

WA NRCS Resource Concerns Checklist

MAY 2014

Introduction and Directions for using Checklist

Purpose: Conservation Planning

Conservation planning is flexible in regard to units. Plans may include all contiguous and noncontiguous land that is part of the client's enterprise, including owned and rented land, or may include only a portion of the enterprise.

NPPH: "The Conservation Management Unit (CMU) can be a field, group of fields, or other land units of the same land use and having similar treatment needs and planned management.

A CMU, made up of one or more planning land units, has definite boundaries, such as fence, drainage, vegetation, topography, soil lines, or **land use.**"

Conservation planners will inventory **ALL** applicable soil, water, air, plant, animal, energy, human (SWAPAE+H) resources identified in the **Resource Concern Landuse Checklists.** Existing or potential resource concerns are identified through screening and assessment as part of the planning process. This provides information to determine the resource concerns to be addressed. Alternatives are formulated, and the effectiveness of existing management measures and practices are determined.

After Screening, the Resource Concern Checklists contains various assessment tools to be used to document the benchmark condition and provide an effective evaluation of each resource concern identified. In all cases, the **Landscape Checklist** will be completed in addition to each Crop, Pasture, Range, Forest, and/or Farmstead identified. Details for each landuse should be well documented in the Assistance Notes (P & I) and within the CPA 52 Environmental Evaluation worksheet.

The LANDSCAPE tab will be evaluated in conjunction with any other land use.

Screening and Assessment levels of evaluation

I. Screening Level

Simple true-false statements of easily observable conditions planners can use to identify sites that have little or no probability of needing additional treatment to address the specific resource concern.

If the site meets the screening level criteria, then no other assessment is needed to document that planning criteria are met on this site. Example: For water quality the screening level for cropland is organic or inorganic nutrients not applied and PLU is not grazed. So, no assessment is needed. If nutrient are applied and the PLU is grazed then an assessment is required.

II. Assessment Level

Criteria used when a site does not pass the screening level or when no screening level criteria are defined.

Assessment is the act of evaluating the physical condition or extent of management applied. Assessment level is a statement describing the physical condition or extent of management applied that is used by planners to determine if the resource concern planning criteria have been met. The appropriate methods needed for assessment are determined by experienced planners and identified on the Resource Concern Checklist. If additional guidance is needed contact your Area Office Representative.

Assessment Methods:

I. Procedural-

For some resources, planners use well-defined procedures to acquire data used to determine the resource condition. An example is determining the ecological health of rangeland using the Interpreting Indicators of Rangeland Health protocol. The appropriate discipline handbook or manual may be consulted for more information.

II. Predictive-

The condition of some resources is best assessed using models created to predict the probability of an outcome. An example is using RUSLE2 to estimate sheet and rill erosion rates.

III. Observation-

Where standard procedures to measure or model the condition of resources do not exist, planners often rely on direct observation or information provided by the client through an interview. Observation always implies onsite investigation. An example would be classic gully erosion site where physical soil can be observed from movement.

IV. Deduction-

When it is impractical to measure, model, or observe resource conditions, planners may rely on reason to deduce the status of a resource. Often, the deductive approach is related to treatment standards. In this case, the planner must assume that a certain condition is met if specific treatment is applied, and conversely, if the specific treatment is not applied, a less desirable condition will result. Planners must frequently rely on deductive methods to address offsite effects. An example would be Water Quality Degradation-Nutrients where knowing that by doing an effective nutrient management plan on field where nutrients are applied, you can reduce potential for nutrients in ground and surface water. In this example the other methods are not applicable to be used for measurement of Water Quality Degradation.

NRCS LANDUSE DEFINITIONS

MAY 2014

Modifiers

Modifiers provide a level of specificity and help describe how the land is actually managed.

Irrigated – applied when an operational system is present and managed to supply water

Wildlife – applied when the client is actively managing for wildlife, and management is reflected in the conservation plan through the application of practices beneficial to wildlife

Grazed – applied when grazing animals impact how land is managed and influence the conservation plan

Land Use

CROP

Land used primarily for the production and harvest of annual or perennial field, forage, food, fiber, horticultural, orchards, vineyards and/or energy crops.

PASTURE

Lands composed of introduced or domesticated native forage species that is used primarily for the production of livestock. They receive periodic renovation and/or cultural treatments, such as tillage, fertilization, mowing, weed control, and may be irrigated. They are not in rotation with crops.

RANGE

Land used primarily for the production of grazing animals. Includes native plant communities and those seeded to native or introduced species, or naturalized by introduced species, that are ecologically managed using range management principles.

DESIGNATED PROTECTED AREA

Land or water used for the preservation, protection, and observation of the existing resources, archaeological or historical interpretation, resource interpretation, or for aesthetic value.

These areas are officially designated by legislation or other authorities. Examples: legislated natural or scenic areas and rural burial plots.

FOREST

Land on which the primary vegetation is tree cover (climax, natural or introduced plant community) and use is primarily for production of wood products and/or non-timber forest products.

FARMSTEAD

Land used for facilities and supporting infrastructure where farming, forestry, animal husbandry and ranching activities are often initiated.

This may include dwellings, equipment storage plus farm input and output storage and handling facilities. Also includes land dedicated to the facilitation and production of high intensity animal agriculture in a containment facility where daily nutritional requirements are obtained from other lands or feed sources.

NRCS LANDUSE DEFINITIONS

NEW Land Use Categories

ASSOCIATED AGRICULTURE LANDS

Land associated with farms and ranches that are not purposefully managed for food, forage or fiber and are typically associated with nearby production and/or conservation lands.

This could include incidental areas such as: idle center pivot corners, odd areas, ditches and watercourses, riparian areas, field edges, seasonal and permanent wetlands, and other similar areas.

OTHER ASSOCIATED AGRICULTURE LANDS

Land that is barren, sandy, rocky or that is impacted by the extraction of natural resources such as minerals, gravel/sand, coal, shale, rock, oil or natural gas.

Water

Geographic area whose dominant characteristic is open water/permanent ice or snow. May include intermingled land, including tidal influenced coastal marsh lands.

DEVELOPED LAND

Land occupied by buildings and related facilities used for residences, commercial sites, public highways, airports, and open space associated with towns and cities.

Checklist of Resource Concerns

LANDSCAPE

MAY 2014

CLIENT		LOCATION	
PLANNER		MODIFIERS	Irrigated <input type="checkbox"/>
LAND UNITS		FARM No.	Wildlife <input type="checkbox"/>
DATE		TRACT No.	Grazed <input type="checkbox"/>

This check sheet is designed to assist planners and clients in identifying resource concerns during the planning process. The planning criteria in Section III of the eFOTG sets the minimum level of treatment needed. 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	Screening Questions No = Met Screening (Not a Resource Concern) YES = Needs to be Assessed	YES or NO or NA (Not Applicable)	Assessment Tools (check all that were used)	Assessment Level Required to Meet Planning Criteria YES = Meets Planning Criteria NO = Resource Concern	YES or NO or NA (Not Applicable)
WILDLIFE RESOURCES					
22A. INADEQUATE HABITAT FOR FISH AND WILDLIFE- Habitat degradation (Aquatic)	Is Aquatic habitat present?		<input type="checkbox"/> Washington Biological Technical Note 14: Wildlife Habitat Evaluation Guide (WHEG) <input type="checkbox"/> Stream Visual Assessment Protocol Version 2 (SVAP 2) <input type="checkbox"/> Washington Water Quality Technical Note 1	Is the Wildlife Habitat Evaluation Guide (WHEG) rating for aquatic habitats greater than or equal to 0.7? AND when surface stream present Is SVAP2 – barriers to movement element score greater than or equal to 7? AND Is SVAP2 – fish habitat complexity element score greater than or equal to 7? AND Is SVAP2 – is the riparian quantity element score greater than or equal to 7?	
			<input type="checkbox"/> A species - specific Wildlife Habitat Assessment Tool	OR Does a species-specific Wildlife Habitat Assessment Tool meet Planning Criteria for the Species Habitat being assessed?	

Resource Concern	Screening Questions No = Met Screening (Not a Resource Concern) YES = Needs to be Assessed	YES or NO or NA (Not Applicable)	Assessment Tools (check all that were used)	Assessment Level Required to Meet Planning Criteria YES = Meets Planning Criteria NO = Resource Concern	YES or NO or NA (Not Applicable)
22T. INADEQUATE HABITAT FOR FISH AND WILDLIFE- Habitat degradation (Terrestrial)	An assessment must be done for this Resource Concern.	Needs to be Assessed	<input type="checkbox"/> Washington Biological Technical Note 14: Wildlife Habitat Evaluation Guide (WHEG) <input type="checkbox"/> Stream Visual Assessment Protocol Version 2 (SVAP 2) <input type="checkbox"/> Washington Water Quality Technical Note 1 <input type="checkbox"/> A species - specific Wildlife Habitat Assessment Tool	<p>Are conservation practices and management in place that meet or exceed the habitat needs of general populations of wildlife?</p> <p>OR</p> <p>Does available quality and extent of food, water, space and cover support habitat requirements for the species of interest?</p> <p>AND</p> <p>Is connectivity of habitat components adequate to support stable wildlife populations?</p> <p>OR</p> <p>Does a species-specific Wildlife Habitat Assessment Tool meet Planning Criteria for the Species Habitat being assessed?</p>	<div style="background-color: #f08080; height: 15px; width: 100%;"></div> <div style="background-color: #ffff00; height: 15px; width: 100%;"></div> <div style="background-color: #f08080; height: 15px; width: 100%;"></div> <div style="background-color: #ffff00; height: 15px; width: 100%;"></div> <div style="background-color: #f08080; height: 15px; width: 100%;"></div> <div style="background-color: #ffff00; height: 15px; width: 100%;"></div> <div style="background-color: #f08080; height: 15px; width: 100%;"></div>
ENERGY RESOURCES					
26. INEFFICIENT ENERGY USE: Equipment and facilities	Is the Client interested in improving equipment and facilities energy efficiency?		<input type="checkbox"/> National NRCS energy estimator tools <input type="checkbox"/> USDA approved energy audit	<p>Has a USDA approved energy audit been implemented that addresses equipment and facilities to meet client objectives?</p> <p>OR</p> <p>Are On-Farm renewable energy and/or energy conserving practices being implemented to meet client objectives?</p>	<div style="background-color: #f08080; height: 15px; width: 100%;"></div> <div style="background-color: #ffff00; height: 15px; width: 100%;"></div> <div style="background-color: #f08080; height: 15px; width: 100%;"></div> <div style="background-color: #ffff00; height: 15px; width: 100%;"></div> <div style="background-color: #f08080; height: 15px; width: 100%;"></div>

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27. INEFFICIENT ENERGY USE: Farming/Ranching practices and field operations	Is the Client interested in improving energy use in farm and ranch operations?		<input type="checkbox"/> Visual Inspection <input type="checkbox"/> USDA approved energy audit <input type="checkbox"/> National NRCS energy estimator tools <input type="checkbox"/> Revised Universal Soil Loss Equation Version 2 (RUSLE2) <input type="checkbox"/> Wind Erosion Prediction System (WEPS) <input type="checkbox"/> Washington Energy Technical Note 1 - Cropland Energy Estimation Tool (CEET)	Has a USDA approved energy audit been implemented that addresses equipment and facilities to meet client objectives? OR Are On-Farm renewable energy and/or energy conserving practices being implemented to meet client objectives?	
AIR RESOURCES					
28. AIR QUALITY IMPACTS: Emissions of Particulate Matter (PM) and PM precursors	Do activities contribute to excess agricultural source Particulate Matter (PM) or PM precursor emissions? Examples: <ul style="list-style-type: none"> • Prescribed Burn is conducted • Travel ways are unpaved or untreated with binding agents • Engines (combustion source) • Tillage • Pesticides are applied • Fertilization (manure/commercial) • CAFO* / manure management AND Have episodes or complaints of emissions of PM (dust, smoke, exhaust, etc.), or chemical drift occurred?		<input type="checkbox"/> Air Quality Technical Note 1 <input type="checkbox"/> Wind Erosion Prediction System (WEPS)	Are Particulate Matter (PM) and PM Precursor emissions managed to meet client objectives?	
* Confined Animal Feeding Operation					

Resource Concern	Screening Questions No = Met Screening (Not a Resource Concern) YES = Needs to be Assessed <i>Suggested soils reports are italicized</i>	YES or NO or NA (Not Applicable)	Assessment Tools (check all that were used)	Assessment Level Required to Meet Planning Criteria YES = Meets Planning Criteria NO = Resource Concern	YES or NO or NA (Not Applicable)
29. AIR QUALITY IMPACTS: Emissions of Greenhouse Gases (GHGs) * Confined Animal Feeding Operation	Do activities produce excess GHGs emissions? Examples: <ul style="list-style-type: none"> Fertilization (manure/commercial) CAFO* / manure management Engines (combustion source) Tillage AND Are GHGs regulated in this planning area?		<input type="checkbox"/> Air Quality Technical Note 1	Do the emissions of greenhouse gases meet client objectives?	
30. AIR QUALITY IMPACTS: Emissions of Ozone Precursors * Confined Animal Feeding Operation	Do operations produce excess ozone or precursor emissions? Examples: <ul style="list-style-type: none"> Engines (combustion source) Pesticide application Burning CAFO* / manure management Fertilization (manure/commercial) 		<input type="checkbox"/> Air Quality Technical Note 1	Are ozone precursor emissions managed to meet client objectives?	
31. AIR QUALITY IMPACTS: Objectionable odors * Confined Animal Feeding Operation	Do activities contribute to nuisance air quality Examples: <ul style="list-style-type: none"> Pesticide application CAFO* / manure management Composting is conducted AND Are odor sources regulated in this planning area?		<input type="checkbox"/> Air Quality Technical Note 1	Are odors managed to meet client objectives?	
	AND Is there a stream present ?		<input type="checkbox"/> Stream Visual Assessment Protocol Version 2 (SVAP 2)	AND Is SVAP2 riparian quantity element score greater than or equal to 7?	

Notes:

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Checklist of Resource Concerns

CROPLAND

MAY 2014

CLIENT		LOCATION	
PLANNER		MODIFIERS	Irrigated <input type="checkbox"/>
LAND UNITS		FARM No.	Wildlife <input type="checkbox"/>
DATE		TRACT No.	Grazed <input type="checkbox"/>

This check sheet is designed to assist planners and clients in identifying resource concerns during the planning process. The planning criteria in Section III of the eFOTG sets the minimum level of treatment needed. 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.

Cropland - Land used primarily for the production and harvest of annual or perennial field, forage, food, fiber, horticultural, orchards, vineyards and/or energy crops.

Resource Concern	Screening Questions No = Met Screening (Not a Resource Concern) YES = Needs to be Assessed <i>Suggested soils reports are italicized</i>	YES or NO or NA (Not Applicable)	Assessment Tools (check all that were used)	Assessment Level Required to Meet Planning Criteria YES = Meets Planning Criteria NO = Resource Concern	YES or NO or NA (Not Applicable)
SOILS RESOURCES					
1. SOIL EROSION: Sheet, rill and wind T [^] = Tolerable Soil Loss	Is perennial ground cover less than 90%, and slope greater than 10%?		<input type="checkbox"/> Revised Universal Soil Loss Equation Version 2 (RUSLE2) <input type="checkbox"/> Wind Erosion Prediction System (WEPS) <input type="checkbox"/> Visual Inspection	Is the Water erosion rate less than or equal to T [^] ? AND Is the Wind erosion rate less than or equal to T [^] ?	
2. SOIL EROSION: Concentrated flow erosion	Do ephemeral gullies occur? AND/OR Are classic gullies present?		<input type="checkbox"/> Field measurements <input type="checkbox"/> Visual Inspection	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?	

Resource Concern	<p>Screening Questions</p> <p>No = Met Screening (Not a Resource Concern) YES = Needs to be Assessed</p> <p><i>Suggested soils reports are italicized</i></p>	<p>YES or NO or NA (Not Applicable)</p>	<p>Assessment Tools (check all that were used)</p>	<p>Assessment Level Required to Meet Planning Criteria</p> <p>YES = Meets Planning Criteria NO = Resource Concern</p>	<p>YES or NO or NA (Not Applicable)</p>
<p>3. SOIL EROSION: Excessive bank erosion from streams, shorelines or water conveyance channels</p>	<p>Are streams or shoreline on or adjacent to site? AND/OR Is bank erosion from streams, shorelines or conveyance channels present?</p>		<p><input type="checkbox"/> Stream Visual Assessment Protocol Version 2 (SVAP 2)</p>	<p>For shorelines and water conveyance channels: Are banks stable or commensurate with normal geomorphological processes? AND For streambanks; Is SVAP2 bank condition element score greater than or equal to 7? OR Bank erosion caused solely by upstream/ upland landuse and management decisions that are beyond the client's control.</p>	
<p>4. SOIL QUALITY DEGRADATION: Subsidence</p>	<p>Are there Histisol soils present exhibiting subsidence? <i>Hydric Soils, Soil Features</i></p>		<p><input type="checkbox"/> Visual Inspection</p>	<p>Is subsidence adequately managed to meet the client's objectives?</p>	
<p>5. SOIL QUALITY DEGRADATION: Compaction</p>	<p>Is soil compaction a problem? OR Do activities cause soil compaction problems?</p>		<p><input type="checkbox"/> Soil Compaction Tester <input type="checkbox"/> Observation of soil and plant condition</p>	<p>Is compaction managed to meet Client's production and management objectives?</p>	
<p>6. SOIL QUALITY DEGRADATION: Organic matter depletion</p>	<p>Is permanent ground cover less than 80%?</p>		<p><input type="checkbox"/> Revised Universal Soil Loss Equation Version 2 (RUSLE2) <input type="checkbox"/> Wind Erosion Prediction System (WEPS) Soil Conditioning Index <input type="checkbox"/> Observation of soil and plant condition <input type="checkbox"/> Soil Test</p>	<p>Soil Condition Index (SCI) is greater than 0.3</p>	
<p>7. SOIL QUALITY DEGRADATION: Concentration of Salts or other chemicals</p>	<p>Do activities cause salinity/sodicity problems?</p>		<p><input type="checkbox"/> Soil Test <input type="checkbox"/> Visual Inspection</p>	<p>Are conservation practices and managements in place to mitigate on-site effects?</p>	

Resource Concern	<p>Screening Questions</p> <p>No = Met Screening (Not a Resource Concern) YES = Needs to be Assessed</p> <p><i>Suggested soils reports are italicized</i></p>	<p>YES or NO or NA (Not Applicable)</p>	<p>Assessment Tools (check all that were used)</p>	<p>Assessment Level Required to Meet Planning Criteria</p> <p>YES = Meets Planning Criteria NO = Resource Concern</p>	<p>YES or NO or NA (Not Applicable)</p>
<p>12. WATER QUALITY DEGRADATION: Pesticides transported to surface and groundwaters</p>	<p>Are pest control chemicals applied?</p> <p>OR</p> <p>Is there a water course on or adjacent to the site with State Agency identified pesticides impairment? (Washington Department of Ecology 303d listed for pesticides)</p>		<p><input type="checkbox"/> Windows Pesticide Screening Tool (WinPST)</p> <p><input type="checkbox"/> 303d Listing or Maps</p> <p><input type="checkbox"/> Washington Water Quality Technical Note 1</p> <p><input type="checkbox"/> Revised Universal Soil Loss Equation Version 2 (RUSLE2)</p> <p><input type="checkbox"/> Wind Erosion Prediction System (WEPS)</p> <p><input type="checkbox"/> Stream Visual Assessment Protocol Version 2 (SVAP 2)</p>	<p>Are pesticides stored, handled, disposed and managed to prevent runoff, spills, leaks and leaching?</p> <p>AND</p> <p>Are conservation practices and management in place to minimize offsite impacts?</p> <p>AND</p> <p>Is SVAP2 water appearance element score greater than or equal to 7?</p>	
<p>13. WATER QUALITY DEGRADATION: Excess pathogens and chemicals from manure, biosolids or compost applications</p>	<p>Is manure, biosolids or compost applied on the land (potential sources of pathogens or pharmaceuticals)</p> <p>OR</p> <p>Is there a water course on or adjacent to the site with State Agency identified fecal coliform impairment? (Washington Department of Ecology 303d listed for fecal coliform)</p>		<p><input type="checkbox"/> 303d Listing or Maps</p> <p><input type="checkbox"/> Revised Universal Soil Loss Equation Version 2 (RUSLE2)</p> <p><input type="checkbox"/> Wind Erosion Prediction System (WEPS)</p> <p><input type="checkbox"/> Washington Water Quality Technical Note 1</p> <p><input type="checkbox"/> Stream Visual Assessment Protocol Version 2 (SVAP 2)</p>	<p>Are organic materials applied, stored, and/or handled to mitigate negative impacts to water sources?</p> <p>AND</p> <p>Are conservation practices and management in place to minimize offsite impacts?</p> <p>AND</p> <p>Are SVAP2 water appearance element and manure or human waste element scores greater than or equal to 7?</p>	
<p>14. WATER QUALITY DEGRADATION: Excessive salts in surface and groundwater</p>	<p>Is salt concentration a limiting factor?</p> <p>OR</p> <p>Is there a water course on or adjacent to the site with State Agency identified pH impairment? (Washington Department of Ecology 303d listed for pH)</p> <p><i>Chemical Properties</i></p>		<p><input type="checkbox"/> 303d Listing or Maps</p> <p><input type="checkbox"/> Revised Universal Soil Loss Equation Version 2 (RUSLE2)</p> <p><input type="checkbox"/> Wind Erosion Prediction System (WEPS)</p> <p><input type="checkbox"/> Washington Water Quality Technical Note 1</p> <p><input type="checkbox"/> Stream Visual Assessment Protocol Version 2 (SVAP 2)</p>	<p>Are salt concentrations managed to mitigate off-site transport to surface or ground waters?</p> <p>AND</p> <p>Are conservation practices and management in place to minimize offsite impacts?</p> <p>AND</p> <p>Is SVAP2 salinity element score greater than or equal to 6?</p>	

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15. WATER QUALITY DEGRADATION: Petroleum, heavy metals and other pollutants transported to receiving waters	<p>Do activities present the potential for contamination?</p> <p>OR</p> <p>Is there a water course on or adjacent to the site with State Agency identified heavy metals impairment? (Washington Department of Ecology 303d listed for heavy metals)</p>		<p><input type="checkbox"/> 303d Listing or Maps</p> <p><input type="checkbox"/> Washington Water Quality Technical Note 1</p> <p><input type="checkbox"/> Revised Universal Soil Loss Equation Version 2 (RUSLE2)</p> <p><input type="checkbox"/> Stream Visual Assessment Protocol Version 2 (SVAP 2)</p>	<p>Are petroleum, heavy metals or other potential pollutants stored and handled to avoid runoff or leaching?</p> <p>AND</p> <p>Are conservation practices and management in place to minimize offsite impacts?</p> <p>AND</p> <p>Is SVAP2 water appearance element score greater than or equal to 7?</p>	
16. WATER QUALITY DEGRADATION: Excessive sediment in surface waters T [^] = Tolerable Soil Loss	<p>Is perennial ground cover less than 90%, and slope is greater than 10%.</p> <p>OR</p> <p>Are classic gullies present?</p> <p>OR</p> <p>Are streams or shoreline on or adjacent to the site?</p> <p>OR</p> <p>Is there a water course on or adjacent to the site with State Agency identified sediment impairment? (Washington Department of Ecology 303d listed for sediment)</p>		<p><input type="checkbox"/> Washington Water Quality Technical Note 1</p> <p><input type="checkbox"/> 303d Listing or Maps</p> <p><input type="checkbox"/> Stream Visual Assessment Protocol Version 2 (SVAP 2)</p> <p><input type="checkbox"/> Revised Universal Soil Loss Equation Version 2 (RUSLE2)</p> <p><input type="checkbox"/> Wind Erosion Prediction System (WEPS)</p>	<p>Do upslope treatment and buffer practices address concentrated flows to water bodies?</p> <p>AND</p> <p>Are livestock and vehicle water crossings stable?</p> <p>AND</p> <p>SVAP2 - bank condition element greater than or equal to 7?</p> <p>AND</p> <p>Is water erosion rate less than or equal to T[^]?</p> <p>AND</p> <p>Is wind erosion rate less than or equal to 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? (Washington Department of Ecology 303d listed for temperature)		<input type="checkbox"/> 303d Listing or Maps <input type="checkbox"/> Stream Visual Assessment Protocol Version 2 (SVAP 2)	Is SVAP2 - riparian area quality element score greater than or equal to 7? AND Is SVAP2 - riparian area quantity element score greater than or equal to 7? AND Is SVAP2 - canopy cover element score greater than or equal to 7? OR Are existing practices in place to address water temperature?	
PLANT RESOURCES					
18. DEGRADED PLANT CONDITION: Undesirable plant productivity and health	Are plant production and health a client concern?		<input type="checkbox"/> Crop Tolerance Table (National Agronomy Manual Table 502-1) <input type="checkbox"/> Wind Erosion Prediction System (WEPS) <input type="checkbox"/> Visual Inspection	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?	
19. DEGRADED PLANT CONDITION: Inadequate structure and composition			<input type="checkbox"/> Visual Inspection		
20. DEGRADED PLANT CONDITION: Excessive plant pest pressure	Is plant productivity limited from pest pressure?		<input type="checkbox"/> County Noxious Weed Lists <input type="checkbox"/> Visual Inspection	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 biomass accumulation	Is wildfire hazard a concern?		<input type="checkbox"/> Visual Inspection	Are fuel loads and fuel ladders managed to provide defensible space and meet client objectives?	

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23. LIVESTOCK PRODUCTION LIMITATION: Inadequate feed and forage	(Grazing Modifier) Is the Planning Land Unit (PLU) grazed? <i>Range Productivity, Range Vegetation Classification, Plant Composition</i>	<div style="background-color: #e0e0e0; width: 100%; height: 100%;"></div>	<input type="checkbox"/> Livestock Forge Balance Worksheet	Are livestock forage, roughage and supplemental nutritional requirements addressed?	<div style="background-color: #e0e0e0; width: 100%; height: 100%;"></div>
24. LIVESTOCK PRODUCTION LIMITATION: Inadequate livestock shelter	(Grazing Modifier) Is the Planning Land Unit (PLU) grazed?	<div style="background-color: #e0e0e0; width: 100%; height: 100%;"></div>	<input type="checkbox"/> Visual Inspection	Do artificial or natural shelters meet animal health needs and client objectives?	<div style="background-color: #e0e0e0; width: 100%; height: 100%;"></div>
25. LIVESTOCK PRODUCTION LIMITATION: Inadequate livestock water	(Grazing Modifier) Is the Planning Land Unit (PLU) grazed?	<div style="background-color: #e0e0e0; width: 100%; height: 100%;"></div>	<input type="checkbox"/> Washington Engineering Technical Note 19: Water Requirements-Beef Cattle <input type="checkbox"/> Washington Water Quality Technical Note 1	Is water of acceptable quality and quantity adequately distributed to meet animal needs?	<div style="background-color: #e0e0e0; width: 100%; height: 100%;"></div>
	AND Is there a stream present ?	<div style="background-color: #e0e0e0; width: 100%; height: 100%;"></div>	<input type="checkbox"/> Stream Visual Assessment Protocol Version 2 (SVAP 2)	Are SVAP2 water appearance element and manure or human waste element scores greater than or equal to 8?	<div style="background-color: #e0e0e0; width: 100%; height: 100%;"></div>

Notes:

Checklist of Resource Concerns

PASTURE

MAY 2014

CLIENT		LOCATION	
PLANNER		MODIFIERS	Irrigated <input type="checkbox"/>
LAND UNITS		FARM No.	Wildlife <input type="checkbox"/>
DATE		TRACT No.	Grazed <input type="checkbox"/>

This check sheet is designed to assist planners and clients in identifying resource concerns during the planning process. The planning criteria in Section III of the eFOTG sets the minimum level of treatment needed. 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.

Pasture - Lands composed of introduced or domesticated native forage species that is used primarily for the production of livestock. They receive periodic renovation and/or cultural treatments, such as tillage, fertilization, mowing, weed control, and may be irrigated. They are not in rotation with crops.

Resource Concern	Screening Questions No = Met Screening (Not a Resource Concern) YES = Needs to be Assessed NA = Not Applicable <i>Suggested soils reports are italicized</i>	YES or NO or NA (Not Applicable)	Assessment Tools (check all that were used)	Assessment Level Required to Meet Planning Criteria YES = Meets Planning Criteria NO = Resource Concern	YES or NO or NA (Not Applicable)
SOILS RESOURCES					
1. SOIL EROSION: Sheet, rill and wind <small>T[^] = Tolerable Soil Loss</small>	Is soil surface organic residue cover less than 80%? <i>Physical Properties, Hazard of Erosion On & / Off Road / Trail</i>		<input type="checkbox"/> Revised Universal Soil Loss Equation Version 2 (RUSLE2) <input type="checkbox"/> Wind Erosion Prediction System (WEPS) <input type="checkbox"/> Visual Inspection	Water erosion rate less than or equal to T [^] ? Wind erosion rate less than or equal to T [^] ?	
	2. SOIL EROSION: Concentrated flow erosion <i>Physical Properties, MUD, Hazard of Erosion On & / Off Road / Trail</i>	Are classic gullies present?		<input type="checkbox"/> Field measurements <input type="checkbox"/> Visual Inspection	Is classic gully management adequate to stop the progression of head cutting and widening and are offsite impacts minimized by vegetation and/or structures?

Resource Concern	<p>Screening Questions</p> <p>No = Met Screening (Not a Resource Concern) YES = Needs to be Assessed</p> <p><i>Suggested soils reports are italicized</i></p>	<p>YES or NO or NA (Not Applicable)</p>	<p>Assessment Tools (check all that were used)</p>	<p>Assessment Level Required to Meet Planning Criteria</p> <p>YES = Meets Planning Criteria NO = Resource Concern</p>	<p>YES or NO or NA (Not Applicable)</p>
<p>3.SOIL EROSION: Excessive bank erosion from streams, shorelines or water conveyance channels</p>	<p>Are streams or shoreline on or adjacent to site?</p> <p>OR</p> <p>Is bank erosion from streams, shorelines or conveyance channels present?</p> <p><i>Map Unit Descriptions (MUD)</i></p>	<p>YES or NO or NA (Not Applicable)</p>	<p><input type="checkbox"/> Stream Visual Assessment Protocol Version 2 (SVAP 2)</p> <p>OR</p> <p><input type="checkbox"/> PCS - Pasture Condition Score</p>	<p>Is Pasture Condition Score (PCS) - stream bank / shoreline erosion element score greater than or equal to 7?</p> <p>AND</p> <p>For shorelines and water conveyance channels: Are banks stable or commensurate with normal geomorphological processes?</p> <p>OR</p> <p>If present, is bank erosion caused by upstream land use and beyond the client's control?</p>	<p>YES or NO or NA (Not Applicable)</p>
<p>4. SOIL QUALITY DEGRADATION: Subsidence</p>	<p>Are there Histisol soils present exhibiting subsidence?</p> <p><i>Hydric Soils, Soil Features</i></p>	<p>YES or NO or NA (Not Applicable)</p>	<p><input type="checkbox"/> Visual Inspection</p>	<p>Is subsidence adequately managed to meet the client's objectives?</p>	<p>YES or NO or NA (Not Applicable)</p>
<p>5. SOIL QUALITY DEGRADATION: Compaction</p>	<p>Is soil compaction a problem?</p> <p>OR</p> <p>Do activities cause soil compaction problems?</p> <p><i>Compaction Resistance</i></p>	<p>YES or NO or NA (Not Applicable)</p>	<p><input type="checkbox"/> PCS-Pasture Condition Score</p> <p><input type="checkbox"/> Soil Compaction Tester</p> <p><input type="checkbox"/> Observation of Soil and Plant Condition</p>	<p>Is PCS – compaction element score greater than or equal to 4?</p>	<p>YES or NO or NA (Not Applicable)</p>
<p>6. SOIL QUALITY DEGRADATION: Organic matter depletion</p>	<p>Is permanent ground cover less than 80%?</p> <p><i>Physical Properties</i></p>	<p>YES or NO or NA (Not Applicable)</p>	<p><input type="checkbox"/> PCS - Pasture Condition Score</p> <p><input type="checkbox"/> Revised Universal Soil Loss Equation Version 2 (RUSLE2)</p> <p><input type="checkbox"/> Soil Test</p>	<p>Is Soil Condition Index (SCI) greater than 0?</p> <p>OR</p> <p>Is PCS – plant cover element score greater than or equal to 4?</p> <p>AND</p> <p>Is PCS – plant residue element score greater than or equal to 4?</p>	<p>YES or NO or NA (Not Applicable)</p>

Resource Concern	Screening Questions No = Met Screening (Not a Resource Concern) YES = Needs to be Assessed <i>Suggested soils reports are italicized</i>	YES or NO or NA (Not Applicable)	Assessment Tools (check all that were used)	Assessment Level Required to Meet Planning Criteria YES = Meets Planning Criteria NO = Resource Concern	YES or NO or NA (Not Applicable)
7. SOIL QUALITY DEGRADATION: Concentration of Salts or other chemicals	Do activities cause salinity/sodicity problems? <i>Chemical Properties</i>		<input type="checkbox"/> Soil Test <input type="checkbox"/> Visual Inspection	Are conservation practices and managements in place to mitigate on-site effects?	
WATER RESOURCES					
8. EXCESS WATER: Ponding, flooding, seasonal high water table, seeps and drifted snow	Is excess water a problem? OR Do activities cause ponding/flooding problems? <i>Map Unit Descriptions (MUD), Water Features</i>		<input type="checkbox"/> Visual Observation <input type="checkbox"/> Web Soil Survey (flooding, frequency, class)	Is excess water managed to meet Client's objectives?	
9. INSUFFICIENT WATER: Inefficient moisture management	Is Moisture Management a problem? OR Do activities cause inefficient moisture management?		<input type="checkbox"/> PCS - Pasture Condition Score	Is PCS – compaction element score greater than or equal to 4? AND Is PCS – plant cover element score greater than or equal to 4?	
10. INSUFFICIENT WATER: Inefficient use of irrigation water	Is the Planned Land Unit (PLU) irrigated? AND Is there a stream present ?		<input type="checkbox"/> Farm Irrigation Rating Index (FIRI) WA 2014 <input type="checkbox"/> Stream Visual Assessment Protocol Version 2 (SVAP 2)	Is the Irrigation System efficiency greater than or equal to 85%? OR Less than 10% water savings meets Planning Criteria and is not a resource concern. AND Are SVAP2 hydrologic alteration element and barriers to fish movement element scores greater than or equal to 7?	

Resource Concern	Screening Questions No = Met Screening (Not a Resource Concern) YES = Needs to be Assessed <i>Suggested soils reports are italicized</i>	YES or NO or NA (Not Applicable)	Assessment Tools (check all that were used)	Assessment Level Required to Meet Planning Criteria YES = Meets Planning Criteria NO = Resource Concern	YES or NO or NA (Not Applicable)
11. WATER QUALITY DEGRADATION: Excess nutrients in surface and groundwater	<p>Is the Planned Land Unit (PLU) grazed and/or do cattle have access to the stream, shoreline or conveyance channel and/or is effluent spread on the field?</p> <p>OR</p> <p>Is there a water course on or adjacent to the site with State Agency identified nutrient impairment? (Washington Department of Ecology 303d listed for nutrients)</p>		<input type="checkbox"/> 303d Listing or Maps <input type="checkbox"/> Nutrient Budget <input type="checkbox"/> PCS - Pasture Condition Score <input type="checkbox"/> Washington Water Quality Technical Note 1 <input type="checkbox"/> Washington Water Quality Technical Note 2 <input type="checkbox"/> Washington Water Quality Technical Note 3 <input type="checkbox"/> Soil Test <input type="checkbox"/> Stream Visual Assessment Protocol Version 2 (SVAP 2)	<p>Is Pasture Condition Score (PCS) - stream bank / shoreline erosion element score greater than or equal to 4?</p> <p>AND</p> <p>Is Pasture Condition Score (PCS) - livestock concentration areas element score greater than or equal to 4?</p> <p>AND</p> <p>Are nutrients applied, based on a soil test, tissue tests or nutrient budget?</p> <p>AND</p> <p>Is SVAP2 nutrient enrichment element score greater than or equal to 7?</p>	
12. WATER QUALITY DEGRADATION: Pesticides transported to surface and groundwater's	<p>Are pest control chemicals applied?</p> <p>OR</p> <p>Is there a water course on or adjacent to the site with State Agency identified pesticides impairment? (Washington Department of Ecology 303d listed for pesticides)</p>		<input type="checkbox"/> Windows Pesticide Screening Tool (WinPST) <input type="checkbox"/> 303d Listing or Maps <input type="checkbox"/> Stream Visual Assessment Protocol Version 2 (SVAP 2) <input type="checkbox"/> Washington Water Quality Technical Note 1	<p>Are pesticides stored, handled, disposed and managed to prevent runoff, spills, leaks and leaching?</p> <p>AND</p> <p>Are conservation practices and management in place to minimize offsite impacts?</p> <p>AND</p> <p>Is SVAP2 water appearance element score greater than or equal to 7?</p>	
13. WATER QUALITY DEGRADATION: Excess pathogens and chemicals from manure, bio solids or compost applications	<p>Is manure, biosolids or compost applied on the land (potential sources of pathogens or pharmaceuticals)</p> <p>OR</p> <p>Is there a water course on or adjacent to the site with State Agency identified fecal coliform impairment? (Washington Department of Ecology 303d listed for fecal coliform)</p>		<input type="checkbox"/> 303d Listing or Maps <input type="checkbox"/> Stream Visual Assessment Protocol Version 2 (SVAP 2) <input type="checkbox"/> Washington Water Quality Technical Note 1 <input type="checkbox"/> Revised Universal Soil Loss Equation Version 2 (RUSLE2)	<p>Are organic materials applied, stored, and/or handled to mitigate negative impacts to water sources?</p> <p>AND</p> <p>Are SVAP2 water appearance element and manure or human waste element scores greater than or equal to 7?</p>	

Resource Concern	<p>Screening Questions</p> <p>No = Met Screening (Not a Resource Concern) YES = Needs to be Assessed</p> <p><i>Suggested soils reports are italicized</i></p>	<p>YES or NO or NA (Not Applicable)</p>	<p>Assessment Tools (check all that were used)</p>	<p>Assessment Level Required to Meet Planning Criteria</p> <p>YES = Meets Planning Criteria NO = Resource Concern</p>	<p>YES or NO or NA (Not Applicable)</p>
<p>14. WATER QUALITY DEGRADATION: Excessive salts in surface and groundwater</p>	<p>Is salt concentration a limiting factor?</p> <p>OR</p> <p>Is there a water course on or adjacent to the site with State Agency identified pH impairment? (Washington Department of Ecology 303d listed for pH)</p> <p><i>Chemical Properties</i></p>		<p><input type="checkbox"/> 303d Listing or Maps</p> <p><input type="checkbox"/> Stream Visual Assessment Protocol Version 2 (SVAP 2)</p> <p><input type="checkbox"/> Washington Water Quality Technical Note 1</p>	<p>Are salt concentrations managed to mitigate off-site transport to surface or ground waters?</p> <p>AND</p> <p>Is SVAP2 salinity element score greater than or equal to 6?</p>	
<p>15. WATER QUALITY DEGRADATION: Petroleum, heavy metals and other pollutants transported to receiving waters</p>	<p>Do activities present the potential for contamination?</p> <p>OR</p> <p>Is there a water course on or adjacent to the site with State Agency identified heavy metals impairment? (Washington Department of Ecology 303d listed for heavy metals)</p>		<p><input type="checkbox"/> 303d Listing or Maps</p> <p><input type="checkbox"/> Stream Visual Assessment Protocol Version 2 (SVAP 2)</p> <p><input type="checkbox"/> Washington Water Quality Technical Note 1</p>	<p>Are petroleum, heavy metals or other potential pollutants stored and handled to avoid runoff or leaching?</p> <p>AND</p> <p>Is SVAP2 water appearance element score greater than or equal to 7?</p>	
<p>16. WATER QUALITY DEGRADATION: Excessive sediment in surface waters</p> <p>T[^] = Tolerable Soil Loss</p>	<p>Is perennial ground cover less than 90%, and slope greater than 10%.</p> <p>OR</p> <p>Are classic gullies present?</p> <p>OR</p> <p>Are streams or shoreline on or adjacent to site?</p> <p>OR</p> <p>Is there a water course on or adjacent to the site with State Agency identified sediment impairment? (Washington Department of Ecology 303d listed for sediment)</p>		<p><input type="checkbox"/> 303d Listing or Maps</p> <p><input type="checkbox"/> Stream Visual Assessment Protocol Version 2 (SVAP 2)</p> <p><input type="checkbox"/> Revised Universal Soil Loss Equation Version 2 (RUSLE2)</p> <p><input type="checkbox"/> Wind Erosion Prediction System (WEPS)</p> <p><input type="checkbox"/> Washington Water Quality Technical Note 1</p>	<p>Do upslope treatment and buffer practices address concentrated flows to water bodies?</p> <p>AND</p> <p>Are livestock and vehicle water crossings stable?</p> <p>AND</p> <p>SVAP2 - bank condition greater than or equal to 7?</p> <p>AND</p> <p>Is water erosion rate less than or equal to T[^]?</p> <p>AND</p> <p>Is wind erosion rate less than or equal to T[^]?</p>	

Resource Concern	Screening Questions No = Met Screening (Not a Resource Concern) YES = Needs to be Assessed <i>Suggested soils reports are italicized</i>	YES or NO or NA (Not Applicable)	Assessment Tools (check all that were used)	Assessment Level Required to Meet Planning Criteria YES = Meets Planning Criteria NO = Resource Concern	YES or NO or NA (Not Applicable)
20. DEGRADED PLANT CONDITION: Excessive plant pest pressure	Is plant productivity limited from pest pressure?		<input type="checkbox"/> PCS - Pasture Condition Score <input type="checkbox"/> County Noxious Weed Lists <input type="checkbox"/> Visual Inspection	Is PCS – insect and disease pressure element score greater than or equal to 4? AND Is PCS –site adaptation element score greater than or equal to 4?	
21. DEGRADED PLANT CONDITION: Wildfire hazard, excessive biomass accumulation	Is wildfire hazard a concern?		<input type="checkbox"/> Visual Inspection	Are fuel loads and fuel ladders managed to provide defensible space and meet client objectives?	
23. LIVESTOCK PRODUCTION LIMITATION: Inadequate feed and forage	(Grazing Modifier) Is the Planning Land Unit (PLU) grazed? <i>Range Productivity, Range Vegetation Classification, Plant Composition</i>		<input type="checkbox"/> Pasture & Range Inventory & Assessments <input type="checkbox"/> Livestock Forge Balance Worksheet	Are livestock forage, roughage and supplemental nutritional requirements addressed?	
24. LIVESTOCK PRODUCTION LIMITATION: Inadequate livestock shelter	(Grazing Modifier) Is the Planning Land Unit (PLU) grazed?		<input type="checkbox"/> Visual Inspection	Do artificial or natural shelters meet animal health needs and client objectives?	
25. LIVESTOCK PRODUCTION LIMITATION: Inadequate livestock water	(Grazing Modifier) Is the Planning Land Unit (PLU) grazed?		<input type="checkbox"/> Washington Engineering Technical Note 19: Water Requirements- Beef Cattle <input type="checkbox"/> Washington Water Quality Technical Note 1	Is water of acceptable quality and quantity adequately distributed to meet animal needs?	
	AND Is there a stream present ?		<input type="checkbox"/> Stream Visual Assessment Protocol Version 2 (SVAP 2)	Are SVAP2 water appearance element and manure or human waste element scores greater than or equal to 8?	

Notes:

Checklist of Resource Concerns

RANGE

MAY 2014

CLIENT		LOCATION			
PLANNER		MODIFIERS	Irrigated		
LAND UNITS		FARM No.		Wildlife	
DATE		TRACT No.		Grazed	

This check sheet is designed to assist planners and clients in identifying resource concerns during the planning process. The planning criteria in Section III of the eFOTG sets the minimum level of treatment needed. 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.

Range - Land used primarily for the production of grazing animals. Includes native plant communities and those seeded to native or introduced species, or naturalized by introduced species, that are ecologically managed using range management principles.

Resource Concern	Screening Questions No = Met Screening (Not a Resource Concern) YES = Needs to be Assessed <i>Suggested soils reports are italicized</i>	YES or NO or NA (Not Applicable)	Assessment Tools (check all that were used)	Assessment Level Required to Meet Planning Criteria YES = Meets Planning Criteria NO = Resource Concern	YES or NO or NA (Not Applicable)
SOILS RESOURCES					
1. SOIL EROSION: Sheet, rill and wind	Is State established criteria met?		<input type="checkbox"/> RHA - Rangeland Health Assessment <input type="checkbox"/> Visual Inspection	Is RHA - soil site stability slight to moderate or less?	
	<i>Physical Properties, Hazard of Erosion On & / Off Road / Trail</i>			OR Is Rangeland Planned Trend positive?	
2. SOIL EROSION: Concentrated flow erosion	Are classic gullies present?		<input type="checkbox"/> Field measurements <input type="checkbox"/> Visual Inspection	Is classic gully management adequate to stop the progression of head cutting and widening and are offsite impacts minimized by vegetation and/or structures?	
	<i>Physical Properties, Map Unit Descriptions (MUD), Hazard of Erosion On & / Off Road / Trail</i>				

Resource Concern	<p>Screening Questions</p> <p>No = Met Screening (Not a Resource Concern) YES = Needs to be Assessed</p> <p><i>Suggested soils reports are italicized</i></p>	<p>YES or NO or NA (Not Applicable)</p>	<p>Assessment Tools (check all that were used)</p>	<p>Assessment Level Required to Meet Planning Criteria</p> <p>YES = Meets Planning Criteria NO = Resource Concern</p>	<p>YES or NO or NA (Not Applicable)</p>
<p>3. SOIL EROSION: Excessive bank erosion from streams, shorelines or water conveyance channels</p>	<p>Are streams or shoreline on or adjacent to site?</p> <p>OR</p> <p>Is bank erosion from streams, shorelines or conveyance channels present?</p> <p><i>Map Unit Descriptions (MUD)</i></p>		<p><input type="checkbox"/> Stream Visual Assessment Protocol Version 2 (SVAP 2)</p>	<p>For shorelines and water conveyance channels:</p> <p>Are banks stable or commensurate with normal geomorphological processes?</p> <p>AND</p> <p>For streambanks; Is SVAP2 bank condition element score greater than or equal to 7?</p> <p>OR</p> <p>If present, is bank erosion caused by upstream land use and beyond the client's control?</p>	
<p>4. SOIL QUALITY DEGRADATION: Subsidence</p>			<p><input type="checkbox"/> Visual Inspection</p>		
<p>5. SOIL QUALITY DEGRADATION: Compaction</p>	<p>Is soil compaction a problem?</p> <p>OR</p> <p>Do activities cause soil compaction problems?</p> <p><i>Compaction Resistance</i></p>		<p><input type="checkbox"/> RHA - Rangeland Health Assessment</p> <p><input type="checkbox"/> Observation of soil and plant condition</p>	<p>Is RHA - soil site stability slight to moderate or less?</p> <p>OR</p> <p>Is compaction managed to meet Client's production and management objectives.</p>	
<p>6. SOIL QUALITY DEGRADATION: Organic matter depletion</p>	<p>Is soil organic matter depletion a problem?</p> <p>OR</p> <p>Do activities cause soil organic matter depletion?</p> <p><i>Physical Properties</i></p>		<p><input type="checkbox"/> RHA - Rangeland Health Assessment</p> <p><input type="checkbox"/> Soil Test</p>	<p>Is RHA - soil site stability slight to moderate or less?</p> <p>AND</p> <p>Is RHA – biotic integrity attribute rating slight to moderate departure or less?</p> <p>OR</p> <p>Is Rangeland Planned Trend positive?</p>	
<p>7. SOIL QUALITY DEGRADATION: Concentration of Salts or other chemicals</p>	<p>Do activities cause salinity/sodicity problems?</p> <p><i>Chemical Properties</i></p>		<p><input type="checkbox"/> Soil Test</p> <p><input type="checkbox"/> Visual Inspection</p>	<p>Are conservation practices and managements in place to mitigate on-site effects?</p>	

Resource Concern	Screening Questions No = Met Screening (Not a Resource Concern) YES = Needs to be Assessed <i>Suggested soils reports are italicized</i>	YES or NO or NA (Not Applicable)	Assessment Tools (check all that were used)	Assessment Level Required to Meet Planning Criteria YES = Meets Planning Criteria NO = Resource Concern	YES or NO or NA (Not Applicable)
WATER RESOURCES					
8. EXCESS WATER: Ponding, flooding, seasonal high water table, seeps and drifted snow	Is excess water a problem?				
	OR Do activities cause ponding/flooding problems? <i>Map Unit Descriptions (MUD), Water Features</i>		<input type="checkbox"/> Visual Inspection <input type="checkbox"/> Web Soil Survey	Is excess water managed to meet Client's objectives?	
9. INSUFFICIENT WATER: Inefficient moisture management	Is Moisture Management a problem?				
	OR Do activities cause inefficient moisture management?		<input type="checkbox"/> RHA - Rangeland Health Assessment	Are RHA - hydrologic function attributes slight to moderate or less?	
11. WATER QUALITY DEGRADATION: Excess nutrients in surface and groundwater	Are organic or inorganic nutrients applied?				
	OR Is the Planned Land Unit (PLU) grazed?		<input type="checkbox"/> Nutrient Budget <input type="checkbox"/> Soil Test <input type="checkbox"/> Plant Tissue Test <input type="checkbox"/> 303d Listing or Maps	Are nutrients applied, based on a soil test, tissue tests or nutrient budget? AND	
	OR Are there confined livestock areas?		<input type="checkbox"/> Stream Visual Assessment Protocol Version 2 (SVAP 2)	Are conservation practices and management in place to minimize offsite impacts?	
	OR Is there a water course on or adjacent to the site with State Agency identified nutrient impairment? (Washington Department of Ecology 303d listed for nutrients)			AND Is SVAP2 nutrient enrichment element score greater than or equal to 7?	

Resource Concern	<p>Screening Questions</p> <p>No = Met Screening (Not a Resource Concern) YES = Needs to be Assessed</p> <p><i>Suggested soils reports are italicized</i></p>	<p>YES or NO or NA (Not Applicable)</p>	<p>Assessment Tools (check all that were used)</p>	<p>Assessment Level Required to Meet Planning Criteria</p> <p>YES = Meets Planning Criteria NO = Resource Concern</p>	<p>YES or NO or NA (Not Applicable)</p>
<p>12. WATER QUALITY DEGRADATION: Pesticides transported to surface and groundwaters</p>	<p>Are pest control chemicals applied?</p> <p>OR</p> <p>Is there a water course on or adjacent to the site with State Agency identified pesticides impairment? (Washington Department of Ecology 303d listed for pesticides)</p>		<p><input type="checkbox"/> Windows Pesticide Screening Tool (WinPST)</p> <p><input type="checkbox"/> 303d Listing or Maps</p> <p><input type="checkbox"/> Stream Visual Assessment Protocol Version 2 (SVAP 2)</p> <p><input type="checkbox"/> Washington Water Quality Technical Note 1</p>	<p>Are pesticides stored, handled, disposed and managed to prevent runoff, spills, leaks and leaching?</p> <p>AND</p> <p>Are conservation practices and management in place to minimize offsite impacts?</p> <p>AND</p> <p>Is SVAP2 water appearance element score greater than or equal to 7?</p>	
<p>13. WATER QUALITY DEGRADATION: Excess pathogens and chemicals from manure, biosolids or compost applications</p>	<p>Is manure, biosolids or compost applied on the land (potential sources of pathogens or pharmaceuticals)</p> <p>OR</p> <p>Is there a water course on or adjacent to the site with State Agency identified fecal coliform impairment? (Washington Department of Ecology 303d listed for fecal coliform)</p>		<p><input type="checkbox"/> 303d Listing or Maps</p> <p><input type="checkbox"/> Stream Visual Assessment Protocol Version 2 (SVAP 2)</p> <p><input type="checkbox"/> Washington Water Quality Technical Note 1</p>	<p>Are organic materials applied, stored, and/or handled to mitigate negative impacts to water sources?</p> <p>AND</p> <p>Are SVAP2 water appearance element and manure or human waste element scores greater than or equal to 7?</p>	
<p>14. WATER QUALITY DEGRADATION: Excessive salts in surface and groundwater</p>	<p>Is salt concentration a limiting factor?</p> <p>OR</p> <p>Is there a water course on or adjacent to the site with State Agency identified pH impairment? (Washington Department of Ecology 303d listed for pH)</p> <p><i>Chemical Properties</i></p>		<p><input type="checkbox"/> 303d Listing or Maps</p> <p><input type="checkbox"/> Stream Visual Assessment Protocol Version 2 (SVAP 2)</p> <p><input type="checkbox"/> Washington Water Quality Technical Note 1</p>	<p>Are salt concentrations managed to mitigate off-site transport to surface or ground waters?</p> <p>AND</p> <p>Is SVAP2 salinity element score greater than or equal to 6?</p>	
<p>15. WATER QUALITY DEGRADATION: Petroleum, heavy metals and other pollutants transported to receiving waters</p>	<p>Do activities present the potential for contamination?</p> <p>OR</p> <p>Is there a water course on or adjacent to the site with State Agency identified heavy metals impairment? (Washington Department of Ecology 303d listed for heavy metals)</p>		<p><input type="checkbox"/> 303d Listing or Maps</p> <p><input type="checkbox"/> Stream Visual Assessment Protocol Version 2 (SVAP 2)</p> <p><input type="checkbox"/> Washington Water Quality Technical Note 1</p>	<p>Are petroleum, heavy metals or other potential pollutants stored and handled to avoid runoff or leaching?</p> <p>AND</p> <p>Is SVAP2 water appearance element score greater than or equal to 7?</p>	

Resource Concern	<p>Screening Questions</p> <p>No = Met Screening (Not a Resource Concern) YES = Needs to be Assessed</p> <p><i>Suggested soils reports are italicized</i></p>	<p>YES or NO or NA (Not Applicable)</p>	<p>Assessment Tools (check all that were used)</p>	<p>Assessment Level Required to Meet Planning Criteria</p> <p>YES = Meets Planning Criteria NO = Resource Concern</p>	<p>YES or NO or NA (Not Applicable)</p>
<p>16. WATER QUALITY DEGRADATION: Excessive sediment in surface waters</p>	<p>Are there untreated sources of erosion?</p> <p>OR</p> <p>Are streams or shoreline on or adjacent to site?</p> <p>OR</p> <p>Is there a water course on or adjacent to the site with State Agency identified sediment impairment? (Washington Department of Ecology 303d listed for sediment)</p>		<p><input type="checkbox"/> RHA - Rangeland Health Assessment</p> <p><input type="checkbox"/> Stream Visual Assessment Protocol Version 2 (SVAP 2)</p> <p><input type="checkbox"/> 303d Listing or Maps</p> <p><input type="checkbox"/> Washington Water Quality Technical Note 1</p>	<p>Are RHA - hydrologic function attributes slight to moderate or less?</p> <p>AND</p> <p>SVAP2 - bank condition greater than or equal to 7?</p>	
<p>17. WATER QUALITY DEGRADATION: Elevated water temperature</p>	<p>Is there a water course on or adjacent to the site with State Agency identified temperature impairment? (Department of Ecology 303d listed for temperature)</p>		<p><input type="checkbox"/> Stream Visual Assessment Protocol Version 2 (SVAP 2)</p> <p><input type="checkbox"/> 303d Listing or Maps</p>	<p>Is SVAP2 - riparian area quality element score greater than or equal to 5?</p> <p>AND</p> <p>Is SVAP2 - riparian area quantity element score greater than or equal to 7?</p> <p>AND</p> <p>Is SVAP2 - canopy cover element score greater than or equal to 7?</p> <p>OR</p> <p>Are existing practices in place to address water temperature?</p>	
PLANT RESOURCES					
<p>18. DEGRADED PLANT CONDITION: Undesirable plant productivity and health</p>	<p>Are plant production and health a client concern?</p> <p><i>Range Productivity, Range Vegetation Classification, Plant Composition</i></p>		<p><input type="checkbox"/> RHA - Rangeland Health Assessment</p> <p><input type="checkbox"/> Rangeland Trend Worksheet</p> <p><input type="checkbox"/> Similarity Index</p> <p><input type="checkbox"/> Visual Inspection</p>	<p>Does vegetation meet similarity index of 60 or greater for desired plant community and have a positive trend?</p> <p>OR</p> <p>Is RHA – biotic integrity attribute rating slight to moderate departure or less?</p>	

Resource Concern * required response	Screening Questions No = Met Screening (Not a Resource Concern) YES = Needs to be Assessed <i>Suggested soils reports are italicized</i>	YES or NO or NA (Not Applicable)	Assessment Tools (check all that were used)	Assessment Level Required to Meet Planning Criteria YES = Meets Planning Criteria NO = Resource Concern	YES or NO or NA (Not Applicable)
19. DEGRADED PLANT CONDITION: Inadequate structure and composition	Will changes to the plant community structure or composition better support the desired ecological functions and intended land use?		<input type="checkbox"/> Ecological Site Descriptions <input type="checkbox"/> RHA - Rangeland Health Assessment	Do plant communities contain adequate diversity, composition and structure to support desired ecological functions? OR Is RHA – biotic integrity attribute rating slight to moderate departure or less?	
	OR Are there invasive, non-native, or noxious plant species present or could they become established if the plant community is disturbed?		<input type="checkbox"/> Ecological Site Descriptions <input type="checkbox"/> County Noxious Weed Lists	OR Are invasive, non-native or noxious plant species managed to meet client objectives?	
20. DEGRADED PLANT CONDITION: Excessive plant pest pressure	Is plant productivity limited from pest pressure? <i>Range Productivity, Range Vegetation Classification, Plant Composition</i>		<input type="checkbox"/> County Noxious Weed Lists <input type="checkbox"/> Visual Inspection <input type="checkbox"/> RHA - Rangeland Health Assessment	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 biomass accumulation	Is wildfire hazard a concern?		<input type="checkbox"/> Visual Inspection	Are fuel loads and fuel ladders managed to provide defensible space and meet client objectives?	
23. LIVESTOCK PRODUCTION LIMITATION: Inadequate feed and forage	(Grazing Modifier) Is the Planning Land Unit (PLU) grazed? <i>Range Productivity, Range Vegetation Classification, Plant Composition</i>		<input type="checkbox"/> Pasture & Range Inventory & Assessments <input type="checkbox"/> Livestock Forge Balance Worksheet	Are livestock forage, roughage and supplemental nutritional requirements addressed?	
24. LIVESTOCK PRODUCTION LIMITATION: Inadequate livestock shelter	(Grazing Modifier) Is the Planning Land Unit (PLU) grazed?		<input type="checkbox"/> Visual Inspection	Do artificial or natural shelters meet animal health needs and client objectives?	

Resource Concern * required response	Screening Questions No = Met Screening (Not a Resource Concern) YES = Needs to be Assessed <i>Suggested soils reports are italicized</i>	YES or NO or NA (Not Applicable)	Assessment Tools (check all that were used)	Assessment Level Required to Meet Planning Criteria YES = Meets Planning Criteria NO = Resource Concern	YES or NO or NA (Not Applicable)
25. LIVESTOCK PRODUCTION LIMITATION: Inadequate livestock water	(Grazing Modifier) Is the Planning Land Unit (PLU) grazed?	<input type="checkbox"/> YES <input type="checkbox"/> NO <input type="checkbox"/> NA <input type="checkbox"/> (Not Applicable)	<input type="checkbox"/> Washington Engineering Technical Note 19: Water Requirements- Beef Cattle <input type="checkbox"/> Washington Water Quality Technical Note 1	Is water of acceptable quality and quantity adequately distributed to meet animal needs?	<input type="checkbox"/> YES <input type="checkbox"/> NO <input type="checkbox"/> NA <input type="checkbox"/> (Not Applicable)
	AND Is there a stream present ?	<input type="checkbox"/> YES <input type="checkbox"/> NO <input type="checkbox"/> NA <input type="checkbox"/> (Not Applicable)	<input type="checkbox"/> Stream Visual Assessment Protocol Version 2 (SVAP 2)	Are SVAP2 water appearance element and manure or human waste element scores greater than or equal to 8?	<input type="checkbox"/> YES <input type="checkbox"/> NO <input type="checkbox"/> NA <input type="checkbox"/> (Not Applicable)

Notes:

Checklist of Resource Concerns

FOREST

MAY 2014

CLIENT		LOCATION	
PLANNER		MODIFIERS	Irrigated <input type="checkbox"/>
LAND UNITS		FARM No.	Wildlife <input type="checkbox"/>
DATE		TRACT No.	Grazed <input type="checkbox"/>

This check sheet is designed to assist planners and clients in identifying resource concerns during the planning process. The planning criteria in Section III of the eFOTG sets the minimum level of treatment needed. 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.

Where Ecological Site Descriptions are not available, the planner will use Web Soil Survey as a primary reference for information and comparison. However, the planner may also use USFS Habitat Types or plant associations, or WA DNR's Draft Field Guide of Washington Ecosystems for comparison and support.

Forest - Land on which the primary vegetation is tree cover (climax, natural or introduced plant community) and use is primarily for production of wood products and/or non-timber forest products.

Resource Concern	Screening Questions No = Met Screening (Not a Resource Concern) YES = Needs to be Assessed <i>Suggested soils reports are italicized</i>	YES or NO or NA (Not Applicable)	Assessment Tools (check all that were used)	Assessment Level Required to Meet Planning Criteria YES = Meets Planning Criteria NO = Resource Concern	YES or NO or NA (Not Applicable)
SOILS RESOURCES					
1. SOIL EROSION: Sheet, rill and wind	Is soil surface organic residue cover less than 80% or is there a forest road? <i>Physical Properties, Hazard of Erosion On & / Off Road / Trail</i>		<input type="checkbox"/> Visual inspection <input type="checkbox"/> Forest Roads Inventory Tool	Is the site stable and without visible signs of erosion?	
2. SOIL EROSION: Concentrated flow erosion	Are classic gullies present? <i>Physical Properties, Map Unit Descriptions (MUD), Hazard of Erosion On & / Off Road / Trail</i>		<input type="checkbox"/> Field measurements <input type="checkbox"/> Visual Inspection <input type="checkbox"/> Forest Roads Inventory Tool	Is classic gully management adequate to stop the progression of head cutting and widening and are offsite impacts minimized by vegetation and/or structures?	

Resource Concern	Screening Questions No = Met Screening (Not a Resource Concern) YES = Needs to be Assessed <i>Suggested soils reports are italicized</i>	YES or NO or NA (Not Applicable)	Assessment Tools (check all that were used)	Assessment Level Required to Meet Planning Criteria YES = Meets Planning Criteria NO = Resource Concern	YES or NO or NA (Not Applicable)
WATER RESOURCES					
8. EXCESS WATER: Ponding, flooding, seasonal high water table, seeps and drifted snow	Is excess water a problem? OR Do activities cause ponding/flooding problems? <i>Map Unit Descriptions (MUD), Water Features</i>		<input type="checkbox"/> Visual Inspection <input type="checkbox"/> Forest Roads Inventory Tool	Is excess water managed to meet Client's objectives?	
9. INSUFFICIENT WATER: Inefficient moisture management	Is Moisture Management a problem? OR Do activities cause inefficient moisture management?		<input type="checkbox"/> Forest Roads Inventory Tool <input type="checkbox"/> Topographic Map <input type="checkbox"/> Observation of Soil and Plant Condition	Are runoff and evapotranspiration levels minimized to meet Client's management objectives?	
10. INSUFFICIENT WATER: Inefficient use of irrigation water	Is the Planned Land Unit (PLU) irrigated? <i>(Irrigated modifier)</i>		<input type="checkbox"/> Farm Irrigation Rating Index (FIRI) WA 2014	Is the Irrigation System efficiency greater than or equal to 85%? OR Less than 10% water savings meets Planning Criteria and is not a resource concern.	
	AND Is there a stream present ?		<input type="checkbox"/> Stream Visual Assessment Protocol Version 2 (SVAP 2)	AND Are SVAP2 hydrologic alteration element and barriers to fish movement element scores greater than or equal to 7?	
11. WATER QUALITY DEGRADATION: Excess nutrients in surface and groundwater	Are organic or inorganic nutrients applied? OR Is the Planned Land Unit (PLU) grazed? OR Are there confined livestock areas?		<input type="checkbox"/> Nutrient Budget <input type="checkbox"/> Washington Water Quality Technical Note 1 <input type="checkbox"/> 303d Listing or Maps <input type="checkbox"/> Soil Test <input type="checkbox"/> Plant Tissue Test	Are nutrients applied, based on a soil test, tissue tests or nutrient budget? AND Are conservation practices and management in place to minimize offsite impacts?	
	OR Is there a water course on or adjacent to the site with State Agency identified nutrient impairment? (Washington Department of Ecology 303d listed for nutrients)		<input type="checkbox"/> Stream Visual Assessment Protocol Version 2 (SVAP 2)	AND Is SVAP2 nutrient enrichment element score greater than or equal to 7?	

Resource Concern	<p>Screening Questions</p> <p>No = Met Screening (Not a Resource Concern) YES = Needs to be Assessed</p> <p><i>Suggested soils reports are italicized</i></p>	<p>YES or NO or NA (Not Applicable)</p>	<p>Assessment Tools (check all that were used)</p>	<p>Assessment Level Required to Meet Planning Criteria</p> <p>YES = Meets Planning Criteria NO = Resource Concern</p>	<p>YES or NO or NA (Not Applicable)</p>
<p>12. WATER QUALITY DEGRADATION: Pesticides transported to surface and groundwaters</p>	<p>Are pest control chemicals applied?</p> <p>OR</p> <p>Is there a water course on or adjacent to the site with State Agency identified pesticides impairment? (Washington Department of Ecology 303d listed for pesticides)</p>		<p><input type="checkbox"/> 303d Listing or Maps</p> <p><input type="checkbox"/> Windows Pesticide Screening Tool (WinPST)</p> <p><input type="checkbox"/> Washington Water Quality Technical Note 1</p> <p><input type="checkbox"/> Stream Visual Assessment Protocol Version 2 (SVAP 2)</p>	<p>Are pesticides stored, handled, disposed and managed to prevent runoff, spills, leaks and leaching?</p> <p>AND</p> <p>Are conservation practices and management in place to minimize offsite impacts?</p> <p>AND</p> <p>Is SVAP2 water appearance element score greater than or equal to 7?</p>	
<p>13. WATER QUALITY DEGRADATION: Excess pathogens and chemicals from manure, biosolids or compost applications</p>	<p>Is manure, biosolids or compost applied on the land? (potential sources of pathogens or pharmaceuticals)</p> <p>OR</p> <p>Is there a water course on or adjacent to the site with State Agency identified fecal coliform impairment? (Washington Department of Ecology 303d listed for fecal coliform)</p>		<p><input type="checkbox"/> 303d Listing or Maps</p> <p><input type="checkbox"/> Washington Water Quality Technical Note 1</p> <p><input type="checkbox"/> Stream Visual Assessment Protocol Version 2 (SVAP 2)</p>	<p>Are organic materials applied, stored, and/or handled to mitigate negative impacts to water sources?</p> <p>AND</p> <p>Are SVAP2 water appearance element and manure or human waste element scores greater than or equal to 7?</p>	
<p>14. WATER QUALITY DEGRADATION: Excessive salts in surface and groundwater</p>	<p>Is salt concentration a limiting factor?</p> <p>OR</p> <p>Is there a water course on or adjacent to the site with State Agency identified pH impairment? (Washington Department of Ecology 303d listed for pH)</p> <p><i>Chemical Properties</i></p>		<p><input type="checkbox"/> 303d Listing or Maps</p> <p><input type="checkbox"/> Washington Water Quality Technical Note 1</p> <p><input type="checkbox"/> Stream Visual Assessment Protocol Version 2 (SVAP 2)</p>	<p>Are salt concentrations managed to mitigate off-site transport to surface or ground waters?</p> <p>AND</p> <p>Is SVAP2 salinity element score greater than or equal to 6?</p>	

Resource Concern	<p>Screening Questions</p> <p>No = Met Screening (Not a Resource Concern) YES = Needs to be Assessed</p> <p><i>Suggested soils reports are italicized</i></p>	<p>YES or NO or NA (Not Applicable)</p>	<p>Assessment Tools (check all that were used)</p>	<p>Assessment Level Required to Meet Planning Criteria</p> <p>YES = Meets Planning Criteria NO = Resource Concern</p>	<p>YES or NO or NA (Not Applicable)</p>
<p>15. WATER QUALITY DEGRADATION: Petroleum, heavy metals and other pollutants transported to receiving waters</p>	<p>Do activities present the potential for contamination?</p> <p>OR</p> <p>Is there a water course on or adjacent to the site with State Agency identified heavy metals impairment? (Washington Department of Ecology 303d listed for heavy metals)</p>		<p><input type="checkbox"/> Forest Roads Inventory Tool</p> <p><input type="checkbox"/> Washington Water Quality Technical Note 1</p> <p><input type="checkbox"/> 303d Listing or Maps</p> <p><input type="checkbox"/> Stream Visual Assessment Protocol Version 2 (SVAP 2)</p>	<p>Are petroleum, heavy metals or other potential pollutants stored and handled to avoid runoff or leaching?</p> <p>AND</p> <p>Is SVAP2 water appearance element score greater than or equal to 7?</p>	
<p>16. WATER QUALITY DEGRADATION: Excessive sediment in surface waters</p>	<p>Are there untreated sources of erosion?</p> <p>OR</p> <p>Are streams or shoreline on or adjacent to site?</p> <p>OR</p> <p>Is there a water course on or adjacent to the site with State Agency identified sediment impairment? (Washington Department of Ecology 303d listed for sediment)</p>		<p><input type="checkbox"/> Forest Roads Inventory Tool</p> <p><input type="checkbox"/> Washington Water Quality Technical Note 1</p> <p><input type="checkbox"/> 303d Listing or Maps</p> <p><input type="checkbox"/> Stream Visual Assessment Protocol Version 2 (SVAP 2)</p> <p><input type="checkbox"/> Water Erosion Prediction Project (WEPP) optional</p>	<p>Do upslope treatment and buffer practices address concentrated flows to water bodies?</p> <p>AND</p> <p>Are heavy use areas stable?</p> <p>AND</p> <p>SVAP2 - bank condition greater than or equal to 7?</p>	
<p>17. WATER QUALITY DEGRADATION: Elevated water temperature</p>	<p>Is there a water course on or adjacent to the site with State Agency identified temperature impairment? (Department of Ecology 303d listed for temperature)</p>		<p><input type="checkbox"/> Stream Visual Assessment Protocol Version 2 (SVAP 2)</p> <p><input type="checkbox"/> 303d Listing or Maps</p>	<p>Is SVAP2 - riparian area quality element score greater than or equal to 7?</p> <p>AND</p> <p>Is SVAP2 - riparian area quantity element score greater than or equal to 7?</p> <p>AND</p> <p>Is SVAP2 - canopy cover element score greater than or equal to 7?</p> <p>OR</p> <p>Are existing practices in place to address water temperature?</p>	

Resource Concern	Screening Questions No = Met Screening (Not a Resource Concern) YES = Needs to be Assessed <i>Suggested soils reports are italicized</i>	YES or NO or NA (Not Applicable)	Assessment Tools (check all that were used)	Assessment Level Required to Meet Planning Criteria YES = Meets Planning Criteria NO = Resource Concern	YES or NO or NA (Not Applicable)
PLANT RESOURCES					
18. DEGRADED PLANT CONDITION: Undesirable plant productivity and health	Are there plant production or health concerns? <i>Forest Productivity, Forest Vegetation Classification, Plant Composition</i>		<input type="checkbox"/> Forest Inventory Plots & Transects <input type="checkbox"/> Forestry Technical Note 10 <input type="checkbox"/> Ecological Site Descriptions <input type="checkbox"/> Forestland Health Assessment	Are forest species adapted to the site? AND Do composition and stand density meet Client's objectives and production goals?	
19. DEGRADED PLANT CONDITION: Inadequate structure and composition	Will changes to the plant community structure or composition better support the desired ecological functions and intended land use? OR Are there invasive, non-native, or noxious plant species present or could they become established if the plant community is disturbed?		<input type="checkbox"/> Ecological Site Descriptions <input type="checkbox"/> Forest Inventory Plots & Transects <input type="checkbox"/> Forestland Health Assessment <input type="checkbox"/> County Noxious Weed Lists	Do plant communities contain adequate diversity, composition and structure to support desired ecological functions? OR Are invasive, non-native or noxious plant species managed to meet client objectives?	
20. DEGRADED PLANT CONDITION: Excessive plant pest pressure	Is plant productivity limited from pest pressure?		<input type="checkbox"/> County Noxious Weed Lists <input type="checkbox"/> Forest Inventory Plots & Transects <input type="checkbox"/> Windows Pesticide Screening Tool (WinPST) <input type="checkbox"/> Forestland Health Assessment	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 biomass accumulation	Is wildfire hazard a concern?		<input type="checkbox"/> USFS Photo Series - Fuels <input type="checkbox"/> Forest Inventory Plots & Transects <input type="checkbox"/> Forestry Technical Note 10 <input type="checkbox"/> Forestland Health Assessment	Are fuel loads and fuel ladders managed to provide defensible space and meet client objectives?	
23. LIVESTOCK PRODUCTION LIMITATION: Inadequate feed and forage	Client is actively grazing animals. (<i>Grazing Modifier</i>) <i>Range Productivity, Range Vegetation Classification, Plant Composition</i>		<input type="checkbox"/> Pasture & Range Inventory & Assessments <input type="checkbox"/> Livestock Forge Balance Worksheet	Are livestock forage, roughage and supplemental nutritional requirements addressed?	

Resource Concern	Screening Questions No = Met Screening (Not a Resource Concern) YES = Needs to be Assessed <i>Suggested soils reports are italicized</i>	YES or NO or NA (Not Applicable)	Assessment Tools (check all that were used)	Assessment Level Required to Meet Planning Criteria YES = Meets Planning Criteria NO = Resource Concern	YES or NO or NA (Not Applicable)
24. LIVESTOCK PRODUCTION LIMITATION: Inadequate livestock shelter	Client is actively grazing animals. (<i>Grazing Modifier</i>)	<div style="background-color: #e0e0e0; height: 10px; width: 100%;"></div> <div style="background-color: #ffff00; height: 10px; width: 100%;"></div> <div style="background-color: #c0c0c0; height: 10px; width: 100%;"></div>	<input type="checkbox"/> Visual Inspection	Do artificial or natural shelters meet animal health needs and client objectives?	<div style="background-color: #e0e0e0; height: 10px; width: 100%;"></div> <div style="background-color: #ffff00; height: 10px; width: 100%;"></div> <div style="background-color: #c0c0c0; height: 10px; width: 100%;"></div>
25. LIVESTOCK PRODUCTION LIMITATION: Inadequate livestock water	Client is actively grazing animals. (<i>Grazing Modifier</i>)	<div style="background-color: #e0e0e0; height: 10px; width: 100%;"></div> <div style="background-color: #ffff00; height: 10px; width: 100%;"></div> <div style="background-color: #c0c0c0; height: 10px; width: 100%;"></div>	<input type="checkbox"/> Washington Engineering Technical Note 19: Water Requirements-Beef Cattle	Is water of acceptable quality and quantity adequately distributed to meet animal needs?	<div style="background-color: #e0e0e0; height: 10px; width: 100%;"></div> <div style="background-color: #ffff00; height: 10px; width: 100%;"></div> <div style="background-color: #c0c0c0; height: 10px; width: 100%;"></div>
AND Is there a stream present ?		<div style="background-color: #e0e0e0; height: 10px; width: 100%;"></div> <div style="background-color: #ffff00; height: 10px; width: 100%;"></div> <div style="background-color: #c0c0c0; height: 10px; width: 100%;"></div>	<input type="checkbox"/> Washington Water Quality Technical Note 1 <input type="checkbox"/> Stream Visual Assessment Protocol Version 2 (SVAP 2)	AND Are SVAP2 water appearance element and manure or human waste element scores greater than or equal to 8?	<div style="background-color: #e0e0e0; height: 10px; width: 100%;"></div> <div style="background-color: #ffff00; height: 10px; width: 100%;"></div> <div style="background-color: #c0c0c0; height: 10px; width: 100%;"></div>

Notes:

Checklist of Resource Concerns

FARMSTEAD

MAY 2014

CLIENT		LOCATION	
PLANNER		DATE	
LAND UNITS		FARM No.	TRACT No.

This check sheet is designed to assist planners and clients in identifying resource concerns during the planning process. The planning criteria in Section III of the eFOTG sets the minimum level of treatment needed. 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.

Farmstead - Land used for facilities and supporting infrastructure where farming, forestry, animal husbandry and ranching activities are often initiated.

This may include dwellings, equipment storage plus farm input and output storage and handling facilities. Also includes land dedicated to the facilitation and production of high intensity animal agriculture in a containment facility where daily nutritional requirements are obtained from other lands or feed sources.

Resource Concern	Screening Questions No = Met Screening (Not a Resource Concern) YES = Needs to be Assessed <i>Suggested soils reports are italicized</i>	YES or NO or NA (Not Applicable)	Assessment Tools (check all that were used)	Assessment Level Required to Meet Planning Criteria YES = Meets Planning Criteria NO = Resource Concern	YES or NO or NA (Not Applicable)
SOILS RESOURCES					
1. SOIL EROSION: Sheet, rill and wind T [^] = Tolerable Soil Loss	Is perennial ground cover less than 90%, and slope greater than 10%? <i>Physical Properties, Hazard of Erosion On & / Off Road / Trail</i>		<input type="checkbox"/> Visual Inspection	Is the Water erosion rate less than or equal to T [^] ? AND Is the Wind erosion rate less than or equal to T [^] ?	
2. SOIL EROSION: Concentrated flow erosion	Are classic gullies present? <i>Physical Properties, MUD, Hazard of Erosion On & / Off Road / Trail</i>		<input type="checkbox"/> Field Measurements <input type="checkbox"/> Visual Inspection	Is classic gully management adequate to stop the progression of head cutting and widening and are offsite impacts minimized by vegetation and/or structures?	

Resource Concern	<p>Screening Questions</p> <p>No = Met Screening (Not a Resource Concern) YES = Needs to be Assessed</p> <p><i>Suggested soils reports are italicized</i></p>	<p>YES or NO or NA (Not Applicable)</p>	<p>Assessment Tools (check all that were used)</p>	<p>Assessment Level Required to Meet Planning Criteria</p> <p>YES = Meets Planning Criteria NO = Resource Concern</p>	<p>YES or NO or NA (Not Applicable)</p>
<p>3.SOIL EROSION: Excessive bank erosion from streams, shorelines or water conveyance channels</p>	<p>Are streams or shoreline on or adjacent to site?</p> <p>AND Is bank erosion from streams, shorelines or conveyance channels present? <i>MUD</i></p>	<p>Yellow</p> <p>Blue</p> <p>Yellow</p> <p>Blue</p>	<p><input type="checkbox"/> Stream Visual Assessment Protocol Version 2 (SVAP 2)</p>	<p>For shorelines and water conveyance channels: Are banks stable or commensurate with normal geomorphological processes? AND Is SVAP2 bank condition element score greater than or equal to 7? OR If present, is bank erosion caused by upstream land use and beyond the client's control?</p>	<p>Yellow</p> <p>Red</p> <p>Yellow</p> <p>Red</p>
<p>4. SOIL QUALITY DEGRADATION: Subsidence</p>	<p>Are there Histisol soils present exhibiting subsidence? <i>Hydric Soils, Soil Features</i></p>	<p>Yellow</p> <p>Blue</p>	<p><input type="checkbox"/> Visual Inspection</p>	<p>Is subsidence adequately managed to meet the client's objectives?</p>	<p>Yellow</p> <p>Red</p>
<p>5. SOIL QUALITY DEGRADATION: Compaction</p>	<p>Is soil compaction a problem? OR Do activities cause soil compaction problems? <i>Compaction Resistance</i></p>	<p>Yellow</p> <p>Blue</p>	<p><input type="checkbox"/> PCS - Pasture Condition Score <input type="checkbox"/> Soil Compaction Tester</p>	<p>Is compaction managed to meet Client's production and management objectives?</p>	<p>Yellow</p> <p>Red</p>
<p>8. EXCESS WATER: Ponding, flooding, seasonal high water table, seeps and drifted snow</p>	<p>Is excess water a problem? OR Do activities cause ponding/flooding problems? <i>Map Unit Descriptions (MUD), Water Features</i></p>	<p>Yellow</p> <p>Blue</p>	<p><input type="checkbox"/> Visual Inspection <input type="checkbox"/> Forest Roads Inventory Tool</p>	<p>Is excess water managed to meet Client's objectives?</p>	<p>Yellow</p> <p>Red</p>

Resource Concern	Screening Questions No = Met Screening (Not a Resource Concern) YES = Needs to be Assessed <i>Suggested soils reports are italicized</i>	YES or NO or NA (Not Applicable)	Assessment Tools (check all that were used)	Assessment Level Required to Meet Planning Criteria YES = Meets Planning Criteria NO = Resource Concern	YES or NO or NA (Not Applicable)
WATER RESOURCES					
9. INSUFFICIENT WATER: Inefficient moisture management	Is Moisture Management a problem? OR Do activities cause inefficient moisture management?		<input type="checkbox"/> Visual Inspection	Are runoff and evapotranspiration levels minimized to meet Client's management objectives?	
10. INSUFFICIENT WATER: Inefficient use of irrigation water	Is the Planned Land Unit (PLU) irrigated?		<input type="checkbox"/> Farm Irrigation Rating Index (FIRI) WA 2014	Is the Irrigation System efficiency greater than or equal to 85%? OR Less than 10% water savings meets Planning Criteria and is not a resource concern.	
	AND Is there a stream present ?		<input type="checkbox"/> Stream Visual Assessment Protocol Version 2 (SVAP 2)	AND Are SVAP2 hydrologic alteration element and barriers to fish movement element scores greater than or equal to 7?	
11. WATER QUALITY DEGRADATION: Excess nutrients in surface and groundwater	Are organic or inorganic nutrients applied?		<input type="checkbox"/> Revised Universal Soil Loss Equation Version 2 (RUSLE2) <input type="checkbox"/> Stream Visual Assessment Protocol Version 2 (SVAP 2) <input type="checkbox"/> 303d Listing or Maps	Are nutrients applied, based on a soil test, tissue tests or nutrient budget? AND Are conservation practices and management in place to minimize offsite impacts?	
	OR Is the Planned Land Unit (PLU) grazed?		<input type="checkbox"/> Washington Water Quality Technical Note 1		
	OR Is there a water course on or adjacent to the site with State Agency identified nutrient impairment? (Washington Department of Ecology 303d listed for nutrients)		<input type="checkbox"/> Washington Engineering Technical Note 23 NRCS Assessment Procedure for Existing Waste Storage Ponds (WSP)	AND Is SVAP2 nutrient enrichment element score greater than or equal to 7?	

Resource Concern	<p>Screening Questions</p> <p>No = Met Screening (Not a Resource Concern) YES = Needs to be Assessed</p> <p><i>Suggested soils reports are italicized</i></p>	<p>YES or NO or NA (Not Applicable)</p>	<p>Assessment Tools (check all that were used)</p>	<p>Assessment Level Required to Meet Planning Criteria</p> <p>YES = Meets Planning Criteria NO = Resource Concern</p>	<p>YES or NO or NA (Not Applicable)</p>
<p>12. WATER QUALITY DEGRADATION: Pesticides transported to surface and groundwaters</p>	<p>Are pest control chemicals applied?</p> <p>OR</p> <p>Is there a water course on or adjacent to the site with State Agency identified pesticides impairment? (Washington Department of Ecology 303d listed for pesticides)</p>		<p><input type="checkbox"/> Windows Pesticide Screening Tool (WinPST)</p> <p><input type="checkbox"/> 303d Listing or Maps</p> <p><input type="checkbox"/> Washington Water Quality Technical Note 1</p> <p><input type="checkbox"/> Stream Visual Assessment Protocol Version 2 (SVAP 2)</p>	<p>Are pesticides stored, handled, disposed and managed to prevent runoff, spills, leaks and leaching?</p> <p>AND</p> <p>Are conservation practices and management in place to minimize offsite impacts?</p> <p>AND</p> <p>Is SVAP2 water appearance element score greater than or equal to 7?</p>	
<p>13. WATER QUALITY DEGRADATION: Excess pathogens and chemicals from manure, biosolids or compost applications</p>	<p>Is manure, biosolids or compost applied on the land (potential sources of pathogens or pharmaceuticals)</p> <p>OR</p> <p>Is there a water course on or adjacent to the site with State Agency identified fecal coliform impairment? (Washington Department of Ecology 303d listed for fecal coliform)</p>		<p><input type="checkbox"/> 303d Listing or Maps</p> <p><input type="checkbox"/> Washington Water Quality Technical Note 1</p> <p><input type="checkbox"/> Washington Engineering Technical Note 23 NRCS Assessment Procedure for Existing Waste Storage Ponds (WSP)</p> <p><input type="checkbox"/> Stream Visual Assessment Protocol Version 2 (SVAP 2)</p>	<p>Are organic materials applied, stored, and/or handled to mitigate negative impacts to water sources?</p> <p>AND</p> <p>Are SVAP2 water appearance element and manure or human waste element scores greater than or equal to 7?</p>	

Resource Concern	<p>Screening Questions</p> <p>No = Met Screening (Not a Resource Concern) YES = Needs to be Assessed</p> <p><i>Suggested soils reports are italicized</i></p>	<p>YES or NO or NA (Not Applicable)</p>	<p>Assessment Tools (check all that were used)</p>	<p>Assessment Level Required to Meet Planning Criteria</p> <p>YES = Meets Planning Criteria NO = Resource Concern</p>	<p>YES or NO or NA (Not Applicable)</p>
<p>14. WATER QUALITY DEGRADATION: Excessive salts in surface and groundwater</p>	<p>Is salt concentration a limiting factor?</p> <p>OR</p> <p>Is there a water course on or adjacent to the site with State Agency identified pH impairment? (Washington Department of Ecology 303d listed for pH)</p> <p><i>Chemical Properties</i></p>		<p><input type="checkbox"/> 303d Listing or Maps</p> <p><input type="checkbox"/> Washington Water Quality Technical Note 1</p> <p><input type="checkbox"/> Stream Visual Assessment Protocol Version 2 (SVAP 2)</p>	<p>Are salt concentrations managed to mitigate off-site transport to surface or ground waters?</p> <p>AND</p> <p>Is SVAP2 salinity element score greater than or equal to 6?</p>	
<p>15. WATER QUALITY DEGRADATION: Petroleum, heavy metals and other pollutants transported to receiving waters</p>	<p>Do activities present the potential for contamination?</p> <p>OR</p> <p>Is there a water course on or adjacent to the site with State Agency identified heavy metals impairment? (Washington Department of Ecology 303d listed for heavy metals)</p>		<p><input type="checkbox"/> 303d Listing or Maps</p> <p><input type="checkbox"/> Washington Water Quality Technical Note 1</p> <p><input type="checkbox"/> Stream Visual Assessment Protocol Version 2 (SVAP 2)</p>	<p>Are petroleum, heavy metals or other potential pollutants stored and handled to avoid runoff or leaching?</p> <p>AND</p> <p>Is SVAP2 water appearance element score greater than or equal to 7?</p>	
<p>16. WATER QUALITY DEGRADATION: Excessive sediment in surface waters</p> <p>T[^] = Tolerable Soil Loss</p>	<p>Is perennial ground cover less than 90%, and slope greater than 10%.</p> <p>OR</p> <p>Are classic gullies present?</p> <p>OR</p> <p>Are streams or shoreline on or adjacent to the site?</p> <p>OR</p> <p>Is there a water course on or adjacent to the site with State Agency identified sediment impairment? (Washington Department of Ecology 303d listed for sediment)</p>		<p><input type="checkbox"/> 303d Listing or Maps</p> <p><input type="checkbox"/> Stream Visual Assessment Protocol Version 2 (SVAP 2)</p> <p><input type="checkbox"/> Revised Universal Soil Loss Equation Version 2 (RUSLE2)</p> <p><input type="checkbox"/> Wind Erosion Prediction System (WEPS)</p> <p><input type="checkbox"/> Washington Water Quality Technical Note 1</p>	<p>Do upslope treatment and buffer practices address concentrated flows to water bodies?</p> <p>AND</p> <p>Are livestock and vehicle water crossings stable?</p> <p>AND</p> <p>SVAP2 - bank condition element greater than or equal to 7?</p> <p>AND</p> <p>Is water erosion rate less than or equal to T[^]?</p> <p>AND</p> <p>Is wind erosion rate less than or equal to T[^]?</p>	

Resource Concern	Screening Questions No = Met Screening (Not a Resource Concern) YES = Needs to be Assessed <i>Suggested soils reports are italicized</i>	YES or NO or NA (Not Applicable)	Assessment Tools (check all that were used)	Assessment Level Required to Meet Planning Criteria YES = Meets Planning Criteria NO = Resource Concern	YES or NO or NA (Not Applicable)
17. WATER QUALITY DEGRADATION: Elevated water temperature	Is there a water course on or adjacent to the site with State Agency identified temperature impairment? (Washington Department of Ecology 303d listed for temperature)		<input type="checkbox"/> 303d Listing or Maps <input type="checkbox"/> Stream Visual Assessment Protocol Version 2 (SVAP 2)	Is SVAP2 - riparian area quality element score greater than or equal to 7? AND Is SVAP2 - riparian area quantity element score greater than or equal to 7? AND Is SVAP2 - canopy cover element score greater than or equal to 7? OR Are existing practices in place to address water temperature?	
19. DEGRADED PLANT CONDITION: Inadequate structure and composition	Will changes to the plant community structure or composition better support the desired ecological functions and intended land use? OR Are there invasive, non-native, or noxious plant species present or could they become established if the plant community is disturbed?		<input type="checkbox"/> Visual Inspection <input type="checkbox"/> County Noxious Weed Lists	Do plant communities contain adequate diversity, composition and structure to support desired ecological functions? OR Are invasive, non-native or noxious plant species managed to meet client objectives?	
20. DEGRADED PLANT CONDITION: Excessive plant pest pressure	Is plant productivity limited from pest pressure?		<input type="checkbox"/> PCS-Pasture Condition Score <input type="checkbox"/> Forest Inventory Plots and Transects <input type="checkbox"/> RHA - Rangeland Health Assessment <input type="checkbox"/> County Noxious Weed Lists <input type="checkbox"/> Windows Pesticide Screening Tool (WinPST) <input type="checkbox"/> Visual Inspection	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?	

Resource Concern	Screening Questions No = Met Screening (Not a Resource Concern) YES = Needs to be Assessed <i>Suggested soils reports are italicized</i>	YES or NO or NA (Not Applicable)	Assessment Tools (check all that were used)	Assessment Level Required to Meet Planning Criteria YES = Meets Planning Criteria NO = Resource Concern	YES or NO or NA (Not Applicable)
PLANT RESOURCES					
21. DEGRADED PLANT CONDITION: Wildfire hazard, excessive biomass accumulation	Is wildfire hazard a concern?		<input type="checkbox"/> RHA-Rangeland Health Assessment <input type="checkbox"/> Forest inventory plots	Are fuel loads and fuel ladders managed to provide defensible space and meet client objectives?	
23. LIVESTOCK PRODUCTION LIMITATION: Inadequate feed and forage	(Grazing Modifier) Is the Planning Land Unit (PLU) grazed? <i>Range Productivity, Range Vegetation Classification, Plant Composition</i>		<input type="checkbox"/> Pasture & Range Inventory & Assessments	Are livestock forage, roughage and supplemental nutritional requirements addressed?	
24. LIVESTOCK PRODUCTION LIMITATION: Inadequate livestock shelter	(Grazing Modifier) Is the Planning Land Unit (PLU) grazed?		<input type="checkbox"/> Visual Inspection	Do artificial or natural shelters meet animal health needs and client objectives?	
25. LIVESTOCK PRODUCTION LIMITATION: Inadequate livestock water	(Grazing Modifier) Is the Planning Land Unit (PLU) grazed?		<input type="checkbox"/> Washington Engineering Technical Note 19: Water Requirements-Beef Cattle <input type="checkbox"/> Washington Water Quality Technical Note 1	Is water of acceptable quality and quantity adequately distributed to meet animal needs?	
	AND Is there a stream present ?		<input type="checkbox"/> Stream Visual Assessment Protocol Version 2 (SVAP 2)	Are SVAP2 water appearance element and manure or human waste element scores greater than or equal to 8?	

Notes: