

Checklist of Resource Concerns

Water

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. 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	Y E S	N O	Assessment Tools	Assessment Level Required to Meet Planning Criteria YES = Meets Planning Criteria NO = Identified Resource Concern	Y E S	N O
SOILS RESOURCES							
3.SOIL EROSION: <i>Excessive bank erosion from streams, shorelines or water conveyance channels*</i>	Are streams or shoreline on or adjacent to site?			➤ SVAP2	Are banks stable or commensurate with normal geomorphological processes? AND For stream banks:- SVAP2 bank condition ≥5 AND Bank erosion caused solely by upstream/upland landuse(s) and management decisions that are beyond the client's control?		
WATER RESOURCES							
11a. WATER QUALITY: <i>Excess nutrients in <u>surface</u> water *</i>	Are organic or inorganic nutrients applied?			➤ Client input ➤ Planner observation ➤ Nutrient budget	Are nutrient and amendment applications based on soil or tissue tests and nutrient budgets for realistic yields? OR Are conservation practices and managements in place to minimize offsite impacts?		
11b. WATER QUALITY: <i>Excess nutrients in <u>groundwater</u> *</i>				➤ Client input ➤ Planner observation ➤ Nutrient budget	Are nutrient and amendment applications based on soil or tissue tests and nutrient budgets for realistic yields? OR Are conservation practices and managements in place to minimize offsite impacts?		
12a. WATER QUALITY DEGRADATION: <i>Pesticides transported to <u>Surface</u> waters</i>	Are pest control chemicals applied?			➤ Client input ➤ Planner observation ➤ WinPST	Are pesticides stored, handled, disposed and managed to prevent runoff, spills, leaks and leaching? AND Are conservation practices and managements in place to minimize offsite impacts?		
12b. WATER QUALITY DEGRADATION: <i>Pesticides transported to <u>Groundwaters</u></i>				➤ Client input ➤ Planner observation ➤ WinPST	Are pesticides stored, handled, disposed and managed to prevent runoff, spills, leaks and leaching? AND Are conservation practices and managements in place to minimize offsite impacts?		

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<p>13a. WATER QUALITY DEGRADATION: Pathogens, pharmaceuticals and Other Chemicals in Surface water*</p>	<p>Are potential sources of pathogens or pharmaceuticals applied on the land?</p>			<ul style="list-style-type: none"> ➤ Client input ➤ Planner observation 	<p>Are organic materials applied, stored, and/or handled to mitigate negative impacts to water sources?</p>		
<p>13b. WATER QUALITY DEGRADATION: Pathogens, pharmaceuticals and Other Chemicals in Groundwater*</p>				<ul style="list-style-type: none"> ➤ Client input ➤ Planner observation 	<p>Are organic materials applied, stored, and/or handled to mitigate negative impacts to water sources?</p>		
<p>14a. WATER QUALITY DEGRADATION: Excessive salts in Surface waters</p>	<p>Is excess salt a problem?</p>			<ul style="list-style-type: none"> ➤ Client input ➤ Planner observation 	<p>Are salt concentrations managed to mitigate off-site transport to surface waters?</p>		
<p>14b. WATER QUALITY DEGRADATION: Excessive salts in Groundwaters</p>	<p>OR Do activities contribute to excess salt production?</p>			<ul style="list-style-type: none"> ➤ Client input ➤ Planner observation 	<p>Are salt concentrations managed to mitigate off-site transport to groundwaters?</p>		
<p>15a. WATER QUALITY DEGRADATION: Petroleum and heavy metals and other pollutants transported to surface waters</p>	<p>Do activities present the potential for contamination?</p>			<ul style="list-style-type: none"> ➤ Client input ➤ Planner observation 	<p>Are petroleum, heavy metals or other potential pollutants stored and handled to avoid runoff or leaching?</p>		
<p>15b. WATER QUALITY DEGRADATION: Petroleum and heavy metals and other pollutants transported to groundwaters</p>				<ul style="list-style-type: none"> ➤ Client input ➤ Planner observation 	<p>Are petroleum, heavy metals or other potential pollutants stored and handled to avoid runoff or leaching?</p>		
<p>16. WATER QUALITY DEGRADATION: Excessive sediment in surface waters*</p>	<p>Are permanent ground cover < 90% and slope > 10%? OR Are classic gullies present? OR Are streams or shoreline on or adjacent to site?</p>			<ul style="list-style-type: none"> ➤ Client input ➤ Planner observation ➤ RUSLE2 ➤ SVAP2 ➤ WEPS 	<p>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 erosion rate ≤ T?</p>		

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17. WATER QUALITY DEGRADATION: Elevated water temperature	Is there a water course on or adjacent to the site with State Agency identified temperature impairment? AND Is water course temperature a client concern?			<ul style="list-style-type: none"> ➤ Client input ➤ Planner observation ➤ SVAP2 	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 Are existing practices in place to address water temperature?						

AIR RESOURCES							
19. AIR QUALITY IMPACTS - Emissions of Greenhouse Gases - GHGs	Are GHGs regulated in this planning area? AND Do activities produce GHGs emissions?			<ul style="list-style-type: none"> ➤ Client input ➤ Planner observation 	Are greenhouse gas emissions managed to meet client objectives?		
20. AIR QUALITY IMPACTS - Emissions of Ozone Precursors	Do operations produce ozone precursor emissions?				Are ozone precursor emissions are managed to meet client objectives?		

PLANT RESOURCES							
23. DEGRADED PLANT CONDITION: Inadequate Structure & Composition	Do plant communities support the intended land use and desired ecological functions?			<ul style="list-style-type: none"> ➤ Ecological Site Descriptions 	Do plant communities contain adequate diversity, composition and structure to support desired ecological functions?		
24. DEGRADED PLANT CONDITION: Excessive plant pest pressure	Is plant productivity limited from pest pressure?				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?		
25. DEGRADED PLANT CONDITION: Wildfire hazard, excessive biomass accumulation	Is wildfire hazard a concern?				Are fuel loads and fuel ladders managed to provide defensible space and meet client objectives?		

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

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<p>26d. INADEQUATE HABITAT FOR FISH AND WILDLIFE – <i>Habitat continuity is inadequate to meet requirements of identified fish, wildlife or invertebrate species</i></p>	<p>Is PLU managed for wildlife? (Wildlife Modifier)</p>			<ul style="list-style-type: none"> ➤ Species-specific wildlife habitat assessment tools ➤ SVAP2 ➤ Generalized WHS Index finalized by States, and detailed models by selected species and habitat type 	<p>WHSI rating ≥ 0.5 AND (when surface stream present) SVAP2 – fish habitat complexity element score ≥ 7 AND SVAP2 – aquatic invertebrate habitat element score ≥ 7 OR Are conservation practices and management are in place that meet or exceed species or guild-specific habitat model thresholds? OR Is connectivity of habitat components are adequate to support stable populations of targeted species?</p>			
<p>27. LIVESTOCK PRODUCTION LIMITATION: <i>Inadequate feed and forage</i></p>	<p>Is Client actively grazing animals. (Grazing Modifier)</p>			<ul style="list-style-type: none"> ➤ Client input ➤ Planner observation 	<p>Are livestock forage, roughage and supplemental nutritional requirements addressed?</p>			
<p>28. LIVESTOCK PRODUCTION LIMITATION: <i>Inadequate livestock shelter</i></p>					<ul style="list-style-type: none"> ➤ Client input ➤ Planner observation 	<p>Do artificial or natural shelters meet animal health needs and client objectives?</p>		
<p>29. LIVESTOCK PRODUCTION LIMITATION: <i>Inadequate livestock water</i></p>					<ul style="list-style-type: none"> ➤ Client input ➤ Planner observation 	<p>Is water of acceptable quality and quantity adequately distributed to meet animal needs?</p>		

ENERGY RESOURCES							
<p>30. INEFFICIENT ENERGY USE – <i>Equipment and facilities</i></p>	<p>Is the Client interested in improving equipment and facilities energy efficiency?</p>			<ul style="list-style-type: none"> ➤ Client input ➤ Planner observation ➤ NRCS Energy Estimator ➤ USDA approved Energy Audit 	<p>Has a USDA approved energy audit been implemented that address equipment and facilities to meet client objectives? OR Are on- farm renewable energy and/or energy conserving practices been implemented to meet client objectives?</p>		

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31. INEFFICIENT ENERGY USE <i>– Farming and ranching practices and field operations</i>	Is Client interested in improving energy use in farm and ranch field operations?			<ul style="list-style-type: none"> ➤ Client input ➤ Planner observation ➤ NRCS Energy Estimator ➤ USDA approved Energy Audit ➤ Conservation on the Farm Checklist 	Has a USDA approved energy audit been implemented that address equipment and facilities to meet client objectives? OR Are on- farm renewable energy and/or energy conserving practices been implemented to meet client objectives?		
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<i>Technical Assistance Notes</i>	