74

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF RECLAMATION  
**MONTHLY WATER DISTRIBUTION**

**Canal:** KANSAS-BOSTWICK SUMMARY **District:** KANSAS-BOSTWICK IRRIGATION DISTRICT NO. 2  
**Project:** Pick-Sloan Missouri Basin Program **Acres Irrigated During Season** 24,546 **Year** 2005

**Diversion from:** Republican River & Lovewell Reservoir **ACRE-FEET:**

1 Month	2 Total Allocated Above Lovewell	3 Diverted From Lovewell 38.0	4 Inflow From Other Sources	5 Net Supply	6 Main Canal Waste	7 Main Canal Losses	8 Delivered to Laterals*	9 Lateral Waste	10 Lateral Losses	11 From Main Canal**		12 Delivered to Farms		13 Total	14 Acres Per Acre****
										Canal**	Lateral***	From Main Canal**	Lateral***		
January	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
February	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
March	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
April	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
May	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
June	540	4,310	0	4,850	0	1,008	3,449	288	1,787	393	1,374	1,767	0.072	0.072	0.072
July	1,221	14,572	0	15,793	0	2,931	12,618	1,648	3,736	244	7,234	7,478	0.305	0.305	0.305
August	103	7,034	0	7,137	0	1,048	5,986	843	1,890	103	3,253	3,356	0.137	0.137	0.137
September	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
October	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
November	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
December	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Total</b>	<b>1,864</b>	<b>25,916</b>	<b>0</b>	<b>27,780</b>	<b>0</b>	<b>4,987</b>	<b>22,053</b>	<b>2,779</b>	<b>7,413</b>	<b>740</b>	<b>11,861</b>	<b>12,601</b>	<b>0.513</b>	<b>0.513</b>	<b>0.513</b>
Acres ft. per acre****				1.13	0	0.2	0.9	0.11	0.3	0.03	0.48	0.51			
Percent Net Supply				100	0	18	79.4	10	26.7	2.7	42.7	45.4			

**INSTRUCTIONS** Column 3=Diversion amount exclusive of waste at head gates for sluicing. \*Measured at lateral turnouts from main canal.  
 Column 2+3+4=Column 5. \*\*Measured at farm turnouts from main canal.  
 Columns 5-6-8-11=Column 7. \*\*\*Measured at farm turnouts from laterals.  
 Columns 8-9-12=Column 10. \*\*\*\*Use total acres irrigated during season to compute this column.



# United States Department of the Interior



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P.O. Box 1607  
Grand Island, Nebraska 68802-1607

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IN REPLY REFER TO:

NK-410  
PRJ-23.00 BSW

FEB 9 2005

Mr. Kenneth Nelson  
Kansas-Bostwick Irrigation  
District No. 2  
P.O. Box 165  
Courtland, KS 66939

Subject: 2004 Irrigation Season – Revised Water Records

Dear Mr. Nelson:

Enclosed are revisions to the Courtland 0.7, Courtland Stateline, and Courtland 34.8 canal records for the months of January, February and March, 2004. Also enclosed is a revised 2004 "Analysis of Use and Loss Distribution" spreadsheet incorporating the changes made to the canal records.

These revisions do not alter the total irrigation water used as shown on the 2004 Water Use Statement.

Sincerely,

for Marvin R. Swanda  
Office Manager

Enclosures

*Attachments  
Available*



# United States Department of the Interior

BUREAU OF RECLAMATION  
Great Plains Region  
Nebraska-Kansas Area Office  
P. O. Box 1607  
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RES-3.10 BSW

JAN 11 2006

Kansas Bostwick Irrigation District No. 2  
PO Box 165  
Courtland, KS 66939-0165

Subject: 2006 Available Water Supply (Franklin, Superior-Courtland and Courtland Units,  
Bostwick Division, Kansas, Pick-Sloan Missouri River Basin Program)

Gentlemen:

As provided for in Attachment B to the Contract No. 009D6B0120 between the United States and the Kansas-Bostwick Irrigation District No. 2 in Kansas, the estimated reservoir shutoff elevation for Harlan County Lake (HCL) is 1930.50 ft. msl and the total available release from HCL for the 2006 irrigation season is 15,689 acre-feet. These estimates are based on a net storage gain of 33,781 acre-feet in HCL from January through May and the assumption that inflow to both HCL and Lovewell Reservoir will equal evaporation from the reservoirs during the irrigation season. The District's share of storage that will be available for release at the end of May based on the procedures outlined in the Contract is 5,571 acre-feet.

Attached is an estimate of water availability for the 2006 irrigation season.

If you have any questions, please contact this office at (308) 345-4400.

Sincerely,

ACTING FOR  
Marvin R. Swanda  
Office Manager

Enclosure

PRES.	ECH
SECY	BP
ASST. DIR.	GLH
SUPV.	KN



ESTIMATED WATER AVAILABILITY -- 2006

January 11, 2006

<u>DISTRICT</u>	<u>ESTIMATED FARM DELIVERY (INCHES)</u>
Mirage Flats	5.5
Ainsworth	Full Supply
Twin Loups	Full Supply
Frenchman Valley	0.5
H&RW	0.5
Frenchman-Cambridge	
Meeker, Red Willow & Bartley	6.0
Cambridge Canal	8.0
Almena	2.5
Bostwick In Nebraska	1.5*
Kansas-Bostwick	
Upper Courtland	2.0*
Lower Courtland	6.0*
Kirwin	3.5
Webster	1.5
Glen Elder	Full Supply

\*Estimates based on most recent delivery efficiencies.

NOTES: Inches of availability are estimates only and do not constitute a guaranteed delivery. These estimates are for the District's use in determining an estimate to supply to your water users. In water short districts the estimates would need to be adjusted if the district does not plan to deliver one inch of water each six or seven days.

Irrigators Meeting  
3-30-06 7:00 pm  
Republic Community Building

I. Welcome and Introduction of Meeting

Topics - Contract in Nebraska water to KBID  
Operations above and below Lovewell  
Legislation in Congress regarding repayment

Speakers - Kenny Nelson      Superintendent KBID  
                                 Kansas State Board of Agriculture,  
                                 Division of Water Resources  
                                 Bureau of Reclamation

II. Contract State of Nebraska

What does this mean to Kansas Bostwick

**Kenny**

Nebraska objective work towards Contract Compliance

**Kansas**

How water is accounted for in Reservoir and to the Districts

**BOR**

III. Operations during Harlan County Releases

When will releases begin

How will the Courtland Canal be operated

How long does it take to receive release water to irrigators

Deliver water from the State line (15.1 mp) to Lovewell

When will season end

IV. Operations of Natural flow irrigations season

Losses in Courtland Canal vs. Natural flow

Use of flows before Harlan County Releases

Use of flows during Harlan County Releases

Use of flows after Harlan County Releases

V. District Personnel for operations

VI. Operations below Lovewell

VII. Status of legislation

HR 4000

S 1962

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II. Contract State of Nebraska

What does this mean to Kansas Bostwick

Kenny

A. In Jan. KBID was given an estimate of 5,000 af available in Harlan Co and NBID was given an estimate in Jan of 10,000 af of water available in H. Co. for the 2006 season. This along with the natural flows of the Republican at the Guide Rock Diversion Dam are the flows we are talking about. Would give us 15,000 af from Harlan and the natural flows at the dam. We will explain this further later on in the presentation but we have determined a 4" delivery to be reasonable to the irrigators above Lovewell and today we set the restriction at 4"/acre above Lovewell.

Nebraska's objective is to work towards Contract Compliance  
Kansas

How water is accounted for in Reservoir and to the Districts

BOR

- A. Explanation of Irrigation Pool, Sediment Pool, and Non use Pool
- B. Explanation of January estimate and June adjustment
- C. How water is going to be accounted for as if NBID divert
- D. Loss projections from Harlan County to Kansas

II. Operations during Harlan County Releases

When will releases begin

Plan to release according to corn crop needs probably last week in June 1st week in July

How will the Courtland Canal be operated

We intend to run the water down the river and on the bottom of the canal all the way to mile point 19.3 which is ½ mi. west of Frank Langers. We have a radial gate at this location and a skimming weir w/w that returns flow to the river. By

holding the canal to surface at this location and at all the other check structures downstream to the Lake, we can make deliveries to our KBID users

We have gauges which can be accessed on my computer from a satellite read which will help us to know how much water is at different locations to help us control these flows. The first gauge is located at Riverton 32 mi downstream from Harlan County, the next is at the diversion dam, 28 miles further downstream, then we move 15.1 miles down the canal to the State line.

How long does it take to receive release water to irrigators  
The initial release will probably take between 4-5 days of river travel to reach 15.1. Releases after that will take 3 days if normal river travel time is utilized.

Deliver water to all KBID irrigators above Lovewell.

We will attempt to deliver 4"/acre during this period of releases from Harlan County. Irrigators will need to give us 3 day turn on notice and 2 day shut off notice. In other words try to plan your entire run as best as you can. If you have fields with turnouts which you do not choose to irrigate this year it would be very helpful if you let us know so we can adjust the way we operate the canal through that area to save as much water as possible.

When will season end

One usually figures 1 week for 1" delivery which would mean 4 weeks from the starting date. We will monitor the supply daily and if we are able to deliver more than expected, we will raise the restriction and inform you of a shut off date as soon as we are comfortable with it. It is an extremely difficult thing to do with all the factors that play a role in this. This season will end when we have exhausted the useable supply or when the Board of Directors determine the season should end or September 1st.

### III. Operations of Natural flow irrigations season

Losses in Courtland Canal vs. Natural flow

The Courtland Canal is 34.8 miles long. The minimum loss is about 1cfs/mile. A dry canal will lose 2cfs or more

Use of flows before Harlan County Releases

The flows will be used to fill Lovewell Reservoir until the maximum allowed storage is reached. Once that is accomplished, we will use the flows to season the canals preparing for the Harlan release season. If there is still natural flow waters, we will attempt to deliver it to anyone who would like to divert water to their field. If there was

still natural flow available, we would pass it through Lovewell and prime canals below Lovewell.

Use of flows during Harlan County Releases

If natural flows occur during the Harlan County release period and they are significant enough to allow Harlan to be shut down, we will deliver from those flows and it will not be charged against the restriction from Harlan. If the flows are not significant enough to shut down Harlan releases, we will attempt to check up the Courtland Canal in Nebraska to store some additional water for use the next couple days but the restricted use remains.

Use of flows after Harlan County Releases

If the H Co release irrigation season ends before Sept 1, we will continue to make water available to irrigators where ever possible with the amount of water available. We will make every possible effort to get water to all users where feasible. We will not run Pump 1 during this period if we think there is a risk of running short in the delivery bay

IV. District Personnel for operations

As you all know, we have properly discounted your O&M cost above Lovewell. We did not anticipate the deal that has been made and did not increase assessments last August when we are required to set the assessments. We are operating with 3 less full time and two less part time personnel than we had in 2003. We have hired back one part time employee and plan to utilize our dam tender as a ditch rider to make this work. David Allen will be making changes on the Courtland Canal and running the 2nd section laterals, the Pump 1 ride and the North Canal. Randy Evert will be running the Ridge and the 3rd section laterals. Maintenance personnel will be instructed by these 2 ditch riders to help where ever they can. We will need all the help we can get from you in making this work.

V. Operations below Lovewell

Last year, we used 5.6" below Lovewell. Today, we are setting the restriction below Lovewell at 5" with the expectation we may be able to do a little better later on. Your season should be similar to last year as far as total water supply. Your best chance of additional supply would come with additional large flows on the White Rock Creek.

VI. Status of legislation

HR 4000

S 1962

The last time we payed a distribution works repayment

charge was in 2003 a total of \$376,000. We collected repayment in 2004 as assessed in August of 2003, however, the 2004 charges were deferred. We continue to hold the \$376,000 collected in 2004. We also were granted a deferrment for the 2005 charges. Therefore, our 2006 charge is \$421,353. In 2005, we along with other districts in the Republican and Solomon Basin sought legislation rather than continueing deferrment efforts which have to be repaid within the current remaining years of the debt which in our case is 2015. The legislation we are seeking, will spread the remaining debt out to the year 2040 which lowers the debt to \$188,546.

House Resolution 4000 passed last December. A Hearing on companion legislation S 1962 was held in the Senate today and supported by the Administration (Reclamation). We look for passage in the Senate very soon. It will then have to be signed by the President and then the Amendment process to our Contract will begin. Reclamation has worked with us on this years payments but I'm uncertain exactly how it will be handled at this time. We will use the 2003 funds to pay this but a repayment charge will once again be forth coming in the future.

## KANSAS BOSTWICK IRRIGATION DISTRICT NO. 2

Kenneth E. Nelson, Supt.  
Courtland, Ks 66939  
Home Phone (785) 374-4283  
Bus. Phone (785) 374-4514

PO BOX 165/528 Main Street  
Courtland KS 66939-0165  
Fax (785) 374-4305  
E-Mail: [kbid@courtland.net](mailto:kbid@courtland.net)

21 March 2006

Alice Johns, Area Manager  
U.S. Bureau of Reclamation  
PO Box 1607  
Grand Island NE 68802-1607

Dear Ms. Johns

Whereas, the approaching 2006 irrigation season for the Kansas Bostwick Irrigation District is predicted to be short of supply, we request permission to deliver natural flow water beginning once the maximum amount of allowable storage is reached in Lovewell Reservoir after the 1st of April.

This early start to deliveries could be very beneficial as pre-plant irrigation or for early season crops such as alfalfa.

Your earliest possible response to this letter is appreciated.

Sincerely,



Kenneth Nelson  
Superintendent

## KANSAS BOSTWICK IRRIGATION DISTRICT NO. 2

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Fax (785) 374-4305  
E-Mail: kbid@courtland.net

18 January 2006

Alice Johns, Area Manager  
US Bureau of Reclamation  
PO Box 1607  
Grand Island NE 68802-1607

Dear Ms. Johns:

Due to continuing drought coupled with depleted inflows, Harlan County Reservoir has not recovered from it's low supply at this time. With this, it is critical for us to store as much water as possible in Lovewell Reservoir.

We appreciate Reclamation's efforts and the Corps of Engineers cooperation in allowing utilization of flood pool area in the past. With todays critically short supply we request this effort to be carried forward for this upcoming year as well. If we can be of any assistance in explaining the nature of this request, don't hesitate to call.

Respectfully,



Kenneth Nelson  
Superintendent

cc: Marv Swanda

KBID 000235