Testing Alternatives

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Context

- Model scenarios - testing alternatives technically
- Scenario 3 – land use
- Scenario 4 – brought in hydrology
- Looking to you for guidance
- Equivalent practices

Land Use

- Perennial vegetation
  - Increase to 20% of the watershed
  - Increase Chippewa to 30%
- Target areas near nickpoints, particularly in Blue Earth and Le Sueur

Cropping System

- Crop residue
  - 75 percent of row cropland with slopes greater than 3 percent use crop residue and cover crops
- Surface tile inlets eliminated
- Nutrient management - follow U of M fertilizer recommendations
- Manure management plans adjusted to nitrogen; full implementation of plans with setbacks from sensitive areas

Ravine management

- 30% reduction in sediment from ravines due to use of drop structures, etc.
- 40% reduction in Blue Earth and Le Sueur Watersheds

Upland Drainage Management

- Controlled drainage on crop land with < 1% slope (May 15- Sept 15)
- Two-stage ditch design
- Store half of the first two inches of runoff

Urban

- Wastewater Discharges - 1 mg/l TP for all mechanical facilities.
- Infiltrate the first inch of runoff from both impervious and pervious urban surfaces

Outcomes

- Opportunity to shape future watershed work
- Increased understanding
- Continued participation