



Natural Resources Conservation Service  
U.S. DEPARTMENT OF AGRICULTURE



# SAKW 2024 Annual Meeting

Larry Schieferecke, State Conservation Engineer

FARM PRODUCTION AND CONSERVATION  
FSA | NRCS | RMA | Business Center

# Agenda

- Kansas NRCS Staff
- NRCS Watershed Programs
- Current Projects
- Operation and Maintenance

# Kansas NRCS Watershed Leadership

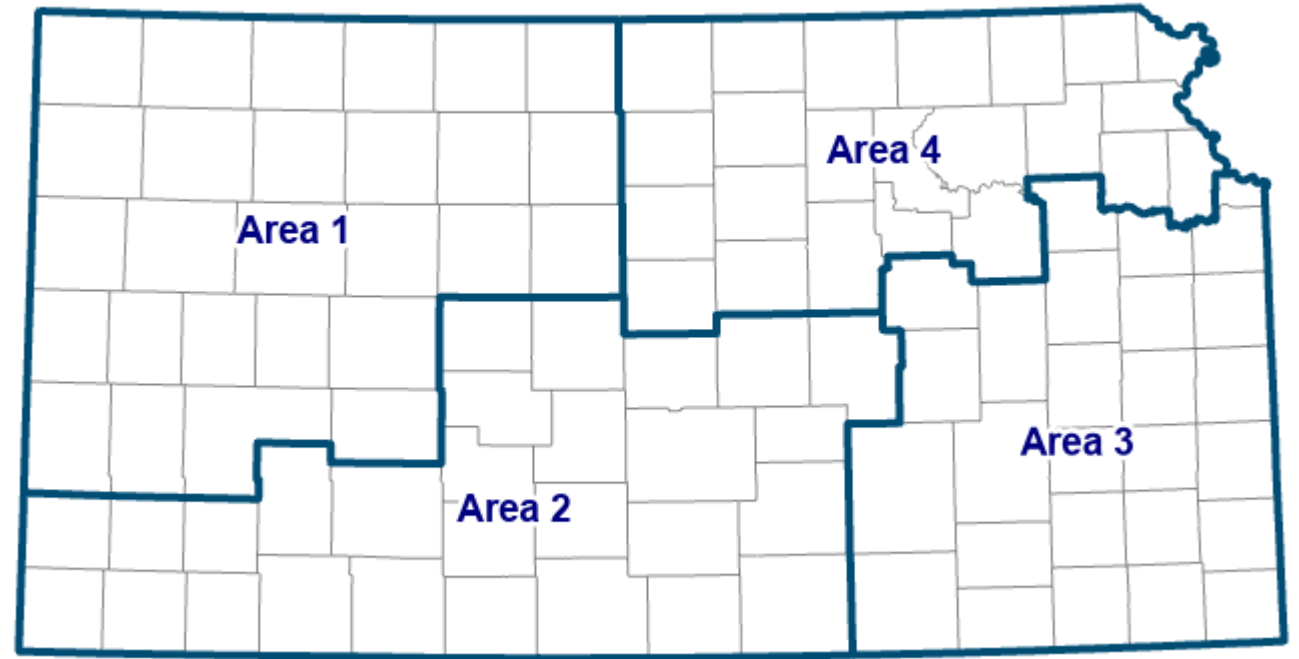
- David Doctorian – State Conservationist
- Larry Schieferecke – State Conservation Engineer
- Megan Reisinger – Water Resources Planning Specialist

# State Office Engineering Staff

- Tammy Cadman – Administrative Assistant
- Paul Larson – Civil Engineer
- Kim Hunninghake – Ag Engineer
- Laura Gray – Dam Safety Engineer
- Lea Tipton – Geologist
- Peter Clark – Civil Engineer
- Jared Wagoner – Civil Engineering Technician

# Area Engineers

- Area 1 – Kelly Klausmeyer
- Area 2 – Vacant
  - Kelly Klausmeyer – Acting
- Area 3 – Alicia Greene
- Area 4 – Andrew Broxterman
  - Shawn Sherraden – Watershed Project Engineer



# Field Offices

- Your local point of contact for NRCS
  - Locations in 95 of 105 Kansas Counties
  - Find your service center: [www.nrcs.usda.gov/kansas](http://www.nrcs.usda.gov/kansas)
  
- Responsible District Conservationist (DC)
  - Main point of contact for sponsors

# NRCS Watershed Programs

- Watershed and Flood Prevention Operations Program (WFPO or Ops)
- Watershed Rehabilitation Program (Rehab)
- Emergency Watershed Protection Program (EWP)

# Watershed and Flood Prevention Operations Program

- Address resource concerns due to erosion, floodwater, and sediment and provide for improved utilization of land and water resources
- Project Purposes:
  - Flood Prevention
  - Watershed Protection
  - Agricultural Water Management
  - Public Recreation
  - Public Fish and Wildlife
  - Municipal and Industrial Water Supply
  - Water Quality Management



# Watershed Ops Projects

- Doyle Creek
- Elk Creek
- Grasshopper-Coal
- Middle Creek
- North Black Vermillion
- North Middle Forks Wolf
- South Fork Wolf
- Squaw Creek Lower Wolf
- Pawnee Subwatershed 2
- Pawnee Subwatershed 5
- Rattlesnake Creek

# Watershed Rehabilitation Program

- Assessment and Rehabilitation of existing structures
- Structures have reached the end of their design life or no longer meet Federal or State standards
- Benefits of Rehabilitation:
  - Extend design life of the structure
  - Continue flood reduction benefits
  - Meet current Federal and State dam safety requirements

# Dam Assessments

- Evaluate the existing condition of the dam
- Evaluate the NRCS hazard classification
- Investigate rehabilitation needs, eligibility, and potential alternatives to address resource concerns and rehabilitate the dam
  - No federal action/rehabilitate to state standards
  - Rehabilitation to NRCS and state standards
  - Remove or relocate downstream hazards
  - Decommission the dam

# Rehab Projects

- Little Walnut Hickory
  - Site 19
- Upper Walnut
  - Site 6
  - Site 21



# Emergency Watershed Protection Program

- Emergency recovery measures following a natural disaster
  - Relieve imminent hazards to life or property that cause watershed impairment



# Sponsor Responsibilities

- Maintenance and repairs
- Obtain NRCS approval of alterations to the structure
- Comply with Federal, State, local, and Tribal laws and regulations
- Required inspections



# Inspection Requirements

- Initial Fill
- Operation and Maintenance
  - Required annually by the sponsor
  - NRCS or contracted individual will participate a minimum of every 3 years
- Formal
  - Required every 3 years for high hazard class dams
  - Required every 5 years for significant hazard class dams
  - Under the leadership of a qualified engineer
  - Safety inspection reports as required by DWR can be submitted to NRCS to meet annual O&M requirement

# Operation and Maintenance Forms

USDA NRCS **Dam Inspection Report** KS-ADS-8  
State of Kansas (Meets Kansas Department of Agriculture - Division of Conservation Requirements) Rev. 7/16

Watershed or Project \_\_\_\_\_  
Dam Name and/or Number \_\_\_\_\_  
Field Office \_\_\_\_\_

Inspection Date \_\_\_\_\_ Date of Last Inspection \_\_\_\_\_  
Type of Inspection: Annual Operation and Maintenance (O&M)  Special  Informal Surveillance

Condition: 1. Adequate - No maintenance required 2. Potential Problem - Monitor  
3. Deficient - Future repairs required 4. Deficient - Immediate repairs required (Include photos)

Item <sup>1/</sup>	Condition	Needed Maintenance and Repairs/Remarks <sup>2/</sup>	Estimated Completion Date <sup>3/</sup>
Embankment - Upstream Slope (1)			
Embankment - Top and Downstream Slope (1)			
Slope Protection - Riprap, Sand, or Vegetated Slope (2)			
Auxiliary Spillway (3)			
Principal Spillway - Inlet Riser and Trash Rack (4)			
Principal Spillway - Valve and Drawdown Works (4)			
Principal Spillway - Gutter Section and Pipe Support (4)			
Principal Spillway - Seepage Along Pipe (4)	<input type="checkbox"/> Yes <input type="checkbox"/> No	Describe location and amount: _____	
Stilling Basin and Outlet Channel (5)			
Pipe Drain Outlets (6)	Drain flowing <input type="checkbox"/> Yes <input type="checkbox"/> No	Describe the flow: _____	
Livestock Exclusion Barriers - Rock or Otherwise (7)			
Fences (8)			
Downstream Improvements (9)	Any new dwelling downstream of dam? <input type="checkbox"/> Yes <input type="checkbox"/> No Approximate distance downstream: _____	<input type="checkbox"/> Not Sure	

NRCS Representative(s) (if applicable) \_\_\_\_\_ Date \_\_\_\_\_ District Representative \_\_\_\_\_ Date \_\_\_\_\_

<sup>1/</sup> Refer to the Inspection Checklist on Page 2.  
<sup>2/</sup> Record additional notes/remarks on a separate sheet and attach.  
<sup>3/</sup> Discuss with District Board as necessary.

**Note: Distribution Instructions are on Page 2**

KS-ADS-8  
Page 2

**Distribution Instructions**

For **federally-funded dams** assisted by the Natural Resources Conservation Service (NRCS), distribute this sheet as follows:

- Original to NRCS for the following distribution
  - Original to district conservationist for O&M file (for permanent retention)—See General Manual (GM) Title 120, Section 408.60—File Code 210-28, Item 12.
  - Copy to assistant state conservationist for field operations—For disposition, see GM Title 120, Section 408.60—File Code 210-28, Item 12.
  - Copy to office assistant for engineering section—State office
- Copy to watershed program manager, Kansas Department of Agriculture, Division of Conservation, 6531 SE Forbes Ave, Ste B, Topeka, KS 66619, or by email to kda.wd.om@ks.gov.
- Copy to watershed district.

For **state or locally funded dams** assisted by the Kansas Department of Agriculture—Division of Conservation, distribute this sheet as follows:

- Copy to watershed program manager, Kansas Department of Agriculture, Division of Conservation, 6531 SE Forbes Ave, Ste B, Topeka, KS 66619, or by email to kda.wd.om@ks.gov.
- Copy to watershed district.

**Inspection Checklist**

<p>(1) Embankment (Upstream Slope and Top and Downstream Slope)</p> <ul style="list-style-type: none"> <li>Damage to embankment by waves, erosion, rodents, livestock, or vehicles (<math>1/2 \times 1/2</math> parallel to CL, Condition 2)</li> <li>Sloughing, sliding, or slumping of fill (Condition 3)</li> <li>Seepage, boils, or wet areas at abutments or along downstream toe (Condition 3)</li> <li>Cracking and displacement of fill (Condition 3)</li> <li>Observable settlement of fill (Condition 3)</li> <li>Presence of trees or shrubs Few trees &lt; 3' tall, Condition 2)</li> <li>Adequacy of grass vegetation (&lt; xx% cover, Condition 3)</li> </ul> <p>(2) Slope Protection (Riprap, Sand, or Vegetated Slope) (Condition 2)</p> <ul style="list-style-type: none"> <li>Presence of trash, logs, and limbs</li> <li>Displacement or excessive breakdown of riprap or other materials</li> <li>Condition of water-tolerant vegetation</li> </ul> <p>(3) Auxiliary Spillway (Upstream of level section, Condition 2)</p> <ul style="list-style-type: none"> <li>Adequacy of grass vegetation</li> <li>Sloughing, sliding, or erosion of slopes</li> <li>Damage by livestock, vehicles, or poor drainage</li> <li>Erosion of bottom and exit channel</li> <li>Obstructions by woody plants or fences</li> </ul> <p>(4) Principal Spillway (Inlet, Valve and Drawdown Works, Outlet, and Pipe)</p> <ul style="list-style-type: none"> <li>Damage, obstruction, or corrosion of trash rack (&gt; 50% obstruction, Condition 3)</li> <li>Obstruction to barrel entrance (Condition 3)</li> <li>Damage or corrosion of ladder (Condition 2)</li> <li>Observable horizontal or vertical misalignment of pipe (Condition 3)</li> <li>Condition of concrete (Significant deterioration, Condition 3)</li> <li>Damage, corrosion, or leakage of drawdown works (Condition 2)</li> <li>Leaky pipe joints and joint number (Condition 3)</li> </ul>	<p>(5) Stilling Basin and Outlet Channel (Condition 2)</p> <ul style="list-style-type: none"> <li>Slumping or sliding of slopes</li> <li>Displacement or excessive breakdown of riprap materials</li> <li>Erosion or siltation of outlet channel</li> <li>Seepage or surface runoff into basin</li> <li>Excessive vegetation in outlet channel</li> <li>Pipe support</li> </ul> <p>(6) Pipe Drain Outlet(s) (Condition 2)</p> <ul style="list-style-type: none"> <li>Obstructions at outlet</li> <li>Condition of rodent guard</li> <li>Pipe damage</li> </ul> <p>(7) Livestock Exclusion Barriers (Condition 2)</p> <ul style="list-style-type: none"> <li>Displacement or excessive breakdown of rock materials</li> <li>Damage, deterioration of cattle panels, concrete barriers, etc.</li> </ul> <p>(8) Fences (Condition 2)</p> <ul style="list-style-type: none"> <li>Gates - open or closed</li> <li>Posts - loose, bent, or broken</li> <li>Tension and condition of wires</li> <li>Trash on fence</li> </ul> <p>(9) Downstream Improvements</p> <ul style="list-style-type: none"> <li>Any new houses, roads, utilities, etc., downstream that will affect the dam classification</li> </ul>
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# Operation and Maintenance Workshops





# Questions

# Disclaimer

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