October 21st, 2025



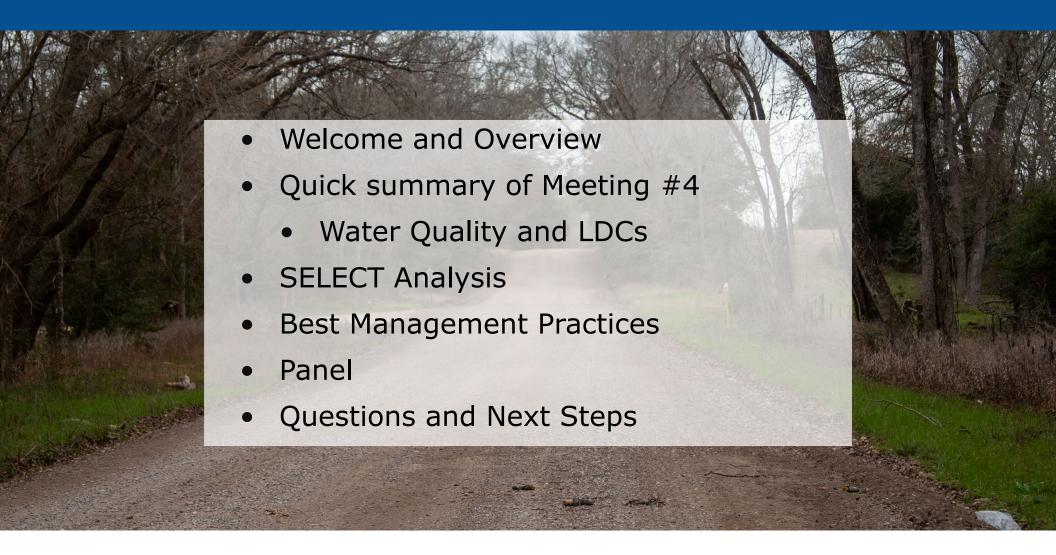






Funding provided by the Texas State Soil and Water Conservation Board through the State Nonpoint Source Grant Program

Meeting Agenda

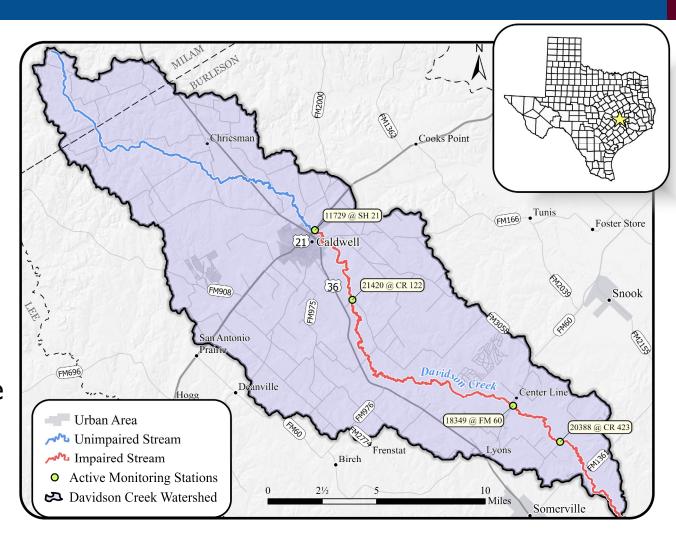


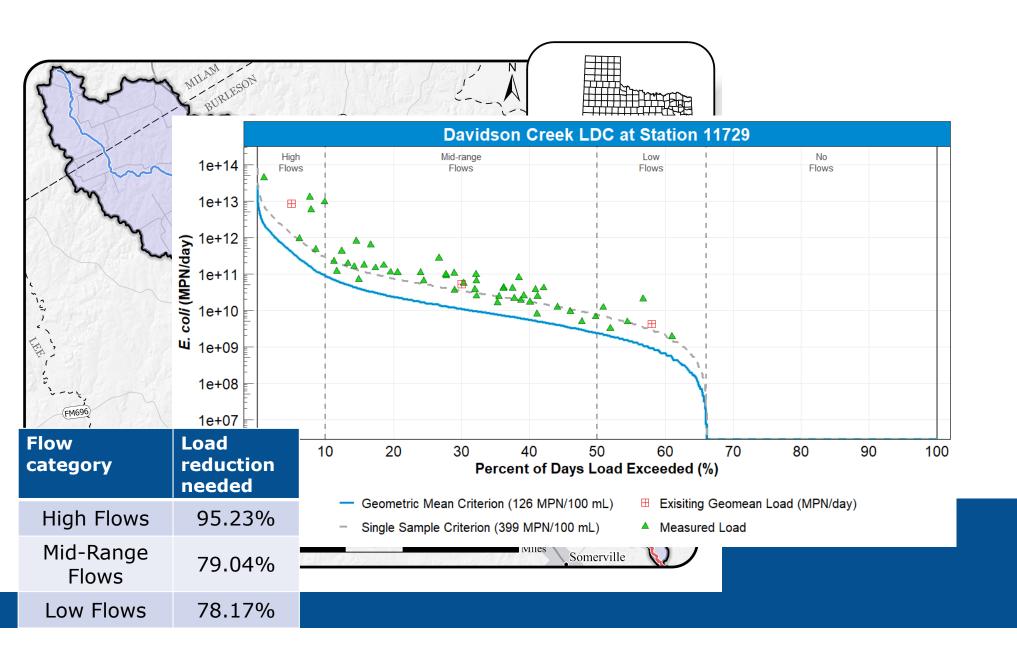
Davidson Creek

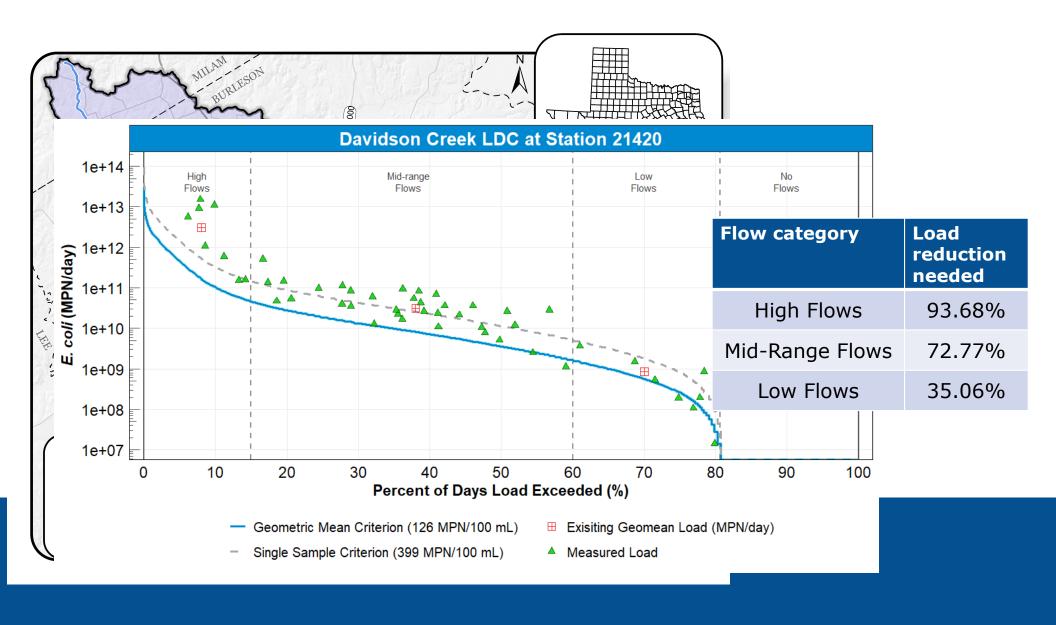
Water Quality

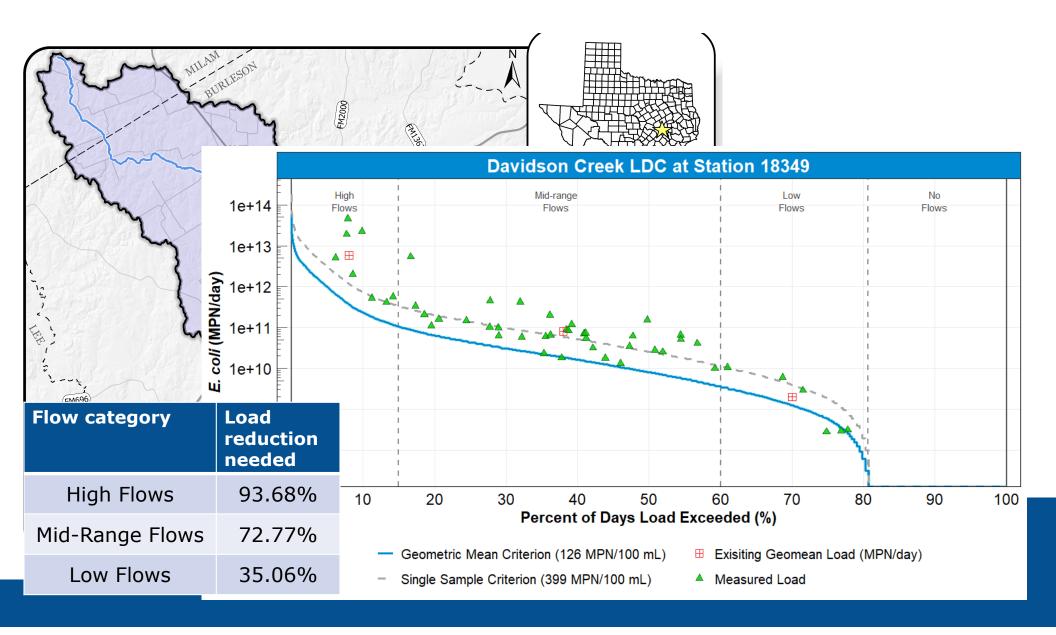
 Elevated bacteria – risk to human health

 Low dissolved oxygen – risk to fish & aquatic life

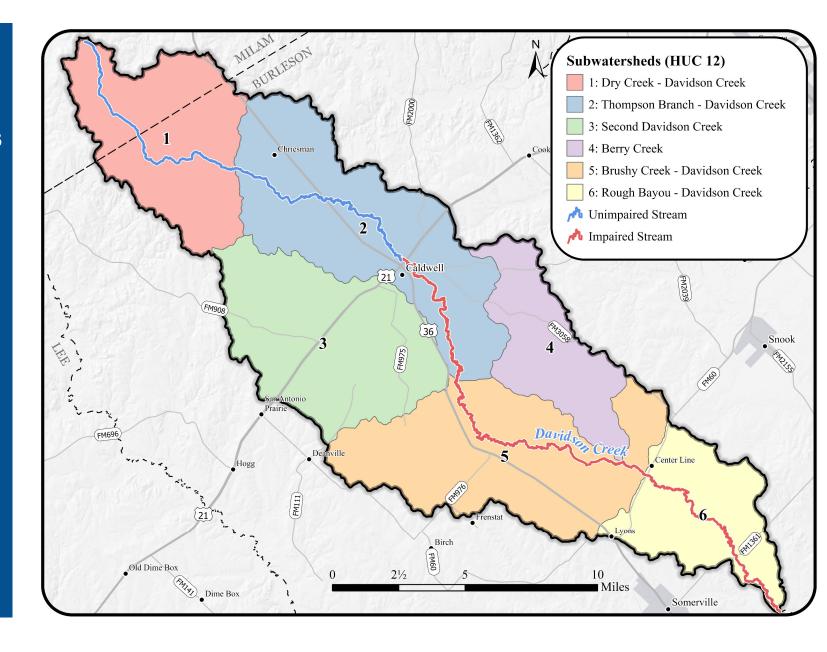






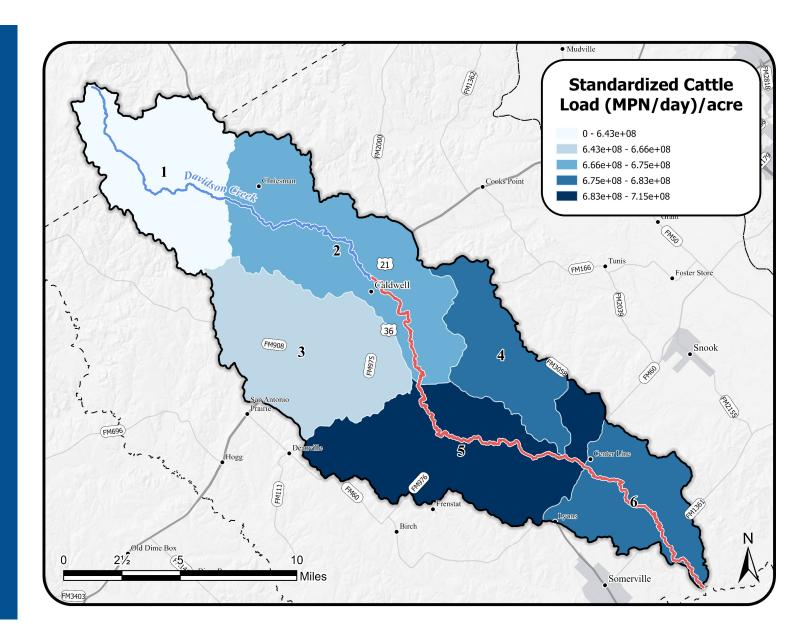


Subwatersheds

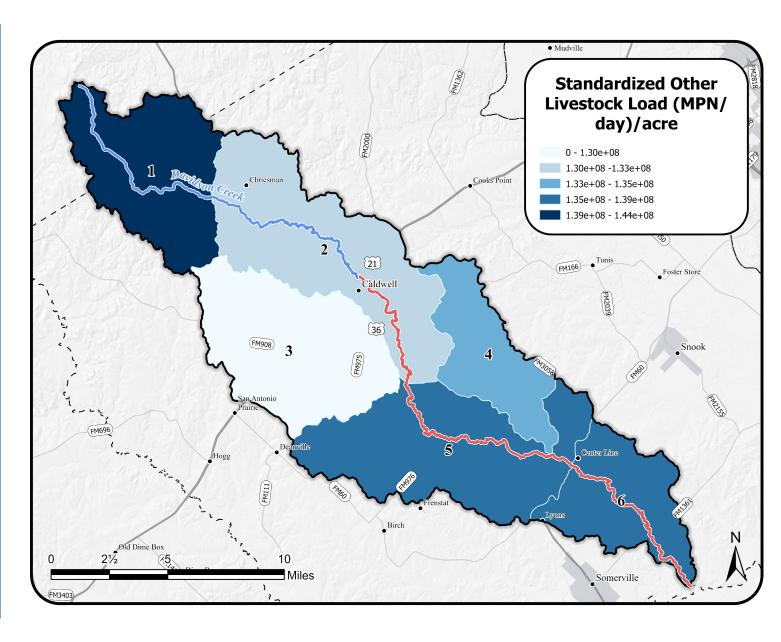




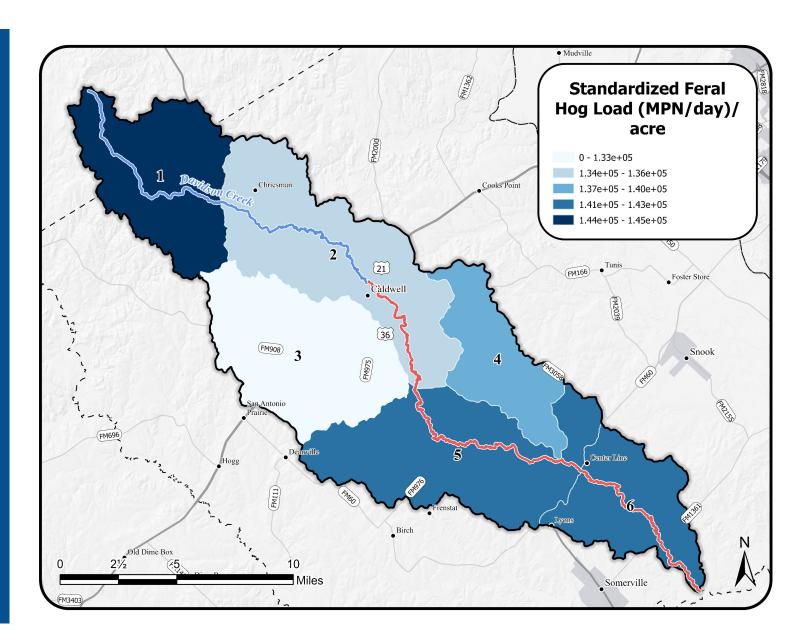
Cattle



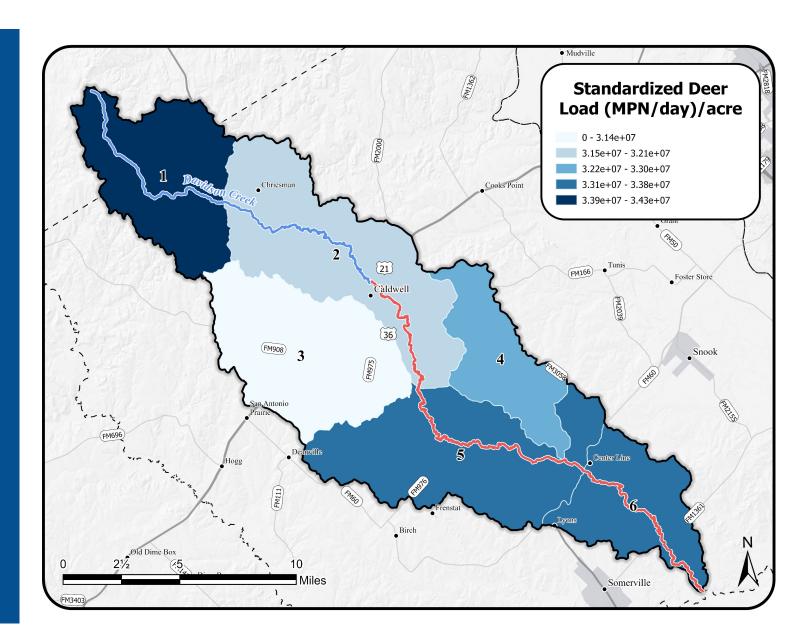
Other
Livestock
(Goat,
Sheep,
Horse,
Pig/Hog)



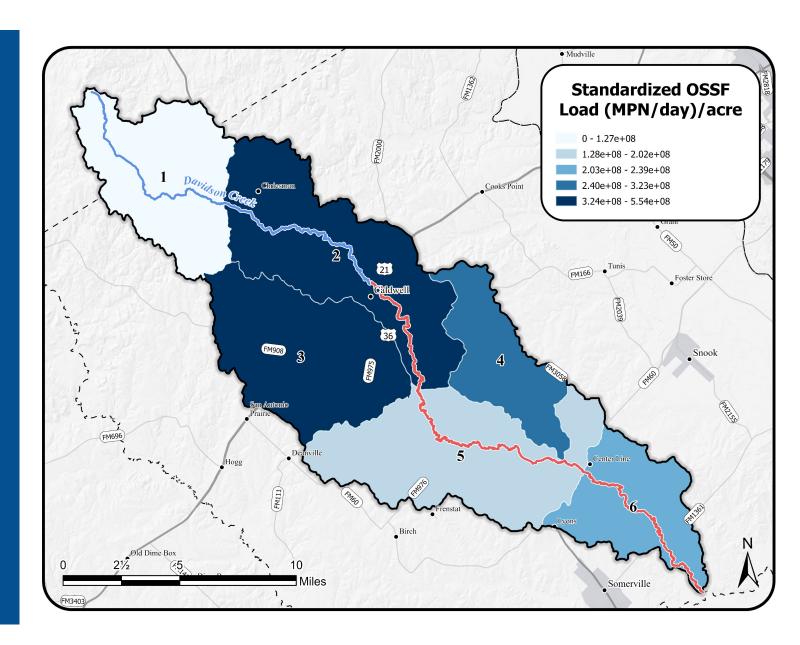
Feral Hog



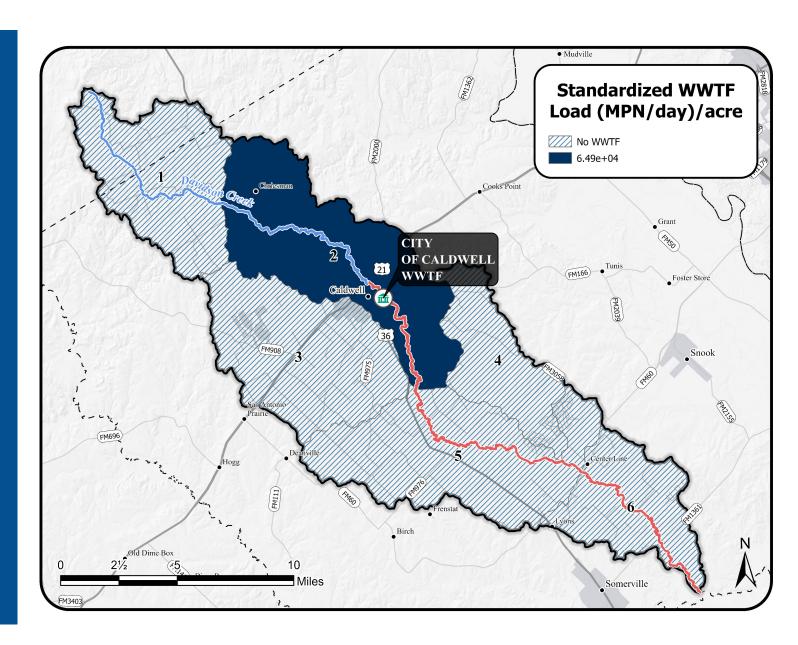
Deer



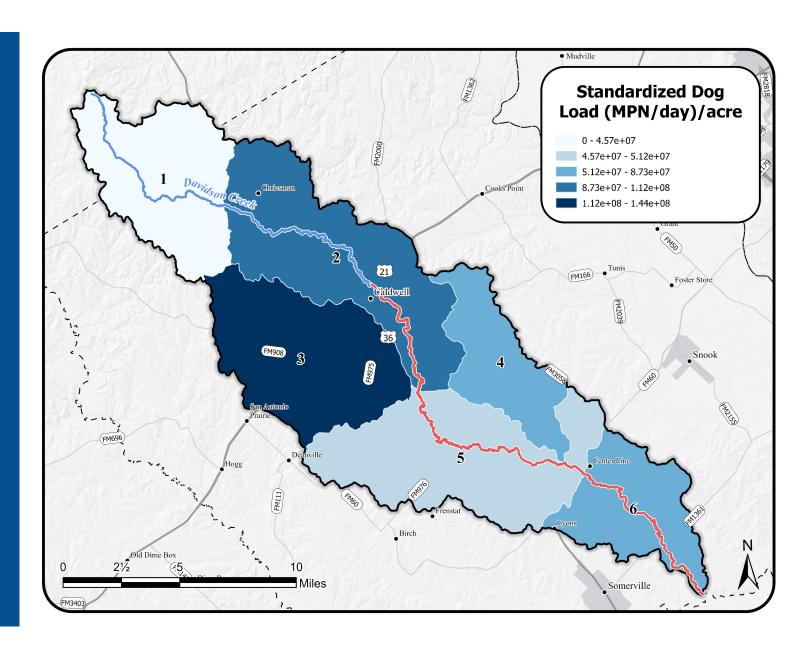
OSSF



WWTF

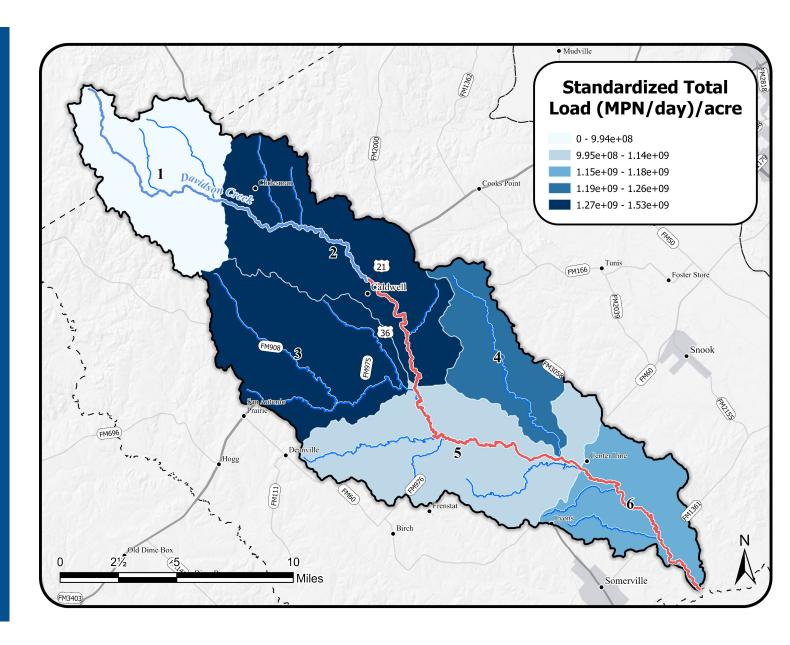


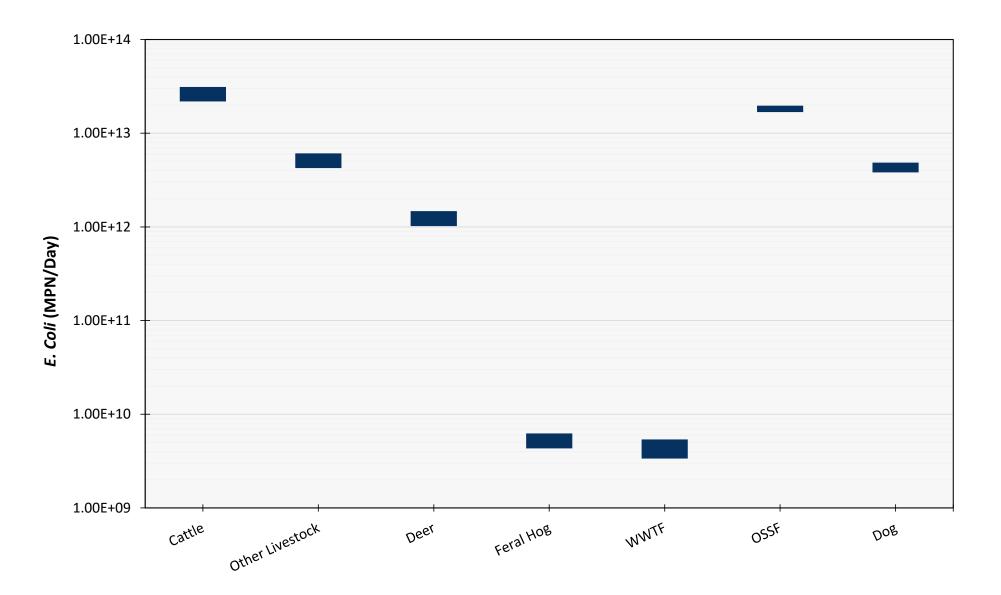
Dog



Total Estimated Load

Critical Source Areas = Subwatersheds 2 and 3





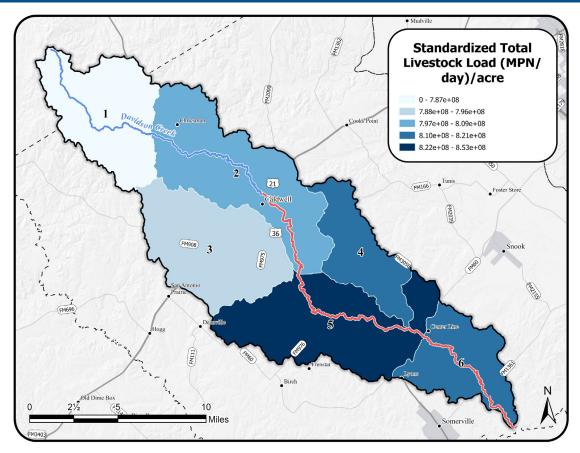
Management Measures or Best Management Practices (BMPs)

Voluntary actions that directly or indirectly reduce pollutant loads potentially reaching waterbodies

Effective Management measures are both feasible and locally acceptable!



Livestock



 Conservation Plans (CP) and Water Quality Management Plans (WQMPs)

Management Practice	Effectiveness
Exclusionary fencing¹	62%
Filter strips ²	65%
Prescribed grazing ³	54%
Stream Crossing ⁴	48%
Watering facility⁵	73%
Average Efficacy	63%

¹ Brenner et al. 1996, Cook 1998, Hagedorn et al. 1999, Line 2002, Line 2003, Lombardo et al. 2000, Meals 2001, Meals 2004, Petersen et al. 2011

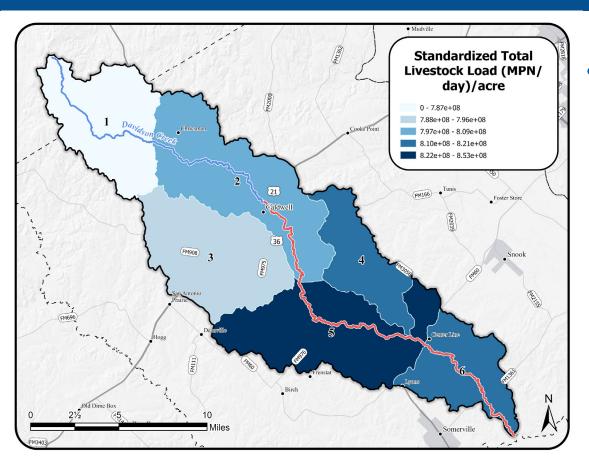
² Cook 1998, Coyne et al. 1995, Fajardo et al. 2001, Goel et al. 2004, Larsen et al. 1994, Lewis et al. 2010, Mankin and Okoren 2003, Roodsari et al. 2005, Stuntebeck and Bannerman 1998, Sullivan et al. 2007, Tate et al. 2006, Young et al. 1980.

³ Tate et al. 2004, EPA 2010

⁴ Inamdar et al. 2002, Meals 2001

⁵ Byers et al. 2005, Hagedorn et al. 1999, Sheffield et al. 1997

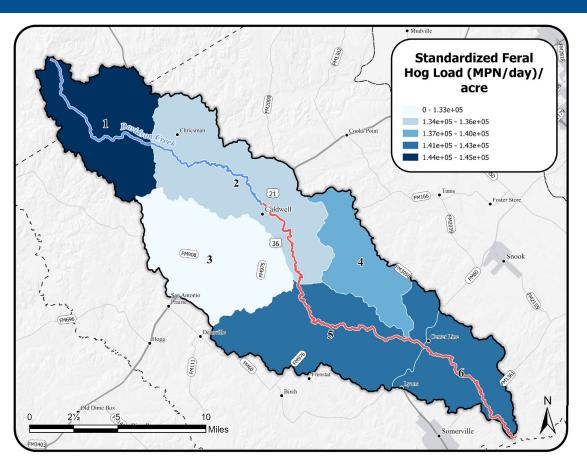
Livestock



Educational workshops

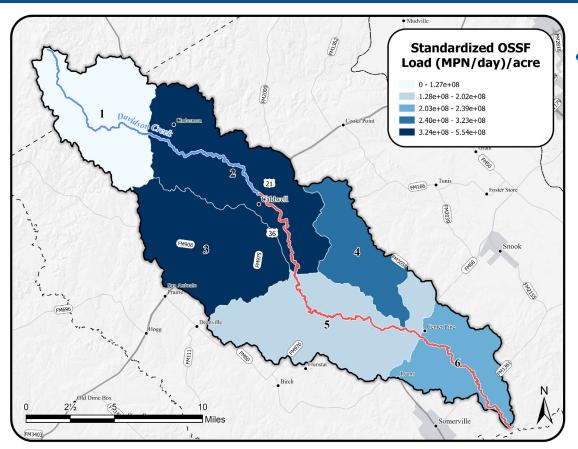
- Grazing management
- Landscape and water
 resources management
- Nutrient management
- Soil testing campaign

Feral Hog



- Feral hog bounty programs
- Voluntary hog removal
- Feral hog control workshops

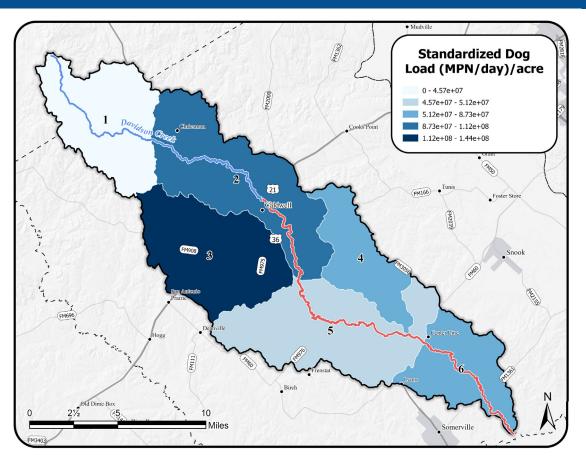
Septic Systems (OSSF)



Educational workshops

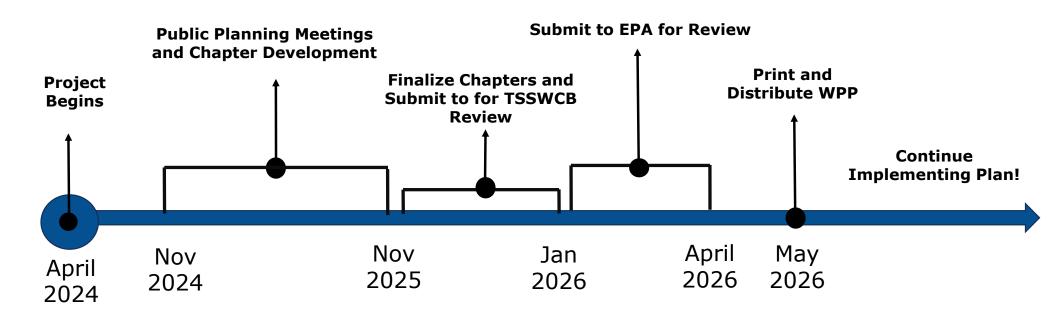
- OSSF operation and maintenance workshop
- OSSF installer and maintenance provider training
- Online homeowner maintenance of aerobic treatment units

Pet Waste (Dogs)



- Behavior changes of dog owners
- Pet waste stations
- Continuation and support of Project SNIP (spay and Neuter Programs)
- Education and outreach
- City Ordinances?

Next Steps



Additional Meetings and Overall Timeline

- Next Stakeholder Meeting MONDAY November 17
- Send out and post online meeting reminders and recap of previous meeting
- Will post chapters 1-4 for review and public comment
- Water Quality monitoring on Davidson Creek will continue

Questions?

https://davidson.twri.tamu.edu/

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