

Conservation Systems 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 a checklist of resource problems or conditions that can be used to identify all resource problems on a tract.

TABLE-2, RESOURCE CONCERNS PROBLEM CHECKLIST

Name: _____ Land use: _____
 Field: _____ Tract: _____
 Date: _____ By: _____

	1 Resource Concern Identification		2 Objectives
	Yes	No	(Narrative Statements)
A. SOIL			
1. Erosion			
a. Sheet & Rill			
b. Wind			
c. Ephemeral Gully			
d. Classic Gully			
e. Streambank			
f. Scour			
g. Shoreline			
h. Irrigation-Induced			
i. Mass Movement			
j. Road, road sides and Construction Sites			
2. Condition			
a. Organic Matter Depletion			
b. Compaction			
c. Subsidence			
d. Contaminants – Salts and Other Chemicals			
e. Damage from Sediment Deposition			
f. Contaminants – Animal Waste and Other Organics - N			
g. Contaminants – Animal Waste and Other Organics - P			
h. Contaminants – Animal Waste and Other Organics - K			

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Resource Management Systems - 2

	1 Resource Concern Identification		2 Objectives
	Yes	No	(Narrative Statements)
i. Contaminants - Commercial Fertilizer - N			
j. Contaminants - Commercial Fertilizer - P			
k. Contaminants - Commercial Fertilizer - K			
l. Contaminants - Residual Pesticides			
B. WATER			
1. Quantity			
a. Excessive seepage			
b. Excessive runoff, flooding, or ponding			
c. Excessive subsurface water			
d. Drifted snow			
e. Inadequate outlets			
f. Inefficient water use on irrigated land			
g. Inefficient water use on non-irrigated land			
h. Reduced capacity of conveyances by sediment deposition			
i. Reduced storage of water bodies by sediment accumulation			
j. Aquifer overdraft			
k. Insufficient flows in water - courses			
2. Quality			
a. Harmful levels of pesticides in groundwater			
b. Excessive nutrients and organics in groundwater			
c. Excessive salinity in groundwater			

	1 Resource Concern Identification		2 Objectives
	Yes	No	(Narrative Statements)
d. Harmful levels of heavy metals in groundwater			
e. Harmful levels of pathogens in groundwater			
f. Harmful levels of petroleum in groundwater			
g. Harmful levels of pesticides in surface water			
h. Excessive nutrients and organics in surface water			
i. Excessive suspended sediment and turbidity in surface water			
j. Excessive salinity in surface water			
k. Harmful levels of heavy metals in surface water			
l. Harmful temperatures of surface water			
m. Harmful levels of pathogens in surface water			
n. Harmful levels of petroleum in surface water			
C. AIR			
1. Air Quality			
a. Particulate matter less than 10 micrometers in diameter (PM 10)			
b. Particulate matter less than 2.5 micrometers in diameter (PM 2.5)			
c. Excessive Ozone			
d. Excessive Greenhouse Gas Co ₂ (carbon dioxide)			
e. Excessive Greenhouse Gas N ₂ O (nitrous oxide)			
f. Excessive Greenhouse Gas CH ₄ (methane)			
g. Ammonia (NH ₃)			
h. Chemical Drift			
i. Objectionable Odors			
j. Reduced Visibility			
k. Undesirable Air Movement			
l. Adverse Air Temperature			

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Resource Management Systems - 4

	1 Resource Concern Identification		2 Objectives
	Yes	No	(Narrative Statements)
D. PLANTS			
1. Plant management			
a. Plants not adapted or suited			
2. Condition			
a. Productivity, Health and Vigor			
b. Threatened or Endangered Plant Species listed or proposed listed under the Endangered Species Act			
c. Illinois Threatened or Endangered plant species, declining plant species, or species of concern			
d. Noxious and Invasive Plants			
e. Forage Quality and Palatability			
f. Wildfire Hazard			
E. ANIMALS			
1. Fish and Wildlife			
a. Inadequate Food			
b. Inadequate Cover/Shelter			
c. Inadequate Water			
d. Inadequate Space			
e. Habitat Fragmentation			
f. Imbalance Among and Within Populations			
g. Threatened or Endangered Species listed or proposed listed under the Endangered Species Act			
h. Illinois Threatened or Endangered fish/wildlife species, declining species, or species of concern			
2. Domestic Animals			
a. Inadequate Quantities and Quality of Feed and Forage			
b. Inadequate Shelter			
c. Inadequate Stock Water			
d. Stress and Mortality			

	1 Resource Concern Identification		2 Objectives
	Yes	No	(Narrative Statements)
F. HUMANS			
1. Economic			
a. Cost effectiveness			
b. Financial condition			
c. Markets			
d. Input Level-availability of skills, labor, land, and materials			
e. Sustainability-maintain or keep in existence			
2. Social			
a. Health & Safety			
b. Values			
c. Client Characteristics			
d. Risk Tolerance/Aversion			
e. Tenure			
f. Aesthetics			
3. Cultural			
a. Absence or Presence			
b. Significance			
c. Effects of Alternatives			