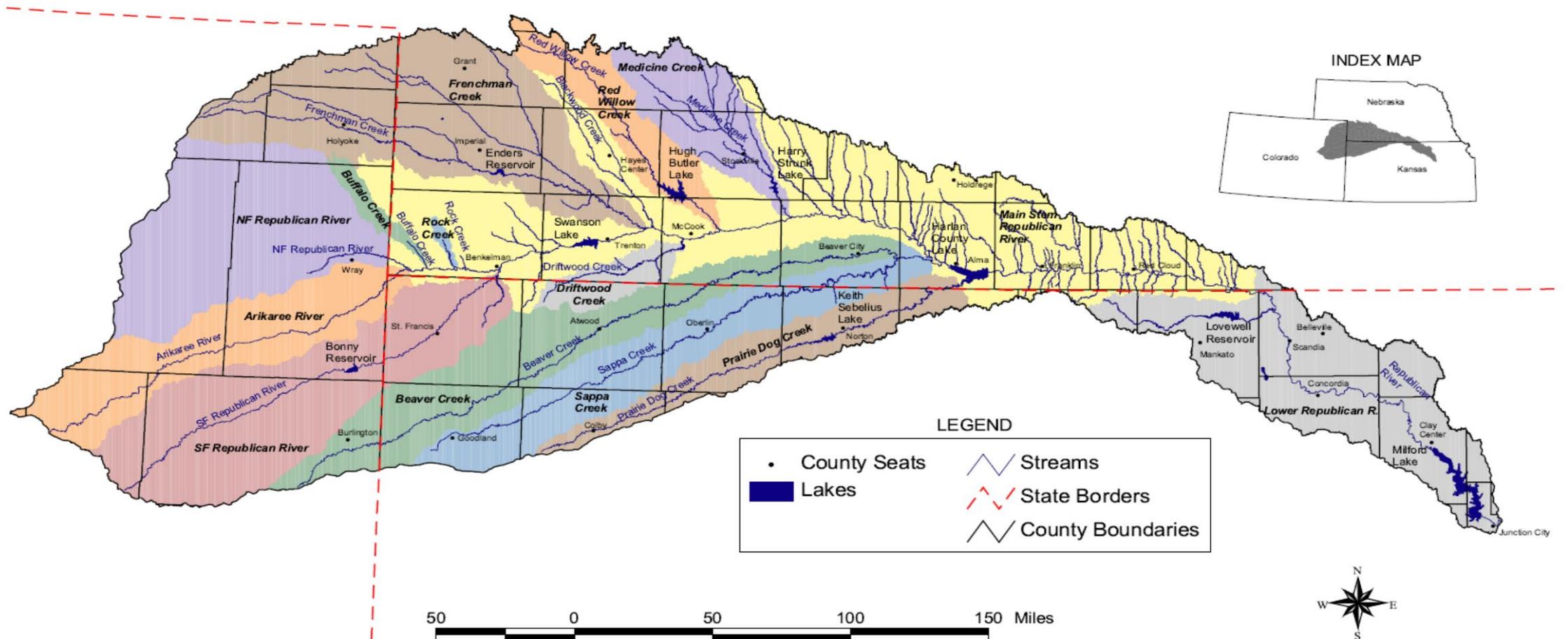


South Central Water Conference

2026 Producer Update and Basin Outlook Lower Republican NRD



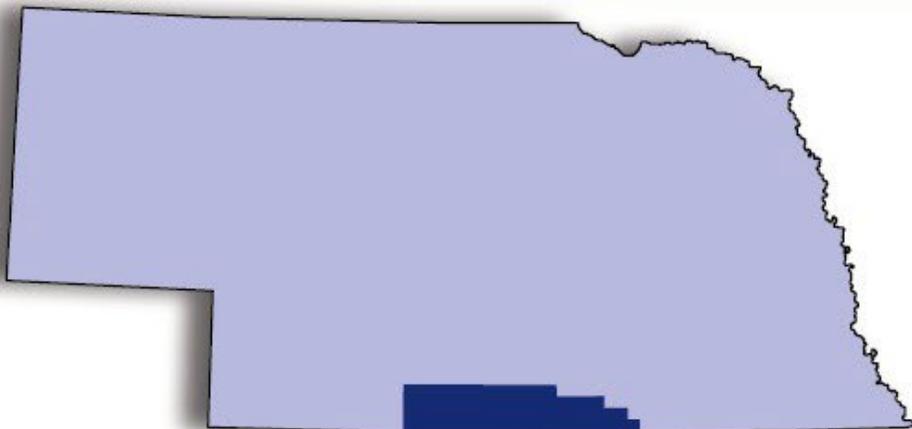
LOWER REPUBLICAN NRD

Furnas Co.

Harlan Co.

Franklin Co.

Webster Co.



The Lower Republican NRD is about 120 miles east to west but only about 24 miles north to south. We cover 2,480 sq miles or about 1,587,000 acres. Of that, about 320,000 are groundwater irrigated. There is about 45,000 acres of surface water irrigation but 15,000 also has wells and is considered comingled.



**“YOU CAN'T MANAGE
WHAT YOU DON'T
MEASURE”**

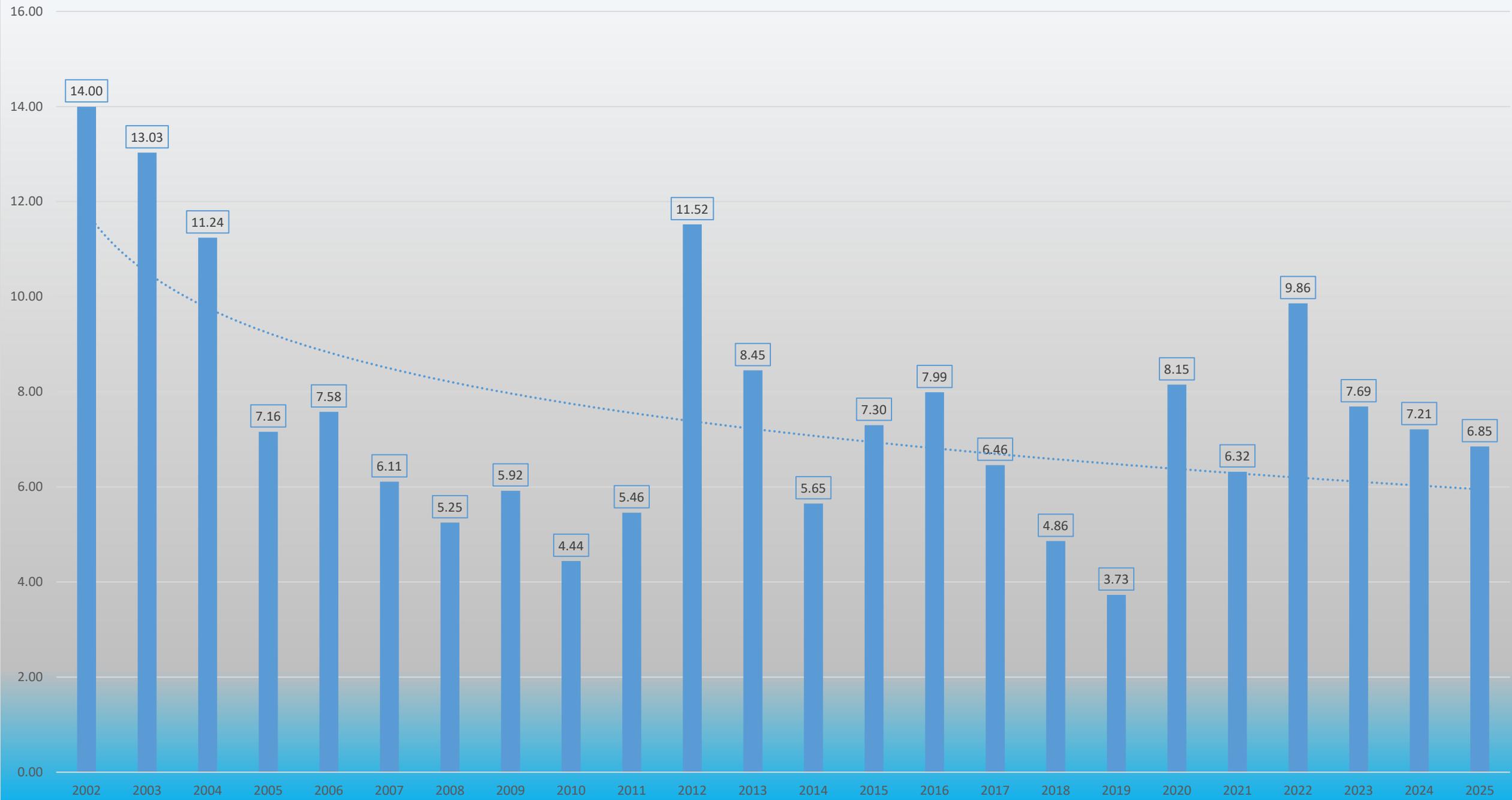
~ PETER DRUCKER

Lower Republican NRD

LRNRD: DISTRICTWIDE WATER USAGE 2003 - 2025

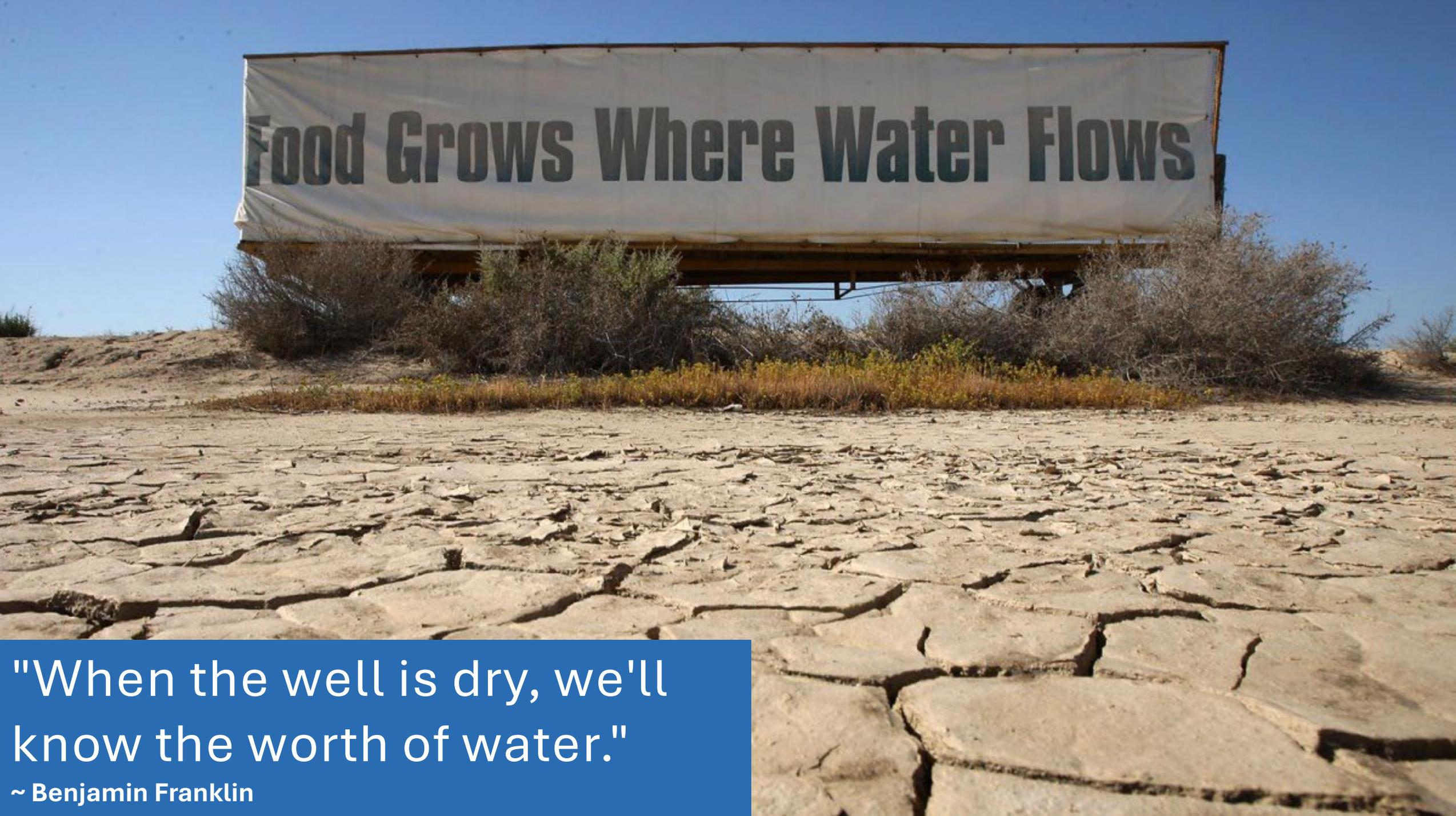
2003 = 13.03 inches per acre	2015 = 7.30 inches per acre
2004 = 11.24 inches per acre	2016 = 7.99 inches per acre
2005 = 7.17 inches per acre	2017 = 6.46 inches per acre
2006 = 7.58 inches per acre	2018 = 4.86 inches per acre
2007 = 6.11 inches per acre	2019 = 3.73 inches per acre
2008 = 5.25 inches per acre	2020 = 8.15 inches per acre
2009 = 5.92 inches per acre	2021 = 6.32 inches per acre
2010 = 4.44 inches per acre	2022 = 9.86 inches per acre
2011 = 5.46 inches per acre	2023 = 7.69 inches per acre
2012 = 11.52 inches per acre	2024 = 7.21 inches per acre
2013 = 8.45 inches per acre	2025 = 6.85 inches per acre
2014 = 5.65 inches per acre	

Inches Per Acre on Effective Acres



Lower Republican NRD ALLOCATIONS FOR GROUNDWATER IRRIGATION, 2023-2027

Total Allocation	45 Inches/Acre/5 Years
Annual or Base Allocation	9 Inches/Acre/Year
Maximum Annual Use	45 Inches/Acre (13 Inches/Acre in a Compact Call Year)
Carry over amount that can be used in the following allocation period	9 Inches/Acre (Max)
Hard Cap	13 Inches/Acre/Year (in a Compact Call Year)
Pooling allowed?	Yes
How are the allocations affected by surface water use?	Allocations are not affected by surface water use. Irrigators may use their full groundwater allocation, regardless of any surface water use.

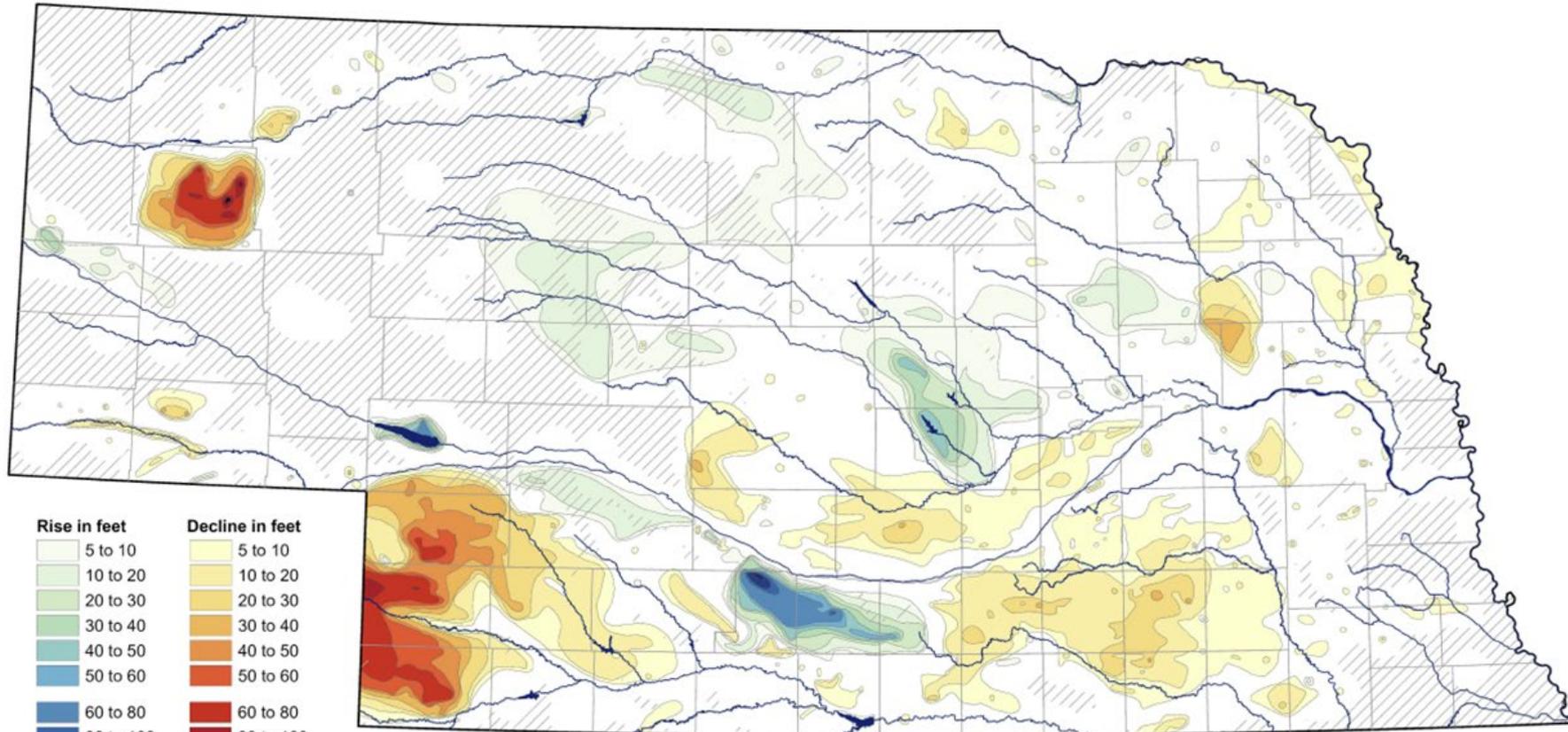
A billboard stands in a desolate, arid landscape. The ground is parched and cracked into large, irregular polygons. Sparse, dry vegetation is scattered across the scene. The billboard's message is a stark contrast to the environment.

Food Grows Where Water Flows

"When the well is dry, we'll
know the worth of water."

~ Benjamin Franklin

Groundwater-Level Changes in Nebraska - Predevelopment to Spring 2024



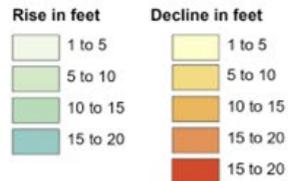
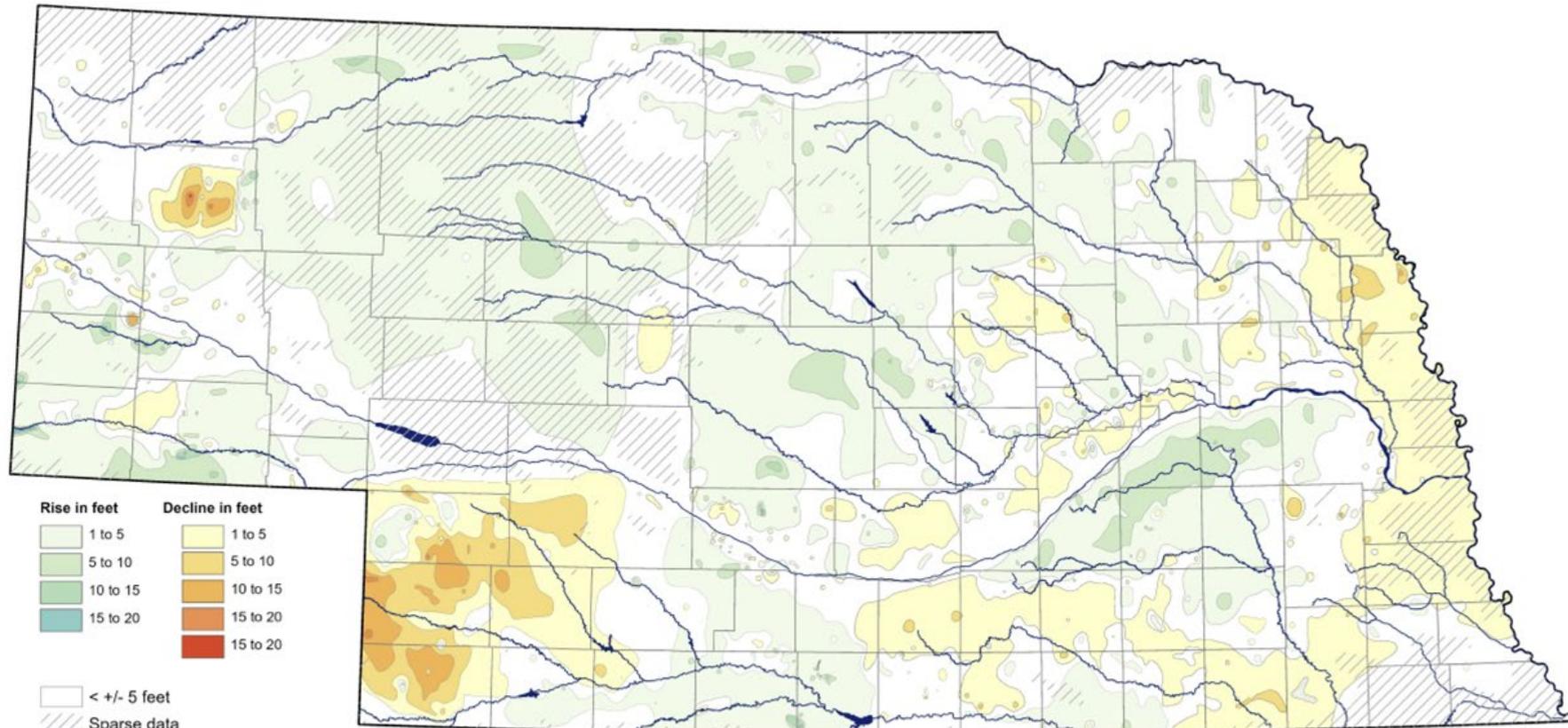
For an explanation of information presented on this map, see the 2024 Nebraska Statewide Groundwater-Level Monitoring Report, available for download at go.unl.edu/groundwater

CONSERVATION AND SURVEY DIVISION (<http://snr.unl.edu/csd>)
 School of Natural Resources (<http://snr.unl.edu>)
 Institute of Agriculture and Natural Resources
 University of Nebraska-Lincoln

Aaron Young, Survey Geologist, CSD
 Mark Burbach, Water Levels Program Supervisor, CSD

Data provided by:
 Nebraska Natural Resources Districts
 Central Nebraska Public Power and Irrigation District
 U.S. Geological Survey
 Nebraska Water Science Center
 U.S. Bureau of Reclamation
 Kansas-Nebraska Area Office
 Conservation and Survey Division,
 University of Nebraska - Lincoln

Groundwater-Level Changes in Nebraska - Spring 2014 to Spring 2024



< +/- 5 feet
 Sparse data
 Surface water
 (1 foot = .3048 meters)

For an explanation of information presented on this map, see the 2024 Nebraska Statewide Groundwater-Level Monitoring Report, available for download at go.unl.edu/groundwater

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Current and Future Projects

NCORPE Augmentation Project

HydroData/Producer Connect

Rural Water District – Riverton Extension

Platte-to-Republican Diversion Project

Nebraska Bostwick Irrigation District Rubicon Gates

WaterSMART grant for Telemetry Flowmeters – Phase I

WFPO on West Turkey and Thompson Creek Watersheds

WaterSMART grant for Telemetry Flowmeters – Phase II





HYDRODATA DATABASE and PRODUCER CONNECT APPLICATION

Active



Allocation Remaining



40.69 inches remaining out of 54 inches



Allocations

Ac-In

+ Add

HYDRODATA DATABASE and PRODUCER CONNECT APPLICATION

Tract



Wells



Flowmeters



Chemigation



Soil Samples



Crops & Management



Nitrogen



Settings

Total Tract Acres

233.5

Reported Corn Yield

225 bu / ac

7% ↑ than last year

Total Pumping

1913.56

66% ↑ than last year



Messages

DATE

MESSAGE TITLE

TYPE

ACTI







- ▶ DWEE
- ▶ USDA-NRCS
- ▶ NARD
- ▶ NACD
- ▶ DEPT OF NATURAL RESOURCES
- ▶ US ARMY CORPS OF ENGINEERS
- ▶ US BUREAU OF RECLAMATION
- ▶ TRAILBLAZER RC&D
- ▶ TWIN VALLEY WMA
- ▶ SOUTHWEST WMA
- ▶ FRENCHMAN-CAMBRIDGE ID
- ▶ NEBRASKA BOSTWICK ID
- ▶ NE WATER RESOURCES ASSOCIATION
- ▶ DISTRICT SCHOOLS & FFA PROGRAMS
- ▶ PRD
- ▶ CENTRAL NE PP&ID
- ▶ COUNTY GOVERNMENTS
- ▶ MUNICIPALITIES
- ▶ USDA-FOREST SERVICE
- ▶ NE-FOREST SERVICE
- ▶ NCORPE
- ▶ NDEE
- ▶ UNIVERSITY OF NEBRASKA
- ▶ USGS
- ▶ NEBRASKA GAME & PARKS
- ▶ REPUBLICAN RIVER COMPACT – KS & CO
- ▶ SUPERIOR HARDY SPA – Little Blue
- ▶ NEBRASKA ENVIRONMENTAL TRUST
- ▶ MCCROMETER
- ▶ NEBRASKA LEAD PROGRAM

PARTNERSHIPS