



# Water Rights Program

Garland Erbele, PE  
Chief Engineer

# Water Rights Program

- Administrative
  - Permitting, Licensing, Irrigation questionnaire
- Engineering
  - Safety of Dams, Ordinary high water marks
- Ground water
  - Ground water monitoring network, Driller licensing
- Surface water
  - Stream gauging network, Flood Control permits

# You need a Water Right for....

- Irrigation;
- Municipal Use;
- Industrial Use;
- Commercial Use;
- Rural Water System;
- Suburban Housing;
- Recreation, Fish and Wildlife; and
- Institutional water uses

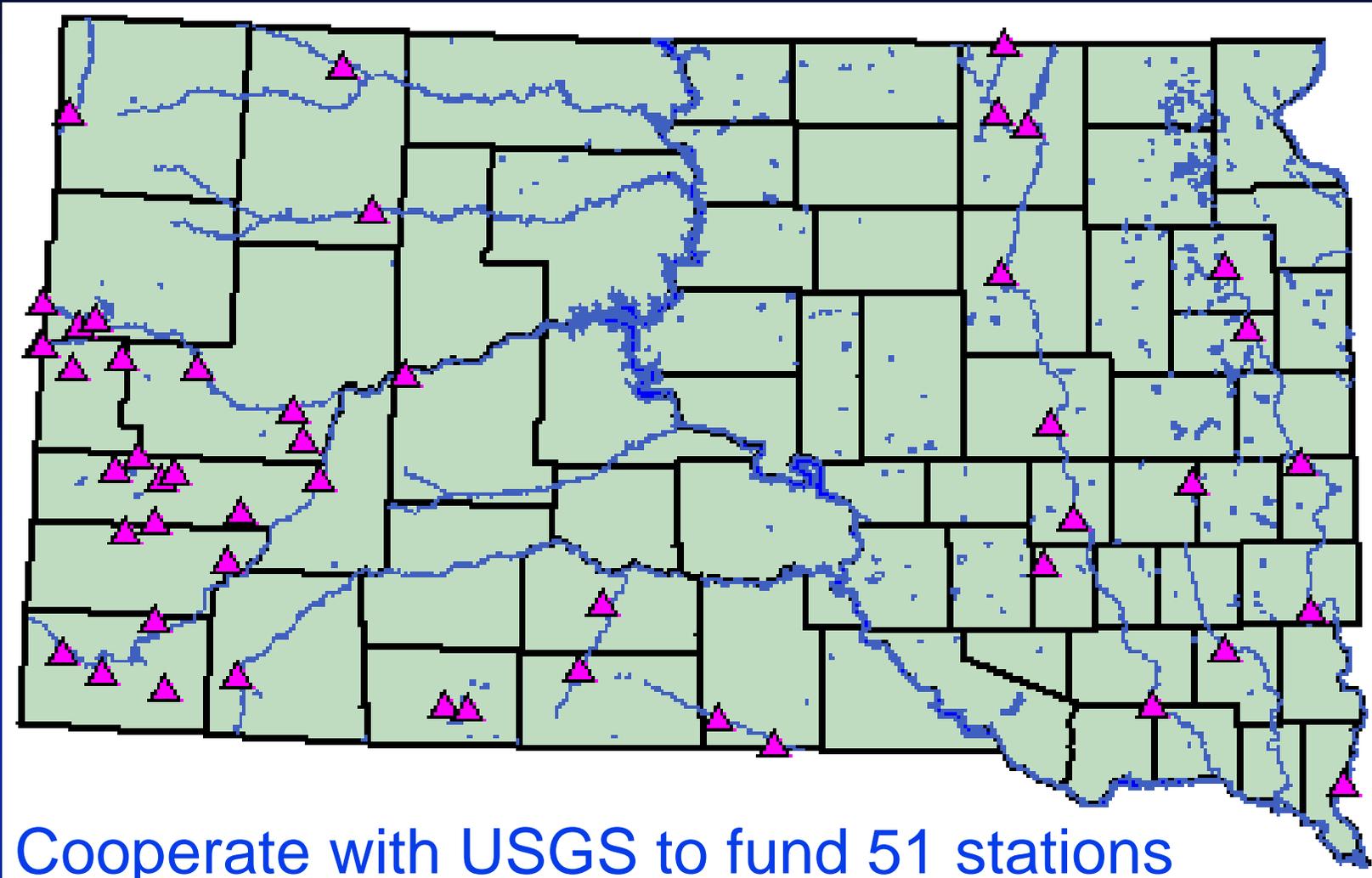


# Criteria to approve application:

- Unappropriated water available for use
- No unlawful impairment of existing rights
- Beneficial use of water
- In the public interest

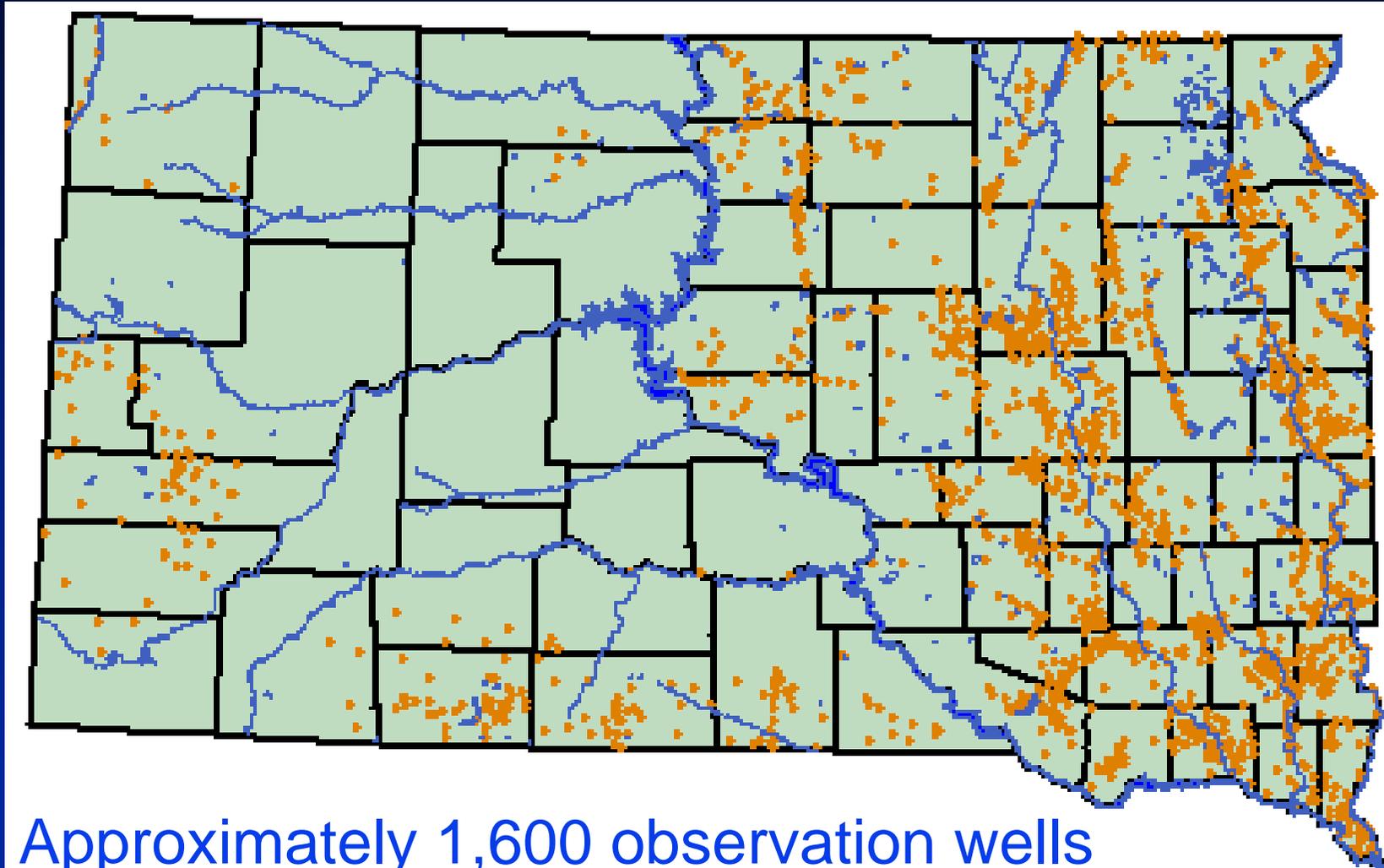


# South Dakota Stream Gauging Network



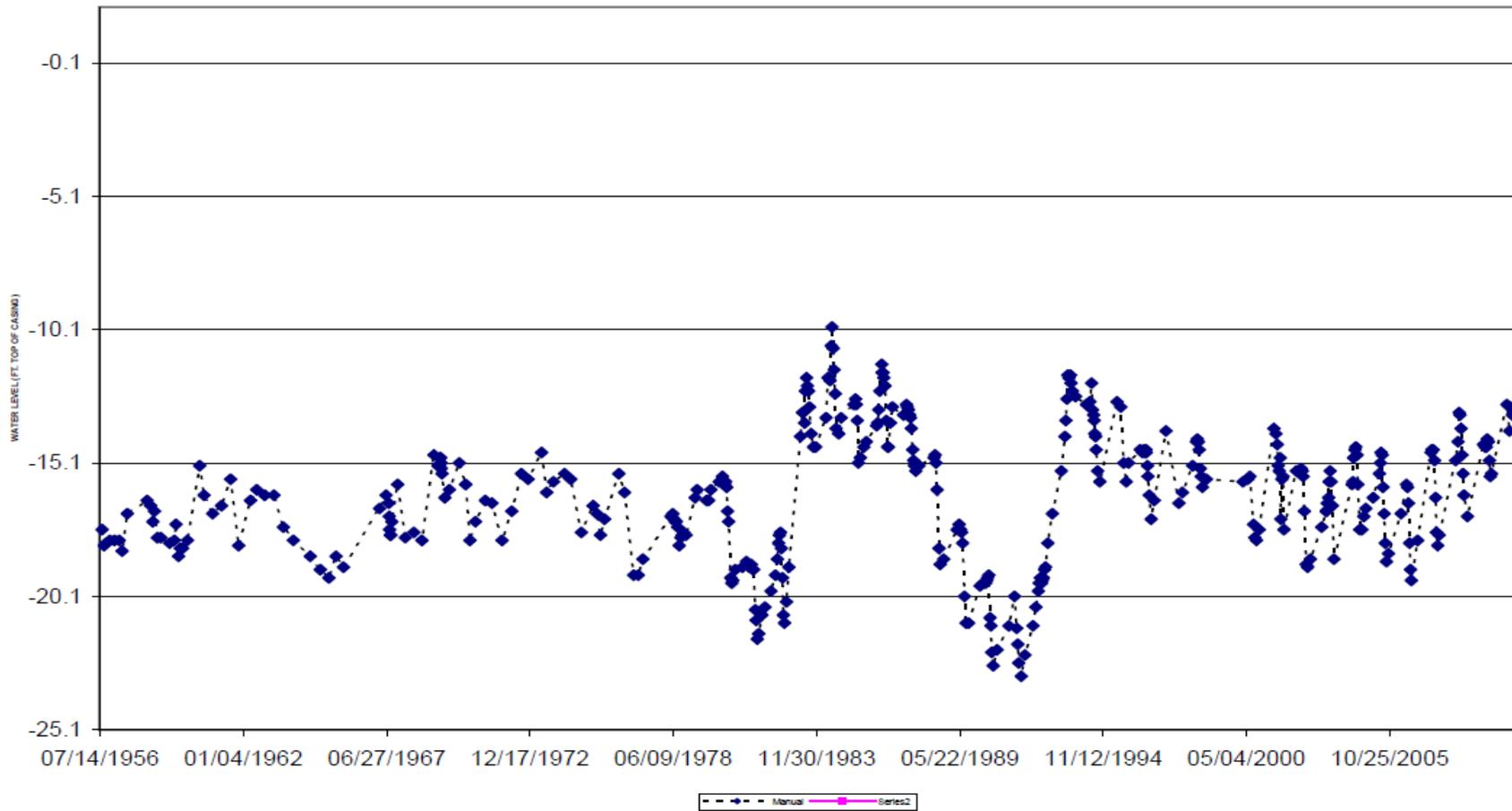
Cooperate with USGS to fund 51 stations

# South Dakota Observation Well Network



Approximately 1,600 observation wells

# WATER RIGHTS' OBSERVATION WELL TU-56H



# Water Management Board

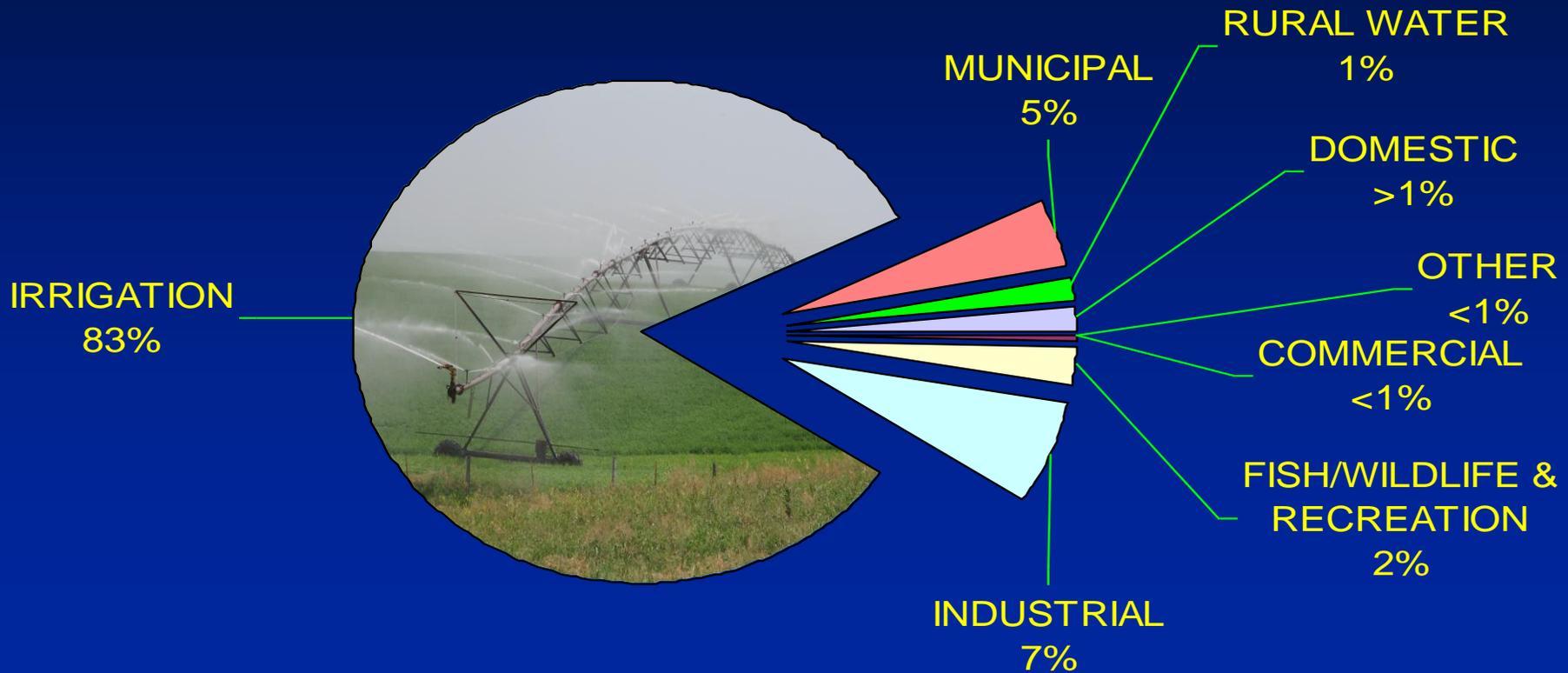
- Seven member citizen's board appointed by Governor
- Members represent various interests:
  - Public at large
  - Licensed well driller
  - Municipal government
  - Irrigation water use
  - Domestic water use
  - Industrial water use
  - Fish and Wildlife use

# Total Permits in South Dakota

- 4,483 Irrigation
- 588 Commercial
- 143 Industrial
- 621 Municipal
- 24 Geothermal
- 124 Rural Water
- 116 Livestock Confinement
- 329 Fish/Wildlife
- 223 Suburb Housing
- 97,195 Location Notices

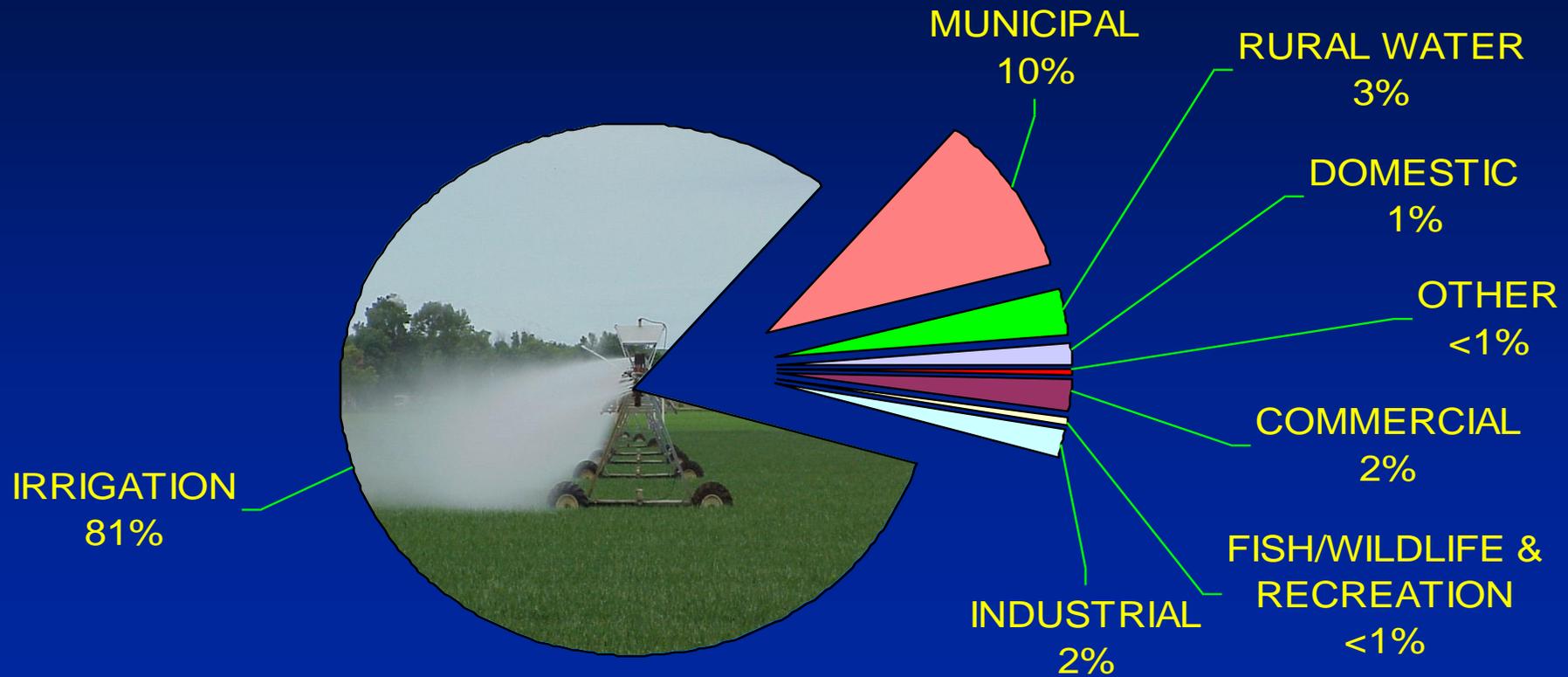
# Surface Water Appropriations by Type of Use in South Dakota

(based on cubic feet of water per second)



# Ground Water Appropriations by Type of Use in South Dakota

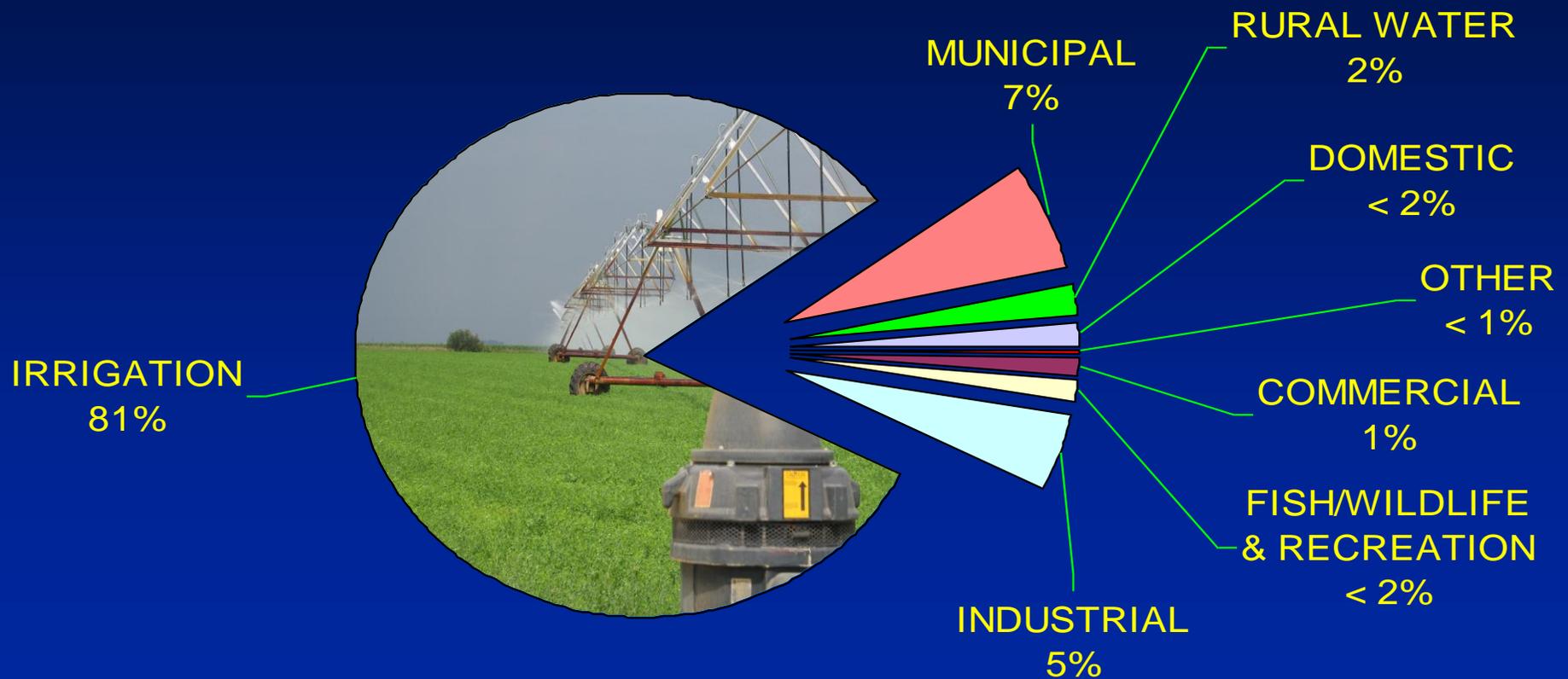
(based on cubic feet of water per second)



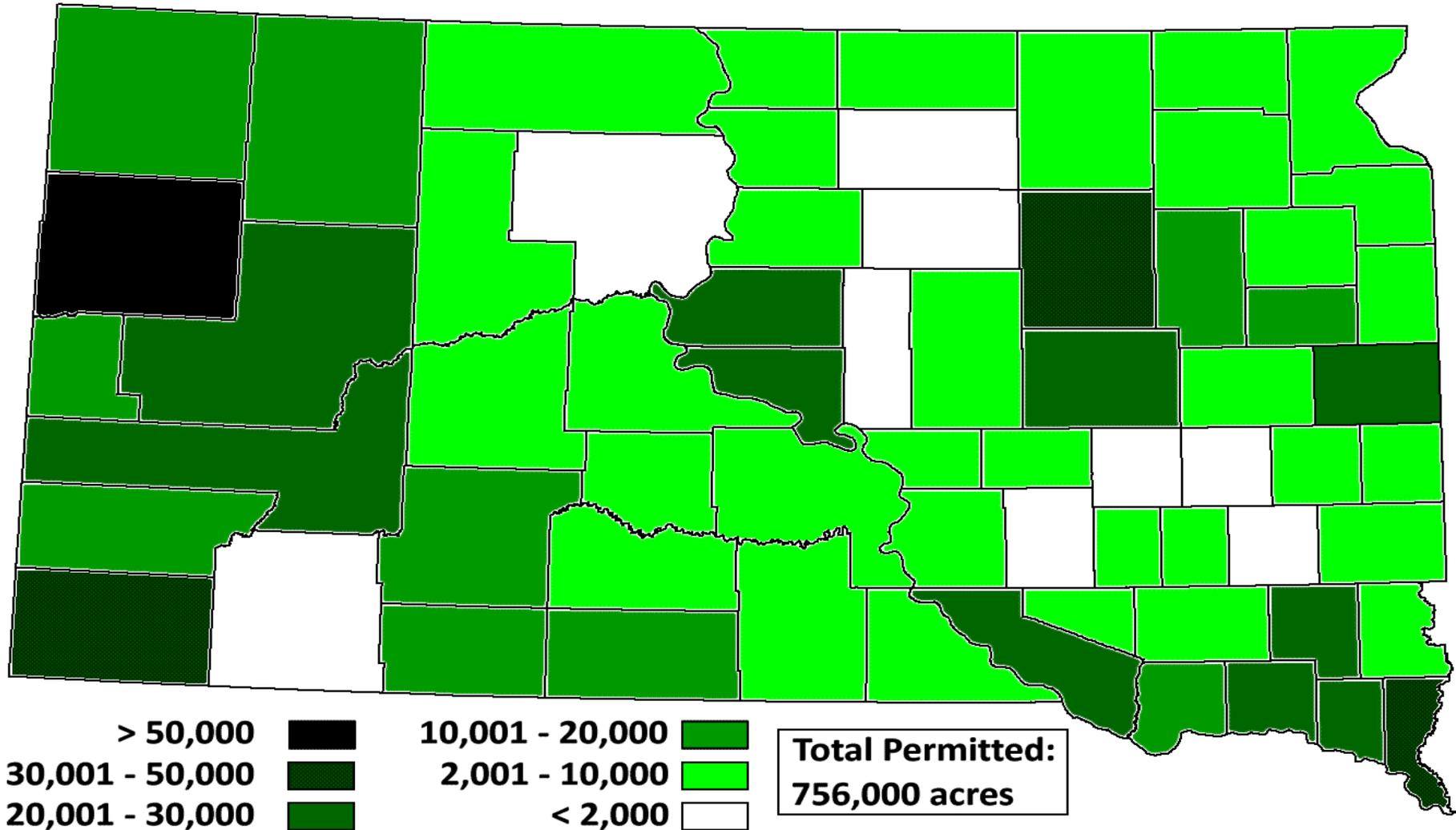


# Water Appropriations by Type of Use in South Dakota

(based on cubic feet of water per second)

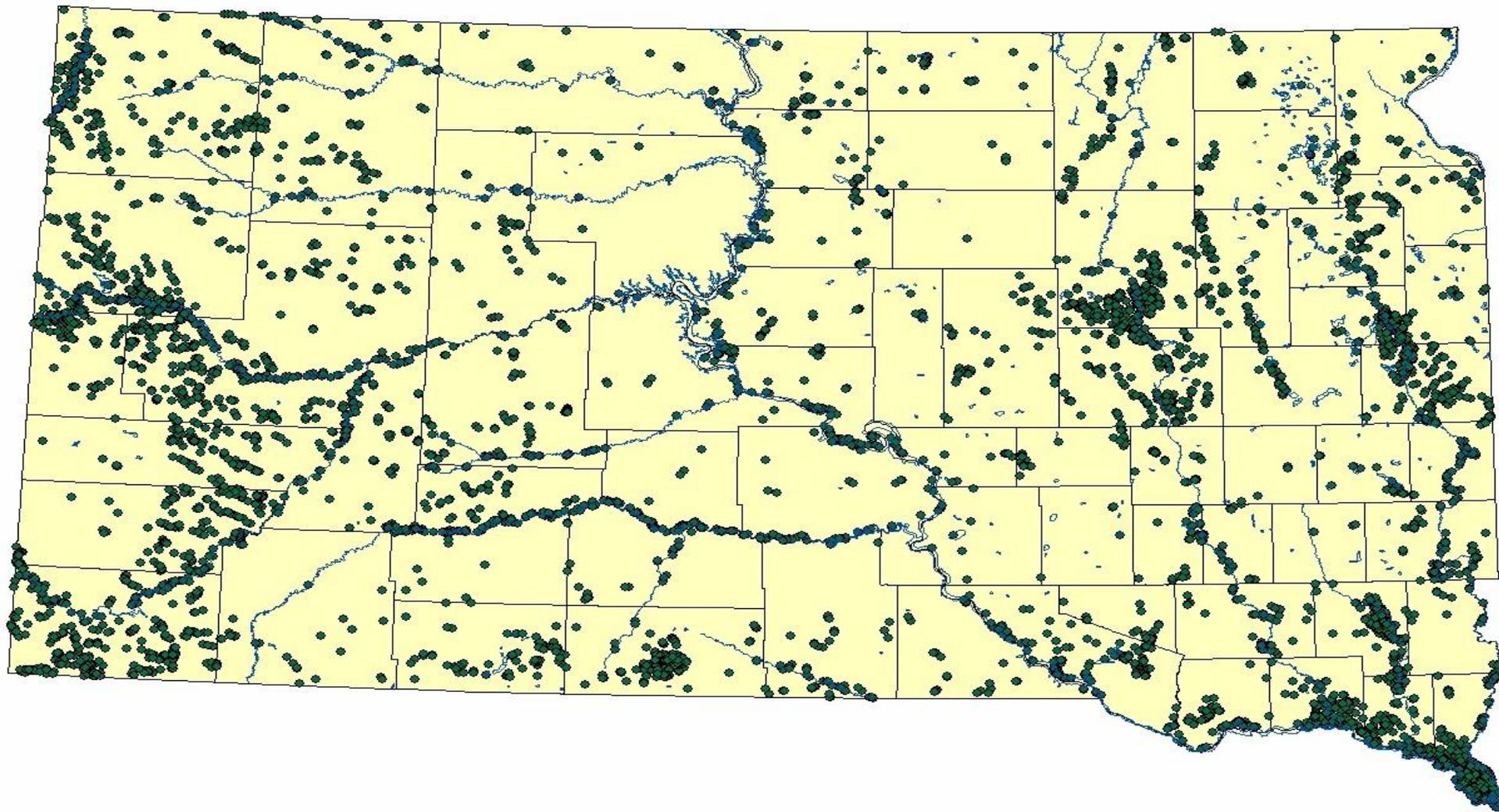


# Irrigation in South Dakota



# Irrigation Diversion Points in South Dakota

- All Water Sources -



# Safety of Dams

- Review and approve P&S for new dam construction- 25 ft high or 50 acre ft
- Inspect all high hazard and all state owned dams- 215 dams- once every 3 years



# Lakes

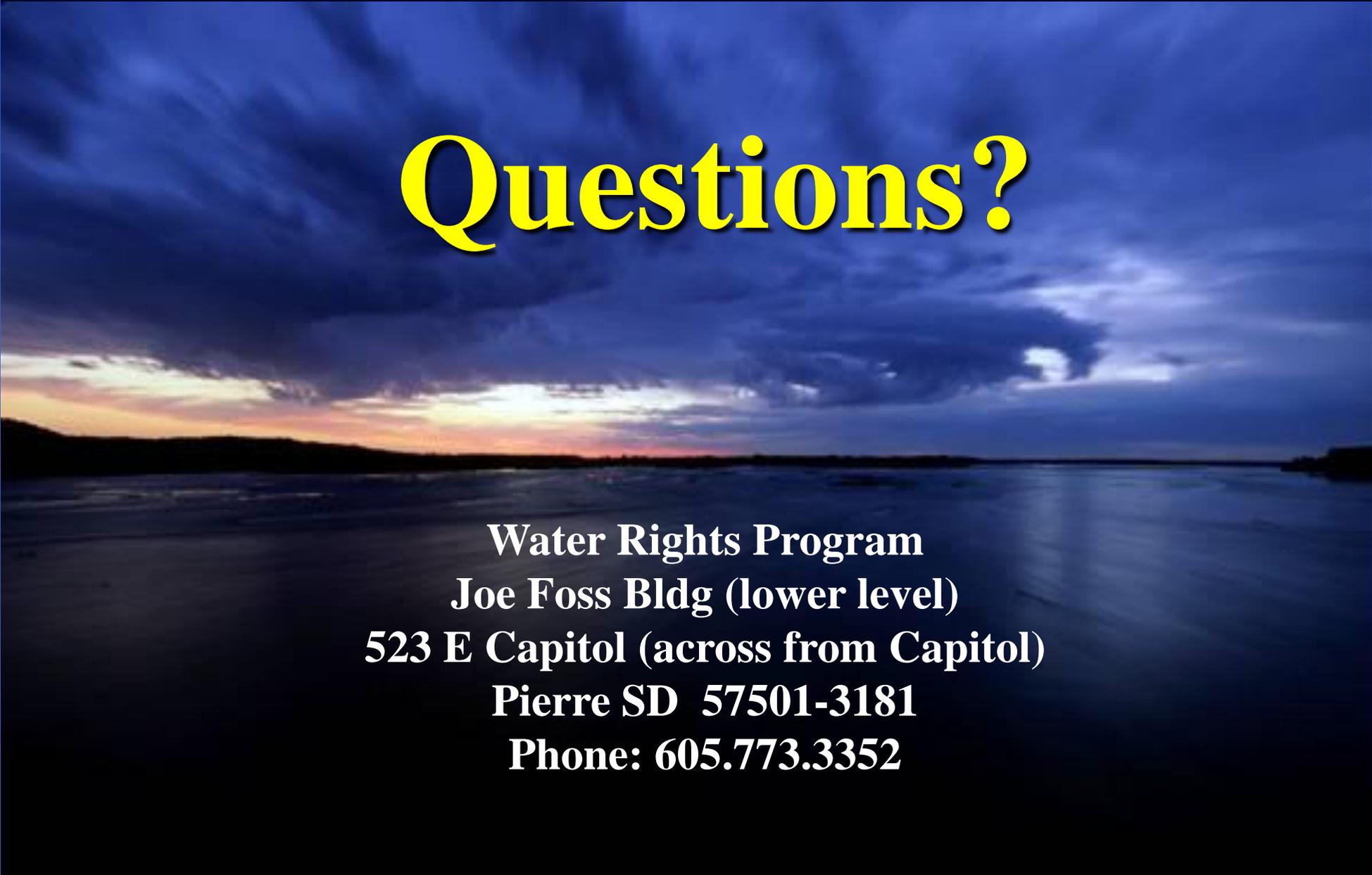
- Establish outlet and Ordinary High Water Marks
- Assist local governments with flooding issues
- Measure elevations on 146 lakes- spring and fall



# Well Drillers and Well Pump Installers

- License well drillers annually-162
- License well pump installers- 35
- Maintain data base of 66,000 well logs





# Questions?

**Water Rights Program  
Joe Foss Bldg (lower level)  
523 E Capitol (across from Capitol)  
Pierre SD 57501-3181  
Phone: 605.773.3352**



# Mining of Groundwater Prohibited

**SDCL 46-6-3.1 No application to appropriated groundwater may be approved if it is probable that the quantity of water withdrawn annually from a groundwater source will exceed the quantity of the average estimated annual recharge of water to the groundwater source**