



Frenchman Cambridge Irrigation District

Dale Cramer, President

Todd Lichty, Vice President

Duane Vorderstrasse, Secretary / Treasurer

FCID Employs 11 Fulltime Employees



"Water is Life"

Background:

FCID was Established in 1946.

First Irrigation District organized under the Missouri Basin Plan approved by congress in 1944



"Water is Life"

Background:

Four Reclamation Canal Systems serving 45,669 acres.

Meeker-Driftwood Canal serves 16,691 acres

Red Willow Canal serves 4,642 acres

Bartley Canal serves 6,130

Cambridge Canal serves 18,205



"Water is Life"

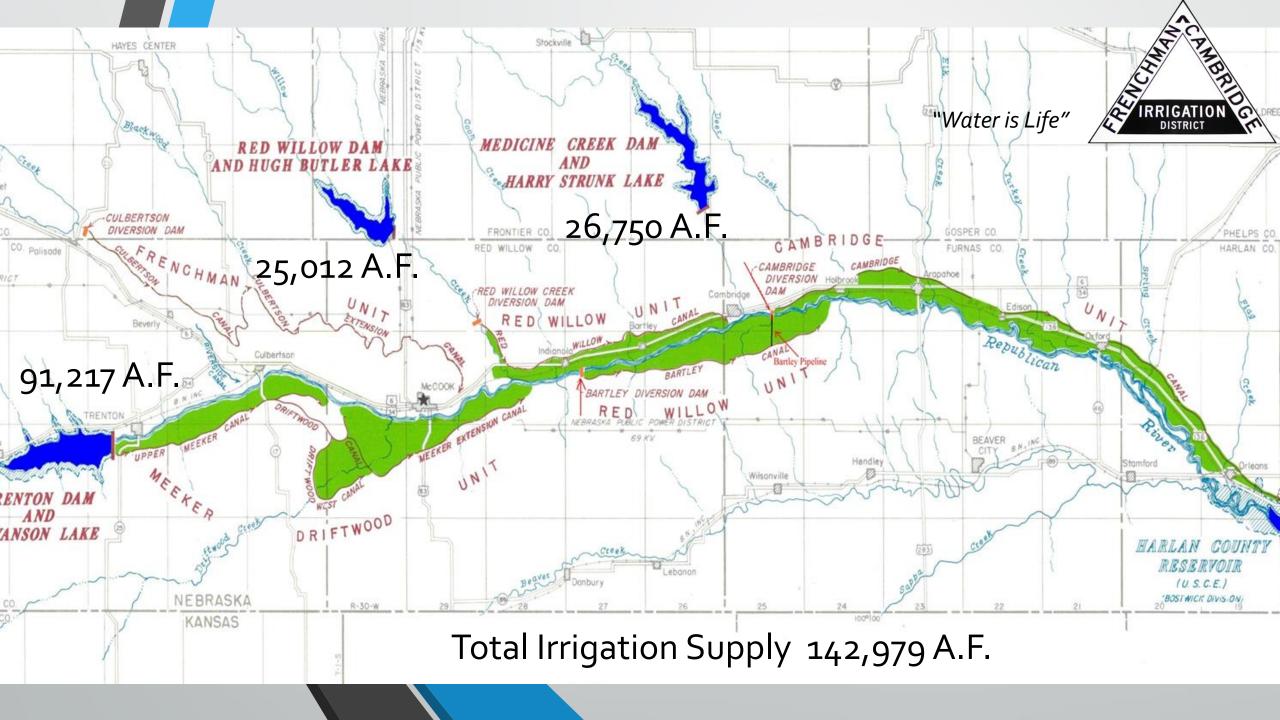
Background:

Four Reclamation Canal Systems with:

156 miles of main canal

100 miles of buried pipe laterals

157 miles of surface and sub-surface drains

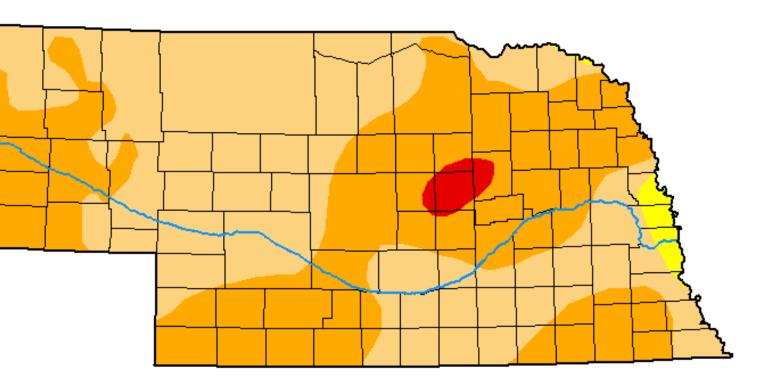


U.S. Drought Monitor Nebraska

March 15, 2022

(Released Thursday, Mar. 17, 2022)
Valid 8 a.m. EDT





Intensity:

None

D0 Abnormally Dry

D1 Moderate Drought

D2 Severe Drought

D3 Extreme Drought

D4 Exceptional Drought

The Drought Monitor focuses on broad-scale conditions. Local conditions may vary. For more information on the Drought Monitor, go to https://droughtmonitor.unl.edu/About.aspx

Author:

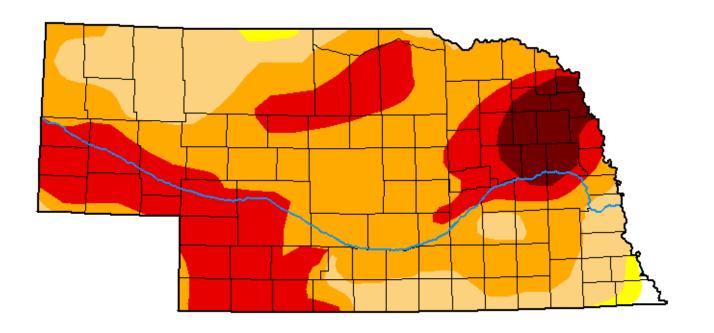
U.S. Drought Monitor

Nebraska

March 14, 2023

(Released Thursday, Mar. 16, 2023) Valid 8 a.m. EDT





Intensity:

None

D0 Abnormally Dry

D1 Moderate Drought

D2 Severe Drought

D3 Extreme Drought



D4 Exceptional Drought

The Drought Monitor focuses on broad-scale conditions. Local conditions may vary. For more information on the Drought Monitor, go to https://droughtmonitor.unl.edu/About.aspx

Author:

Brad Rippey U.S. Department of Agriculture





droughtmonitor unladu





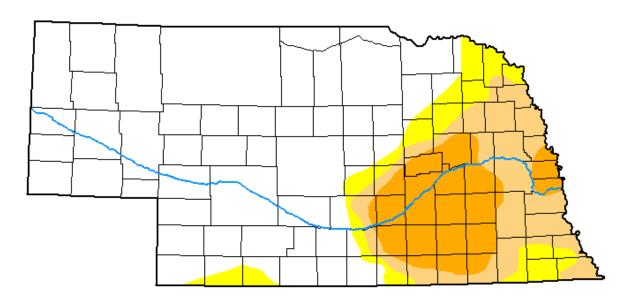
U.S. Drought Monitor

Nebraska

March 12, 2024

(Released Thursday, Mar. 14, 2024)
Valid 8 a.m. EDT





Intensity:

None

D0 Abnormally Dry

D1 Moderate Drought

D2 Severe Drought

D3 Extreme Drought

D4 Exceptional Drought

The Drought Monitor focuses on broad-scale conditions. Local conditions may vary. For more information on the Drought Monitor, go to https://droughtmonitor.unl.edu/About.aspx

Author:

Curtis Riganti National Drought Mitigation Center









droughtmonitor.unl.edu

NRD Annual Hardy Balance Forecast for Upcoming Year (2024)

	LRNRD	MRNRD	URNRD	Total
Allowable Depletion Distribution Percentage from IMPs	25.3%	30.8%	43.9%	100.0%
Allowable Groundwater Depletions	40,400	49,200	70,200	159,900
Projected Groundwater Depletions	48,000	50,900	74,500	173,400
2024 Forecast Balance (no action)	-7,600	-1,700	-4,300	-13,500
2020-2023, projected	-720	39,140	26,980	65,400
5-Year Forecast Balance	-8,320	37,440	22,680	51,900
5-Year Forecast Balance + 5K AF	-13,320	32,440	17,680	

NRD Annual Guide Rock Balance Forecast for Upcoming Year (2024)

	LRNRD	MRNRD	URNRD	Total
Allowable Depletion Distribution Percentage from IMPs	24.5%	31.1%	44.4%	100.0%
Allowable Groundwater Depletions	36,700	46,600	66,600	149,900
Projected Groundwater Depletions	45,600	50,900	74,500	171,000
2024 Forecast Balance (no action)	-8,900	-4,300	-7,900	-21,100
2023, projected	-10,420	-4,060	-5,320	-19,800
2-Year Forecast Balance	-19,320	-8,360	-13,220	-40,900
2-Year Forecast Balance + 5K AF	-24,320	-13,360	-18,220	

A two year test will require the NRD's to pump up to 41,000 acre-feet from N-Corpe and Rock Creek. Kansas may request less water if not needed

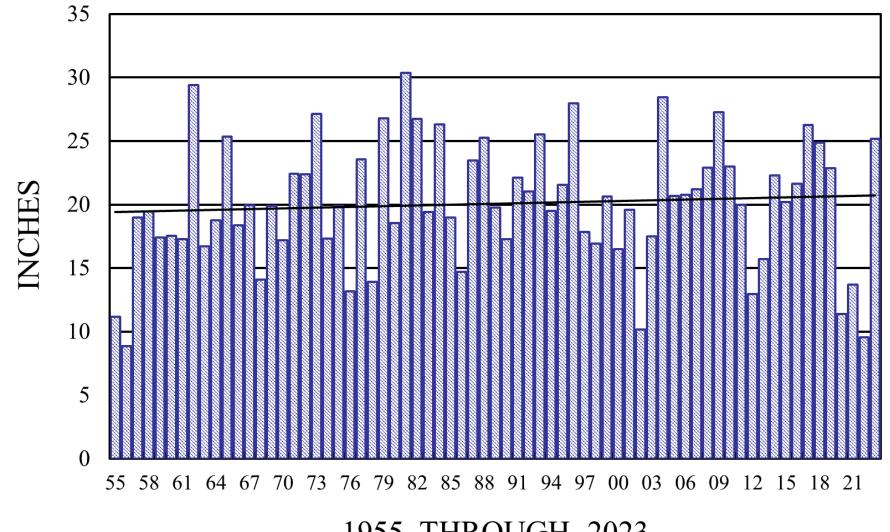
- Two ways Nebraska can avoid the two year test!
- Harlan County must reach 119,000 Acre-feet of Irrigation Supply by June 30. Current irrigation supply is 104,700 Acre-feet.
- KBID's irrigation supply must reach 68,000 acre-feet.
 Current account balance for KBID is 62,700 acre-feet



FCID 2024 Water Supply and Reservoir Report

TRENTON DAM YEARLY PRECIPITATION

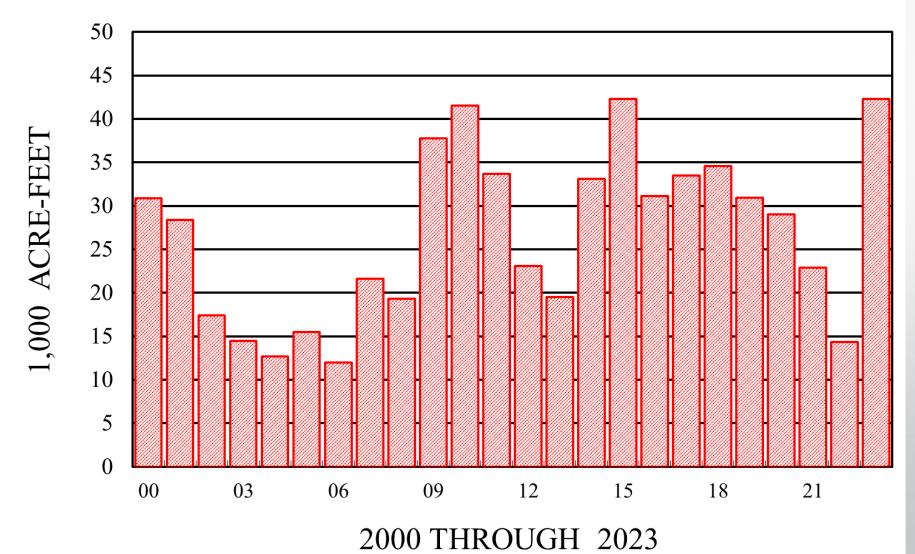




1955 THROUGH 2023

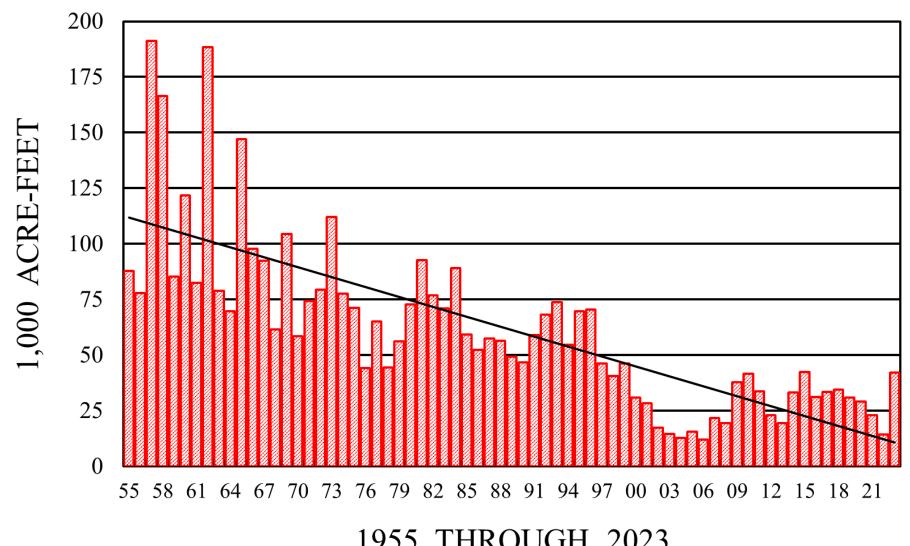
TRENTON DAM YEARLY HISTORICAL INFLOW





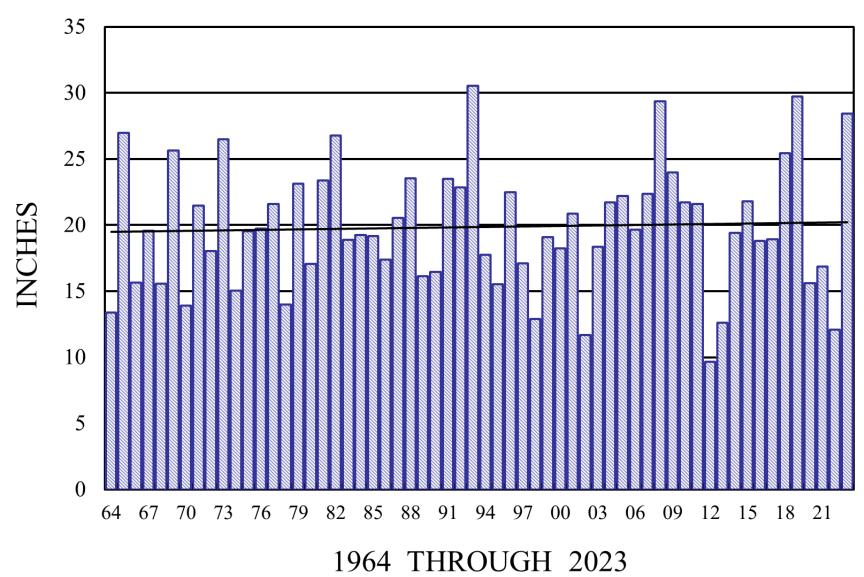
TRENTON DAM YEARLY HISTORICAL INFLOW





1955 THROUGH 2023

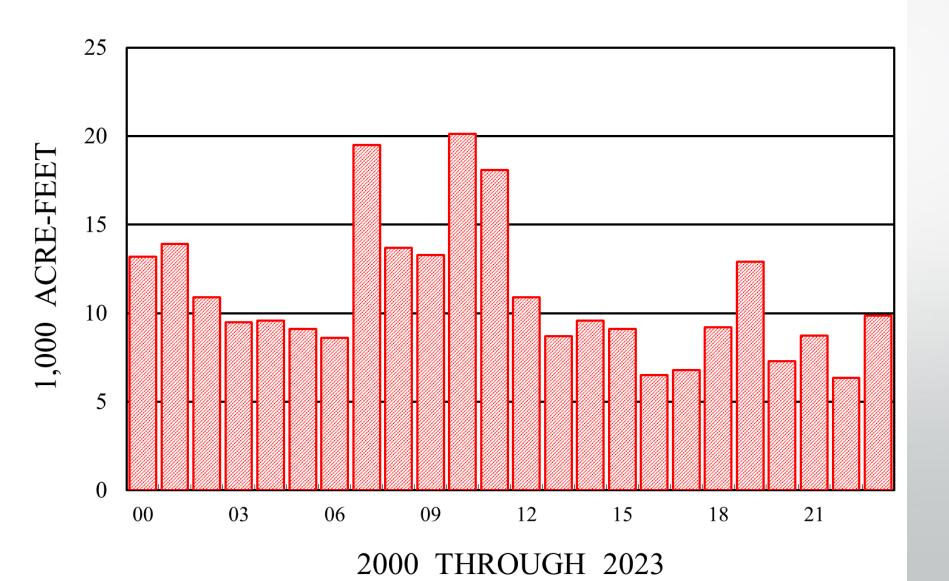
RED WILLOW DAM YEARLY PRECIPITATION



IRRIGATION DISTRICT

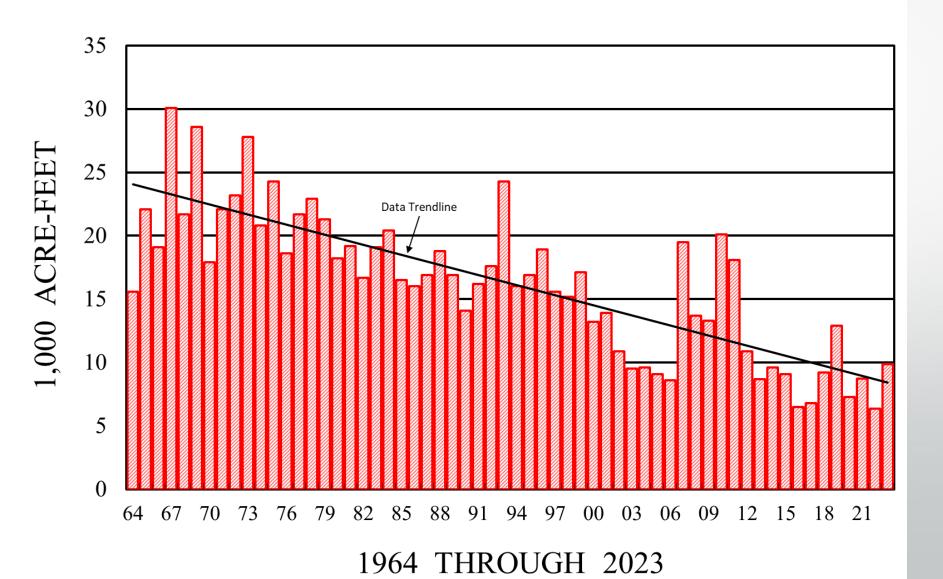
RED WILLOW DAM and HUGH BUTLER LAKE YEARLY HISTORICAL INFLOW



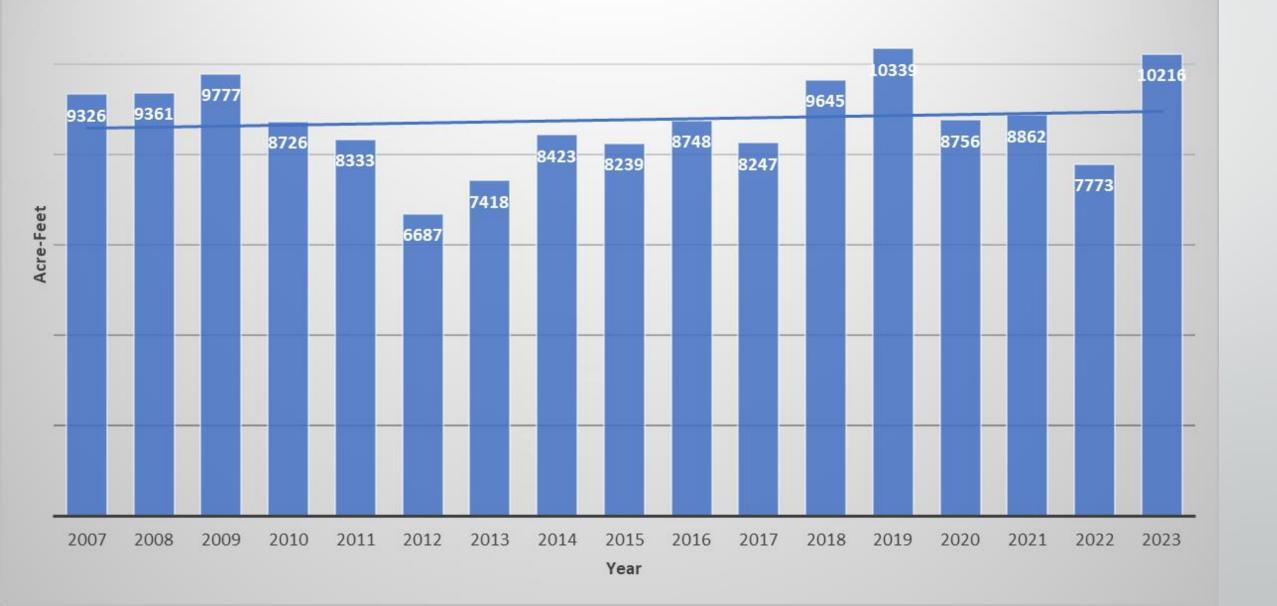




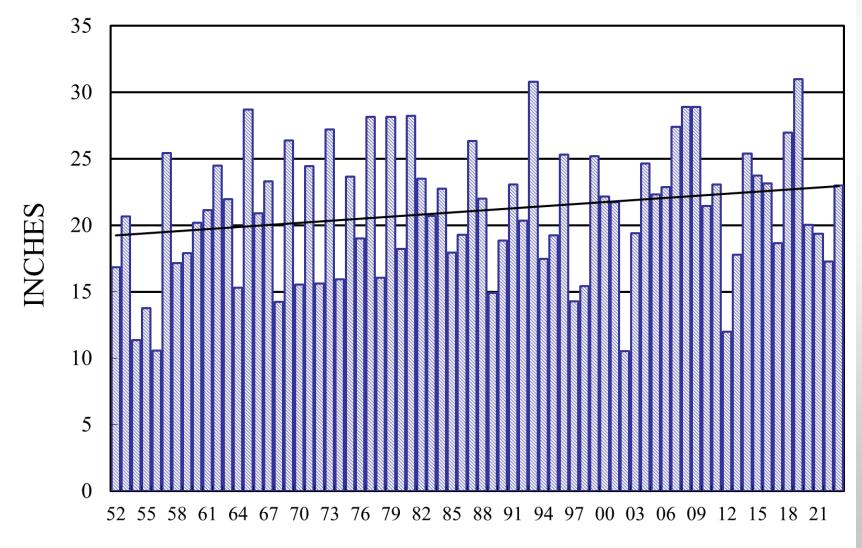




Red Willow Sub-Basin GW Depletions to Red Willow Creek



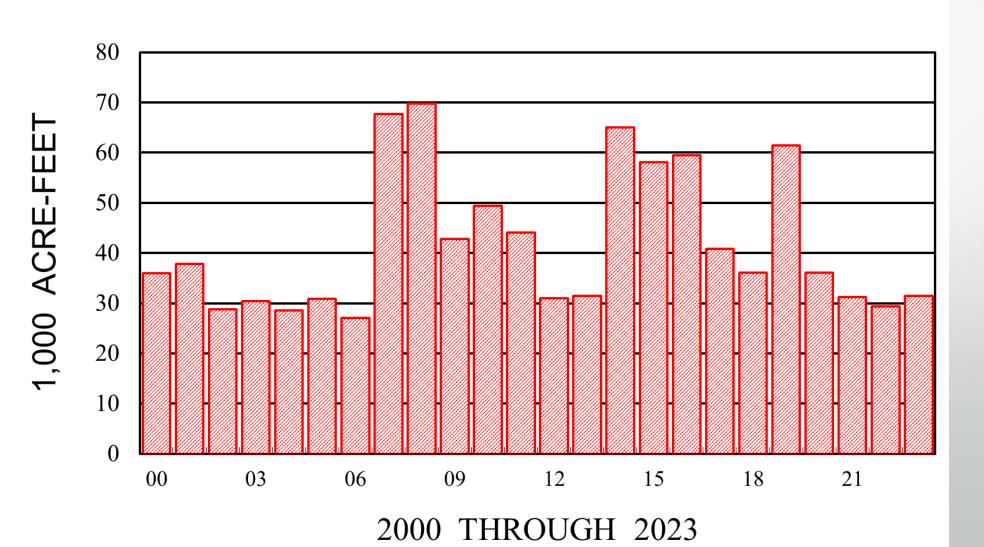
MEDICINE CREEK DAM YEARLY PRECIPITATION





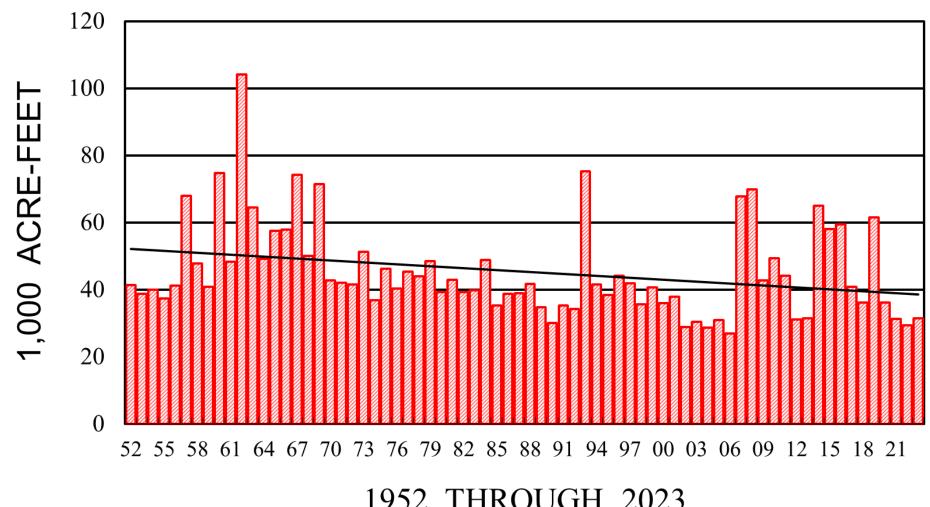


MEDICINE CREEK DAM and HARRY STRUNK LAKE YEARLY HISTORICAL INFLOW





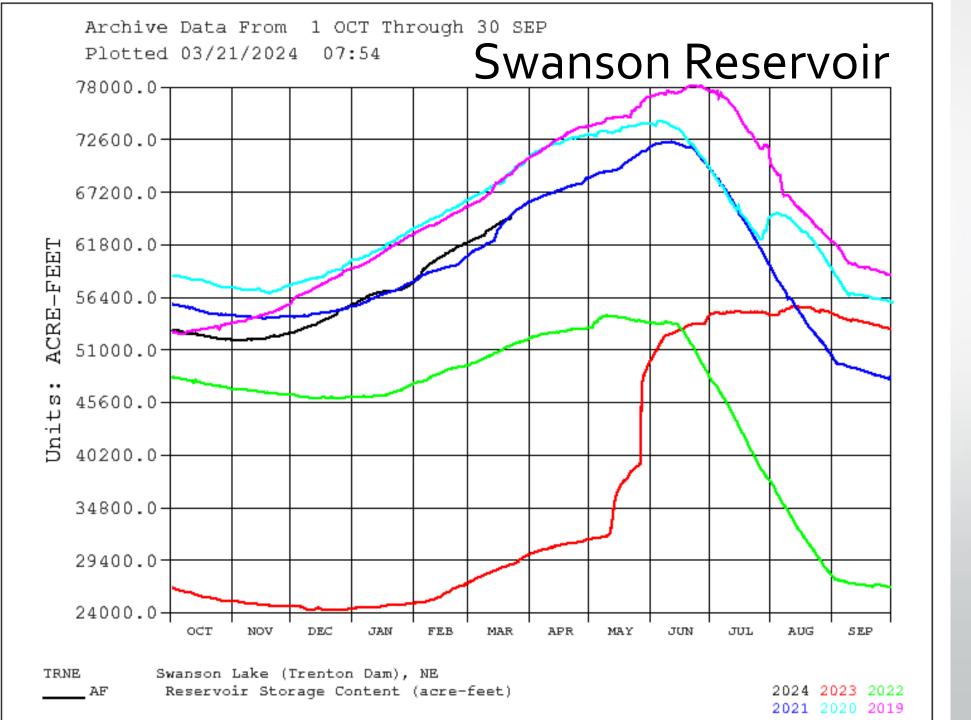
MEDICINE CREEK DAM and HARRY STRUNK LAKE YEARLY HISTORICAL INFLOW



1952 THROUGH 2023

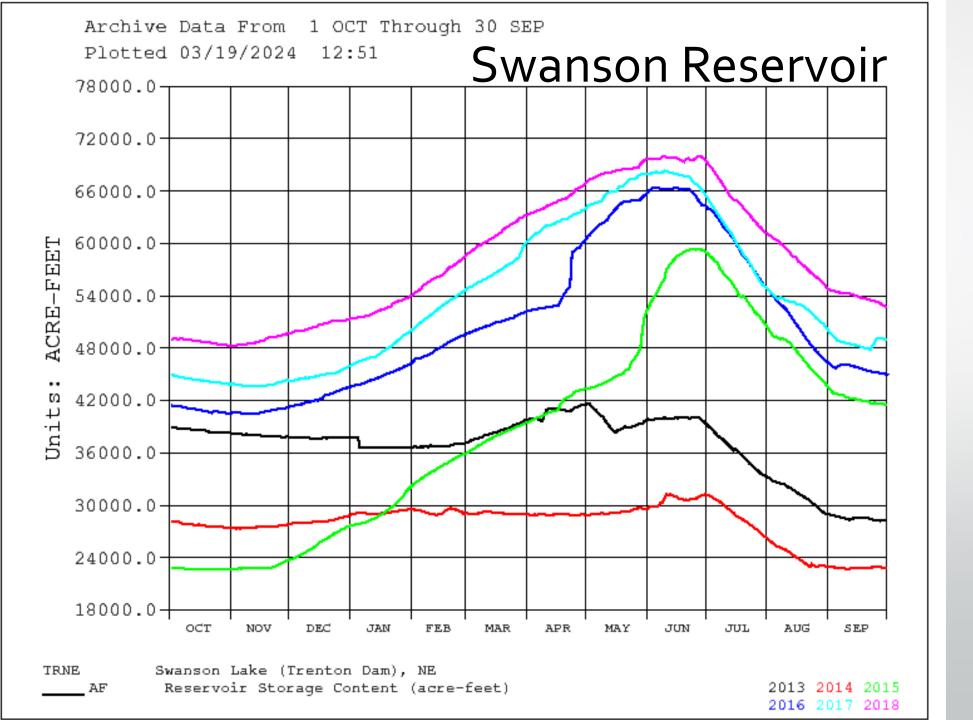
Frenchman Cambridge 2024 Storage Water Supply (To Date)

Reservoir Content / Irrigation Supply							
Reservoirs 2024	Swanson		Hugh Butler		Harry Strunk		Total AF
	Elevation	Acre-Feet	Elevation	Acre-Feet	Elevation	Acre-Feet	AF
Top of Irrigation Pool	2752.00	110,175	2581.80	36,224	2366.10	34,647	181,046
FCID Contracted Shut Off							
Elevation/Content AF	2725.00	18,958	2561.00	11,212	2343.00	7,897	38,067
FCID Contracted Irrigation Pool							
Capacity at 100% Full	27.00	91,217	20.80	25,012	23.10	26,750	142,979
Current Elevation / Content (Acre-							
Feet)	2741.23	64654.00	2567.70	17399	2366.09	<u>34,629</u>	116,682
% of Full Capacity	58.7%		48.0%		99.9%		64.4%
Current 2024 Irrigation Supply	Feet	A.F.	Feet	A.F.	Feet	A.F.	A.F.
(To Date)							
(** = 3.05)	16.23	45,696	6.70	6,187	23.09	26,732	78,615
Thursday, March 21, 2024	<i>16.23</i> % Irr. Pool	45,696 50.1%	6.70 % Irr. Pool	6,187 24.7%	23.09 % Irr. Pool	26,732 99.9%	78,615 55.0%
, ,	% Irr. Pool	,	% Irr. Pool			,	
, ,	% Irr. Pool	50.1%	% Irr. Pool			,	
Thursday, March 21, 2024	% Irr. Pool	50.1% One Year Cl	% Irr. Pool nange	24.7%	% Irr. Pool	99.9%	55.0%



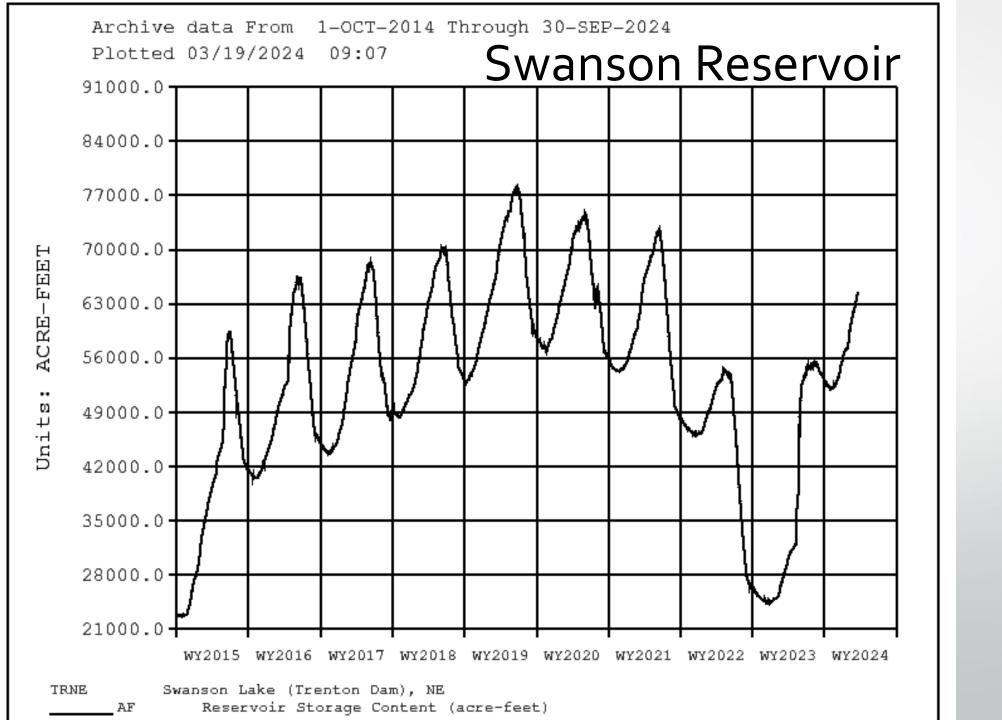


Last filled in 1997! 110,175 Acre-Feet

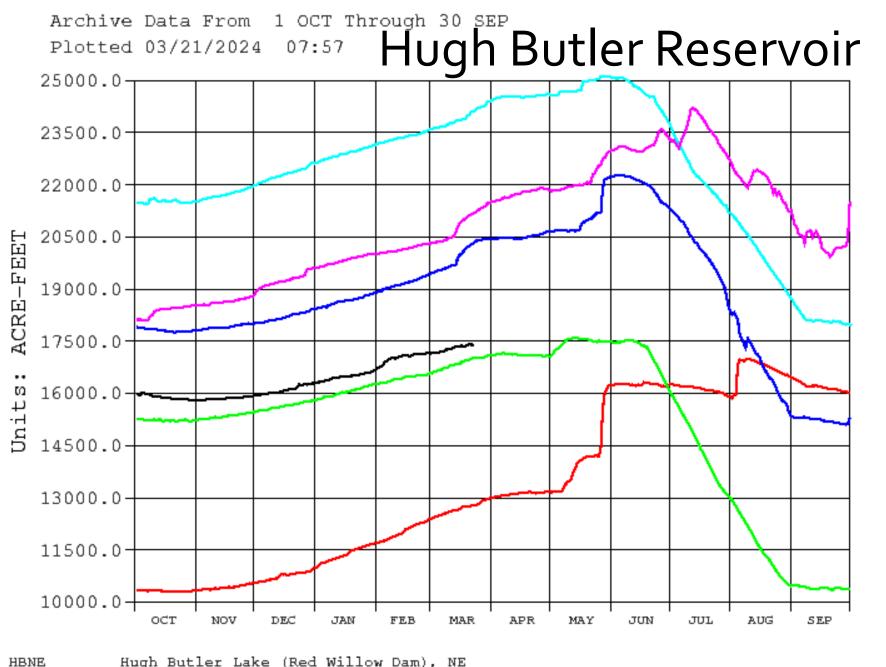




Last filled in 1997! 110,175 Acre-Feet





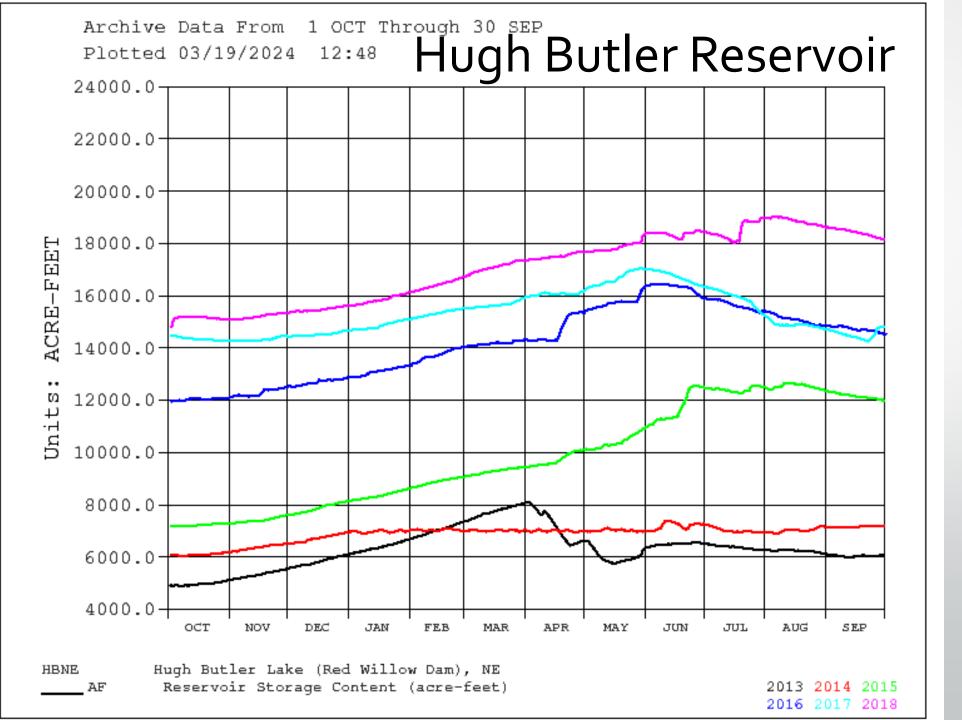




Last filled in 1997! 36,224 Acre-Feet

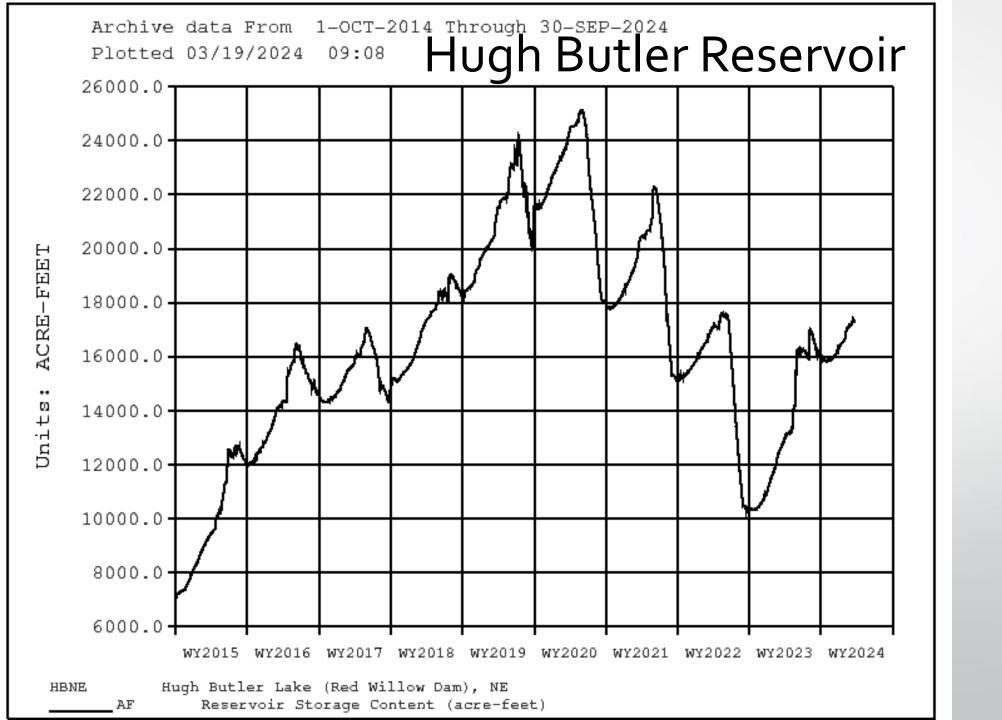
BNE Hugh Butler Lake (Red Willow Dam), NE
___AF Reservoir Storage Content (acre-feet)

2024 2023 2022 2021 2020 2019

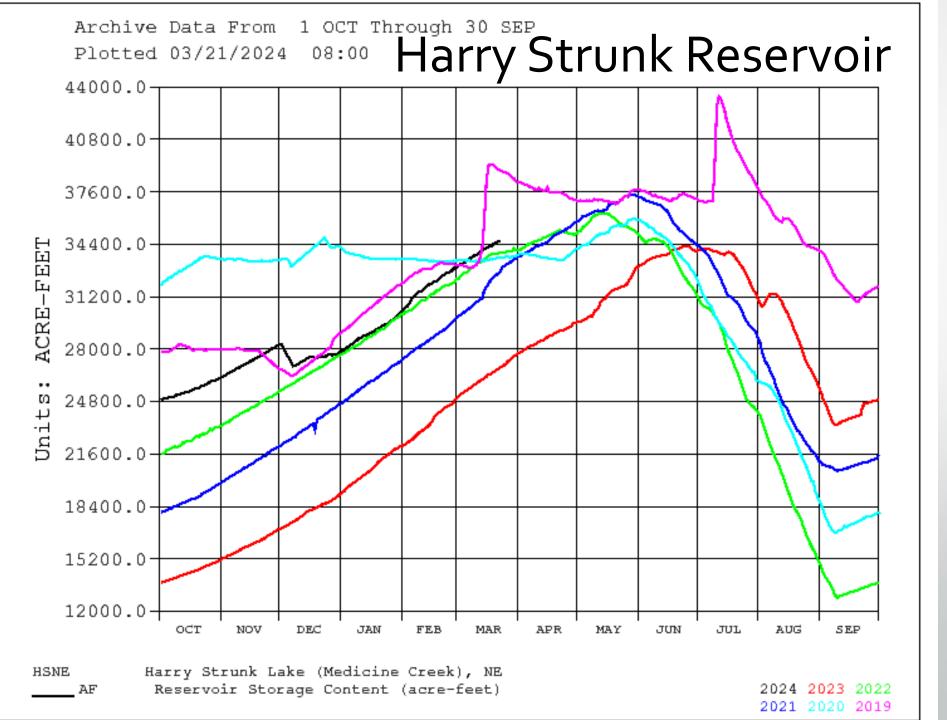




Last filled in 1997! 36,224 Acre-Feet

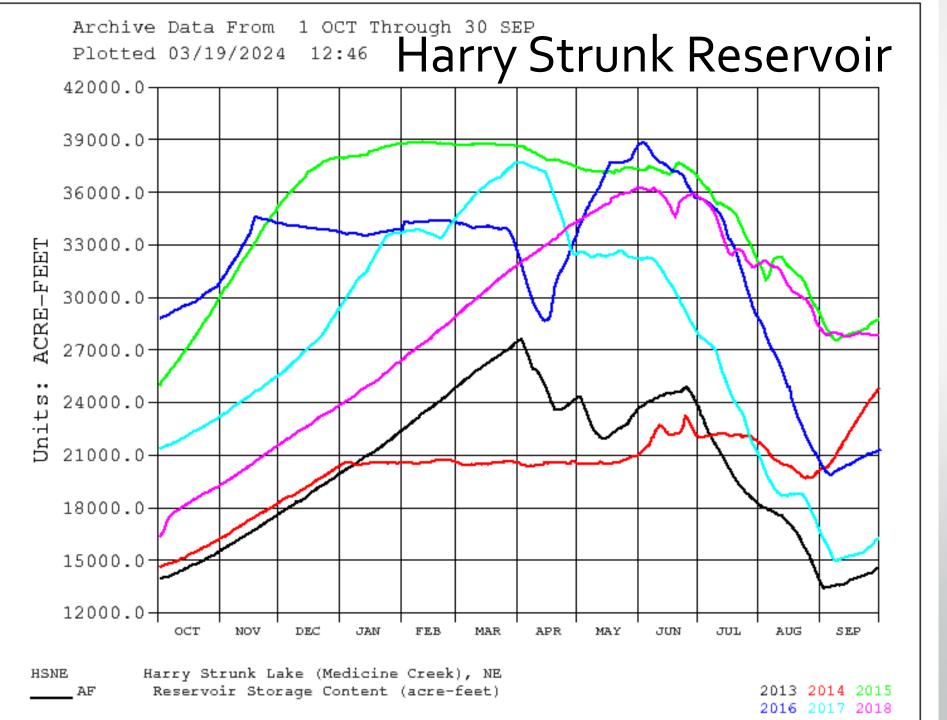






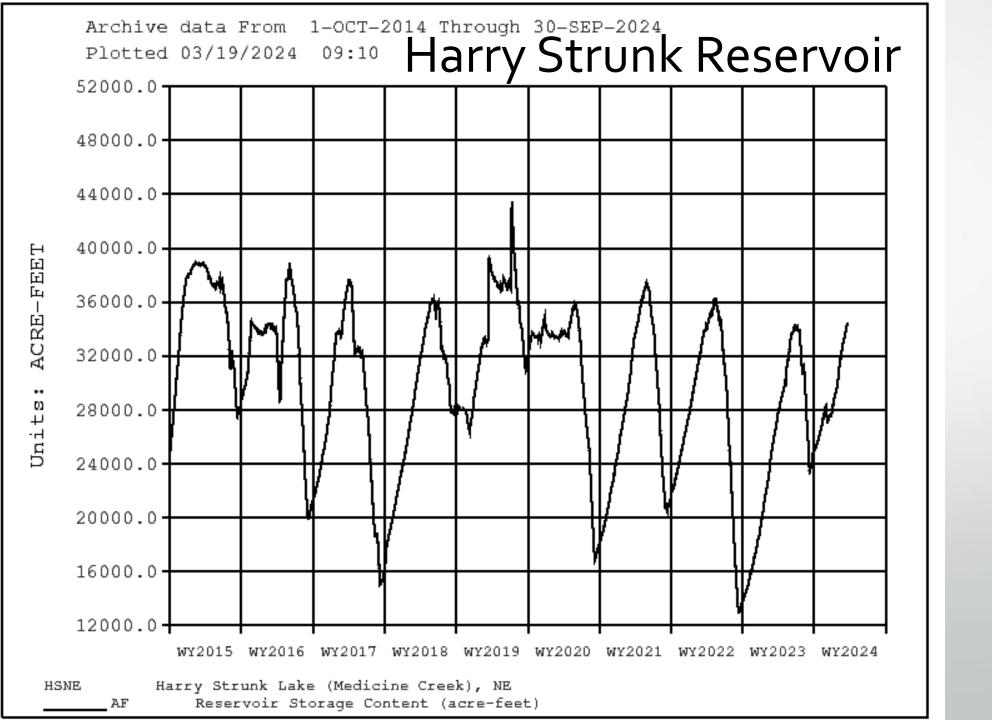


Last filled March 21, 2024 34,647 Acre-Feet

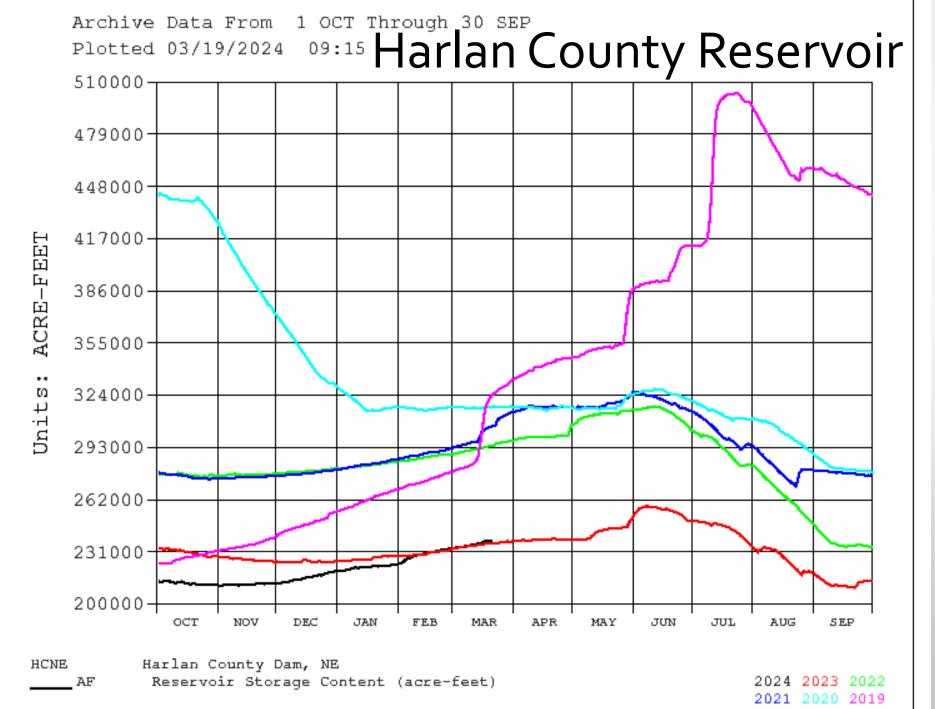




Last filled March 21, 2024 34,647 Acre-Feet

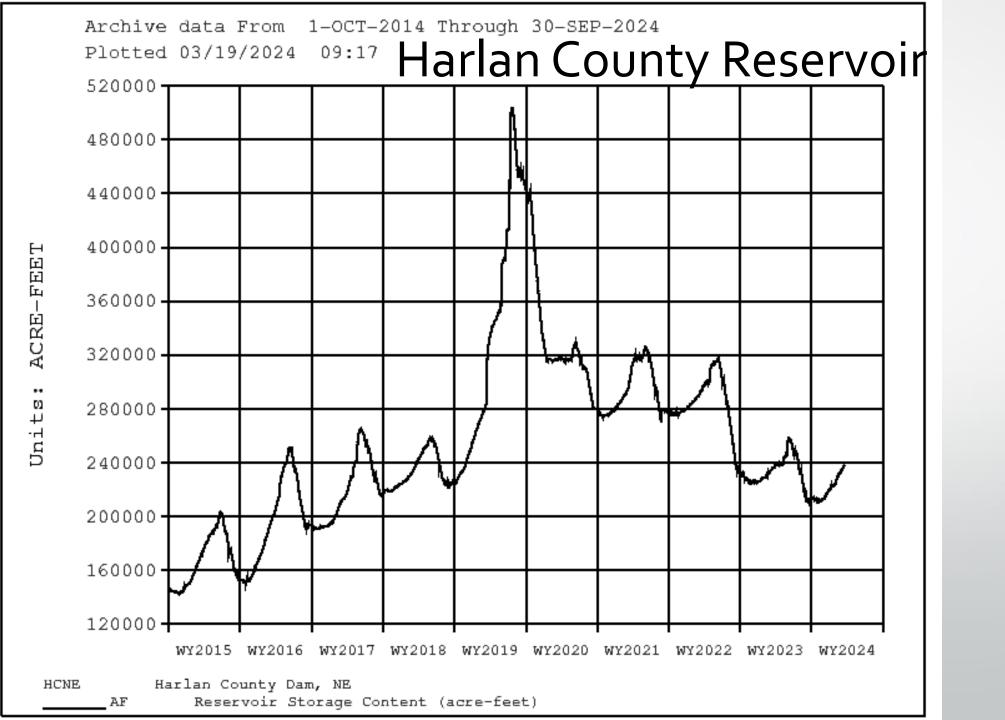






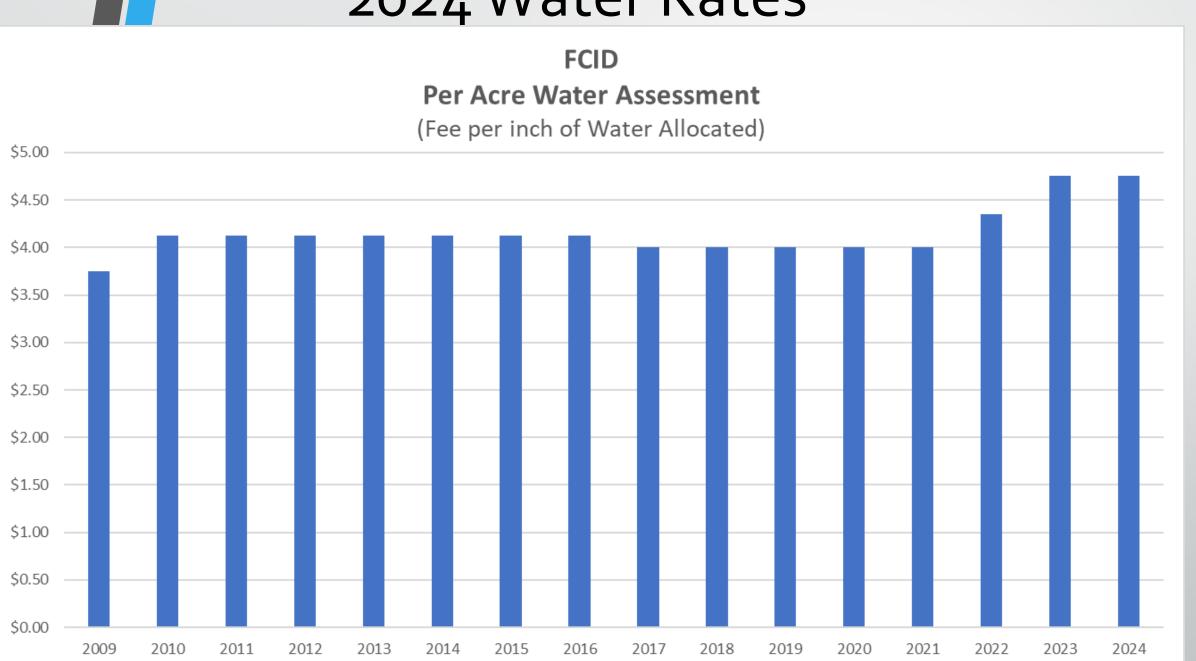


Last filled in 2022! 314,111 Acre-Feet





2024 Water Rates





2024 Water Rates and Allocations Meeker-Driftwood Canal is allocated 7 inches

\$43.25 per acre for 7 inches

(7 inches x \$4.75 = \$33.25 plus \$10.00 per acre = \$43.25)

Reclamation's Forecast = 43,000 Acre-Feet



2024 Water Rates and Allocations Red Willow Canal is allocated 6 inches

\$38.50 per acre for 6 inches

 $(6 \text{ inches } \times \$4.75 = \$28.50 \text{ plus } \$10.00 \text{ per acre} = \$38.50)$

Reclamation's Forecast = 8,400 Acre-Feet

2024 Water Rates and Allocations

Bartley Canal is allocated 6 inches

\$38.50 per acre for 6 inches

(6 inches x \$4.75 = \$28.50 plus \$10.00 per acre = \$38.50)

Reclamation's Forecast = 8,400 Acre-Feet Hugh Butler Res.

Reclamation's Forecast = 43,000 Acre-Feet Swanson Res.

(Note: Frenchman Valley Irr. District will not operate in 2024)

River Water should be available early at \$57.00 per Acre-Foot



2024 Water Rates and Allocations

Cambridge Canal is allocated 8 inches

\$48.00 per acre for 8 inches

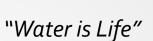
 $(8 \text{ inches } \times \$4.75 = \$38.00 \text{ plus } \$10.00 \text{ per acre} = \$48.00)$

Reclamation's Forecast = 30,300 Acre-Feet

Cambridge Canal 8 inches per acre.

River Water Should be available at \$57.00 per acre-foot

FCID's Finances





CD = \$175,670.42 Federal Obligated Savings = \$448,650.64 Money Market Account = \$87,806.79 Checking = \$54,512.11

2024 Budget

"Water is Life"



2024 Adopted Budget

\$2,028,821

2023 Projected Expenses
Budget Shortfall

\$2,028,821

\$0.00

Water Conservation

"Water is Life"

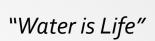


Grants:

Year	Project	Nebraska	Reclamation	FCID	Total	Grant Type
2011	Bartley Pump Station		\$754,000	\$824,173	\$1,578,173	WaterSMART
2012	Cambridge Canal Automation		\$299,700	\$332,300	\$632,000	WaterSMART
2012	Pump Station Automation		\$94,900	\$96,400	\$191,300	Area Office
2017	Cambridge Canal TCC (Phase I)	\$915,500		\$610,400	\$1,525,900	WSF
2019	Cambridge Canal TCC (Phase II)	\$528,600		\$352,470	\$881,070	WSF
2020	Meeker-Driftwood Canal TCC	\$2,000,000	\$1,500,000	\$486,446	\$3,986,446	WaterSMART

Totals \$3,444,100 \$2,648,600 \$2,702,189 \$8,794,889

Rubicon Water



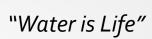


Total Channel Control (TCC) was implemented on the entire length of the Cambridge Canal in 2019.

And the Meeker-Driftwood Canal in 2022

This solution has eliminated nearly all operational spills on the both Canals.

Rubicon Water



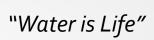


SCADA Connect software is used from the office.

A radio network enables inter-communication between the Flumegates.

All components work together, automatically controlling gates according to a canal-wide objective of matching supply with demand.

Rubicon Water





We have also been working with Rubicon Water on implementing "water ordering software"

This would allow water orders to be made using your smart phone or computer.

This Software will work for all the Canals. Let us know if your interested in this software option.



Welcome to FCID

The Frenchman Cambridge Irrigation District is a political subdivision of the State of Nebraska organized under irrigation district laws of Nebraska on April 18, 1946. (Statutes 46-101 to 46-128) Frenchman Cambridge was created to enable the people of southwest Nebraska to develop the State's irrigation potential. Frenchman Cambridge delivers natural flow irrigation water to more than 45,600 acres in southwest Nebraska using four different canal systems; the District hold 41 direct flow permits with priority dates ranging from December 22, 1890 to November 13, 1987, and can legally divert 531.5 cubic feet per second of natural flow. Frenchman Cambridge is the 8th largest Irrigation District in Nebraska based on acres served.

FCID's 2024 Water Supply:

Updated November 29, 2023

Cambridge Canal will have an 8 inch per acre allocation in 2024.

Meeker-Driftwood Canal will have a 7 inch per acre allocation in 2024

FCID Newsletter 2021

FCID Newsletter 2020

FCID Newsletter 2019

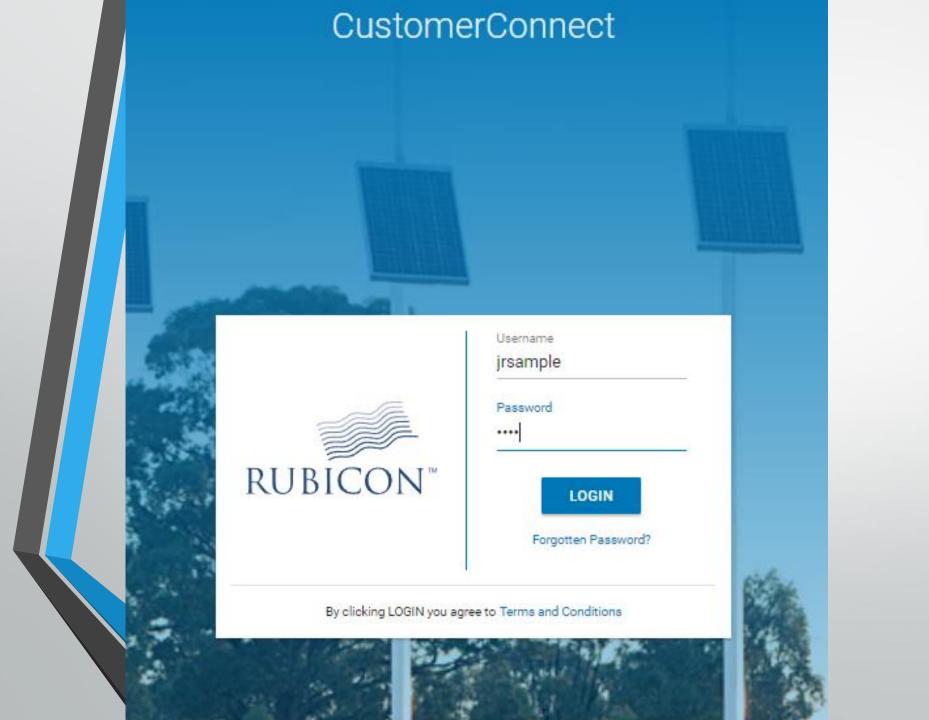
Canal Automation by Rubicon Water

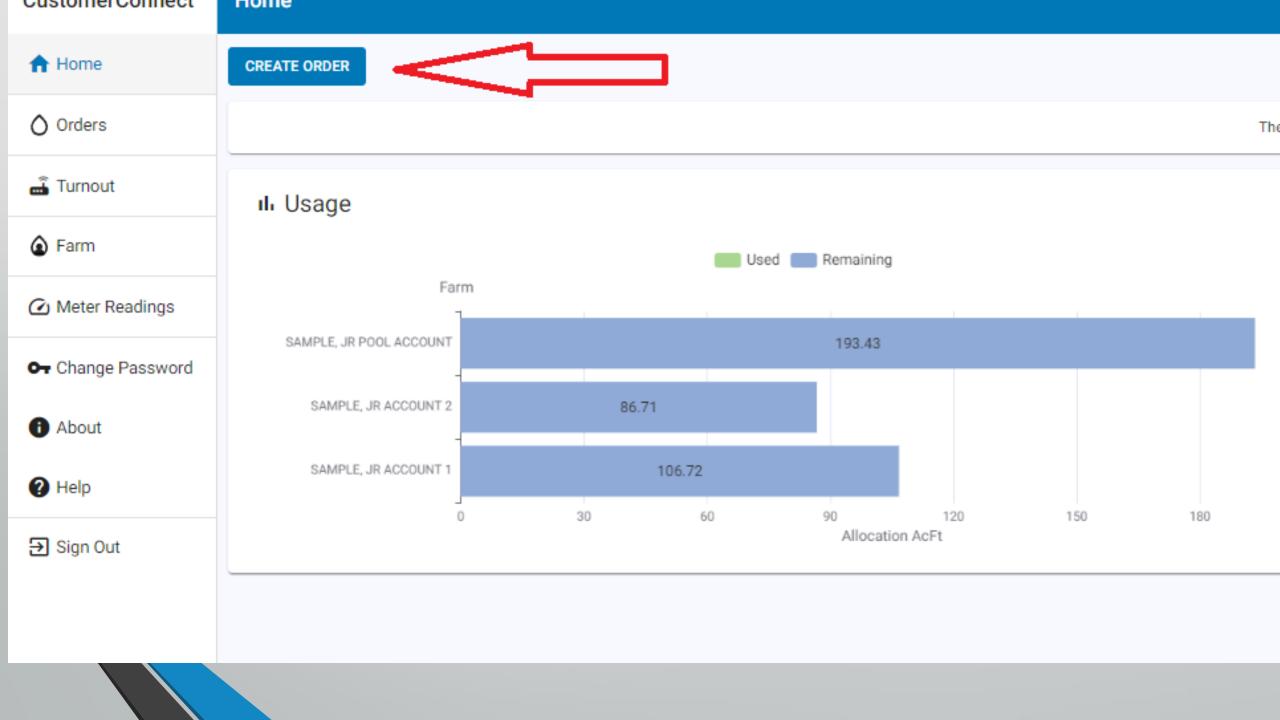
Site Connect

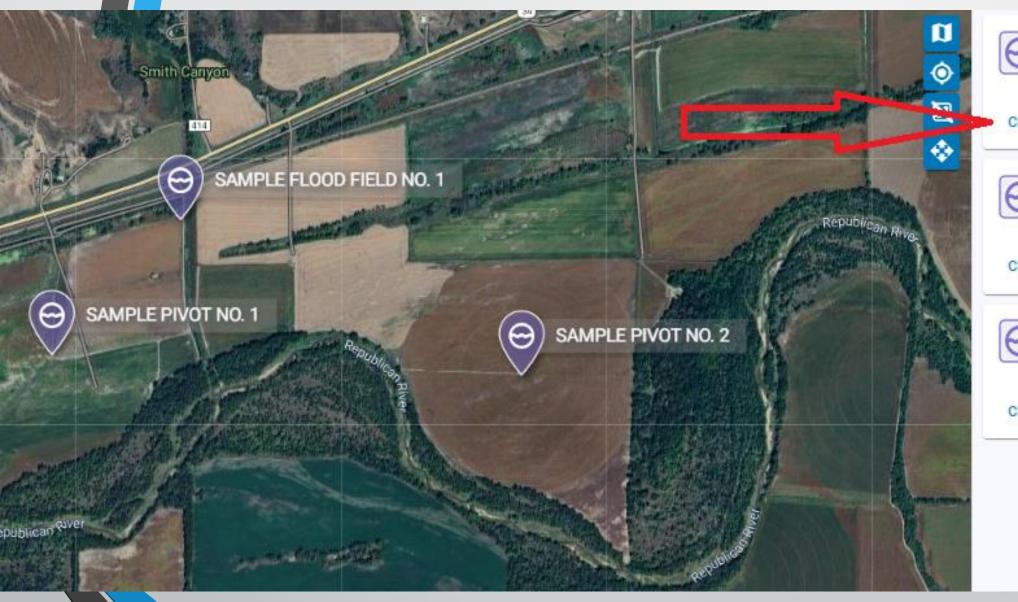
Web Ordering: by Rubicon

Customer Connect

FCID Customers now have the option to order water and check your water account balance on-line.
Contact the Cambridge office to get signed up.









SAMPLE FLOOD F...

Large Service Point

CREATE ORDER



SAMPLE PIVOT N...

Large Service Point

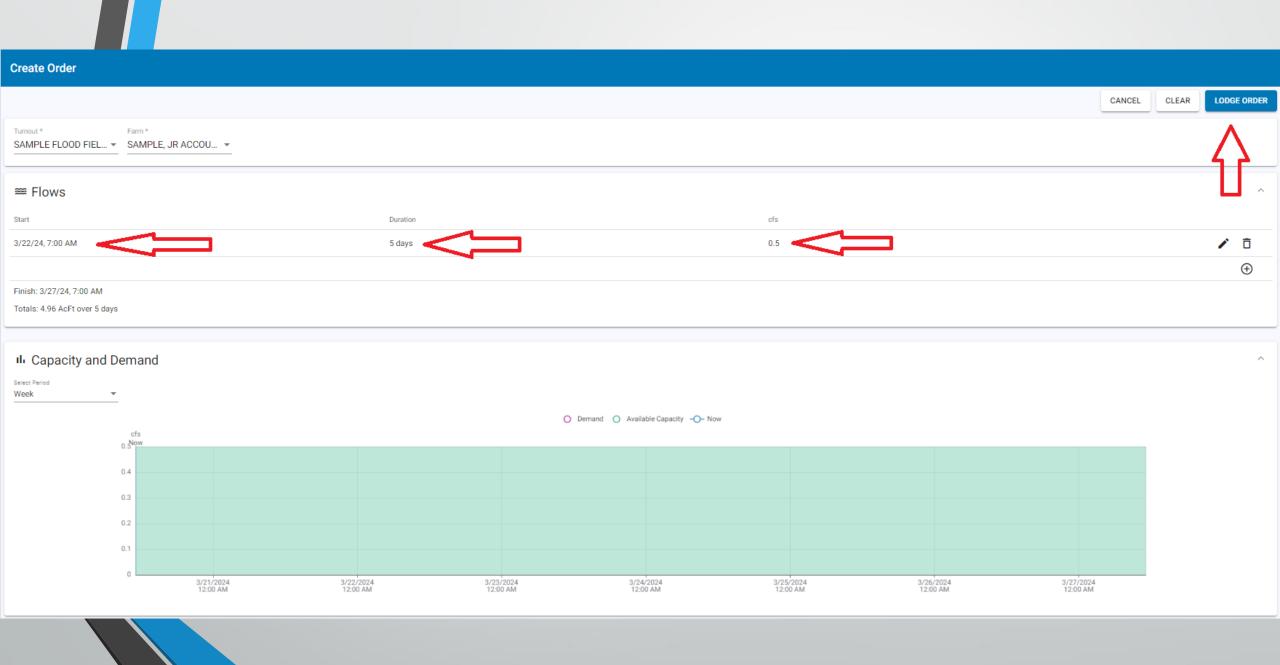
CREATE ORDER



SAMPLE PIVOT N...

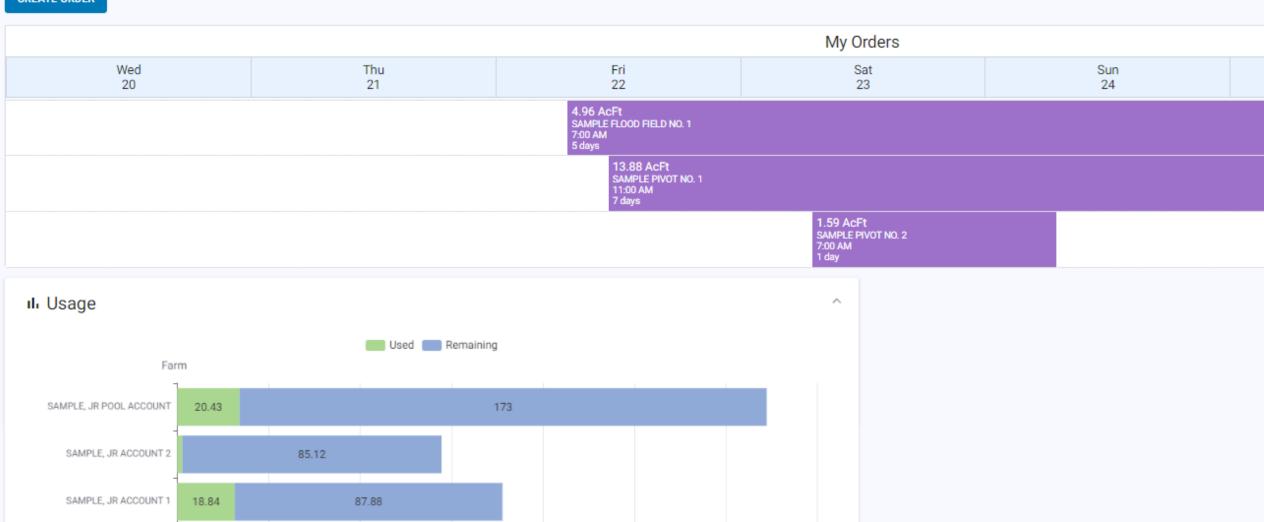
Large Service Point

CREATE ORDER



Home

CREATE ORDER



Allocation AcFt

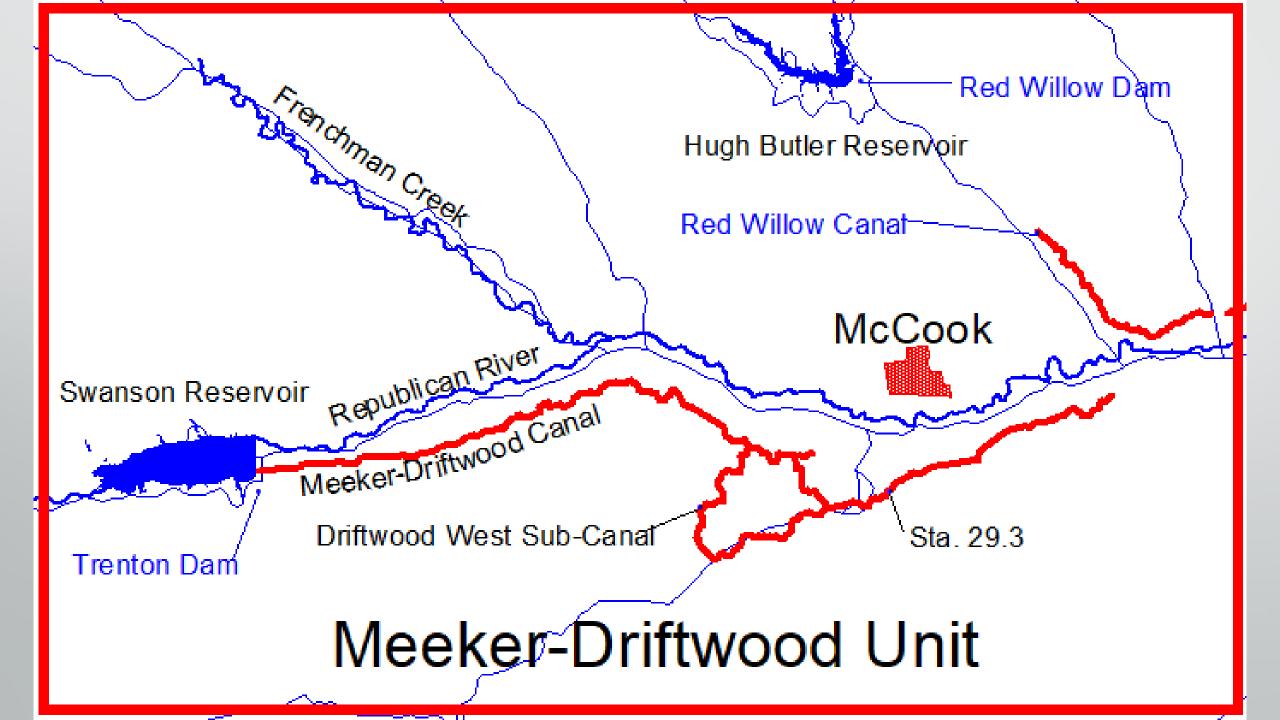






















TCC Benefits

- Eliminates Unwanted Canal Spills
- Water orders 7 days a week
- Short notice water order changes
 - REA Peak Power Controls and Rain events
- On-line water orders and water balances

RRA Forms



"Water is Life"

Reclamation Reform Act of 1982

Everyone that farms or own 240 acres under a Federal Project must comply with the RRA laws.

Complete all required forms each year and file with the Irrigation District.

Must notify the District within 60 days after a change in ownership.

No one can irrigate over 960 acres

