

North Central Texas Water Quality Project

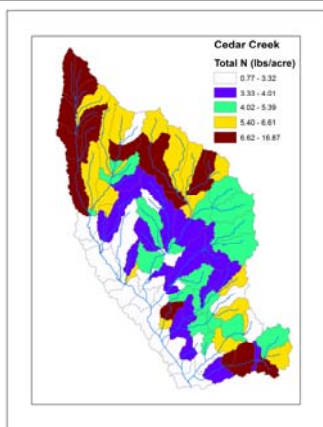
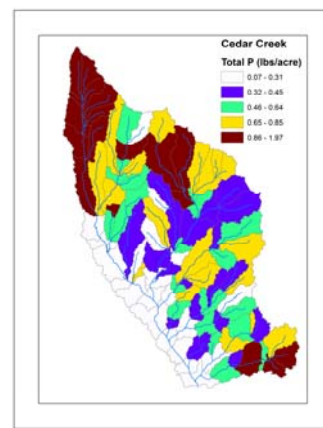
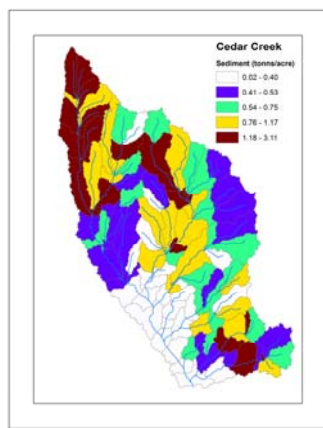
Agricultural and Watershed Best Management Practices

Dr. Balaji Narasimham
Spatial Sciences Laboratory
Texas A&M University

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Issues of Concern

- Excess Nutrients
 - Phosphorus
 - Nitrogen
- Sedimentation
- Run-off



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Agricultural Best Management Practices

- Implementation of structural or behavioral practices to reduce loadings of sediment or nutrients into watersheds
 - Cropland
 - Pasture and Rangeland

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Cropland BMP's

- Filter Strips
- Contour Farming
- Terracing
- Grassed Waterways
- Crop Residue Management
- Cropland Conversion to Pasture
- Fertilizer/ Nutrient Management

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Filter Strips

- Vegetation filter strips work to prevent erosion and absorb nutrients



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Contour Farming

- Uses the natural landscape as a method of retaining nutrients and sediment



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Terracing

- Allows crops to grow with the natural landscape with minimal soil disruption



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Grassed Waterway

- Allow for the retention of sediment and nutrients within the crop area



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Crop Residue Management

- Tillage is minimized to allow for retention of nutrients in soil



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Cropland Conversion to Pasture

- Conversion of cropland to pasture decreases the need for nutrients and stabilizes top soil and ground cover



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Nutrient Management

- Precision application of fertilizers prevent excess nutrients from entering watershed



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Pasture and Rangeland BMP's

- Prescribed Grazing
- Fencing
- Water Facility
- Fertilizer/ Nutrient Management
- Pasture Planting
- Range Planting
- Grassed Waterway
- Riparian Buffer strips

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Prescribed Grazing

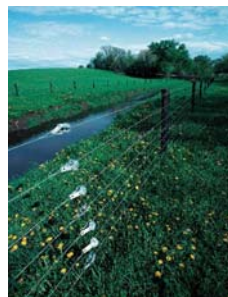
- Grazing rotation allows for retention of ground cover, nutrients, and soils



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Fencing

- Fencing prevents livestock from entering sensitive riparian areas



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Water Facility

- A water tank centered at the confluence of four pastures allows for rotational grazing



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Pasture Planting

- Utilization of native grasses allow for a more hearty ground cover reducing run-off of sediment and nutrients



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Range Planting

- Supplementing range cover prevents degradation of lands and soils



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Grassed Waterway

- Allow for the retention of sediment and nutrients within the crop area



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Riparian Buffer Strips

- Maintain vegetative cover near streambeds and drainages to reduce erosion and nutrient runoff into watershed



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Watershed Best Management Practices

- Implementation of structural or behavioral practices to reduce loadings of sediment or nutrients within the watershed
 - Channel

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Watershed BMP's

- Sediment Basins
- Channel Stabilization
- Streambank Protection
- Wetlands
- Grade Stabilization

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Sediment Basins

- Sediment basins allow for the collection of sediments and prevent further flow into the watershed



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Channel Stabilization

- Stabilization structures reduced erosion and sedimentation of streams and channels



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Streambank Protection

- Vegetation or constructed mechanism to prevent streambanks from degradation



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Wetland Creation/Protection

- Wetlands within the watershed serve as natural filters of sediment and nutrients



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Grade Stabilization Structures

- Maintain structure of reservoir by preventing erosion of grades

