

From: [Thompson, Aaron M](#)
To: [Aycock, Gordon L](#)
Subject: FW: Water Short year
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Attachments: [image002.jpg](#)
[The Reality of a water short year.docx](#)

From: Brad Edgerton [<mailto:Brad.Edgerton@fcidwater.com>]
Sent: Friday, June 04, 2010 2:22 PM
To: Scott, Craig D
Cc: Swanda, Marvin R; Peck, William E; Thompson, Aaron M
Subject: Water Short year

Craig
Attached is a scenario of what I think will happen.
Please review and provide comments.
I would like to hand this to the NRD Directors at the hearing.

Brad

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The Reality of “A water Short Year.”

Harlan County Lake is below the 292,000 AF needed to avoid the water short year trigger set by DNR's IMPs.

Last year's balance at Guide Rock was slightly negative and DNR forecast for the upcoming year is negative.

Jan. 1, DNR informed the NRD that Water Short Year Administration will be in effect. Wells owners in the 10-2 area are notified.

Closing notices are sent to Reclamation to begin by-passing inflows.

Natural permit holders are notified that no diversion will be permitted.

On Jan 1st Harry Strunk has 25,000 AF and is at 72%; 16,000 AF in storage is available for Irrigation.

Swanson has 44,000 AF and is at 39%; 23,000 AF in storage and available for Irrigation.

Hugh Butler has 14,000 and is at 38%; 8,800 AF in Storage available for Irrigation.

Enders is at 11,000 AF; with 2000 AF available for Irrigation.

And Harlan County is at 270,000 AF and has 106,000 AF available for Irrigation.

Frenchman Cambridge and Bostwick Nebraska Board of Directors decide to Irrigate with the storage water knowing that all the wells in the alluvial are off and every acre under Bostwick and Frenchman Cambridge will call for storage water.

The 22, 500 Acres under bostwick call for 45,000 AF

All 16,000 AF from Harry stunk are released; all 23,000 AF from Swanson and 8,800 Af from Hugh Butler. All 45,600 acres of FCID are irrigated applying 6 inches per acre and using all the storage water.

All the Natural Flow is passed through Harlan County Reservoir with most of it occurring January thru June. Kansas Bostwick has no opportunity to use the natural flow and calls for an additional 30,000 AF of storage water from Harlan County Reservoir.

Harlan County started at 270,000 AF. No natural flow was stored since Dec. 31,

The evaporation for the year lowers the Reservoir to 240,000 AF.

Nebraska Bostwick calls for 45,000 AF leaving Harlan County Res. With 195,000

Kansas Bostwick takes 30,000 AF leaving 165,000

In December DNR looks at Harlan County Lake and finds 889 AF available for Irrigation.

They look upstream and find only 2,000 AF in Enders Reservoir available for Irrigation.

The two year balance at Guide Rock is positive by 20,000 Acre-Feet. The Call is lifted on Jan 1 and all Reservoirs begin storing water again. The inflow into Harlan County is 100 CFS by June 30th 36,200 AF has arrived at Harlan County Lake. 25,000 AF goes towards evaporation leaving 11,200 AF to split between Nebraska and Kansas Bostwick.

Kansas in not happy with Nebraska's Plan.