

Resource Concerns/Considerations

Field Inventory Guide Sheet

Client/Plan Information

Identify the resource concern(s) that need to be addressed and the assessment tool(s) used for the evaluation.

Soil	<p>Erosion</p> <ul style="list-style-type: none"> Sheet and rill erosion Ephemeral gully erosion Irrigation-induced erosion Classic gully erosion Road, road sides & construction erosion Streambank erosion <p>Assessment tools, problems and notes:</p>	<p>Condition</p> <ul style="list-style-type: none"> Organic matter depletion Compaction Damage from sediment deposition Contaminants - residual pesticides Contaminants - animal wastes & other organics - N Contaminants - commercial fertilizer - N
Water	<p>Quantity</p> <ul style="list-style-type: none"> Excessive runoff, flooding or ponding Excessive seepage Excessive subsurface water Inadequate outlets Inefficient water use on irrigated land Insufficient flows in water courses Reduced capacity of conveyances by sediment deposition Reduced storage of water bodies by sediment accumulation <p>Assessment tools, problems and notes:</p>	<p>Quality</p> <ul style="list-style-type: none"> Excessive nutrients and organics in surface water Excessive nutrients and organics in ground water Excessive suspended sediment & turbidity in surface water or groundwater Harmful levels of pathogens in surface water or groundwater Harmful levels of pesticides in surface water or groundwater Harmful temperatures in surface water
Air	<p>Quality</p> <ul style="list-style-type: none"> Adverse air temperature Ammonia (NH₃) Chemical drift Excessive greenhouse gas - CH₄ (methane) Excessive greenhouse gas - CO₂ (carbon dioxide) <p>Assessment tools, problems and notes:</p>	<ul style="list-style-type: none"> Objectionable odors Reduced visibility Undesirable air movement Excessive greenhouse gas - N₂O (nitrous oxide) Excessive O₃ (ozone)

Plants

Condition

Forage quality and palatability
Noxious and invasive plants
Plants not adapted or suited
Productivity, health and vigor

T&E species: declining species, species of concern
T&E species: threatened or endangered plant species
Wildfire hazard

Assessment tools, problems and notes:

Animals

Fish and Wildlife

Habitat fragmentation
Imbalance among and within populations
Inadequate water
Inadequate cover/shelter
Inadequate food
Inadequate space
State-level T&E species and special concern species, priority habitats
Federal T&E or candidate/proposed species and critical habitats

Domestic Animals

Inadequate quantities and quality of feed and forage
Inadequate stock water
Inadequate shelter
Stress and mortality

Assessment tools, problems and notes:

Energy

Inefficient Energy Use - equipment & facilities
Inefficient Energy Use - farming/ranching practices and field operations

Assessment tools, problems and notes:

Land use: refers to how the land is used (cropland, forestland, pastureland, etc.) Any change in land use should be considered. Some example considerations include:

Is the present land use suitable for the proposed practice?

Will land use change after practice installation?

How will a land use change affect the operation?

Will the action affect land resources on which people depend for subsistence, employment or recreation?

Assessment tools, problems and notes:

Capital: is defined as cash, savings and investment in livestock, machinery, buildings and land. Capital represents the land owner's ability to pay for farm improvements. Some example considerations include:

Does the client have the funds or ability to obtain the funds needed to implement the practice?

What are the costs of the initial investment for the selected alternative?

Does the client have adequate machinery to implement the practice?

Assessment tools, problems and notes:

Management Level: measures the land user's knowledge, skills and ability to operate the proposed change with the conservation system. Some example considerations include:

Are there specific and complex requirements regarding timing and placement of inputs?

Does the client understand the inputs needed to manage the practice(s) and their responsibility in obtaining these inputs?

Does the client understand their responsibility to maintain the practice(s) as planned and implemented?

Assessment tools, problems and notes:

Labor: represents the landowner's ability to work or hire workers. Changes in labor requirements for applied practices should be identified. Some example considerations include:

Does the client understand the amount and kind of labor needed to implement, operate and maintain the practice(s)?

Does the client have the time to carry out the practice(s) or will they have to hire someone?

Assessment tools, problems and notes:

Profitability: is defined as the rate of return to resources and assets owned and managed by the farm operation. Some example considerations include:

Will there be a significant change in costs of production, yield, or quality of crops?

Do the economic benefits of installing the practice(s) exceed the installation and maintenance costs?

Is there a reasonable expectation of long-term profitability for the operation if the alternative is implemented?

Assessment tools, problems and notes:

Risk: is defined as the exposure to monetary loss, physical injury, change in management or uncertainty associated with the proposed conservation system. Some example considerations include:

Is there a chance of a major reduction in income or increase in costs?

Are yields or quality expected to become more consistent over time?

Will this alternative reduce the chance of regulatory or other actions in the future?

Will the proposed practice(s) have a possible adverse impact on the community at large (off-site effects)?

What is the likelihood and impact of a practice failure (such as a dam or other structure)?

Assessment tools, problems and notes:

Social Issues: Social evaluation is a valuable planning tool because it identifies areas of potential conflict and options for decision making that might not otherwise be apparent. Some example considerations include:

What are the values of the client (ex., economic well-being, stewardship, self-reliance, community, efficiency, flexibility, fiscal responsibility, trust)?

What is the social climate of the community in which you are working? For example, how will the community view the conservation practices in the selected alternative?

Assessment tools, problems and notes:

Other Considerations for Human, Economic and Social Issues: