Checklist of Resource Concerns

CROPLAND

CLIENT		LOCATION	
PLANNER		DATE	
LAND UNITS		TOOLS	

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	YES	NO	Assessment Tools (location of tool)	Assessment Level Required to Meet Planning Criteria YES = Meets Planning Criteria NO = Resource Concern	YES	NO
SOILS RESOURCES							
1.SOIL EROSION: Sheet, rill and wind erosion*	Are perennial ground cover < 90% and slope > 10%?	☐	☐	➢ RUSLE2 (user machine) ➢ WEPS (user machine)	Water erosion rate ≤ T? **AND** Wind erosion rate ≤ T?	☐	☐
2.SOIL EROSION: Concentrated flow erosion *	Do Ephemeral gullies occur? **AND** Are classic gullies present?	☐	☐	➢ Field measurements ➢ Observations	Are conservation practices and managements in place to prevent or control ephemeral gullies? **AND** Is classic gully management adequate to stop the progression of head cutting and widening and are offsite impacts minimized by vegetation and/or structures?	☐	☐
3.SOIL EROSION: Excessive bank erosion from streams, shorelines or water conveyance channels*	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? **AND** If bank erosion is present, is it beyond the client's control or commensurate with normal geomorphological processes? **AND** For streambanks: SVAP2 bank condition element score ≥ 5?	☐	☐
	OR Is bank erosion from streams, shorelines or conveyance channels present?	☐	☐				
4. SOIL QUALITY DEGRADATION: Subsidence	Are Histisol soils present?	☐	☐	➢ Client input ➢ Planner observations	Is subsidence adequately managed to meet client's objectives?	☐	☐
	OR Are there Histisols present exhibiting subsidence?	☐	☐				
5. SOIL QUALITY DEGRADATION: Compaction	Is soil compaction a problem? **AND** Do activities cause soil compaction problems?	☐	☐	➢ Observation of soil and plant condition ➢ Client input ➢ Planner observations	Is compaction managed to meet Client's production and management objectives?	☐	☐
6. SOIL QUALITY DEGRADATION: Organic matter depletion*	Is permanent ground cover < 80%?	☐	☐	➢ RUSLE2 (user machine) ➢ WEPS (user machine)	SCI>0	☐	☐
7. SOIL QUALITY DEGRADATION: Concentration of Salts or other chemicals	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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WATER RESOURCES							
8. EXCESS WATER: Ponding, flooding, seasonal high water table, seeps and drifted snow	Is excess water a problem? **AND** Do activities cause ponding/flooding problems	☐	☐	➢ Client Input ➢ Planner observation	Is excess water managed to meet Client's objectives?	☐	☐
9. INSUFFICIENT WATER: Inefficient moisture management	Is Moisture Management a problem? **AND** Do activities cause inefficient moisture management?	☐	☐	➢ Client Input ➢ Planner observation	Are runoff and evapotranspiration levels minimized to meet Client's management objectives?	☐	☐
10. INSUFFICIENT WATER: Inefficient use of irrigation water *	Is the PLU irrigated?	☐	☐	➢ FIRI - Farm Irrigation Rating Index (eFOTG/Section I/Tools & Forms/Tools)	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?	☐	☐
11. WATER QUALITY: Excess nutrients in surface and groundwater *	Are organic or inorganic nutrients applied? **AND** Is the PLU grazed?	☐	☐	➢ Client input ➢ Planner observation ➢ Nutrient budget (WY-ECS-44)	Are nutrient and amendment applications based on soil or tissue tests and nutrient budgets for realistic yield? **AND** Are conservation practices and managements in place to minimize surface water and groundwater impacts?	☐	☐
12. WATER QUALITY DEGRADATION: Pesticides transported to surface and ground waters	Are pest control chemicals applied?	☐	☐	➢ Client input ➢ Planner observation ➢ WinPST (user machine)	Are pesticides stored, handled, disposed and managed to prevent runoff, spills, leaks and leaching? **AND** Are conservation practices and managements in place to minimize surface water and groundwater impacts?	☐	☐
13. WATER QUALITY DEGRADATION: Excess pathogens and chemicals from manure, biosolids or compost applications*	Are potential sources of pathogens or pharmaceuticals applied on the land?	☐	☐	➢ Client input ➢ Planner observation	Are organic materials applied, stored, and/or handled to mitigate negative impacts to surface water and groundwater sources?	☐	☐

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14. WATER QUALITY DEGRADATION: Excessive salts in surface and ground waters	Is salt concentration a limiting factor?			➢ Client input ➢ Planner observation	Are salt concentrations managed to mitigate off-site transport to surface water or groundwater?		
15. WATER QUALITY DEGRADATION: Petroleum and heavy metals and other pollutants transported to receiving waters	Do activities present the potential for contamination?			➢ Client input ➢ Planner observation	Are petroleum, heavy metals or other potential pollutants stored and handled to avoid runoff or leaching?		
16. WATER QUALITY DEGRADATION: Excessive sediment in surface waters*	Are permanent ground cover < 90% and slope > 10%? **AND** Are classic gullies present**?** **AND** Are streams or shoreline on or adjacent to site?			➢ RUSLE2 (user machine) ➢ WEPS (user machine) ➢ Client input ➢ Planner observation ➢ SVAP2 (National Biology Handbook, Part 614)	Do upslope treatment and buffer practices address concentrated flows to water bodies? **AND** SVAP2 - bank condition ≥ 5. **AND** Are livestock and vehicle water crossings stable? **AND** Is water erosion rate ≤ T? **AND** Is wind erostion rate ≤ T?		
17. WATER QUALITY DEGRADATION: Elevated water temperature	Is there a water course on or adjacent to the site with State Agency identified temperature impairment?			➢ SVAP2 (National Biology Handbook, Part 614) ➢ Client input ➢ Planner observation	Is SVAP2 - riparian area quality element score ≥ 5? **AND** Is SVAP2 - riparian area quantity quality element score ≥ 5? **AND** Is SVAP2 - canopy cover element score ≥ 6?		
	OR Is water course temperature a client concern**?**				**OR** Are existing practices in place to address water temperature?		
PLANT RESOURCES							
18. DEGRADED PLANT CONDITION: Undesirable plant productivity and health	Is plant production and health a client concern?			➢ Client input ➢ Planner observation ➢ Crop Tolerance Table (eFOTG/ Section I/Erosion Prediction/ Wind Erosion)	Are plants adapted to the site, meet production goals and do not negatively impact other resources? **AND** Is plant damage from wind erosion below Crop Damage Tolerance levels?		

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20. DEGRADED PLANT CONDITION: Excessive plant pest pressure	Is plant productivity limited from pest pressure?	☐	☐	➢ Client input ➢ Planner observation	Is pest damage to plants below economic or environmental thresholds or client-identified criteria? **AND** Are plant pests, including noxious and invasive species managed to meet client objectives?	☐	☐
21. DEGRADED PLANT CONDITION: Wildfire hazard, excessive accumulation	Is wildfire hazard a concern?	☐	☐	➢ Client input ➢ Planner observation	Are fuel loads and fuel ladders managed to provide defensible space and meet client objectives?	☐	☐
ANIMAL RESOURCES							
23. LIVESTOCK PRODUCTION LIMITATION: Inadequate feed and forage				➢ Client input ➢ Planner observation	Are livestock forage, roughage and supplemental nutritional requirements addressed?	☐	☐
24. LIVESTOCK PRODUCTION LIMITATION: Inadequate livestock shelter				➢ Client input ➢ Planner observation	Do artificial or natural shelters meet animal health needs and client objectives?	☐	☐
25. LIVESTOCK PRODUCTION LIMITATION: Inadequate livestock water				➢ Client input ➢ Planner observation	Is water of acceptable quality and quantity adequately distributed to meet animal needs?	☐	☐

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