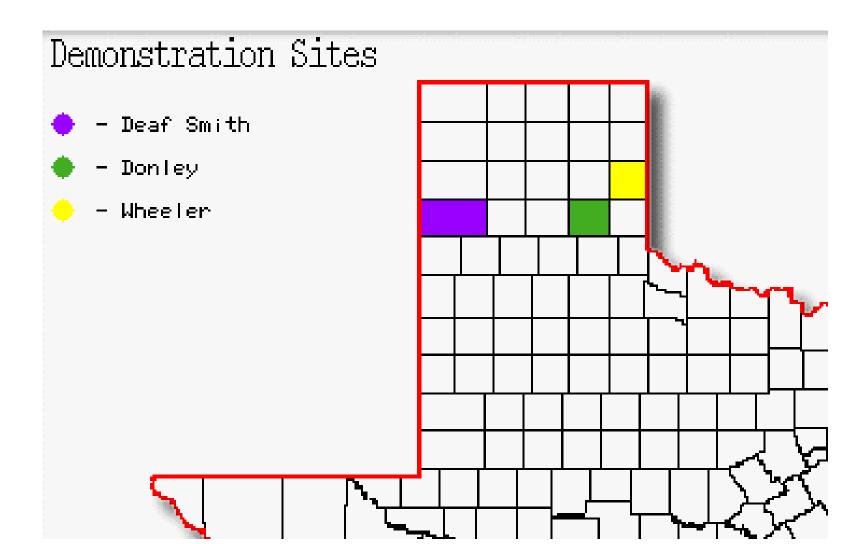
Ben Weinheimer Texas Cattle Feeders Association

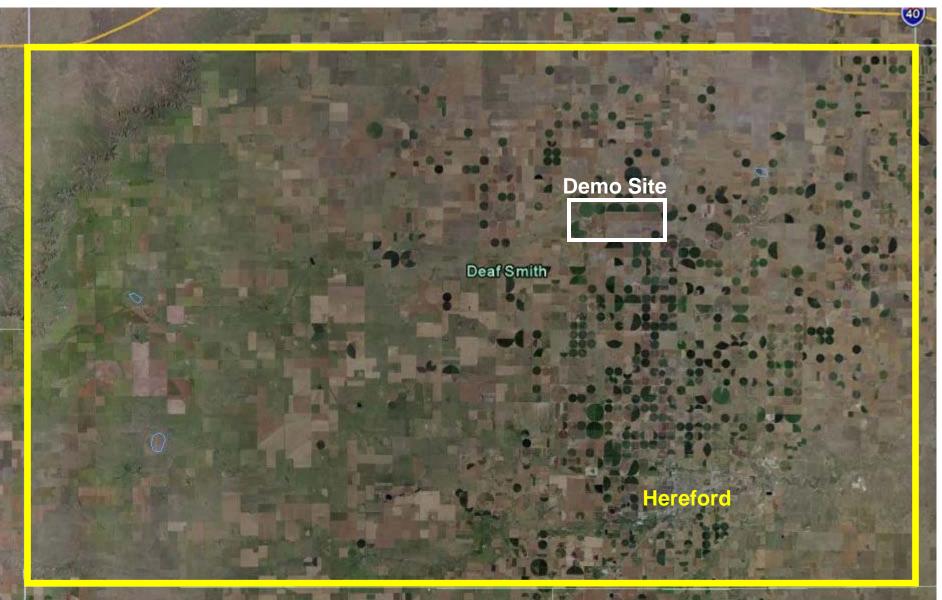
- Multiple locations
- Soil series
- Crop types
- Tillage practices

- Manure & compost
- Type of incorporation
- Fall vs. spring appl.
- Buffer strips

Demonstration Sites

Deaf Smith, Donley and Wheeler Counties

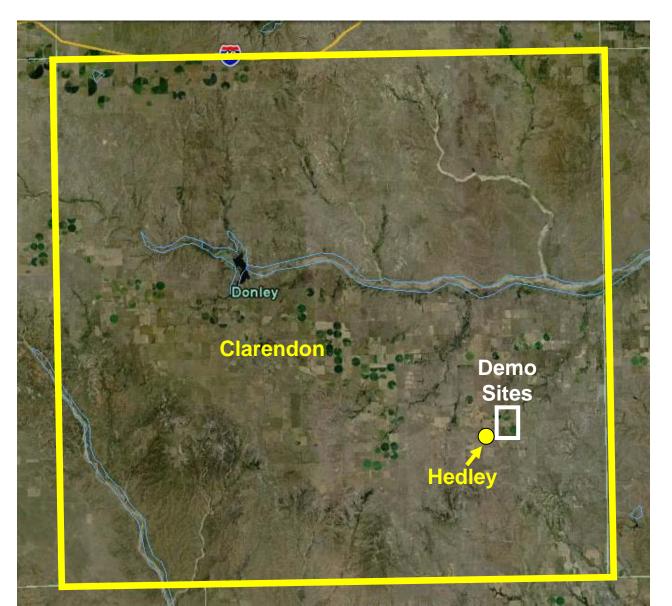




Soil Sampling (fields, sub-areas, & down-gradient)

- 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



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

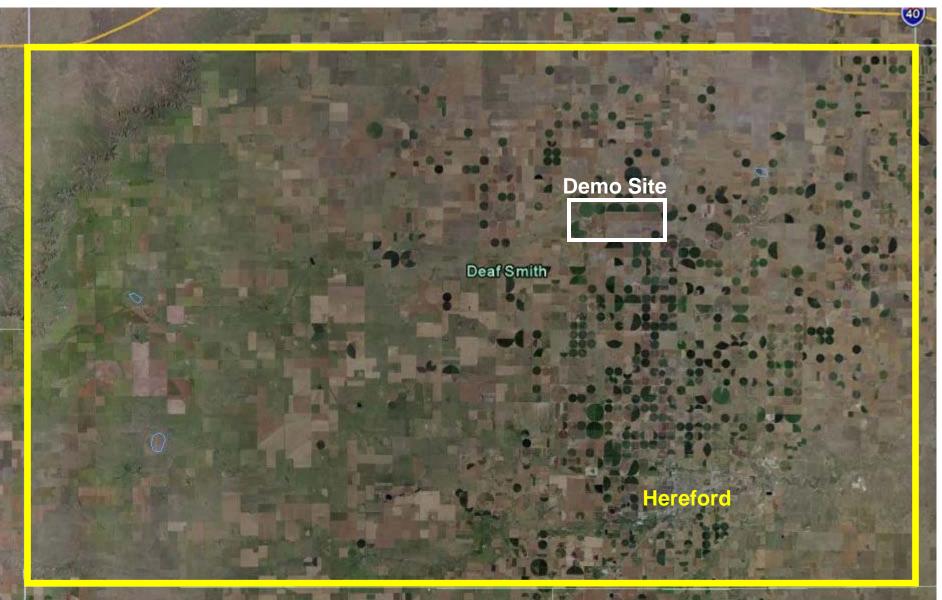
Wheeler County



Wheeler 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



Water Quality Runoff Plots



Water Quality

Runoff Plots





















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

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

Water Quality Runoff Plots

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