

# Indiana FIELD OFFICE TECHNICAL GUIDE

## Section III Conservation Management Systems

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### Problem Checklist

One of the first steps in formulating a Resource Management System (RMS) is to identify all resource problems through a careful and thorough inventory of the planning area. The smallest planning area on which a RMS plan is developed is the Conservation Management Unit (CMU).

The following is an *example* Checklist of Resource Problems or Conditions. It is presented as an example of how this checklist might be used in preparing a Resource Management System plan for a client.

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#### Natural Resources Conservation Service

#### Checklist of Resource Problems or Conditions

County AnyCounty

Client Any Client Tract No. 23442

#### Soil Quality

Sheet/Rill Erosion; Ephemeral Gully Erosion; Classic Gully Erosion; Wind Erosion; Irrigation Induced Erosion; Mass Movement; Deposition; Streambank or Shoreline Erosion and Degradation; Phosphorous; Salinity; contaminants; Compaction; Tilth; Crusting; Infiltration; Organic Matter; Other

Concern <u>Sheet/Rill</u>	Extent <u>10T/Ac - 8T/Ac</u>	Field(s) <u>1 - 3</u>
Concern <u>Ephemeral</u>	Extent <u>10-15 visible</u>	Field(s) <u>1 - 3</u>
Concern _____	Extent _____	Field(s) _____

#### Soil Quantity

Conversion of Agricultural Lands to Non-Agricultural Uses; Other

Concern <u>N/A</u>	Extent _____	Field(s) _____
Concern _____	Extent _____	Field(s) _____
Concern _____	Extent _____	Field(s) _____

#### Water Quality (Surface Water)

**Nutrients; Pesticides; Sedimentation; Animal Waste; Salts; Loss of Riparian Vegetation; Loss of Wetlands; Streambank or Shoreline Erosion and Degradation; Water Temperature Extremes; Other**

Concern <u>Nutrients/Pesticides</u>	Extent <u>All Crop Fields</u>	Field(s) <u>1 - 3</u>
Concern _____	Extent _____	Field(s) _____
Concern _____	Extent _____	Field(s) _____

### **Water Quality (Ground Water)**

**Nutrients; Pesticides; Animal Waste; Salts; Loss of Wetlands; Other**

Concern <u>N/A</u>	Extent _____	Field(s) _____
Concern _____	Extent _____	Field(s) _____
Concern _____	Extent _____	Field(s) _____

### **Water Quantity**

**Declining Water Tables; Insufficient Supply for Irrigation, Communities / Individuals, Livestock, Fish and/or Wildlife; Loss of Wetlands; Flooding / Excess Surface Water; Excess Subsurface Water; Other**

Concern <u>N/A</u>	Extent _____	Field(s) _____
Concern _____	Extent _____	Field(s) _____
Concern _____	Extent _____	Field(s) _____

### **Air Quality**

**Particulate Pollution such as Smoke or Other Particulates; Excessive Wind Erosion; Chemical Drift; Odors; Other**

Concern <u>N/A</u>	Extent _____	Field(s) _____
Concern _____	Extent _____	Field(s) _____
Concern _____	Extent _____	Field(s) _____

### **Plants**

**Invasion of Woody Vegetation or Noxious Weeds; Loss of Plant Diversity; Threatened or Endangered Species; Loss or Degradation of Riparian Vegetation; Plants not Adapted to the Site; Pest Infestation; Deforestation; Other**

Concern <u>N/A</u>	Extent _____	Field(s) _____
Concern _____	Extent _____	Field(s) _____
Concern _____	Extent _____	Field(s) _____

### **Animals - Wetlands**

**Impaired Water Quality from Agricultural or Non-Agricultural Sources; Loss of Wetlands / Loss of Adjacent Habitat; Loss of Plant Diversity; Threatened or Endangered Species; Sedimentation of Basins; Significant Hydrological Modification; Health; Other**

Concern_N/A_____	Extent_____	Field(s)_____
Concern_____	Extent_____	Field(s)_____
Concern_____	Extent_____	Field(s)_____

**Animals - Habitat Quality**

**Invasion of Non-Indigenous Plant or Animal Species; Loss or Fragmentation of Habitat; Inadequate Water Sources; Loss or Degradation of Forest, Grass Cover, or Riparian Habitat; Eutrophication of a Water Body; Water Temperature Extremes; Acid Rain; Other**

Concern_Grass Cover_____	Extent_Poor/Weak Stand_____	Field(s)_2_____
Concern_____	Extent_____	Field(s)_____
Concern_____	Extent_____	Field(s)_____

**Animals - Population**

**Loss of Diversity; Threatened or Endangered Species; Population Imbalance; Accumulation of Toxins; Health; Other**

Concern_N/A_____	Extent_____	Field(s)_____
Concern_____	Extent_____	Field(s)_____
Concern_____	Extent_____	Field(s)_____

**Human - Economics**

**Land; Labor; Capital; Management Level; Risk; Profitability; Other**

Concern_N/A_____	Extent_____	Field(s)_____
Concern_____	Extent_____	Field(s)_____
Concern_____	Extent_____	Field(s)_____

**Human - Social**

**Cultural Resources; Client Characteristics; Community Characteristics; Other**

Concern_N/A_____	Extent_____	Field(s)_____
Concern_____	Extent_____	Field(s)_____
Concern_____	Extent_____	Field(s)_____

Notes: Current system is corn-soybean rotation with fall chisel (4"twisted shanks). Estimated residue on soil surface after planting is less than 20 percent. Current fertility program aims for 200 bu. corn and 50 bu. beans. Records show yields around 150 bu corn and 35/40 bu beans. Soils have slow percolation

rates, ground water concerns may need further investigation. Ephemeral gullies begin approximately 120 feet from top of slope. Pasture field (2) has poor stand of vegetation, little to no fertility program for this field. Client expressed interest in rotation grazing system.