

## Checklist of Resource Concerns

# FARMSTEAD - OTHER

<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. 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 (location of tool)	Assessment Level Required to Meet Planning Criteria  YES = Meets Planning Criteria NO = Resource Concern		
		Y E S	N O			Y E S	N O
<b>SOIL RESOURCES</b>							
<b>1. SOIL EROSION: Sheet, rill and wind *</b>	Are permanent ground cover < 90% and slope > 10%?			➤ RUSLE2 (user machine)	Water erosion rate ≤T?		
				➤ WEPS (user machine)	Wind erosion rate ≤T?		
				➤ Visual inspection	Is the site stable and without visible signs of erosion?		
<b>2. SOIL EROSION: Concentrated flow erosion *</b>	Are classic gullies present?			➤ Field measurements ➤ Observations	Is classic gully management adequate to stop the progression of head cutting and widening and 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?			➤ SVAP2 (National Biology Handbook, Part 614)	For shorelines and water conveyance channels; are banks stable or commensurate with normal geomorphological processes? <b>AND</b> If bank erosion is present, is it beyond the client's control or commensurate with normal geomorphological processes? <b>AND</b> For streambanks; SVAP2 bank condition element score ≥ 5?		
	<b>OR</b> Is bank erosion from streams, shorelines or conveyance channels present?						
<b>4. SOIL QUALITY DEGRADATION: Subsidence</b>	Are Histisol soils present?			➤ Client input ➤ Planner observations	Is subsidence adequately managed to meet client's objectives?		
	<b>OR</b> Are there Histisols present exhibiting subsidence?						
<b>5. SOIL QUALITY DEGRADATION: Compaction</b>	Is soil compaction a problem? <b>AND</b> Do activities cause soil compaction problems?			➤ Observation of soil and/or plant condition ➤ Client input ➤ Planner observations	Is compaction managed to meet Client's production and management objectives?		
<b>6. SOIL QUALITY DEGRADATION: Organic matter depletion</b>	Not applicable				Not applicable		
<b>7. SOIL QUALITY DEGRADATION: Concentration of Salts or other chemicals</b>	Do activities cause salinity/sodicity problems?			Soil diagnostic evaluations (EC Meter, Area Resource Soil Scientist; Sodium Absorption Ratio Test, Soil Lab)	Are conservation practices and managements in place to mitigate on-site effects?		

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<b>WATER RESOURCES</b>							
<b>8. EXCESS WATER: Ponding, flooding, seasonal high water table, seeps and drifted snow</b>	Is excess water 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>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>➤ Client input</li> <li>➤ Planner Observations</li> </ul>	Are runoff and evapotranspiration levels minimized to meet Client's management objectives?		
<b>10. INSUFFICIENT WATER: Inefficient use of irrigation water *</b>	Is the PLU irrigated?			<ul style="list-style-type: none"> <li>➤ FIRI-Farm Irrigation Rating Index (eFOTG/ Section I/Tools &amp; Forms/ Tools)</li> </ul>	Is the minimum FIRI index value: ≥ 30 for uncontrolled flood? ≥ 40 for contour ditch? ≥ 50 for furrow or corrugation irrigation? ≥ 55 for border irrigation? ≥ 50 for big gun sprinkler? ≥ 55 for periodic move sprinkler? ≥ 65 for center pivot sprinkler? ≥ 65 for lateral move sprinkler? ≥ 75 for micro irrigation?		
<b>11. WATER QUALITY DEGRADATION: Excess nutrients in surface and groundwater *</b>	Are organic or inorganic nutrients applied? <b>AND</b> Is the PLU grazed? <b>AND</b> Are there confined livestock areas?			<ul style="list-style-type: none"> <li>➤ Nutrient budget (WY-ECS-44)</li> <li>➤ Client input</li> <li>➤ Planner observations</li> </ul>	Are surface water and groundwater protected from contamination due to runoff and leaching from storage sites, spills, and other concentrated sources? <b>AND</b> Are conservation practices and managements in place to minimize surface water and groundwater impacts?		
<b>12. WATER QUALITY DEGRADATION: Pesticides transported to surface and groundwaters</b>	Are pest control chemicals applied?			<ul style="list-style-type: none"> <li>➤ Client input</li> <li>➤ Planner observations</li> <li>➤ WinPST (user machine)</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 surface water and groundwater impacts?		
<b>13. WATER QUALITY DEGRADATION: Excess pathogens and chemicals from manure, biosolids or compost applications*</b>	Are potential sources of pathogens or pharmaceuticals applied on the land?			<ul style="list-style-type: none"> <li>➤ Client input</li> <li>➤ Planner observations</li> </ul>	Are organic materials applied, stored, and/or handled to mitigate negative impacts to surface water and groundwater sources?		

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<b>14. WATER QUALITY DEGRADATION: Excessive salts in surface and groundwater</b>	Is salt concentration a limiting factor?			<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 water or groundwater?		
<b>15. WATER QUALITY DEGRADATION: Petroleum, heavy metals and other pollutants transported to receiving waters</b>	Do activities present the potential for contamination?			<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?		
<b>16. WATER QUALITY DEGRADATION: Excessive sediment in surface waters*</b>	Are permanent ground cover < 90% and slope > 10%? <b>AND</b> Are classic gullies present? <b>AND</b> Are streams or shoreline on or adjacent to site?			<ul style="list-style-type: none"> <li>➤ RUSLE2 (user machine)</li> <li>➤ WEPS (user machine)</li> <li>➤ Client input</li> <li>➤ Planner observations</li> <li>➤ SVAP2 (National Biology Handbook, Part 614)</li> </ul>	Do upslope treatment and buffer practices address concentrated flows to water bodies? <b>AND</b> SVAP2 - bank condition ≥ 5. <b>AND</b> Are livestock and vehicle water crossings stable? <b>AND</b> Is Water erosion rate ≤T? <b>AND</b> Is Wind erosion rate ≤T?		
<b>17. WATER QUALITY DEGRADATION: Elevated water temperature</b>	Is there a water course on or adjacent to the site with State Agency identified temperature impairment?			<ul style="list-style-type: none"> <li>➤ SVAP2 (National Biology Handbook, Part 614)</li> <li>➤ Client input</li> </ul>	Is SVAP2 - riparian area quality element score ≥ 5? <b>AND</b> Is SVAP2 - riparian area quantity quality element score ≥ 5? <b>AND</b> Is SVAP2 - canopy cover element score ≥ 6?		
	<b>OR</b> Is water course temperature a client concern?			<ul style="list-style-type: none"> <li>➤ Planner observations</li> </ul>	<b>OR</b> Are existing practices in place to address water temperature?		
<b>PLANT RESOURCES</b>							
<b>18. DEGRADED PLANT CONDITION: Undesirable plant productivity and health*</b>	Is plant production and health a client concern?			<ul style="list-style-type: none"> <li>➤ Client input</li> <li>➤ Planner observations</li> <li>➤ Crop Tolerance Table (eFOTG/Section I/ Erosion Prediction/Wind Erosion)</li> </ul>	Are plants adapted to the site, meet production goals and do not negatively impact other resources? <b>AND</b> Is plant damage from wind erosion below Crop Damage Tolerance levels?		
<b>19. DEGRADED PLANT CONDITION: Inadequate structure and composition</b>	Will changes to the plant community structure or composition better support the desired ecological functions and intended land use?			<ul style="list-style-type: none"> <li>➤ ESD-Ecological Site Descriptions (eFOTG/ Section II/ESD/ESD)</li> </ul>	Do plant communities contain adequate diversity, composition and structure to support desired ecological functions?		

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		E	O			E	O
<b>20. DEGRADED PLANT CONDITION: Excessive plant pest pressure*</b>	Is plant productivity limited from pest pressure?			<ul style="list-style-type: none"> <li>➤ Client input</li> <li>➤ Planner observations</li> </ul>	Is pest damage to plants below economic or environmental thresholds or client-identified criteria? <b>AND</b> Are plant pests, including noxious and invasive species managed to meet client objectives?		
<b>21. DEGRADED PLANT CONDITION: Wildfire hazard, excessive biomass accumulation</b>	Is wildfire hazard a concern?			<ul style="list-style-type: none"> <li>➤ Client input</li> <li>➤ Planner observations</li> </ul>	Are fuel loads and fuel ladders managed to provide defensible space and meet client objectives?		
<b>ANIMAL RESOURCES</b>							
<b>23. LIVESTOCK PRODUCTION LIMITATION: Inadequate feed and forage*</b>				<ul style="list-style-type: none"> <li>➤ Client input</li> <li>➤ Planner observations</li> </ul>	Are livestock forage, roughage and supplemental nutritional requirements addressed?		
<b>24. LIVESTOCK PRODUCTION LIMITATION: Inadequate livestock shelter*</b>				<ul style="list-style-type: none"> <li>➤ Client input</li> <li>➤ Planner observations</li> </ul>	Do artificial or natural shelters meet animal health needs and client objectives?		
<b>25. LIVESTOCK PRODUCTION LIMITATION: Inadequate livestock water*</b>				<ul style="list-style-type: none"> <li>➤ Client input</li> <li>➤ Planner observations</li> </ul>	Is water of acceptable quality and quantity adequately distributed to meet animal needs?		

NOTES: