

Checklist of Resource Concerns

RANGE

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			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
SOIL RESOURCES							
1a.SOIL EROSION: Sheet & Rill*	Is State established criteria met?	<input type="checkbox"/>	<input type="checkbox"/>	➤ RHA-Rangeland Health Assessment	Is RHA - soil site stability slight to moderate or less? OR Is Rangeland Planned Trend positive?	<input type="checkbox"/>	<input type="checkbox"/>
1b.SOIL EROSION: Wind*	Is State established criteria met?	<input type="checkbox"/>	<input type="checkbox"/>	➤ RHA-Rangeland Health Assessment	Is RHA - soil site stability slight to moderate or less? OR Is Rangeland Planned Trend positive?	<input type="checkbox"/>	<input type="checkbox"/>
2b.SOIL EROSION: Classic gully erosion*	Are classic gullies present?	<input type="checkbox"/>	<input type="checkbox"/>	➤ Field measurements ➤ Planner 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?	<input type="checkbox"/>	<input type="checkbox"/>
3.SOIL EROSION: Excessive bank erosion from streams, shorelines or water conveyance channels*	Are streams or shoreline on or adjacent to site?	<input type="checkbox"/>	<input type="checkbox"/>	➤ SVAP2	For shorelines and water conveyance channels; are banks stable or commensurate with normal geomorphological processes? AND For streambanks; is SVAP2 bank condition element score ≥5? AND If present, is bank erosion caused by upstream land use and beyond the client's control?	<input type="checkbox"/>	<input type="checkbox"/>
5. SOIL QUALITY DEGRADATION: Compaction	Is soil compaction a problem? AND Do activities cause soil compaction problems?	<input type="checkbox"/>	<input type="checkbox"/>	➤ RHA-Rangeland Health Assessment ➤ Observation of soil and plant condition	Is RHA - soil site stability slight to moderate or less? OR Is compaction managed to meet Client's production and management objectives?	<input type="checkbox"/>	<input type="checkbox"/>
6. SOIL QUALITY DEGRADATION: Organic matter depletion	Is soil organic matter depletion a problem? AND Do activities cause soil organic matter depletion?	<input type="checkbox"/>	<input type="checkbox"/>	➤ RHA-Rangeland Health Assessment	Is RHA - soil site stability slight to moderate or less? AND Is RHA – biotic integrity attribute rating slight to moderate departure or less? OR Is Rangeland Planned Trend positive?	<input type="checkbox"/>	<input type="checkbox"/>
7. SOIL QUALITY DEGRADATION: Concentration of Salts or other chemicals	Do activities cause salinity/sodicity problems?	<input type="checkbox"/>	<input type="checkbox"/>	➤ Soil diagnostic evaluations	Are conservation practices and managements in place to mitigate on-site effects?	<input type="checkbox"/>	<input type="checkbox"/>

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RANGE

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		E	O			E	O
WATER RESOURCES							
8a. EXCESS WATER: Ponding and Flooding	Is ponding or flooding a problem? AND Do activities cause ponding/flooding problems?	<input type="checkbox"/>	<input type="checkbox"/>	<ul style="list-style-type: none"> ➤ Client Input ➤ Planner Observations 	Is excess water managed to meet Client's objectives?	<input type="checkbox"/>	<input type="checkbox"/>
8b. EXCESS WATER: Seasonal high water table	Does a seasonal high water table cause a problem?	<input type="checkbox"/>	<input type="checkbox"/>	<ul style="list-style-type: none"> ➤ Client Input ➤ Planner Observations 	Is excess water managed to meet Client's objectives?	<input type="checkbox"/>	<input type="checkbox"/>
8c. EXCESS WATER: Seeps	Does excess water from seeps cause a problem?	<input type="checkbox"/>	<input type="checkbox"/>	<ul style="list-style-type: none"> ➤ Client Input ➤ Planner Observations 	Is excess water managed to meet Client's objectives?	<input type="checkbox"/>	<input type="checkbox"/>
8d. EXCESS WATER: Drifted snow	Does drifted snow cause a problem?	<input type="checkbox"/>	<input type="checkbox"/>	<ul style="list-style-type: none"> ➤ Client Input ➤ Planner Observations 	Is excess water managed to meet Client's objectives?	<input type="checkbox"/>	<input type="checkbox"/>
9. INSUFFICIENT WATER: Inefficient moisture management	Is Moisture Management a problem? AND Do activities cause inefficient moisture management?	<input type="checkbox"/>	<input type="checkbox"/>	<ul style="list-style-type: none"> ➤ RHA-Rangeland Health Assessment 	Is RHA - hydrologic function attributes slight to moderate or less?	<input type="checkbox"/>	<input type="checkbox"/>
11a. WATER QUALITY DEGRADATION: Excess nutrients in surface water	Are organic or inorganic nutrients applied?	<input type="checkbox"/>	<input type="checkbox"/>	<ul style="list-style-type: none"> ➤ Nutrient budget ➤ Client Input ➤ Planner Observations 	If nutrients are applied, are they based on a soil test, tissue tests or nutrient budget? AND Are conservation practices and managements in place to minimize offsite impacts?	<input type="checkbox"/>	<input type="checkbox"/>
11b. WATER QUALITY DEGRADATION: Excess nutrients in groundwater	OR Is the PLU grazed? OR Are there confined livestock areas?	<input type="checkbox"/>	<input type="checkbox"/>	<ul style="list-style-type: none"> ➤ Nutrient budget ➤ Client Input ➤ Planner Observations 	If nutrients are applied, are they based on a soil test, tissue tests or nutrient budget? AND Are conservation practices and managements in place to minimize offsite impacts?	<input type="checkbox"/>	<input type="checkbox"/>

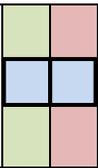
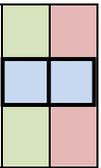
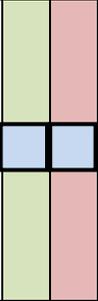
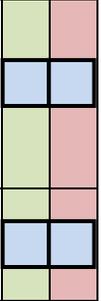
Checklist of Resource Concerns

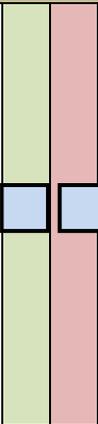
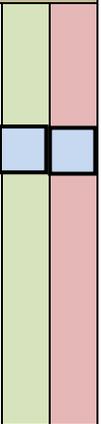
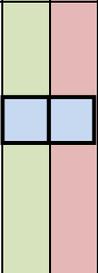
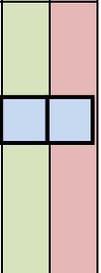
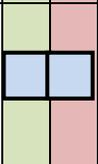
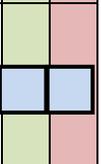
RANGE

12a. WATER QUALITY DEGRADATION: Pesticides transported to surface water			<ul style="list-style-type: none"> ➤ 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: Pesticides transported to groundwater	Are pest control chemicals applied?		<ul style="list-style-type: none"> ➤ 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?		
13a. WATER QUALITY DEGRADATION: Pathogens, pharmaceuticals and Other Chemicals in Surface water*	Are potential sources of pathogens or pharmaceuticals applied on the land?		<ul style="list-style-type: none"> ➤ Client input ➤ Planner observation 	Are organic materials applied, stored, and/or handled to mitigate negative impacts to water sources?		
13b. WATER QUALITY DEGRADATION: Pathogens, pharmaceuticals and Other Chemicals in Groundwater*			<ul style="list-style-type: none"> ➤ Client input ➤ Planner observation 	Are organic materials applied, stored, and/or handled to mitigate negative impacts to water sources?		
14a. WATER QUALITY DEGRADATION: Excessive salts in surface water	Is excess salt a problem? OR		<ul style="list-style-type: none"> ➤ Client input ➤ Planner observation 	Are salt concentrations managed to mitigate off-site transport to surface water?		
14b. WATER QUALITY DEGRADATION: Excessive salts groundwater	Do activities contribute to excess salt production?		<ul style="list-style-type: none"> ➤ Client input ➤ Planner observation 	Are salt concentrations managed to mitigate off-site transport to groundwater?		
15a. WATER QUALITY DEGRADATION: Petroleum, heavy metals, and other pollutants transported to surface water	Are potential sources of pathogens or pharmaceuticals applied on the land?		<ul style="list-style-type: none"> ➤ Client input ➤ Planner observation 	Are organic materials applied, stored, and/or handled to mitigate negative impacts to water sources?		
15b. WATER QUALITY DEGRADATION: Petroleum, heavy metals, and other pollutants transported to groundwater	(required when range has grazed modifier)		<ul style="list-style-type: none"> ➤ Client input ➤ Planner observation 	Are organic materials applied, stored, and/or handled to mitigate negative impacts to water sources?		

Checklist of Resource Concerns

RANGE

<p>16. WATER QUALITY DEGRADATION: Excessive sediment in surface waters*</p>	<p>Are there untreated sources of erosion? AND Are streams or shoreline on or adjacent to site?</p>		<ul style="list-style-type: none"> ➤ RHA-Rangeland Health Assessment ➤ SVAP2 	<p>Is RHA - hydrologic function attribute slight to moderate or less? AND Is SVAP2 - bank condition ≥ 5?</p>	
<p>17. WATER QUALITY: Elevated water temperature</p>	<p>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?</p>		<ul style="list-style-type: none"> ➤ SVAP2 ➤ Client input ➤ Planner observation 	<p>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?</p>	

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

Checklist of Resource Concerns

RANGE

PLANT RESOURCES					
22. DEGRADED PLANT CONDITION: <i>Undesirable plant productivity and health *</i>		[Green] [Red]	<ul style="list-style-type: none"> ➤ RHA-Rangeland Health Assessment ➤ Rangeland Trend Worksheet ➤ Similarity Index 	Does vegetation meet similarity index of 60 or greater for desired plant community and have a positive trend?	[Green] [Red]
				OR	Is RHA – biotic integrity attribute rating slight to moderate departure or less?
23. DEGRADED PLANT CONDITION: <i>Inadequate structure and composition*</i>	Will changes to the plant community structure or composition better support the desired ecological functions and intended land use?	[Green] [Red]	<ul style="list-style-type: none"> ➤ Ecological Site Descriptions ➤ RHA ➤ Rangeland Trend Worksheet 	Do plant communities contain adequate diversity, composition and structure to support desired ecological functions?	[Blue] [Blue]
				OR	Is RHA – biotic integrity attribute rating slight to moderate departure or less?
24. DEGRADED PLANT CONDITION: <i>Excessive plant pest pressure</i>	Is plant productivity limited from pest pressure?	[Green] [Red]	<ul style="list-style-type: none"> ➤ Client input ➤ Planner observation 	Is pest damage to plants below economic or environmental thresholds or client-identified criteria?	[Green] [Red]
				AND	Are plant pests, including noxious and invasive species managed to meet client objectives?
25. DEGRADED PLANT CONDITION– <i>Wildfire hazard, excessive biomass accumulation</i>	Is wildfire hazard a concern?	[Green] [Red]	<ul style="list-style-type: none"> ➤ Client input ➤ Planner observation 	Are fuel loads and fuel ladders managed to provide defensible space and meet client objectives?	[Blue] [Blue]

ANIMAL RESOURCES					
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>	Is PLU managed for wildlife?	[Green] [Red]	<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 	WHSI rating ≥ 0.5	[Green] [Red]
				AND (when surface stream present)	SVAP2 – fish habitat complexity element score ≥ 7
				AND	
				SVAP2 – aquatic invertebrate habitat element score ≥ 7	[Green] [Red]
				OR	
				Are conservation practices and management are in place that meet or exceed species or guild-specific habitat model thresholds?	[Blue] [Blue]
				OR	
				Is food available in quality and extent to support habitat requirements for the species of interest?	[Blue] [Blue]
					[Green] [Red]

Checklist of Resource Concerns

RANGE

<p>26b. INADEQUATE HABITAT FOR FISH AND WILDLIFE – Quantity, quality of water 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>27c. INADEQUATE HABITAT FOR FISH AND WILDLIFE – Quantity, quality or cover/shelter 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>	
<p>28d. INADEQUATE HABITAT FOR FISH AND WILDLIFE – Habitat continuity is inadequate to meet requirements of identified fish, wildlife or invertebrate species</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>	

Checklist of Resource Concerns

RANGE

<p>27. LIVESTOCK PRODUCTION LIMITATION: <i>Inadequate feed and forage</i></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>	<p>Is Client actively grazing animals. (Grazing Modifier)</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>	
<p>ENERGY RESOURCES</p>					
<p>30. INEFFICIENT ENERGY USE – Equipment and facilities</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?</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>31. INEFFICIENT ENERGY USE – Farming and ranching practices and field operations</p>	<p>Is Client interested in improving energy use in farm and ranch field operations?</p>		<ul style="list-style-type: none"> ➤ Client input ➤ Planner observation ➤ NRCS Energy Estimator ➤ USDA approved Energy Audit ➤ Conservation on the Farm Checklist 	<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>	

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RANGE

Technical Assistance Notes

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