Checklist of Resource Concerns

PASTURE LAND

CLIENT		LAND UNITS/LOCATION	
PLANNER			
DATE			

This check sheet is designed to assist planners and clients in identifying resource concerns during the planning process. The planning criteria outlined in Section III of FOTG sets the ***minimum treatment level*** needed to sustain the resource and will be used when developing alternative solutions

Resource Concern (Grayed box means required evaluation)	Screening Criteria (SC) (If SC are met, is not a resource concern and no further evaluation is needed)	Meets SC? TRUE	Meets SC? FALSE	Assessment Tools (Tools that are bolded are required assessments)	Planning Criteria (PC) If PC are met, is not a resource concern. Otherwise it is a resource concern that must be addressed through planning	Meets PC? TRUE	Meets PC? FALSE
SOIL RESOURCES							
REQUIRED **SOIL EROSION: Sheet, Rill and Wind Erosion**				**Pasture Condition Scoresheet (PCS)**	PCS erosion rating ≥ 4	☐	☐
	OBSERVATIONS/COMMENTS:						
REQUIRED **SOIL EROSION: Concentrated Flow Erosion**				**Pasture Condition Scoresheet (PCS)**	PCS erosion rating > 4	☐	☐
	OBSERVATIONS/COMMENTS:						
REQUIRED **SOIL EROSION: Excessive Bank Erosion from Streams, Shorelines or Water Conveyance Channels**	No streams or shoreline are on or adjacent to site	☐	☐	**SVAP2** (Run full SVAP for all intermittent and perennial streams and any conveyances that are Waters of US. For shorelines and other conveyances, use SVAP bank condition element only. Concrete lined conveyances exempt.) Field observations/client input **Pasture Condition Scoresheet (PCS)**	For shorelines and water conveyance channels – Banks are stable or commensurate with normal geomorphological processes **AND** For streambanks – SVAP2 bank condition element score ≥5 **AND** For all water courses - PCS streambank/shoreline erosion element score ≥ 4	☐	☐
	OR: No bank erosion from streams, shorelines or conveyance channels present	☐	☐				
	OR: Water conveyance is impacted by other jurisdiction out of client's control.	☐	☐		**OR:** If present, bank erosion is caused by upstream land use and beyond the client's control	☐	☐
	OBSERVATIONS/COMMENTS:						

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SOIL QUALITY DEGRADA-TION: Subsidence	Histisol soils are not present			Client input / planner Observation Soil map and report	Subsidence is adequately managed to meet client's objectives		
	OR: Histisol soils are not exhibiting subsidence						
	OBSERVATIONS/COMMENTS:						
REQUIRED **SOIL QUALITY DEGRADA-TION: Compaction**				**Pasture Condition Scoresheet (PCS)**	PCS compaction element score ≥ 4		
	OBSERVATIONS/COMMENTS:						
REQUIRED **SOIL QUALITY DEGRADA-TION: Organic Matter Depletion**				**RUSLE2** **WEPS**	SCI > 0		
				Pasture Condition Scoresheet (PCS)	**OR:** PCS plant cover element score ≥ 4 **AND** PCS plant residue element score ≥ 4		
	OBSERVATIONS/COMMENTS:						
SOIL QUALITY DEGRADAT-ION: Concentration of Salts or Other Chemicals	Activities do not cause salinity/sodicity problems **AND** No visible signs of soil contamination such as white or brown-black crusting on soils, visible crop stress, poor growth.			Soil diagnostic evaluations Soil survey, visual observations	Conservation practices and management are in place to mitigate on-site effects		
	OBSERVATIONS/COMMENTS:						

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WATER RESOURCES							
EXCESS WATER: Ponding, Flooding, Seasonal High Water Table, Seeps, and Drifted Snow	Excess water is not a problem	☐	☐	Client input / planner Observation Wetland determination	Excess water is managed to meet Client's objectives **AND** Conservation practices are designed to meet wetland policy.	☐	☐
	OR: Activities do not cause ponding/flooding problems	☐	☐				
	OBSERVATIONS/COMMENTS:						
REQUIRED **INSUFFICIENT WATER: Inefficient Moisture Management**				**Pasture Condition Scoresheet (PCS)**	PCS compaction element score ≥ 4 **AND** PCS plant cover element score ≥ 4	☐	☐
	OBSERVATIONS/COMMENTS:						
REQUIRED **INSUFFICIENT WATER: Inefficient Use of Irrigation Water**	PLU is not irrigated	☐	☐	**IWI - Irrigation Water Index (not yet available)** **In the interim, FIRI**	IWI ≥ 85% FIRI (existing system efficiency %) > 85% of potential	☐	☐
	OBSERVATIONS/COMMENTS:						
REQUIRED **WATER QUALITY: Excess Nutrients in Surface and Groundwater**				**Pasture Condition Scoresheet (PCS)** Nutrient budget	PCS streambank/shoreline erosion element ≥ 4 **AND** PCS livestock concentration areas element ≥ 4 **AND** Nutrients are applied and based on a soil test, tissue tests or nutrient budget with consideration for nutrients from direct deposition	☐	☐
	OBSERVATIONS/COMMENTS:						

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REQUIRED **WATER QUALITY: Pesticides Transported to Surface and Groundwater**	Pest control chemicals are not applied **AND** Pest control chemicals are not stored, mixed or handled on-site.	☐	☐	Client input / planner observation **WinPST**	Pesticides are stored, handled, disposed and managed to prevent runoff, spills, leaks and leaching **AND** Conservation practices and management are in place to minimize offsite impacts for pesticides with an Intermediate or greater hazard rating in WinPST	☐	☐
	OBSERVATIONS/COMMENTS:						
REQUIRED **WATER QUALITY: Excess Pathogens and Chemicals from Manure, Biosolids or Compost Applications**	Potential sources of pathogens or pharmaceuticals are not applied on the land or stored on site. Sources include: Manure Biosolids Compost Wastewater Rinsewater Cull piles Silage leachate Dead carcasses	☐	☐	Client input / planner Observation INTRA AFO/CAFO site assessment	Organic materials/pathogen sources are applied, stored, and/or handled to mitigate negative impacts to water sources	☐	☐
	OBSERVATIONS/COMMENTS:						
WATER QUALITY: Excessive Salts in Surface and Groundwater	Salt concentration is not a limiting factor to beneficial use **AND** Irrigation is not used to "flush" salts from surface soils.	☐	☐	Client input / planner Observation	Salt concentrations are managed to mitigate off-site transport to surface or ground waters	☐	☐
					OR: Conservation practices and management are in place to mitigate off-site transport to surface or ground water.	☐	☐
	OBSERVATIONS/COMMENTS:						

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WATER QUALITY: Petroleum and Heavy Metals and Other Pollutants Transported to Receiving Waters **Evaluation required if water bodies on/adjacent to site are designated by IDEQ as a impaired by oil/grease**	Activities do not present the potential for contamination **AND** No petroleum products stored, handled, transferred on-site or near wellheads **AND** No irrigation pumps using petroleum products adjacent to surface waters	☐	☐	Client input / planner observation	Petroleum, heavy metals or other potential pollutants are stored and handled to avoid runoff or leaching **AND** Conservation practices and management are in place to mitigate off-site transport to surface or ground water.	☐	☐
	OBSERVATIONS/COMMENTS:						
REQUIRED **WATER QUALITY: Excessive Sediment in Surface Waters**	Streams or shoreline are not on or adjacent to site **AND** There are no untreated souces of erosion	☐	☐	**Pasture Condition Scoresheet (PCS)** **SVAP2**	PCS erosion rating element ≥ 4 **AND** SVAP2 - bank condition ≥ 5 **AND** SVAP2 - riparian area quality element score ≥ 5 **AND** SVAP2 - riparian area quality element score ≥ 5 **AND** Livestock and vehicle water crossings are stable	☐	☐
	OBSERVATIONS/COMMENTS:						
WATER QUALITY: Elevated Water Temperatures **Evaluation required if water bodies on/adjacent to site are designated by IDEQ as a impaired by temperature**	² I·ŭŜ№ Ŏ2dz№ăŜ ŭŜY˙LJŜ№I·ŭdz№Ŝ λY˙LJI·ŏŭă I·№Ŝ ōŜë2yŘ ŭKŜ ŎfΛŜyŭΛă Ŏ2yŭ№2f **! b5** /fΛŜyŭ λă y2ŭ Ŏ2yŭ№ΛōdzŭΛyƎ ŭ2 ŭŜY˙LJŜ№I·ŭdz№Ŝ LJ№2ōfŜY˙	☐	☐	Client input / planner observation **SVAP2**	SVAP2 - riparian area quality element score ≥ 5 **AND** SVAP2 - riparian area quality element score ≥ 5 **AND** SVAP2 - canopy cover element score ≥ 6	☐	☐
					OR: Existing conservation practices are in place to address water temperature	☐	☐
	OBSERVATIONS/COMMENTS: !						

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PLANT RESOURCES							
REQUIRED **DEGRADED PLANT CONDITION: Undesirable Plant Productivity and Health**	No screening criteria - evaluation is required. Use the Tools and Planning Criteria in the first row, unless the producer has a specific objective for pollinators/beneficial insects. In this case, use Tech Note 19 and the Planning Criteria on the second row.			**Pasture Condition Scoresheet (PCS)**	PCS desirable plants element ≥ 3 **AND** PCS plant cover element ≥ 4 **AND** PCS plant vigor element ≥ 4 **AND** Plants are adapted to the site, meet production goals and do not negatively impact other resources	☐	☐
				Tech Note 19, Pasture Sheet	**OR:** Plant productivity is managed for pollinators and/or beneficial insects as a client objective **AND** Tech Note 19 ≥ 5 if pollinators/beneficals is a secondary objective; Tech Note 19 ≥ 7.5 if a primary objective	☐	☐
	OBSERVATIONS/COMMENTS:						
REQUIRED **DEGRADED PLANT CONDITION: Inadequate Structure and Composition**	[redacted]			**Pasture Condition Scoresheet (PCS)** **Tech Note 19 Pasture Sheet** Tech Note 32 Species Habitat Evaluation (SHE) for Greater Sage-grouse and Columbia Sharp-tailed Grouse	Plant communities contain adequate diversity, composition, and structure to support desired ecological functions **AND** PCS desirable plants element ≥ 3 **AND** PCS plant cover element ≥ 4 **AND** PCS plant vigor element ≥ 4 **AND** Tech Note 19 Pasture Sheet or Tech Note 32 SHE ≥ 5	☐	☐
	OBSERVATIONS/COMMENTS:						
REQUIRED **DEGRADED PLANT CONDITION: Excessive Plant Pest Pressure**	Plant productivity is not limited from pest pressure	☐	☐	**Pasture Condition Scoresheet (PCS)**	PCS insect and disease pressure element ≥ 4 **AND** PCS site adaptation element ≥ 4	☐	☐
	OBSERVATIONS/COMMENTS:						

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DEGRADED PLANT CONDITION: Wildfire Hazard, Excessive Biomass Accumulation	Wildfire hazard is not a concern	☐	☐	Client input / planner Observation ESD	Fuel loads and fuel ladders are managed to provide defensible space, to reduce the risk of catastrophic fire, and meet client objectives	☐	☐
	OBSERVATIONS/COMMENTS:						
ANIMAL RESOURCES							
At least ONE assessment tool below must be used if the client has a wildlife objective							
REQUIRED **INADEQUATE HABITAT FOR FISH AND WILDLIFE: Habitat Degradation**	The client does not have a wildlife objective.	☐	☐	SVAP2 Tech Note 19	Tech Note 19 ≥ 5 when wildlife is secondary objective; ≥ 7.5 when primary objective **AND** (when surface stream present) SVAP2 – barriers to movement element score ≥ 7 **AND** SVAP2 – fish habitat complexity element score ≥ 7 **AND** SVAP2 – aquatic invertebrate habitat element score ≥ 7	☐	☐
				Tech Note 32 Species Habitat Evaluation (SHE) for Greater Sage-grouse and Columbia Sharp-tailed Grouse Habitat Suitability Index (HSI)	**OR:** Tech Note 32 SHEs ≥ 5 when wildlife is secondary objective; ≥ 7.5 when primary objective or HSI models completed by NRCS or partner biologist ≥ 0.5 when wildlife is secondary objective; ≥ 0.75 when primary objective	☐	☐
				Biologist Narrative assessment	**OR:** Food, water, space and cover is of available quality and extent to support habitat requirements for the species of interest **AND** The connectivity of habitat components is adequate to support stable populations of targeted species as determined by NRCS or partner biologist and documented in a trip report	☐	☐
	OBSERVATIONS/COMMENTS:						

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REQUIRED **LIVESTOCK PRODUCTION LIMITATION: Inadequate Feed and Forage**	Land Unit is not grazed.			Client input / planner observation GRAS - Grassland Resource Analysis System (not currently functional) In the Interim – Feed/forage balance worksheet CPA009 (range) or CPA020 (irr pasture)	Livestock forage, roughage and supplemental nutritional requirements are addressed		
	OBSERVATIONS/COMMENTS:						
REQUIRED **LIVESTOCK PRODUCTION LIMITATION: Inadequate Livestock Shelter**	Land Unit is not grazed.			Client input / planner observation	Artificial or natural shelters meets animal health needs and client objectives		
	OBSERVATIONS/COMMENTS:						
REQUIRED **LIVESTOCK PRODUCTION LIMITATION: Inadequate Livestock Water**	Land Unit is not grazed.			Client input / planner observation GRAS - Grassland Resource Analysis System - Tool for water distribution (not currently functional) In the Interim – follow guidance in Range Tech Note3, NRPH	Water of acceptable quality and quantity is adequately distributed to meet animal needs		
	OBSERVATIONS/COMMENTS:						

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INEFFICIENT ENERGY USE: Equipment and Facilities	Client is not interested in improving equipment and facilities energy efficiency			USDA approved Type 2 On-Farm Energy Audit minimum criteria established in ANSI/ASABE S612 7/2009 (e.g. CAP 122)	A USDA approved energy audit has been implemented that addresses equipment and facilities to meet client objectives		
				Client input / planner observation NRCS Energy Estimator Conservation on the Farm Checklist	**OR:** On-farm renewable energy and/or energy conserving practices have been implemented to meet client objectives		
	OBSERVATIONS/COMMENTS:						
INEFFICIENT ENERGY USE: Farming and Ranching Practices and Field Operations	Client is not interested in improving energy use in farm and ranch field operations			USDA approved Type 2 On-Farm Energy Audit minimum criteria established in ANSI/ASABE S612 7/2009 (e.g. CAP 124)	A USDA approved energy audit has been implemented that addresses field operations to meet client objectives		
				Client input / planner observation NRCS Energy Estimator Conservation on the Farm Checklist RUSLE2/WEPS	**OR:** On-farm renewable energy and/or energy conserving practices have been implemented to meet client objectives		
	OBSERVATIONS/COMMENTS:						

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		TRUE	FALSE			TRUE	FALSE
REQUIRED **AIR QUALITY IMPACTS: Emissions of Particluate Matter (PM) and PM Precursors**	Not in a PM non-attainment area **AND** Activities are not present that contribute to agricultural source PM or PM precursor emissions **AND** Episodes or complaints of ŠŸ ĭăăĭ2ÿã 2ŦŤ t a óŘdžăúĭĭ ăŸ2ĭ⌊ŠĭĭŠĚĬ·džăúĭĭ ŠúÕ%ú 2ℕ ÕKŠŸ ĭÔĬ·ť ŘℕŦú KĬ·ØŠ ÿ2ú 2ÕÕdžℕℕŠŘ PM Producing Activities: • Prescribed Burn is conducted • Forest fuel loads are elevated • Travel ways are unpaved or untreated with binding agents • Engines (combustion source) • Tillage • Pesticides are applied • Fertilization (manure /commercial) • CAFO/manure management)	☐	☐	Client input / planner Observation AQAC On-Farm Checklist WEPS IDEQ AQ website: http://www.deq.idaho.gov/air-quality/monitoring.aspx WinPST	PM and PM Precursor emissions are managed to meet client objectives **AND** Conservation practices are in place to address the identified air quality concerns.	☐	☐
	OBSERVATIONS/COMMENTS:						
AIR QUALITY IMPACTS: Emissions of Greenhouse Gases (GHGs)	Activities are not present that produce GHGs emissions GHG Producing Activities: • Fertilization (manure/commercial) • CAFO/manure management • Engines (combustion source) • Tillage **AND** GHGs are not regulated in this planning area	☐	☐	Client input / planner Observation AQAC On-Farm Checklist IDEQ AQ website: http://www.deq.idaho.gov/air-quality/monitoring.aspx	Greenhouse gas emissions are managed to meet client Objectives **AND** Conservation practices are in place to address the identified air quality concerns	☐	☐
	OBSERVATIONS/COMMENTS:						

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AIR QUALITY IIMPACTS: Emissions of Ozone Precursors	Operations are not present that produce ozone or precursor emissions Ozone Producing Activities: • Engines (combustion source) • Pesticide application • Burning • CAFO/manure management • Fertilization (manure /commercial)	☐	☐	Client input / planner Observation AQAC On-Farm Checklist IDEQ AQ website: http://www.deq.idaho.gov/air-quality/monitoring.aspx	Ozone precursor emissions are managed to meet client Objectives **AND** Conservation practices are in place to address the identified air quality concerns.	☐	☐
	OBSERVATIONS/COMMENTS:						
AIR QUALITY IMPACTS: Objectionable Odors	Activities are not present that contribute to nuisance air quality conditions Nuisance Producing Activities: • Pesticide application • CAFO / manure management • Composting is conducted **AND** Odor sources are not regulated in this planning area **AND** Episodes or complaints of emissions of PM (dust, smoke, exhaust, etc.), or chemical drift have not occurred	☐	☐	Client input / planner Observation AQAC On-Farm Checklist WinPST	Odors are managed to meet client objectives **AND** Conservation practices are in place to address the identified air quality concerns.	☐	☐
	OBSERVATIONS/COMMENTS:						