Lampasas River Watershed Partnership

Agriculture and Wildlife Work Group Meeting October 18, 2010

Lisa Prcin Watershed Coordinator Texas AgriLife Research at Blackland Research & Extension Center

Introductions

Past Business

Steering Committee Report

- Members approved the dissolution of Education and Outreach Group
 - Tasks will be distributed between Urban NPS and Agriculture and Wildlife Work Groups
 - Tasks are:

- Defining target audiences for both broad-based and sourcespecific outreach and awareness programs
- Develop strategies to reach these audiences
- David Cole, Kempner Water Supply Corp requested to be removed from the Steering Committee
 - Members approved the Mr. Cole's resignation and decided to not to replace his position at this time



Steering Committee Report

• Reviewed *E. coli* Load Duration Curves

- Analyses indicated that load reductions were only needed in periods of high flow
- Pollutants are very difficult to control in the high flow regime
- Steering Committee voted and approved a margin of safety (MOS) level set at 0%
 - Agreed that the Texas Surface Water Quality Standards had a 'built-in' MOS
- Discussed and made recommendations for water quality sampling points for Bacterial Source Tracking project



2010 Integrated Report

- DRAFT 2010 Texas Integrated Report was approved by the TCEQ Commissioners on August 25th
- Draft has been sent to EPA for final approval
- Lampasas River is NOT listed as impaired on draft, pending EPA's approval



Prioritize Subwatersheds for BMPs

Potential Sources with SELECT Analysis

- Urban NPS Work Group
 - Septic Systems
 - Wastewater Treatment Facilities
 - Dogs
- Agriculture & Wildlife Work Group
 - Horses
 - Goats
 - Sheep
 - Cattle
 - Confined Animal Feeding Operations
 - Deer
 - Feral Hogs



Lampasas River Watershed







Potential E. coli loads resulting from Horses





Potential E. coli loads resulting from Goats





Potential E. coli loads resulting from Sheep





Potential E. coli loads resulting from Cattle





Potential E. coli loads resulting from Cattle







Confined Animal Feeding Operations





Potential E. coli loads resulting from CAFOs





Deer





Potential E. coli loads resulting from Deer (WMA)





Potential E. coli loads resulting from Feral Hogs





Potential Best Management Practices

Conservation Programs

- Texas State Soil and Water Conservation Board Water Quality Management Plan Program
- Natural Resource and Conservation Service
 Farm Bill Programs
- Texas Parks and Wildlife Department Programs (for Private Landowners)
- Texas Forest Service Stewardship Program



Farm Statistics

- Animal Unit Conversions
 - ► 1 AU =
 - 1 Cattle
 - > 3.5 Sheep
 - 5.0 Goat
 - 0.5 Horse
- Estimated # of AU per Farm
 - ▶ 20 AU

Sub-basin	Total AU	Number of Farms	10% Reduction
1	3138	157	16
2	1649	82	8
3	1964	98	10
4	1449	72	7
5	1566	78	8
6	3611	181	18
7	1444	72	7
8	1370	69	7
9	1422	71	7
10	2160	108	11
11	3535	177	18
12	8537	427	43
13	2505	125	13
14	4952	248	25

Deer

- Texas does not actively manage native wildlife population (deer) for water quality purposes, contributions are considered 'background' NPS
- Encourage participation in WMA
- Encourage hunters to harvest animals at proper levels

Sub-basin	۵	Deer
	1	1486
	2	3264
	3	700
	4	940
	5	3928
	6	4527
	7	3519
	8	3772
	9	2564
	10	4463
	11	7820
	12	11556
	13	3945
	14	6834
Total		59316
		AgriLIFE RESE

Texas A&M System

Feral Hogs

- Removal of feral hogs
- Support countywide trapping programs
- Educational programs
 - Texas AgriLife
 Extension Service

		10%
Sub-basin	Feral Hogs	Reduction
1	. 1867	187
2	930	93
3	1114	111
4	846	85
5	1473	147
6	2951	295
7	1667	167
8	965	97
9	1276	128
10	1260	126
11	. 2561	256
12	. 3389	339
13	1266	127
14	2700	270
Total	24265	2427

Next Steps

Riparian Proper Functioning Condition Workshop

- Learn about the basic interaction of Hydrology Erosion/Deposition and Vegetation for Central Texas creeks and rivers
- One-day course; ½ Classroom, ½ Field
 - Thursday, October 28th
 - Classroom and Field at Parrie Haynes Equestrian Center
 - Lunch provided by City of Killeen
 - Friday, October 29th

- Classroom at Evant Methodist Church
- Field at the Meis Ranch, 2650 CR 2965, Evant
- Lunch provided by City of Lampasas
- Water will be provided at field sites
- Each workshop will be limited to 40 participants
- RSVP to me at (254) 774-6008 or lprcin@brc.tamus.edu
- Open to all members of the Partnership and then to the general public





USDA – Natural Resources Conservation Service Proper Functioning Condition of Riparian Areas Workshop

8:00 - 8:25 Registration and Sign In

- 8:25 8:35 The Lampasas River Watershed Partnership Lisa Prcin, Texas AgriLife Research
- 8:35 8:45 Landowners Goals and Operation Adam Jarrett, Parrie Haynes Ranch Chris Meis, Meis Ranch
- 8:45 9:30 Introduction to Riparian Function Ricky Linex, USDA - NRCS
- 9:30 11:15 Hydrology/ Fluvial Morphology Principles and Interactions (with Break) Kenneth Mayben, USDA - NRCS
- 11:15 12:00 Riparian Vegetation Ricky Linex, USDA - NRCS
- 12:00 12:45 Lunch
- 12:45 1:00 Travel to Field Site
- 1:00 3:30 Observation and Discussion of Riparian Sites at Field Site Parrie Haynes Ranch – Killeen (Thursday, October 28th) Chris Meis Ranch – Evant (Friday, October 29th)

*** Special thanks to the Cities of Killeen and Lampasas for providing lunch***

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November Steering Committee Meeting

- Thursday, November 18, 2010
- Lampasas County Farm Bureau (tentative)
- Discussion and approval of work group recommended BMPs
- Bacterial Source Tracking Project Update

