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Texas Cattle Feeders Association

- Multiple locations
- Soil series
- Crop types
- Tillage practices
- Manure & compost
- Type of incorporation
- Fall vs. spring appl.
- Buffer strips
Demonstration Sites
Deaf Smith, Donley and Wheeler Counties
Deaf Smith County

Soil Sampling (fields, sub-areas, & down-gradient)

• No. of fields: 5
• Irrigation: Center pivots
• Soil types: Pullman clay loam
• Type of flow: Sheet
• Crops: Corn, cotton, wheat hay, sorghum silage
• Tillage: Minimum / Strip tillage / DMI
• Fertilizer: Manure and commercial
• Time of appl.: Fall and winter
Donley County

Clarendon

Demo Sites

Hedley
Donley County

Soil Sampling (fields, sub-areas, & down-gradient)

- No. of fields: 3
- Irrigation: Center pivots
- Soil types: Veal fine sandy loam
- Type of flow: Channel and sheet
- Crops: Cotton, peanuts, wheat
- Tillage: Minimum tillage
- Fertilizer: Compost and commercial
- Time of appl.: Winter
Wheeler County

Wheeler, Tx

Shamrock

Demo Sites

Mobeetie
Wheeler County
Soil Sampling (fields, sub-areas, & down-gradient)

• No. of fields: 6
• Irrigation: Center pivots
• Soil types: Devol loamy fine sand and Mobeetie fine sandy loam
• Type of flow: Channel
• Crops: Corn, corn silage, cotton, wheat, triticale silage, peanuts
• Tillage: Minimum / single pass disk
• Fertilizer: Manure, compost and commercial
• Time of appl.: Early spring
Deaf Smith County
Deaf Smith County

Water Quality

Runoff Plots
Deaf Smith County
Deaf Smith County
Deaf Smith County

Photo courtesy of Dr. Paul DeLaune (from previous project). For this project, flumes and samplers will be installed in Jan 2011.
Deaf Smith County

Water Quality Runoff Plots

• No. of plots: 4
• Size: 1 acre each
• Irrigation: Center pivot
• Soil type: Pullman clay loam
• Type of flow: Bermed / concentrated
• Samplers: Automatic, flow-wtd. avg. conc.
• Tillage: Minimum / Strip tillage / DMI
• Time of appl.: Fall and winter
Deaf Smith County

Water Quality Runoff Plots

- Treatments: 10 tons/acre manure every year
  30 tons/acre 1st year only
  2 tons/acre compost every year
  Commercial fertilizer (farmer)