

**NEBRASKA EMERGENCY DROUGHT ASSISTANCE
REPUBLICAN RIVER BASIN IRRIGATION DISTRICTS
INCREASED RESERVOIR STORAGE CARRYOVER**

I. AUTHORITY

Drought assistance is being provided to the Nebraska Department of Natural Resources pursuant to section 102 of Title I as discussed under Section I. Authority in this cooperative agreement.

II. BACKGROUND AND OBJECTIVE

Declining inflows throughout the Republican River Basin has significantly reduced storage supplies in Reclamation reservoirs in southwest Nebraska. This area has suffered effects of the current drought since 2000. Irrigation Districts in the Republican River Basin have been delivering reduced supplies and in 2003, 4 canal systems did not deliver any project water due to the drought conditions. In 2004, project delivery estimates for the 12 Reclamation project canal systems in the Nebraska portion of the Republican Basin Reservoirs range from 1 inch per acre to 8 inches per acre.

The declining inflows have resulted in declining reservoir storage, which causes problems like increases in noxious weeds and invasive species, declining fish habitat, decreased shoreline access, increased water temperatures, lower levels of dissolved oxygen, and reduced visitation. The Nebraska DNR would like to provide financial incentives to irrigation districts for leaving irrigation storage in the reservoirs.

Nebraska requested drought assistance in a May 5, 2004 letter from Governor Mike Johanns to Reclamation Commissioner John Keys. Nebraska was approved for drought assistance by the Commissioner's letter dated June 2, 2004.

The purpose of this attachment is to provide a mechanism for Reclamation to provide financial assistance through the Reclamation States Emergency Drought Relief Act to the Nebraska DNR for emergency drought assistance. The Nebraska DNR will provide financial incentives to the Republican River Basin Irrigation Districts for leaving limited 2004 irrigation storage in the reservoirs.

III. PUBLIC BENEFIT

Assistance for leaving irrigation storage water for future years use will result in higher carryover reservoir levels, which will provide fish and wildlife and recreation benefits to the reservoir areas. The higher reservoir levels will reduce noxious weed and invasive species infestations, improve shoreline access, and increase visitation to the parks

surrounding these reservoirs. Higher reservoir levels also will keep water temperatures cooler and oxygen levels higher, which will be more beneficial to fish populations.

IV. STATEMENT OF WORK

A. The Nebraska DNR shall:

1. Enter into an agreement with the Republican River Basin Irrigation Districts in Nebraska (Frenchman Valley, H & RW, Frenchman-Cambridge, and Bostwick in Nebraska) in order to supply financial assistance to these Districts for leaving limited 2004 irrigation storage in the Republican Reservoirs (Swanson Lake, Enders Reservoir, Red Willow Lake, and Harlan County Lake), which will provide fish, wildlife, and recreation benefits.

B. Reclamation will

1. Provide funding assistance not to exceed \$151,500 to the Nebraska DNR for assistance to the Republican River Basin Irrigation Districts for leaving limited 2004 irrigation storage in the Republican Reservoirs, which will provide fish, wildlife, and recreation benefits.

XXI. BUDGET

Financial incentives were based on the March estimates of irrigation storage available at the Republican River Basin Reservoirs. A tiered reimbursement schedule was developed that included a proposed payment of \$10.00 per AF of storage up to 2,500 AF, \$5.00 per AF of storage for the next 2,500 AF, and \$2.50 AF of storage above 5,000 AF.

The Bureau of Reclamation provided an estimated total irrigation supply in each reservoir as of March, 2004.

| Reservoir | 04 Estimated Irrig. Storage | Drought Assistance |
|----------------------|-----------------------------|--------------------|
| Enders Reservoir | 3,300 AF | \$ 29,000 |
| Swanson Lake | 6,600 AF | \$ 41,500 |
| Hugh Butler Lake | 5,900 AF | \$ 39,750 |
| Harlan County Lake * | 6,500 AF | \$ 41,250 |
| * Nebraska's share | | ===== |
| | Total | \$151,500 |

Drought Assistance by Irrigation District

| | |
|--|--------------------------|
| Frenchman Valley & H & RW Irrigation Districts Enders | \$ 29,000 |
| Frenchman-Cambridge Irrigation District Swanson, Hugh Butler | \$ 81,250 |
| Bostwick Irrigation District in Nebraska Harlan County (Nebraska's share) | \$ 41,250 |
| TOTAL | <u><u>\$ 151,500</u></u> |

DRAFT

7-2278 (4/90)
Bureau of Reclamation

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF RECLAMATION
MODIFICATION OF ASSISTANCE AGREEMENT

| 1. MODIFICATION NUMBER 001 | | 2. EFFECTIVE DATE See Block 12 | | 3. REQUISITION NUMBER | | | | | | | | | | | | | |
|--|------------|---|--|--|--|--|------------|-----|-----------------|----------|-------------------|---------------------|----------|-------------------|------------------|----------|-------------------|
| 4. ISSUED BY Bureau of Reclamation Great Plains Region P.O. Box 36900 Billings MT 59107-6900 | | CODE <u>GP-3700</u> | | 5. ACCOUNTING AND APPROPRIATION DATA \$151,500 A10.1327.0009.001.GP.N.7 6B30200 | | | | | | | | | | | | | |
| 7. RECIPIENT NAME AND ADDRESS Nebraska Department of Natural Resources 301 Centennial Mall South Lincoln, NE 68509-4676 | | 6. FUNDING INFORMATION | | | | | | | | | | | | | | | |
| 8. COOPERATIVE AGREEMENT <input checked="" type="checkbox"/> GRANT <input type="checkbox"/> No: <u>03FC601826</u> Dated: <u>07/29/03</u> | | <table><thead><tr><th></th><th>Recipient:</th><th>BOR</th></tr></thead><tbody><tr><td>This Obligation</td><td>\$ _____</td><td>\$ <u>151,500</u></td></tr><tr><td>Previous Obligation</td><td>\$ _____</td><td>\$ <u>238,000</u></td></tr><tr><td>Total Obligation</td><td>\$ _____</td><td>\$ <u>389,500</u></td></tr></tbody></table> | | | | | Recipient: | BOR | This Obligation | \$ _____ | \$ <u>151,500</u> | Previous Obligation | \$ _____ | \$ <u>238,000</u> | Total Obligation | \$ _____ | \$ <u>389,500</u> |
| | Recipient: | BOR | | | | | | | | | | | | | | | |
| This Obligation | \$ _____ | \$ <u>151,500</u> | | | | | | | | | | | | | | | |
| Previous Obligation | \$ _____ | \$ <u>238,000</u> | | | | | | | | | | | | | | | |
| Total Obligation | \$ _____ | \$ <u>389,500</u> | | | | | | | | | | | | | | | |
| 9. THIS SUPPLEMENTAL AGREEMENT IS ENTERED INTO PURSUANT TO AUTHORITY OF Reclamation States Emergency Drought Relief Act of 1991, P.L. 102-250, 106, State 53, as amended. It modifies the above numbered assistance agreement as set forth in Block 8 | | | | | | | | | | | | | | | | | |
| 10. DESCRIPTION OF MODIFICATION: <u>Project Title:</u> Improved Hydrologic Data Collection Systems for Drought Monitoring This modification changes the title of this agreement to "Emergency Drought Assistance and Drought Planning Assistance". This modification also makes the changes as listed on the attached page and approves the project included as Attachment 1. <u>Notice of Additional Reservation of Funds:</u> In addition to the funds previously reserved under the above agreement, an additional \$151,500 is now reserved to cover payment of all earnings under the agreement through Fiscal Year 2004. Total funding for this agreement is now changed from \$238,000 to \$389,500. It is to be expressly understood that the Government has no obligation to provide funds in addition to those reserved in writing. Except as provided herein, all terms and conditions of the document referenced in Block 8, as heretofore changed, remain unchanged and in full force and effect. | | | | | | | | | | | | | | | | | |
| 11. Acceptance of this Modification in accordance with the terms and conditions contained herein is hereby made on behalf of _____ NAME OF RECIPIENT BY _____ SIGNATURE DATE _____ TYPED NAME TITLE _____ | | | 12. Acceptance of this Modification in accordance with the terms and conditions herein made on behalf of the United States of America, Bureau of Reclamation BY _____ SIGNATURE DATE _____ TYPED NAME TITLE _____ | | | | | | | | | | | | | | |

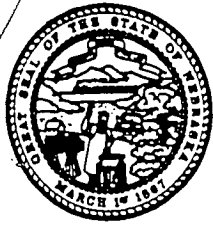
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Bureau of Reclamation

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF RECLAMATION
MODIFICATION OF ASSISTANCE AGREEMENT

Attach Additional Signatures

DRAFT

STATE OF NEBRASKA



DEPARTMENT OF NATURAL RESOURCES
Roger K. Patterson
Director

February 12, 2003

IN REPLY REFER TO:

Mike Johanns
Governor

Fred Ore
Area Manager
Bureau of Reclamation
Great Plains Region
Nebraska-Kansas Area Office
P.O. Box 1607
Grand Island, Nebraska 68802-1607

Dear Mr. Ore:

Last August I wrote to you concerning the possibility of Bureau assistance under both your Nebraska Investigations Program and under your Technical Assistance to States and Tribes Program. One of our requests on the Technical Assistance to States and Tribes Program was for Bureau work on "Assistance on Digital Mapping of Water Rights in the Republican Basin". The request at that time was for \$30,000 worth of assistance. We have recently held discussions both in-house and with Mike Kube and Fred Wood of your office concerning details of that potential assistance and I would like to formally request your assistance on that project at this time.

The specific assistance we request would be to have the Bureau:

1. Scan Land Area Sheets for the Frenchman-Cambridge Irrigation District
2. Register the scanned Land Area Sheets to an agreed map coordinate system
3. Vectorize the information on the scanned sheets
4. Supply personnel to field verify what is irrigated in the District.

Once those activities are completed in the Frenchman-Cambridge District a further needed activity would be to conduct similar projects in each of the remaining Republican River Basin Irrigation Districts. The order of priority for overall work (should it prove possible under your Technical Assistance Program) would be as follows:

Frenchman Cambridge Irrigation District.

Meeker-Driftwood Canal
Red Willow Canal
Bartley Canal
Cambridge Canal

clrshare/Patterson

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Fred Ore
February 12, 2003
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Bostwick Irrigation District

Naponee Canal
Franklin Pump Canal
Courtland Canal
Franklin Canal
Superior Canal

Frenchman Valley Irrigation District

Culbetson Canal

H&RW Irrigation District

Culbetson extension Canal

Also:

Pioneer Irrigation District

Haigler Canal

One final longer term need, should funds become available, would be for establishing map coordinates for section corners and subsection divisions as defined in the Public Land Survey System. This would enhance mapping efforts and water rights modifications within the Irrigation Districts. A process like that of the software package called Geographic Measurement Management (GMM) developed for the Bureau of Land Management (BLM) would benefit all parties responsible for water right management. NDNR contact personnel for irrigation district digital mapping efforts include Mike Thompson and Steve Gaul in Lincoln, and Brad Edgerton in Cambridge. Thank you for your consideration.

Sincerely,



Roger K. Patterson
Director

sg

cc: Mike Kube
Brad Edgerton
Mike Thompson ✓

Draft Agenda
Nebraska Carbon Sequestration Advisory Committee Meeting
1:30 PM, Wednesday, December 3, 2008
University of Nebraska – Lincoln, East Campus Union (room to be posted)

1. Call to Order / Introductions / Approval of 11/16/07 Notes – Williamson
2. Carbon Market Update – Lynne
3. Report on December 10, 2007 Subcommittee Meeting – Williamson et. al.
4. Committee Suggestions on Future Membership/Duties
5. Carbon Sequestration Research Activity - TBA
6. NRCS Report / Aggregator Activity - Brubaker and Others
7. NPPD Report – Hasenkamp-Gibbs
8. Forestry Report - Straight
9. Future Meetings – Williamson and Gaul
10. Adjourn

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