Partnerships for Success
Drinking Water Protection

Ryan Chapman   Nebraska Department of Environment & Energy

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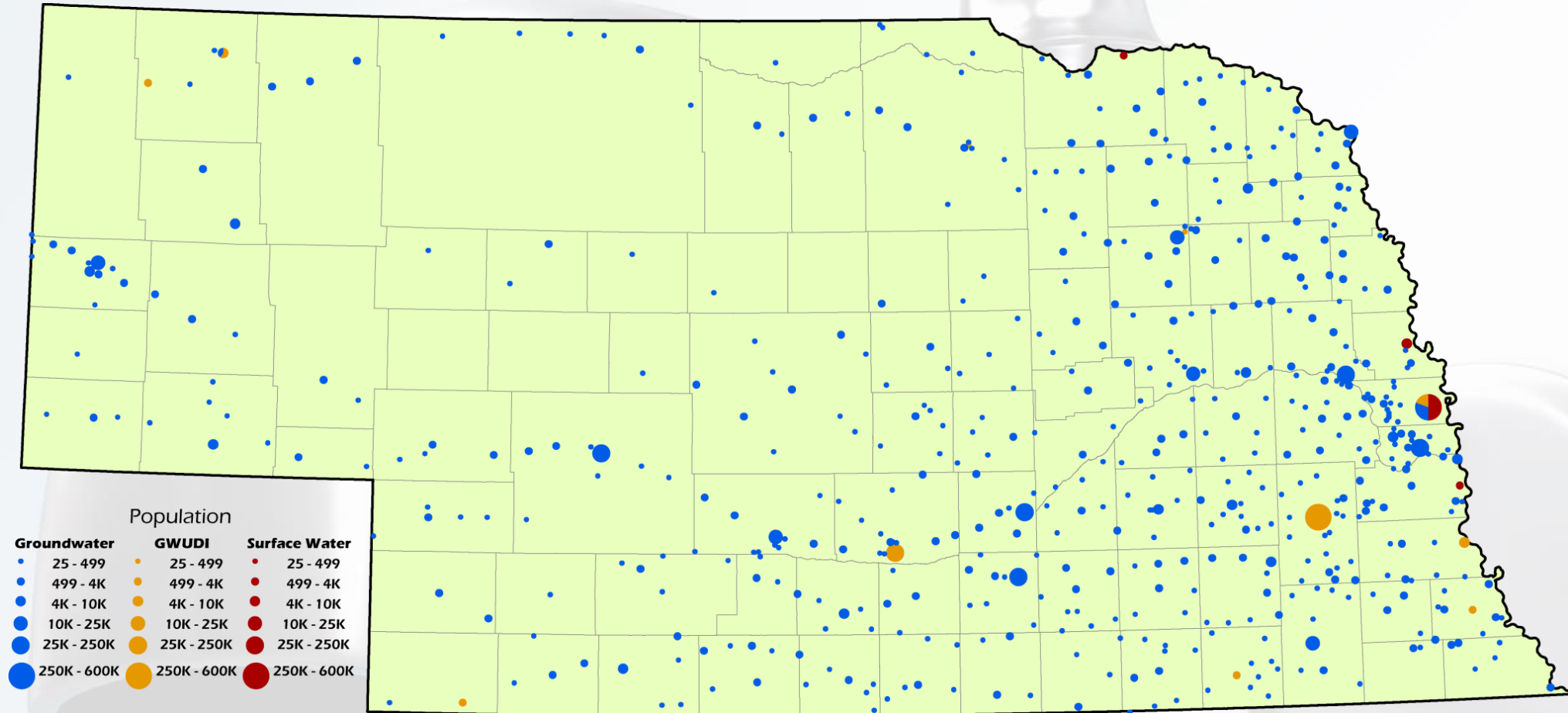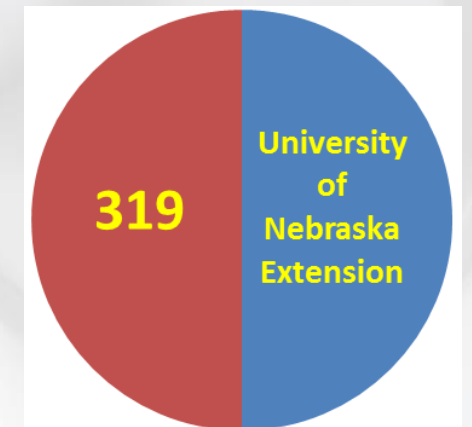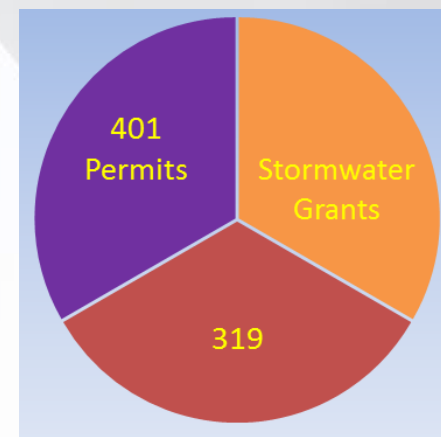
Drinking Water Protection

CWA Section 319

DWSRF 15%

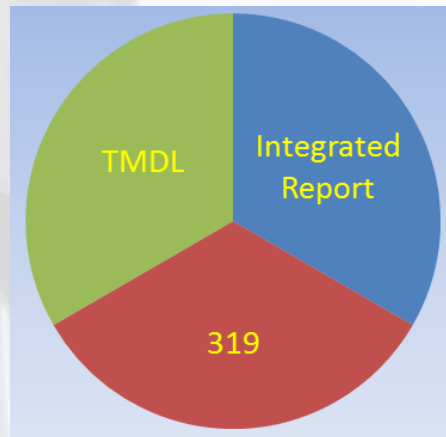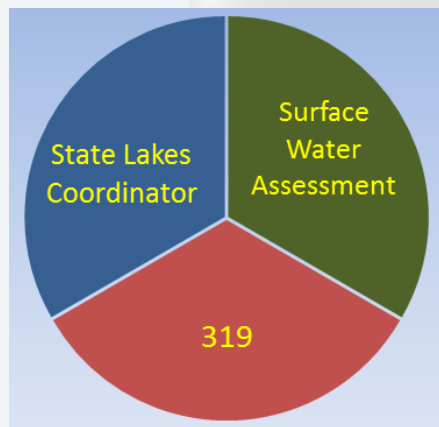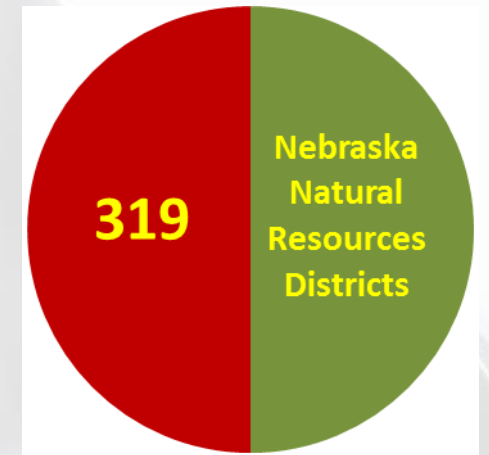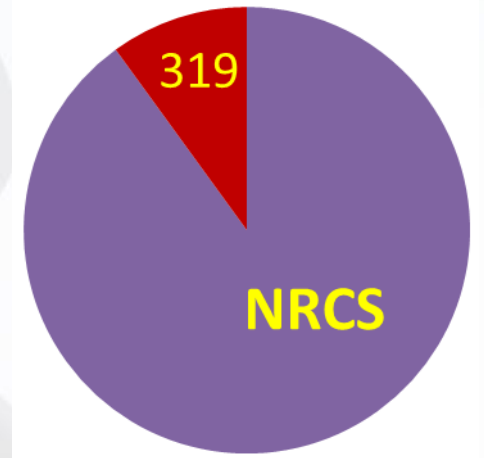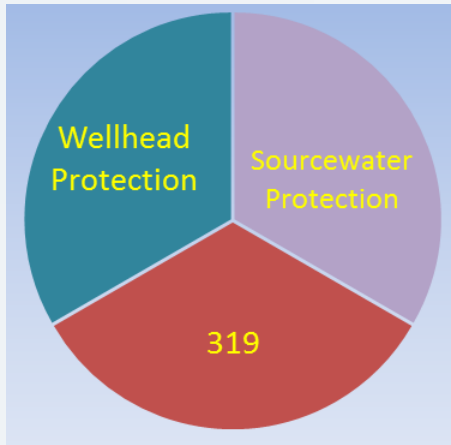Farm Bill 10%

Community Public Water Systems

88% of Nebraskan's Drink Groundwater

Integrated Programs/Staff

CWA-NPS: 9-Element Watershed Management Plan

NDEE Nonpoint Source Pollution Management Plans

Source: NDEE, August 2019

Alternative to a 9-Element Watershed Management Plan

Bazile Groundwater Management Area (BGMA)

Priory Areas	Acres	Average NO₃-N of most recent samples	Reduction % needed	Acres Needing BMPs
Tier 1	31,224	17.6	45%	14,051
Tier 2	53,112	14.2	30%	15,934
Tier 3	10,167	14.9	46%	4,677
Tier 4	389,337	12.6	21%	81,761
Total	483,840			116,422

Priority Areas

- Tier 1
- Tier 2
- Tier 3
- Tier 4

http://deq.ne.gov/publica.nsf/pages/16-013
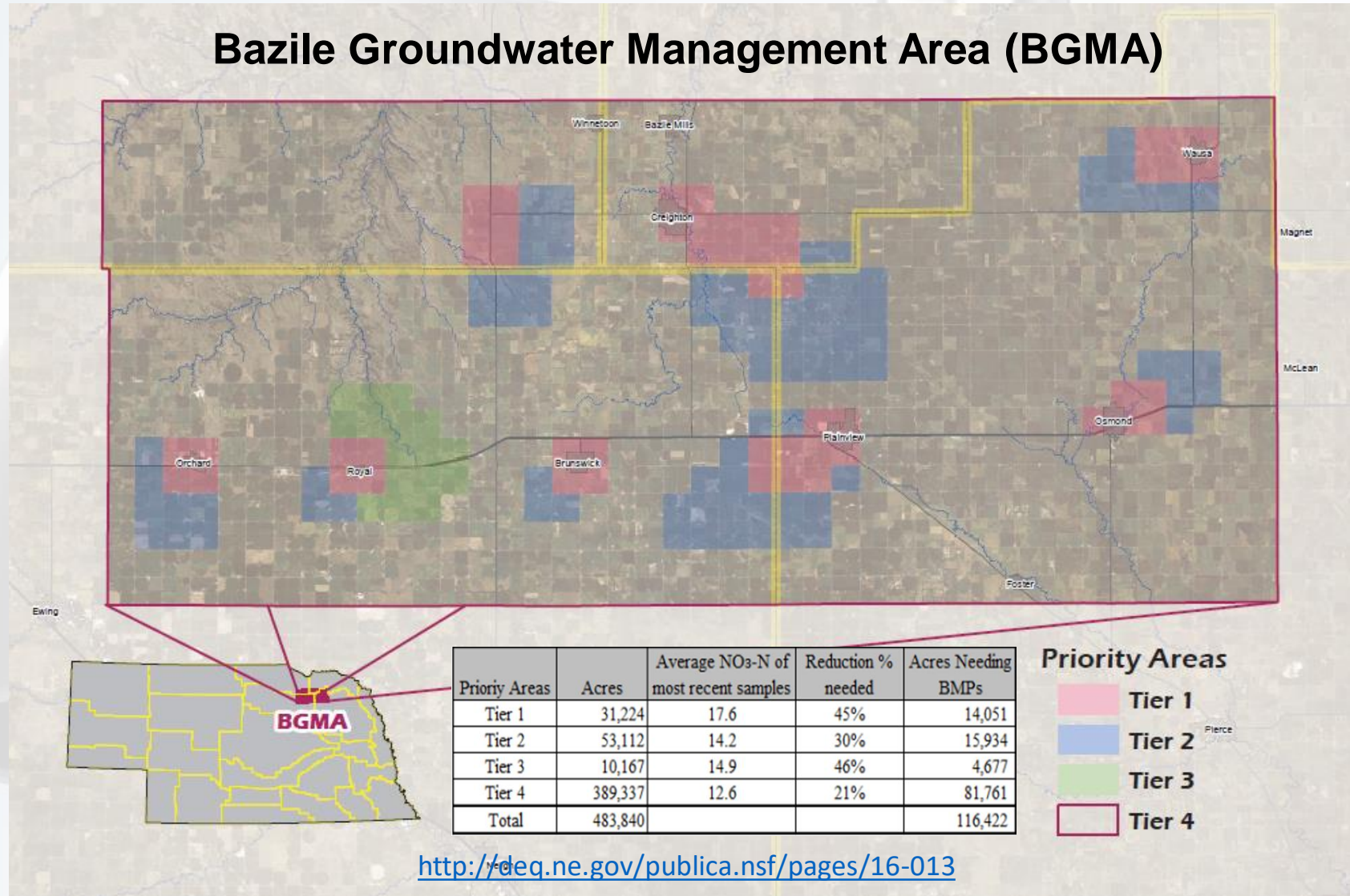
Drinking Water Protection Management Plans
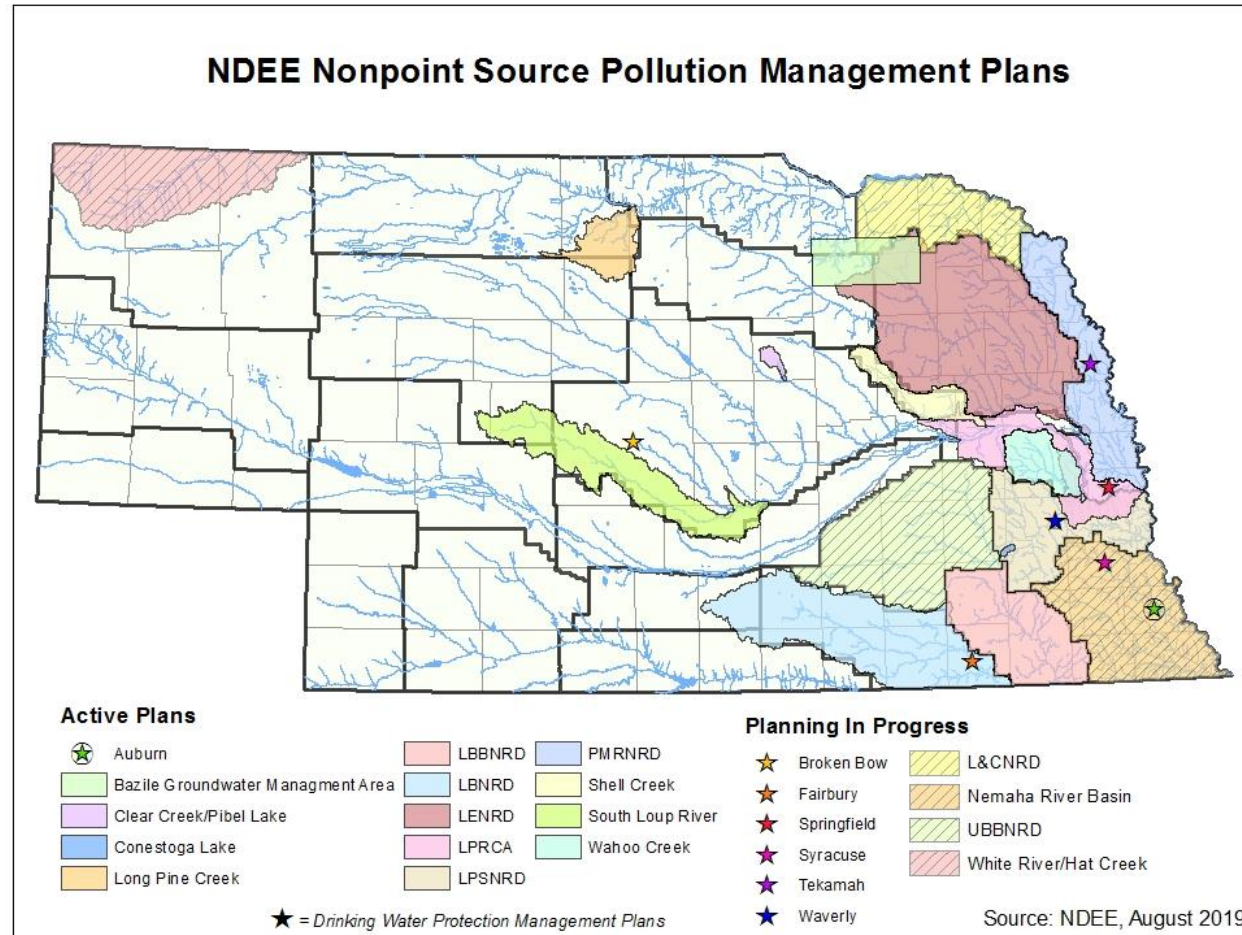
USDA-NRCS: National Water Quality Initiative
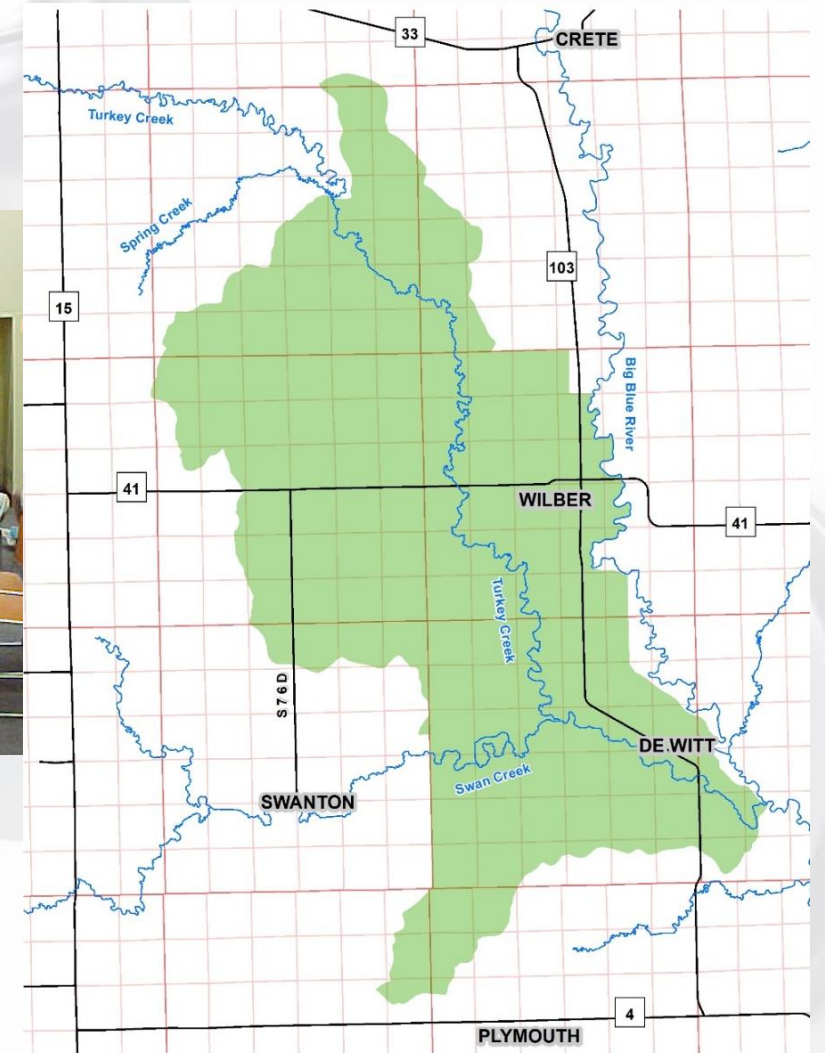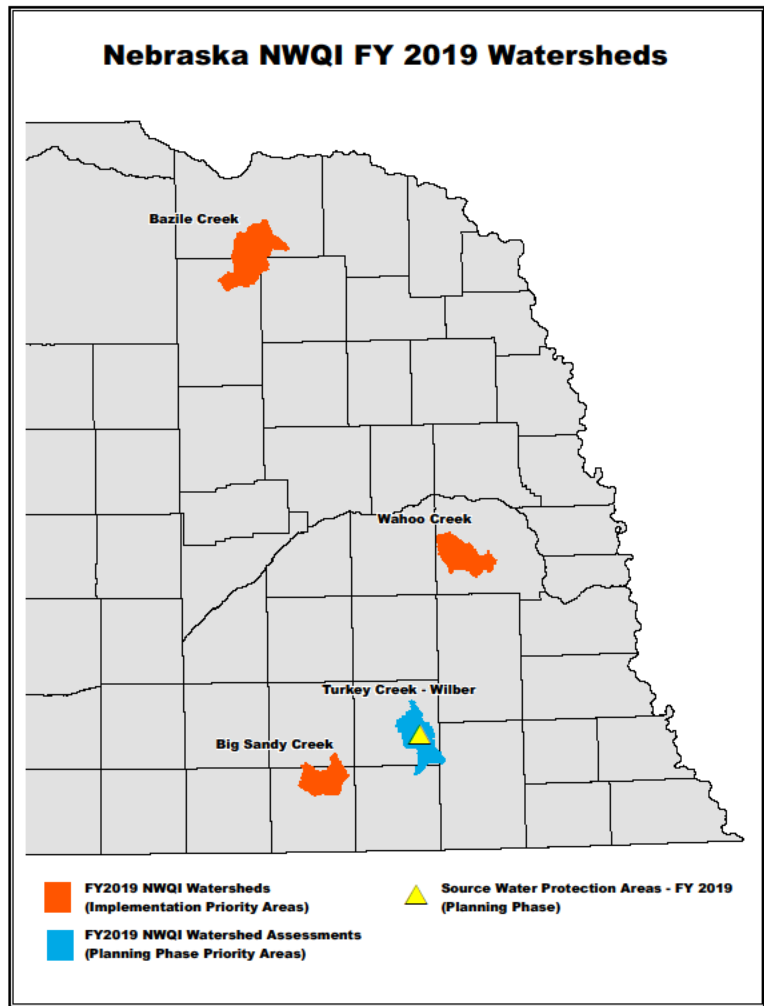
Farm Bill 10% SWP Provision

Potential Priority Practices (TBD)

- Reduced nitrogen application
- Nitrogen scavenging cover crops
- Split nitrogen application
- Delayed nitrogen application
- Nitrification inhibitors
- Change crop rotation (CCB to CB)
- Small grain/forage/grass rotation
- Irrigation management
- Integrated pest management
- Split Atrazine application
- Atrazine applied post planting
- Atrazine rate reduction (≥0.5lbs)
- Alternative herbicide
- Buffer strips
- Change crop rotation (CCB to CB)
- Cover crop/small grain/forage

EQIP Source Water Protection Priorities Areas			
Drafted by Elbert Traylor and Sam Radford (NDEE) from work group input.			
CRITERIA FOR PRIORITY LEVELS	PRIORITY		
	High	Medium	Low
Applications located within a Wellhead Protection Area as delineated by NDEE , OR	+		
Applications located within a delineated watershed that directly drains to a surface water intake of a public water system.	+		
Applications located within a Phase 2, 3, or 4 Groundwater Quality Management Area encompassing ≥ 1 Well Head Protection Area, OR		+	
Applications located within a delineated Groundwater Quantity Management Area encompassing ≥ 1 Wellhead Protection Area[2].		+	
Applications located in a delineated Phase 1 Groundwater Quality Management Area encompassing ≥ 1 Wellhead Protection Area[3].			+
Ineligible: Applications located within an area that does not fit the definitions above.			

Drinking Water Protection

WEARING MANY HATS [WITHOUT GOING COMPLETELY INSANE]

Position Diversity

Partnerships

Questions?

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