

# Checklist of Resource Concerns

## Pasture

<b>CLIENT</b>		<b>LOCATION</b>	
<b>PLANNER</b>		<b>DATE</b>	
<b>LAND UNITS</b>		<b>TOOLS</b>	

This check sheet is designed to assist planners and clients in identifying resource concerns during the planning process. The planning criteria outlined in Section III of the FOTG sets the minimum level of treatment. If a screening question is NO, this indicates no resource concern exists and no assessment is required. If a screening question is YES, the assessment must be completed to evaluate if there is a resource concern. For questions with no listed screening questions, move directly to the assessment. If the Assessment is YES, Planning Criteria is met. If the Assessment is NO, the Planning Criteria is not met and a Resource Concern exists.

Resource Concern  * required response	Screening Questions  NO = Met Screening (Not a RC)  YES = Go to Assessment			Assessment Tools	Assessment Level Required to Meet Planning Criteria  YES = Meets Planning Criteria NO = Identified Resource Concern		
		Y E S	N O			Y E S	N O
<b>SOILS RESOURCES</b>							
<b>1a.SOIL EROSION: Sheet and Rill erosion*</b>				➤ RUSLE2	Water erosion rate <=T		
<b>1b. SOIL EROSION: Wind erosion*</b>	Are permanent ground cover < 90% and slope > 10%?			➤ WEPS	Wind erosion rate <=T		
<b>2b.SOIL EROSION: Classic gully erosion *</b>	Are classic gullies present?			➤ Field measurements ➤ Observations	Is classic gully management adequate to stop the progression of head cutting and widening <b>and</b> are offsite impacts minimized by vegetation and/or structures?		
<b>3.SOIL EROSION: Excessive bank erosion from streams, shorelines or water conveyance channels*</b>	Are streams or shoreline on or adjacent to site?			➤ Pasture Condition Score	Bank erosion is it beyond the client's control or commensurate with normal geomorphological processes?  <b>AND</b>  PCS - streambank / shoreline erosion element score ≥ 4?		
<b>4. SOIL QUALITY DEGRADATION: Subsidence</b>	Are Histosol soils present?  <b>OR</b> Are there Histosols present exhibiting subsidence?			➤ Client input ➤ Planner observations	Is subsidence adequately managed to meet client's objectives?		
<b>5. SOIL QUALITY DEGRADATION: Compaction</b>	Is soil compaction a problem? <b>AND</b> Do activities cause soil compaction problems?			➤ Soil Quality Test Kit ➤ Observation of soil and plant condition ➤ Client input/planner observation	Is PCS – compaction element score ≥ 4?		

## Checklist of Resource Concerns

### Pasture

<b>6. SOIL QUALITY DEGRADATION: Organic matter depletion*</b>	Is permanent ground cover < 80%?		<ul style="list-style-type: none"> <li>➤ RUSLE2</li> <li>➤ WEPS</li> <li>➤ Pasture Condition Score</li> </ul>	SCI > 0  <b>OR</b>  Is PCS - plant cover element score ≥ 4?  <b>AND</b>  Is PCS - plant residue element score ≥ 4?	
<b>7. SOIL QUALITY DEGRADATION: Concentration of Salts or other chemicals</b>	Do activities cause salinity/sodicity problems?		<ul style="list-style-type: none"> <li>➤ Soil diagnostic evaluations</li> </ul>	Are conservation practices and managements in place to mitigate on-site effects?	
<b>WATER RESOURCES</b>					
<b>8a. EXCESS WATER: Ponding and Flooding</b>	Is ponding or flooding a problem? <b>AND</b> Do activities cause ponding/flooding problems?		<ul style="list-style-type: none"> <li>➤ Client Input</li> <li>➤ Planner Observations</li> </ul>	Is excess water managed to meet Client's objectives?	
<b>8b. EXCESS WATER: Seasonal high water table</b>	Does a seasonal high water table cause a problem?		<ul style="list-style-type: none"> <li>➤ Client Input</li> <li>➤ Planner Observations</li> </ul>	Is excess water managed to meet Client's objectives?	
<b>8c. EXCESS WATER: Seeps</b>	Does excess water from seeps cause a problem?		<ul style="list-style-type: none"> <li>➤ Client Input</li> <li>➤ Planner Observations</li> </ul>	Is excess water managed to meet Client's objectives?	
<b>8d. EXCESS WATER: Drifted snow</b>	Does drifted snow cause a problem?		<ul style="list-style-type: none"> <li>➤ Client Input</li> <li>➤ Planner Observations</li> </ul>	Is excess water managed to meet Client's objectives?	
<b>9. INSUFFICIENT WATER: Inefficient moisture management</b>	Is Moisture Management a problem? <b>AND</b> Do activities cause inefficient moisture management?		<ul style="list-style-type: none"> <li>➤ Pasture Condition Score</li> </ul>	Is PCS – compaction element score ≥ 4  <b>AND</b>  Is PCS - plant cover element score ≥ 4 ?	
<b>10. INSUFFICIENT WATER: Inefficient use of irrigation water *</b>	Is the PLU irrigated?		<ul style="list-style-type: none"> <li>➤ FIRI worksheet</li> </ul>	Is State established system type criteria?	
<b>11a. WATER QUALITY: Excess nutrients in surface water *</b>			<ul style="list-style-type: none"> <li>➤ Pasture Condition Score</li> <li>➤ Nutrient budget</li> </ul>	Is PCS - streambank / shoreline erosion element score ≥ 4?  <b>AND</b>  Is PCS - livestock concentration areas element score ≥ 4?  <b>AND</b>  Is Nutrients are applied and based on a soil test, tissue tests or nutrient budget?	

## Checklist of Resource Concerns

### Pasture

<b>11b. WATER QUALITY:</b> <i>Excess nutrients in groundwater*</i>			<ul style="list-style-type: none"> <li>➤ Pasture Condition Score</li> <li>➤ Nutrient budget</li> </ul>	Is PCS - streambank / shoreline erosion element score $\geq 4$ ? <b>AND</b> Is PCS - livestock concentration areas element score $\geq 4$ ? <b>AND</b> Is Nutrients are applied and based	
<b>12a. WATER QUALITY DEGRADATION:</b> <i>Pesticides transported to Surface waters</i>			<ul style="list-style-type: none"> <li>➤ Client input</li> <li>➤ Planner observation</li> <li>➤ WinPST</li> </ul>	Are pesticides stored, handled, disposed and managed to prevent runoff, spills, leaks and leaching? <b>AND</b> Are conservation practices and managements in place to minimize offsite impacts?	
<b>12b. WATER QUALITY DEGRADATION:</b> <i>Pesticides transported to Groundwaters</i>	Are pest control chemicals applied?		<ul style="list-style-type: none"> <li>➤ Client input</li> <li>➤ Planner observation</li> <li>➤ WinPST</li> </ul>	Are pesticides stored, handled, disposed and managed to prevent runoff, spills, leaks and leaching? <b>AND</b> Are conservation practices and managements in place to minimize offsite impacts?	
<b>13a. WATER QUALITY DEGRADATION:</b> <i>Pathogens, pharmaceuticals and Other Chemicals in Surface water*</i>			<ul style="list-style-type: none"> <li>➤ Client input</li> <li>➤ Planner observation</li> </ul>	Are organic materials applied, stored, and/or handled to mitigate negative impacts to water sources?	
<b>13b. WATER QUALITY DEGRADATION:</b> <i>Pathogens, pharmaceuticals and Other Chemicals in Groundwater*</i>	Are potential sources of pathogens or pharmaceuticals applied on the land?		<ul style="list-style-type: none"> <li>➤ Client input</li> <li>➤ Planner observation</li> </ul>	Are organic materials applied, stored, and/or handled to mitigate negative impacts to water sources?	
<b>14a. WATER QUALITY DEGRADATION:</b> <i>Excessive salts in Surface waters</i>	Is excess salt a problem?		<ul style="list-style-type: none"> <li>➤ Client input</li> <li>➤ Planner observation</li> </ul>	Are salt concentrations managed to mitigate off-site transport to surface waters?	
<b>14b. WATER QUALITY DEGRADATION:</b> <i>Excessive salts in Ground waters</i>	<b>OR</b> Do activities contribute to excess salt production?		<ul style="list-style-type: none"> <li>➤ Client input</li> <li>➤ Planner observation</li> </ul>	Are salt concentrations managed to mitigate off-site transport to groundwaters?	

Checklist of Resource Concerns

**Pasture**

Resource Concern  * required response	Screening Questions	Y E S	N O	Assessment Tools	Assessment Level Required to Meet Planning Criteria	Y E S	N O
	NO = Met Screening (Not a RC)  YES = Go to Assessment				YES = Meets Planning Criteria NO = Identified Resource Concern		
15a. WATER QUALITY DEGRADATION: <i>Petroleum and heavy metals and other pollutants transported to surface waters</i>	Do activities present the potential for contamination?	<input type="checkbox"/>	<input type="checkbox"/>	<ul style="list-style-type: none"> <li>➤ Client input</li> <li>➤ Planner observation</li> </ul>	Are petroleum, heavy metals or other potential pollutants stored and handled to avoid runoff or leaching?	<input type="checkbox"/>	<input type="checkbox"/>
		15b. WATER QUALITY DEGRADATION: <i>Petroleum and heavy metals and other pollutants transported to groundwater</i>	<input type="checkbox"/>	<input type="checkbox"/>	<ul style="list-style-type: none"> <li>➤ Client input</li> <li>➤ Planner observation</li> </ul>	Are petroleum, heavy metals or other potential pollutants stored and handled to avoid runoff or leaching?	<input type="checkbox"/>
16. WATER QUALITY DEGRADATION: <i>Excessive sediment in surface waters*</i>	<p>Are permanent ground cover &lt; 90% and slope &gt; 10%?</p> <p><b>AND</b></p> <p>Are classic gullies present?</p> <p><b>AND</b></p> <p>Are streams or shoreline on or adjacent to site?</p>	<input type="checkbox"/>	<input type="checkbox"/>	<ul style="list-style-type: none"> <li>➤ Client input</li> <li>➤ Planner observation</li> <li>➤ RUSLE2</li> <li>➤ SVAP2</li> <li>➤ WEPS</li> </ul>	<p>Do upslope treatment and buffer practices address concentrated flows to water bodies?</p> <p><b>AND</b></p> <p>SVAP2 - bank condition ≥ 5.</p> <p><b>AND</b></p> <p>Are livestock and vehicle water crossings stable?</p> <p><b>AND</b></p> <p>Is water erosion rate ≤ T?</p> <p><b>AND</b></p> <p>Is wind erosion rate ≤ T?</p>	<input type="checkbox"/>	<input type="checkbox"/>
17. WATER QUALITY DEGRADATION: <i>Elevated water temperature</i>	<p>Is there a water course on or adjacent to the site with State Agency identified temperature impairment?</p> <p><b>AND</b></p> <p>Is water course temperature a client concern?</p>	<input type="checkbox"/>	<input type="checkbox"/>	<ul style="list-style-type: none"> <li>➤ Client input</li> <li>➤ Planner observation</li> <li>➤ SVAP2</li> </ul>	<p>Is SVAP2 - riparian area quality element score ≥ 5?</p> <p><b>AND</b></p> <p>Is SVAP2 - riparian area quantity quality element score ≥ 5?</p> <p><b>AND</b></p> <p>Is SVAP2 - canopy cover element score ≥ 6?</p>	<input type="checkbox"/>	<input type="checkbox"/>
					<p><b>OR</b></p> <p>Are existing practices in place to address water temperature?</p>	<input type="checkbox"/>	<input type="checkbox"/>

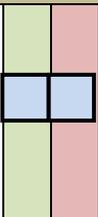
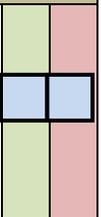
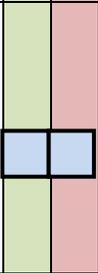
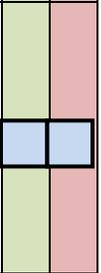
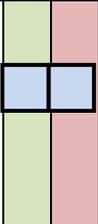
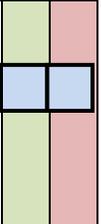
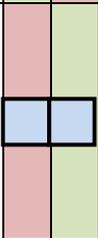
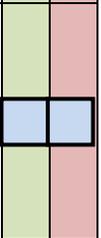
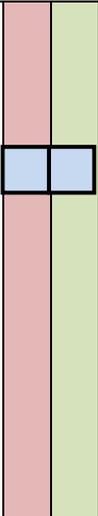
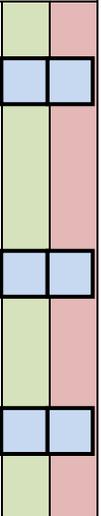
Checklist of Resource Concerns

**Pasture**

AIR RESOURCES					
<p><b>18. AIR QUALITY IMPACTS - Emissions of Particulate Matter - PM - and PM Precursors</b></p>	<p>Have episodes or complaints of emissions of PM (dust, smoke, exhaust, etc.), or chemical drift occurred?</p> <p><b>AND</b></p> <p>Do activities contribute to agricultural source PM or PM precursor emissions?</p>	<p><input type="checkbox"/></p> <p><input type="checkbox"/></p>	<ul style="list-style-type: none"> <li>➤ Client input</li> <li>➤ Planner observation</li> </ul>	<p>Are PM and PM Precursor emissions managed to meet client objectives?</p>	<p><input type="checkbox"/></p> <p><input type="checkbox"/></p>
<p><b>19. AIR QUALITY IMPACTS - Emissions of Greenhouse Gases - GHGs</b></p>	<p>Are GHGs regulated in this planning area?</p> <p><b>AND</b></p> <p>Do activities produce GHGs emissions?</p>	<p><input type="checkbox"/></p> <p><input type="checkbox"/></p>	<ul style="list-style-type: none"> <li>➤ Client input</li> <li>➤ Planner observation</li> </ul>	<p>Are greenhouse gas emissions managed to meet client objectives?</p>	<p><input type="checkbox"/></p> <p><input type="checkbox"/></p>
<p><b>20. AIR QUALITY IMPACTS - Emissions of Ozone Precursors</b></p>	<p>Do operations produce ozone precursor emissions?</p>	<p><input type="checkbox"/></p> <p><input type="checkbox"/></p>	<ul style="list-style-type: none"> <li>➤ Client input</li> <li>➤ Planner observation</li> </ul>	<p>Are ozone precursor emissions are managed to meet client objectives?</p>	<p><input type="checkbox"/></p> <p><input type="checkbox"/></p>
<p><b>21. AIR QUALITY IMPACTS - Objectionable odors</b></p>	<p>Do activities contribute to odor nuisance air quality conditions?</p> <p><b>AND</b></p> <p>Are odor sources regulated in this planning area?</p> <p><b>AND</b></p> <p>Have odor episodes or complaints of odor nuisance occurred?</p>	<p><input type="checkbox"/></p> <p><input type="checkbox"/></p>	<ul style="list-style-type: none"> <li>➤ Client input</li> <li>➤ Planner observation</li> </ul>	<p>Are odors managed to meet client objectives?</p>	<p><input type="checkbox"/></p> <p><input type="checkbox"/></p>

Checklist of Resource Concerns

**Pasture**

Plant Resources					
<p><b>22. DEGRADED PLANT CONDITION: <i>Undesirable plant productivity and health</i></b></p>			<ul style="list-style-type: none"> <li>➤ Client input</li> <li>➤ Pasture Condition Score</li> </ul>	<p>Is PCS <math>\geq 30</math> or above</p> <p><b>AND</b></p> <p>Are plants adapted to the site, meet production goals and do not negatively impact other resources</p>	
<p><b>23. DEGRADED PLANT CONDITION – <i>Inadequate structure and composition</i></b></p>	<p>Will changes to the plant community structure or composition better support the desired ecological functions and intended land use?</p>		<ul style="list-style-type: none"> <li>➤ Client input</li> <li>➤ Planner observation</li> <li>➤ Forage Suitability Groups</li> </ul>	<p>Do Plant communities contain adequate diversity, composition and structure to support desired ecological functions?</p>	
<p><b>24. DEGRADED PLANT CONDITION: <i>Excessive plant pest pressure</i></b></p>	<p>Is plant productivity limited from pest pressure?</p>		<ul style="list-style-type: none"> <li>➤ Client input</li> <li>➤ Planner observation</li> <li>➤ Pasture Condition Score</li> </ul>	<p>Is PCS - insect and disease pressure element score <math>\geq 4</math></p> <p><b>AND</b></p> <p>Is PCS - site adaptation element score <math>\geq 4</math>?</p>	
<p><b>25. DEGRADED PLANT CONDITION: <i>Wildfire hazard, excessive biomass accumulation</i></b></p>	<p>Is wildfire hazard a concern?</p>		<ul style="list-style-type: none"> <li>➤ Client input</li> <li>➤ Planner observation</li> </ul>	<p>Are fuel loads and fuel ladders managed to provide defensible space and meet client objectives?</p>	
ANIMAL RESOURCES					
<p><b>26a. INADEQUATE HABITAT FOR FISH AND WILDLIFE – <i>Quantity, quality of food is inadequate to meet requirements of identified fish, wildlife or invertebrate species</i></b></p>	<p>Is PLU managed for wildlife?</p>		<ul style="list-style-type: none"> <li>➤ Species-specific wildlife habitat assessment tools</li> <li>➤ SVAP2</li> <li>➤ Generalized WHS Index finalized by States, and detailed models by selected species and habitat type</li> </ul>	<p>WHSI rating <math>\geq 0.5</math></p> <p><b>AND</b> (when surface stream present)</p> <p>SVAP2 – fish habitat complexity element score <math>\geq 7</math></p> <p><b>AND</b></p> <p>SVAP2 – aquatic invertebrate habitat element score <math>\geq 7</math></p> <p><b>OR</b></p> <p>Are conservation practices and management are in place that meet or exceed species or guild-specific habitat model thresholds?</p> <p><b>OR</b></p> <p>Is food available in quality and extent to support habitat requirements for the species of interest?</p>	

Checklist of Resource Concerns

**Pasture**

<p>26b. <b>INADEQUATE HABITAT FOR FISH AND WILDLIFE – Quantity, quality of water is inadequate to meet requirements of identified fish, wildlife or invertebrate species</b></p>	<p>Is PLU managed for wildlife?</p>		<ul style="list-style-type: none"> <li>➤ Species-specific wildlife habitat assessment tools</li> <li>➤ SVAP2</li> <li>➤ Generalized WHS Index finalized by States, and detailed models by selected species and habitat type</li> </ul>	<p>WHSI rating <math>\geq 0.5</math>  <b>AND</b> (when surface stream present)                  SVAP2 – fish habitat complexity element score <math>\geq 7</math>  <b>AND</b>                  SVAP2 – aquatic invertebrate habitat element score <math>\geq 7</math>  <b>OR</b>                  Are conservation practices and management are in place that meet or exceed species or guild-specific habitat model thresholds?  <b>OR</b>                  Is water available in quality and extent to support habitat requirements for the species of interest?</p>	
<p>26c. <b>INADEQUATE HABITAT FOR FISH AND WILDLIFE – Quantity, quality or cover/shelter is inadequate to meet requirements of identified fish, wildlife or invertebrate species</b></p>	<p>Is PLU managed for wildlife?</p>		<ul style="list-style-type: none"> <li>➤ Species-specific wildlife habitat assessment tools</li> <li>➤ SVAP2</li> <li>➤ Generalized WHS Index finalized by States, and detailed models by selected species and habitat type</li> </ul>	<p>WHSI rating <math>\geq 0.5</math>  <b>AND</b> (when surface stream present)                  SVAP2 – fish habitat complexity element score <math>\geq 7</math>  <b>AND</b>                  SVAP2 – aquatic invertebrate habitat element score <math>\geq 7</math>  <b>OR</b>                  Are conservation practices and management are in place that meet or exceed species or guild-specific habitat model thresholds?  <b>OR</b>                  Are Space and cover available in quality and extent to support habitat requirements for the species of interest?</p>	
<p>26d. <b>INADEQUATE HABITAT FOR FISH AND WILDLIFE – Habitat continuity is inadequate to meet requirements of identified fish, wildlife or invertebrate species</b></p>	<p>Is PLU managed for wildlife? (Wildlife Modifier)</p>		<ul style="list-style-type: none"> <li>➤ Species-specific wildlife habitat assessment tools</li> <li>➤ SVAP2</li> <li>➤ Generalized WHS Index finalized by States, and detailed models by selected species and habitat type</li> </ul>	<p>WHSI rating <math>\geq 0.5</math>  <b>AND</b> (when surface stream present)                  SVAP2 – fish habitat complexity element score <math>\geq 7</math>  <b>AND</b>                  SVAP2 – aquatic invertebrate habitat element score <math>\geq 7</math>  <b>OR</b>                  Are conservation practices and management are in place that meet or exceed species or guild-specific habitat model thresholds?  <b>OR</b>                  Is connectivity of habitat components are adequate to support stable populations of targeted species?</p>	

Checklist of Resource Concerns

**Pasture**

<p><b>27. LIVESTOCK PRODUCTION LIMITATION: <u>Inadequate feed and forage*</u></b></p>			<ul style="list-style-type: none"> <li>➤ Client input</li> <li>➤ Planner observation</li> </ul>	<p>Are livestock forage, roughage and supplemental nutritional requirements addressed?</p>	
<p><b>28. LIVESTOCK PRODUCTION LIMITATION: <u>Inadequate livestock shelter*</u></b></p>			<ul style="list-style-type: none"> <li>➤ Client input</li> <li>➤ Planner observation</li> </ul>	<p>Do artificial or natural shelters meet animal health needs and client objectives?</p>	
<p><b>29. LIVESTOCK PRODUCTION LIMITATION: <u>Inadequate livestock water*</u></b></p>			<ul style="list-style-type: none"> <li>➤ Client input</li> <li>➤ Planner observation</li> </ul>	<p>Is water of acceptable quality and quantity adequately distributed to meet animal needs?</p>	
<p><b>Energy Resources</b></p>					
<p><b>30. INEFFICIENT ENERGY USE – <i>Equipment and facilities</i></b></p>	<p>Is the Client interested in improving equipment and facilities energy efficiency?</p>		<ul style="list-style-type: none"> <li>➤ Client input</li> <li>➤ Planner observation</li> <li>➤ NRCS Energy Estimator</li> <li>➤ USDA approved Energy Audit</li> </ul>	<p>Has a USDA approved energy audit been implemented that address equipment and facilities to meet client objectives?</p> <p style="text-align: center;">OR</p> <p>Are on- farm renewable energy and/or energy conserving practices been implemented to meet client objectives?</p>	
<p><b>31. INEFFICIENT ENERGY USE – <i>Farming and ranching practices and field operations</i></b></p>	<p>Is Client interested in improving energy use in farm and ranch field operations?</p>		<ul style="list-style-type: none"> <li>➤ Client input</li> <li>➤ Planner observation</li> <li>➤ NRCS Energy Estimator</li> <li>➤ USDA approved Energy Audit</li> <li>➤ Conservation on the Farm Checklist</li> </ul>	<p>Has a USDA approved energy audit been implemented that address equipment and facilities to meet client objectives?</p> <p style="text-align: center;">OR</p> <p>Are on- farm renewable energy and/or energy conserving practices been implemented to meet client objectives?</p>	

Checklist of Resource Concerns

**Pasture**

*Technical Assistance Notes*
