WHAT IS THE RESOURCE CONCERN????

• State the Facts
• Get enough information to define a benchmark condition
• Provide information on SWAPAE + H (Soil, Water, Air, Plants, Animals, Energy + Humans)
• Use section III for guidance on the resource concern and always ground it in the practice standard

(Example: Access Road. Client wants a recreational trail for snowmobiles & cross country skiers)

IS this a resource concern that matches the practice standard?

ACCESS ROAD 560

DEFINITION
An access road is an established route for equipment and vehicles.

PURPOSE
An access road is used to provide a fixed route for vehicular travel for resource activities involving the management of timber, livestock, agriculture, wildlife habitat, and other conservation enterprises.
## Access Control

The temporary or permanent exclusion of animals, people, vehicles, and/or equipment from an area.

<table>
<thead>
<tr>
<th>Soil Erosion</th>
<th>Effect</th>
<th>Rationale</th>
</tr>
</thead>
<tbody>
<tr>
<td>Soil Erosion - Sheet and Rill Erosion</td>
<td>3</td>
<td>Control of animals, people and vehicles reduces disturbance of soil and vegetation.</td>
</tr>
<tr>
<td>Soil Erosion - Wind Erosion</td>
<td>1</td>
<td>Control of animals, people and vehicles reduces disturbance of soil and vegetation.</td>
</tr>
<tr>
<td>Soil Erosion - Ephemeral Gully Erosion</td>
<td>4</td>
<td>Control of animals, people and vehicles reduces disturbance of soil and vegetation.</td>
</tr>
<tr>
<td>Soil Erosion - Classic Gully Erosion</td>
<td>4</td>
<td>Control of animals, people and vehicles reduces disturbance of soil and vegetation.</td>
</tr>
<tr>
<td>Soil Erosion - Streambank, Shoreline, Water Conveyance</td>
<td>4</td>
<td>Control of animals, people and vehicles reduces disturbance of soil and vegetation.</td>
</tr>
</tbody>
</table>

### Soil Quality Degradation

<table>
<thead>
<tr>
<th>Soil Quality Degradation</th>
<th>Effect</th>
<th>Rationale</th>
</tr>
</thead>
<tbody>
<tr>
<td>Organic Matter Depletion</td>
<td>1</td>
<td>Control of animals, people and vehicles help maintain conditions of soil and vegetation.</td>
</tr>
<tr>
<td>Compaction</td>
<td>4</td>
<td>Control of animals, people and vehicles lessens compactive forces on soil.</td>
</tr>
<tr>
<td>Subsidence</td>
<td>0</td>
<td>Not Applicable</td>
</tr>
<tr>
<td>Concentration of Salts or Other Chemicals</td>
<td>0</td>
<td>Control of animals, people and vehicles will influence plant growth and alter infiltration and leaching to a limited degree.</td>
</tr>
</tbody>
</table>
Document Benchmark condition

- Current Crops management
- Current Technology and management levels
- Current Livestock production and management
- Current Equipment available
STEP 3.......Inventory Resources

Policy: Title 180 National Planning Procedures Handbook 600.23

Objectives:
• Identify existing or potential resource concerns
• Clarify the resource concerns
• Formulate and evaluate alternatives
• Information gathering—human-operation and management

Products:
• Resource Inventory & Human Considerations
• Cultural Resources, Threatened & Endangered Species
• Soil investigations
• Powerlines, hydrology, property lines, roads
• Benchline practices
Inventory:
1). Landowner’s knowledge
2). Objectives
3). Imagery
4). Inventory Tools & Procedures
5). HEL inventory, Soils, Topography
6). Area Plans
7). Previous resource inventories
8). Field Observations & measurements
9). FOTG Section I, II, III, IV
INVENTORY:

- What are the upland treatments in the watershed?
- What are the managements occurring in the watershed....R2 data sheet
Define Existing Resource Concern

Include what the future resource concern be if this is not treated...
Class Example: Resource inventory of Concentrated Flow- Classic Gully Erosion

• Identify the gully on the map
• Investigate the source of the problem
• Define the extent of the problem
• Quantify the problem...

Erosion Formula:

Depth * top width * bottom width * length * Years to form (Example soil loss)

1.0 x 10 + 2/2 x 600 x 80#/ft3/2000#/ton X ½ years = channel soil loss 72 T/yr
<table>
<thead>
<tr>
<th>EXAMPLE 1:</th>
<th>EXAMPLE 2:</th>
<th>EXAMPLE: 3</th>
</tr>
</thead>
<tbody>
<tr>
<td>Repair erosion problem on field 12.</td>
<td>Resolve 73 Ton/year soil loss from gully as outlined on plan map.</td>
<td>10 ft deep gully moving 8 ft/year (73 T annual soil loss). Outlet is not stable. Moving into crop field as noted on plan map.</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Pasture needs reseeding</td>
<td>Pasture is predominantly C. Thistle. Improvement needed.</td>
<td>200 AU, no rotation on 60 acres of pasture. No perennial grass, predom of C. Thistle. Herd can be split &amp; landowner Joe is open to rotational grazing.</td>
</tr>
</tbody>
</table>
## Step 1: Identify Problems

## Step 2: Determine Objectives

## Step 3: Inventory Resources

## Step 4: Analyze Resource Data

## Step 5: Formulate Alternatives

## Step 6: Evaluate Alternatives