



IN REPLY REFER TO:

NK-410
PRJ-23.00 BSW

United States Department of the Interior

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



NOV 03 2010

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

Subject: 2010 Irrigation Season

Dear Mr. Nelson:

The Kansas-Bostwick Irrigation District used a total of 58,233 acre-feet of water during the 2010 irrigation season. There were 20,190 acre-feet used above Lovewell and 38,043 acre-feet used below Lovewell.

We are enclosing the following: the 2010 "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 2010 to the McCook Office by November 30, 2010.

Sincerely,

Marvin R. Swanda
Office Manager

Enclosures – 6

PRES.	GLH
SECY	BP
	MD
	KN



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



JUN 03 2010

NK-410
WTR-4.10

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

Subject: Updated 2010 Available Water Supply (Franklin, Superior-Courtland and Courtland Units, Bostwick Division, Kansas, Pick-Sloan Missouri River Basin Program)

Dear Mr. Nelson:

The Bureau of Reclamation has established the shutoff elevation for Harlan County Lake (HCL) for the 2010 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 1934.58 ft. m.s.l.

*
*
Currently, the estimated total water supply from HCL that is available for irrigation release is approximately 147,100 acre-feet. The District's share of available water supply from HCL is 89,510 acre-feet.

These estimates are based on the assumption that inflow to both HCL and Lovewell Reservoir equals evaporation from the reservoirs during the irrigation season and the District will deliver one inch of water each six to seven days.

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

Sincerely,

FOR *William E. Reed, Jr.*

Marvin R. Swanda
Office Manager

PRES.	<i>GLH</i>
SEC'Y	<i>BP</i>
TREAS.	<i>MD</i>
SUPT.	<i>RN</i>



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FEB 03 2010

NK-410
PRJ-23.00 BSW

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

Subject: Monthly Water Distribution Reports - 2009

Dear Mr. Nelson:

Enclosed for your records are copies of the 2009 "Monthly Water Distribution" reports for the Courtland Canal above Lovewell, Courtland Canal below Lovewell, and the Kansas-Bostwick Summary.

Sincerely,

FOR

Marvin R. Swanda
Office Manager

Enclosures

PRES.	G/H
SECY	B/P
TREAS.	M/D
SUPT.	R/W

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

Canal: COURTLAND BELOW LOVEWELL **District:** KANSAS-BOSTWICK IRRIGATION DISTRICT NO. 2 **Year** 2009
Project: Pick-Sloan Missouri Basin Program **Acres Irrigated During Season:** 26,017

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 From 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	728	0	0	728	0	728	0	0	0	0	0	0	0	0
June	5,850	0	0	5,850	0	719	5,131	921	3,322	0	888	888	0.034	0
July	13,772	0	0	13,772	8	1,577	12,103	1,808	3,036	84	7,259	7,343	0.282	0
August	13,710	0	0	13,710	0	1,744	11,637	1,653	2,293	329	7,691	8,020	0.308	0
September	1,571	0	0	1,571	0	308	1,212	229	472	51	511	562	0.022	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	35,631	0	0	35,631	8	5,076	30,083	4,611	9,123	464	16,349	16,813	0.646	0
Acres ft. per acre****				1.37	0	0.2	1.16	0.18	0.35	0.02	0.63	0.65		
Percent Net Supply				100	0.02	14.2	84.4	12.9	25.6	1.3	45.9	47.2		

INSTRUCTIONS Column 2=Diversion amount exclusive of waste at head gates for sluicing. *Measured at lateral turnouts from main canal.
 Columns 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
BUREAU OF RECLAMATION

MONTHLY WATER DISTRIBUTION

Canal: COURTLAND ABOVE LOVEWELL **District:** KANSAS-BOSTWICK IRRIGATION DISTRICT NO. 2 **Year** 2009
Project: Pick-Sloan Missouri Basin Program **Acres Irrigated During Season:** 10,346

1	ACRE-FEET:										12	13	14
	2	3	4	5	6	7	8	9	10	11			
Month	Kan-Bost Share Loss 0.7 - 15.1	Kan-Bost Share Loss 15.1 - 34.8	Kan-Bost Diversions below Stateline	Net Supply	Main Canal Waste	Main Canal Losses	Delivered to Laterals*	Lateral Waste	Lateral Losses	From Main Canal**	Delivered to Farms From Lateral***	Total	Acres Per Acre****
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	663	2,064	2,178	4,905	0	2,727	2,146	494	1,368	32	284	316	0.031
July	889	1,632	4,042	6,563	0	2,521	3,942	699	732	100	2,511	2,611	0.252
August	1,220	1,453	4,027	6,700	0	2,673	3,317	551	474	710	2,292	3,002	0.29
September	80	174	411	665	0	254	366	92	130	45	144	189	0.018
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	2,852	5,323	10,658	18,833	0	8,175	9,771	1,836	2,704	887	5,231	6,118	0.59
Acres ft. per acre****				1.82	0	0.79	0.94	0.18	0.26	0.09	0.51	0.59	
Percent Net Supply				100	0	43.4	51.9	9.7	14.4	4.7	27.8	32.5	

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).

WATER USE STATEMENT
 FOR
 KANSAS-BOSTWICK IRRIGATION DISTRICT NO 2.
 P. O. Box 165
 Courtland KS 66939

Contract No. 009D6B0120

	May	June	July	Aug.	Sept.	Total (A.F.)
Use above Lovewell	0	1,474	10,232	7,508	976	20,190
Use below Lovewell	0	1,866	16,466	15,331	4,380	38,043
Total (A.F.)	0	3,340	26,698	22,839	5,356	58,233

These records are considered final for the 2010 irrigation season.

William E. Peck, Jr.
 Chief, Water Operations Group

Kenneth Nelson

From: Swanda, Marvin R [MSwanda@usbr.gov]
Sent: Monday, March 29, 2010 4:14 PM
To: Kenneth Nelson
Subject: FW: lovewell language approved



document2010-03-29-144033.pdf

Kenny--The change to the Manual for Lovewell has been approved.

-----Original Message-----

From: Swanda, Marvin R
Sent: Monday, March 29, 2010 3:47 PM
To: Swanda, Marvin R
Subject: Fw: lovewell language approved

----- Original Message -----

From: Christopher.A.Purzer@usace.army.mil <Christopher.A.Purzer@usace.army.mil>
To: Christopher.A.Purzer@usace.army.mil <Christopher.A.Purzer@usace.army.mil>; Swanda, Marvin R
Sent: Mon Mar 29 13:40:34 2010
Subject: lovewell language approved

Please see the attached document.

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

Section 9-8. Irrigation Storage During Drought Years. During periods of drought, the benefits of Lovewell Reservoir can be enhanced by permitting storage of water in the flood pool. Storing additional water during drought periods increases the project's irrigation beneficial purpose, without adversely affecting the ability to protect for the project design storm.

To determine whether a drought condition exists that would warrant storing of additional water in the Lovewell project; the District uses a part of the agreement between the District and the Bureau of Reclamation for the operation of Harlan County Lake. In accordance with that agreement, an annual accounting is made of water available for irrigation. The accounting measures hydrologic conditions and determines a firm amount of irrigation supply each January. If the supply is less than 119 thousand acre-feet, and it has been determined by both the Bureau of Reclamation and District that the basin is currently in drought conditions, water may be withdrawn from the Harlan County Lake sediment storage for irrigation. In addition, to insure that the basin upstream of Lovewell Reservoir is in a drought condition, the District will consider the National Weather Service "Drought Severity Index" or equivalent.

The District and Bureau of Reclamation use the same accounting method for determining the need and appropriateness of storing water in the Lovewell flood pool for subsequent use by irrigation. The amount of flood storage used for irrigation will vary, based on the level of drought determined by the Harlan County agreement.

Specifically, the calculation of available water supply from Harlan County Lake will be made using the March 31 storage values. The irrigation water determined available on March 31 will be used with the following table to determine the amount of storage available, if any, in the Lovewell flood pool for irrigation.

Irrigation Water Available (March 31) 1000 AF	Additional storage available (Feet)
119	No storage
116.5	0.5 foot
114	1 foot
111.5	1.5 feet
109 or less	2 feet

Water may be held for irrigation until the end of July for any year that water is stored in the flood pool for irrigation. Determination of values between table values will be interpolated linearly. If hydrologic conditions turn to a wet situation after March 31, the excess water stored in the flood pool will be evacuated in a timely fashion without causing downstream flooding.

DLM



REPLY TO
ATTENTION OF

DEPARTMENT OF THE ARMY
CORPS OF ENGINEERS, NORTHWESTERN DIVISION
1616 CAPITOL AVENUE
OMAHA NE 68102

CENWD-PDR

9 March 2010

MEMORANDUM FOR Chief, Engineering Division, Kansas City District (CENWK-ED)

SUBJECT: Lovewell Reservoir Regulation Manual

1. Reference memorandum dated 19 February 2010, CENWK-ED-HC, subject as above.
2. The proposed addition to the Lovewell Reservoir Regulation Manual (Dec 1968) Section 9-8, "Irrigation Storage During Drought Years," is approved as submitted.
3. If you have any questions concerning this reply, please contact me at (402) 996-3840 or Kevin Grode of my staff at (402) 996-3870.

FOR THE COMMANDER:

JODY S. FARHAT, P.E.
Chief, Missouri River Basin Water
Management Division



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



JAN 15 2010

NK-410
WTR-7.00 BSW

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

Subject: 2010 Available Water Supply (Franklin, Superior-Courtland and Courtland Units,
Bostwick Division, Kansas, Pick-Sloan Missouri River Basin Program)

Dear Mr. Nelson:

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 1934.58 ft. msl and the total available release from HCL for the 2010 irrigation season is 130,000 acre-feet. These estimates are based on a full conservation pool in both HCL and Lovewell Reservoir prior to the irrigation season, 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 78,900 acre-feet.

Enclosed is an estimate of water availability for the 2010 irrigation season.

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

Sincerely,

William E. Pech, Jr.
FOR: Marvin R. Swanda
Office Manager

Enclosure

FRES.	
SECY	BP
TREAS.	MD
SUPT.	KN

KBID 000332

ESTIMATED WATER AVAILABILITY -- 2010

January 13, 2010

<u>DISTRICT</u>	<u>ESTIMATED FARM DELIVERY (INCHES)</u>
Mirage Flats	4.5
Ainsworth	Full Supply
Twin Loups	Full Supply
Frenchman Valley	1.0
H&RW	1.0
Frenchman-Cambridge	
Meeker, Bartley & Cambridge	8.0
Red Willow Canal	0.0
Almena	6.0
Bostwick In Nebraska	Full Supply
Kansas-Bostwick	
Upper Courtland	Full Supply
Lower Courtland	Full Supply
Kirwin	Full Supply
Webster	Full Supply
Glen Elder	Full Supply

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.