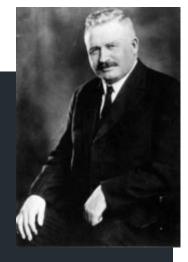


WESTERN DAKOTA REGIONAL WATER SYSTEM

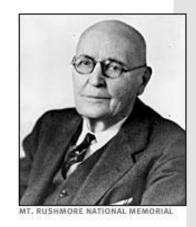
Exploring the Possibility of Bringing More Water to All Corners of Western South Dakota



Norbeck

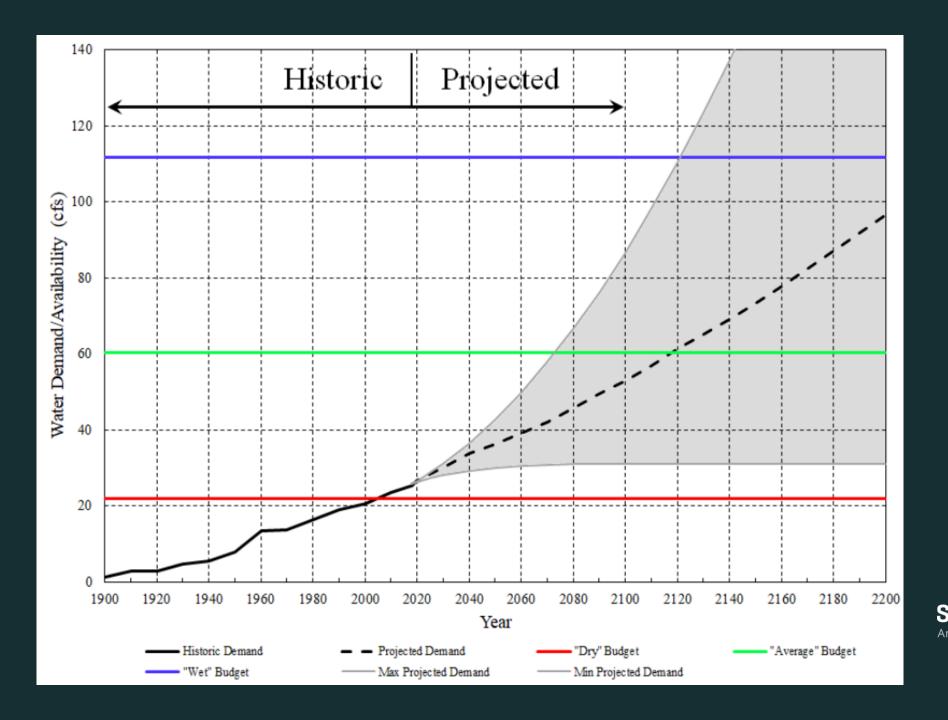
## STATE-WIDE COMMIT MENT

- 1918—Constitutional Amendment allowing the State of South Dakota to purchase, own, develop and operate plants for the development of power
  - Upon streams of the state
  - At coal mines upon lands owned by the state
- 1919—Legislation creating the Hydro-Electric Commission
  - Governor Peter Norbeck, Chair
  - Doane Robinson, Secretary
- 1921—Formation of the South Dakota Hydro Club
  - Doane Robinson, J.W. Parmley of Ipswich, William Potts and Julius Skaug of Mobridge
- 1922—Initiated measure for on \$16 million dam
  - Proponents—the South Dakota Hydro Club—"the Missouri can be made a great asset. Now it is a menace."
  - Opponents—the South Dakota Tax Payer League—"funding the hydroelectric project would be like dumping South Dakotans' money in the river."
  - Defeated by a 2:1 margin



Robinson







### Cost Estimates





#### 3-foot Diameter Waterline

Capacity: 10,000 ac-ft/year

•	Intake	Pump	Station	\$7.5M
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• Pipe (36") \$340/ft

• Booster Pumps \$5.9M

• Eng, legal, permits 25%

• Contingency 35%

TOTAL \$555M

#### 6-foot Diameter Waterline

Capacity: 76,000 ac-ft/year

• Intake Pump Station \$45.5M

• Pipe (72") \$850/ft

• Booster Pumps \$39.8M

• Eng, legal, permits 25%

Contingency 25%

TOTAL \$1,870M

## PROGRESS TO DATE

- Dec 2019
  - West Dakota Water
     Development District
     (WDWDD) receives South
     Dakota Mines Report
- Mar 2020
  - WDWDD asks Banner to start West River discussion to gauge interest
    - Calls
    - Zoom Info Session
- Dec 2020
  - WDWDD receives report to proceed with governance, more technical evaluation, and seek funding

- Jan 2021
  - WDWDD asks Banner to start Water Use Study
  - Convene a new non-profit
- Sep 2021
  - Western Dakota Regional Water Alliance Non-Profit is formed
- Oct 2021
  - Water Use Study completed
- Nov 2021
  - State Water Plan
  - Drinking Water SRF
- Dec 2021
  - Water Summit
  - First Annual Membership Meeting
  - Interview potential engineering firms

# WESTERN DAKOTA REGIONAL WATER SYSTEM

Attorney Talbot Wieczorek
Gunderson Palmer

#### **PARTICIPANTS**

- West Dakota Water Development District
- West River Water Development District
- City of New Underwood
- West River/Lyman Jones Rural Water
- City of Spearfish
- Butte-Meade Sanitary Water District
- Pennington County
- City of Box Elder
- City of Rapid City
- City of Hill City
- Mni Wiconi Rural Water
- Oglala Sioux Rural Water
- Butte-Meade Rural Water
- Rapid Valley Sanitary District



Thank you, Elevate!

Space at Old Ascent

Thank you, South Dakota Mines!

Foundation as Fiscal Agent and Faculty Support

Thank you,
South Dakota Community
Foundation!

Community Innovation Grant Application

THANK YOU FOR YOUR TIME CHERYL CHAPMAN, PhD, PE CKCHAPMAN@OUTLOOK.COM 605-484-0334

QUESTIONS?

