Appendix C

COT Report Consistency Evaluation

APPENDIX C
COT REPORT CONSISTENCY EVALUATION

BLM /Forest Service LUP Utah Sub-Region

Evaluation of How the USFWS Conservation Objectives Team (COT) Report Conservation Objectives, Measures, and Options Align with the DEIS Alternatives

Utah Sub-Region GRSG Populations:

- Management Zone II (Wyoming Basin) & VII (Colorado Plateau)
    - Wyoming Basin Population
        - Rich-Morgan-Summit PAC
        - Uintah PAC
        - Portions of the Uinta-Wasatch-Cache National Forest and the Ashley National Forest in Wyoming
- Management Zone III (Southern Great Basin)
    - Northeast Interior Population
        - Strawberry Valley PAC
        - Carbon PAC
    - Sheeprock Population and PAC (aka Tooele-Juab Counties)
    - Emery Population and PAC (aka Sanpete-Emery Counties)
    - South Central Utah Population
        - Greater Parker Mountain PAC
        - Panguitch PAC
        - Bald Hills PAC
    - Southern Great Basin Population
        - Ibapah PAC
        - Hamlin Valley PAC
- Management Zone IV (Snake River Plains)
    - Northern Great Basin Population
        - Box Elder PAC

Issue	Conservation Objective	Conservation Measures and Conservation Options	Alt A	Alt B	Alt C	Alt D	Alt E-1	Alt E-2	Comments
PACs	Retain GRSG habitats within PACs	No conservation measures specified. Are locally derived actions/measures consistent with conservation objective?	MA GRSG-3 MA GRSG-5	GL-GRSG-1 OBJ-GRSG-1 OBJ-GRSG-2 MA GRSG-1 MA GRSG-3 MA GRSG-4	GL-GRSG-1 OBJ-GRSG-1 OBJ-GRSG-2 MA GRSG-1 MA GRSG-4	GL-GRSG-1 OBJ-GRSG-1 OBJ-GRSG-2 MA GRSG-1 MA GRSG-3 MA GRSG-4 MA GRSG-5	GL-GRSG-1 OBJ-GRSG-1 MA GRSG-1 MA GRSG-3 MA GRSG-4 MA GRSG-5	GL-GRSG-1 OBJ-GRSG-1 OBJ-GRSG-2 MA GRSG-1 MA GRSG-3 MA GRSG-4 MA GRSG-5	Under Alternative B, Gordon Creek (Carbon), the Pilot Mountains (Box Elder), and the Bald Hills Exclusions (Bald Hills) would be PGMAs not PPMAs. Under Alternative D, the Bald Hills Exclusions (Bald Hills) and Alton (Panguitch) would be PGMAs not PPMAs.
	If PACs are lost to catastrophic events, implement appropriate restoration efforts.	No conservation measures specified. Are locally derived actions/measures consistent with conservation objective?		OBJ-GRSG-2 MA VEG-12	OBJ-GRSG-2 MA VEG-12 MA VEG-15	OBJ-GRSG-2 MA VEG-12	OBJ-GRSG-1 OBJ-GRSG-2 MA FIRE-3	OBJ-GRSG-2 MA VEG-12	Restoration is a component of all alternatives; however, Alternative C emphasizes passive restoration and Alternative E-1 emphasizes expansion of existing habitat. No alternatives specifically talk about restoration after catastrophic events except post fire rehabilitation. Under Alternative A, there is a large about of variance between the 20 land use plans. In addition to the actions, there is a very active state/federal partnership that is involved in restoration efforts. Land use plans support restoration efforts that are multi-purpose.
	Restore and rehabilitate degraded GRSG habitat within PACs.	No conservation measures specified. Are locally derived actions/measures consistent with conservation objective?		MA GRSG-8 MA LAR-6 MA LAR-10 MA VEG-1 MA VEG-2 MA VEG-3 MA VEG-4	MA GRSG-8 MA LAR-6 MA LAR-10 MA VEG-1 MA VEG-2 MA VEG-3 MA VEG-4	MA GRSG-8 MA LAR-6 MA LAR-10 MA VEG-1 MA VEG-2 MA VEG-3 MA VEG-4	MA GRSG-8 MA VEG-1 MA VEG-8 MA VEG-13	MA GRSG-8 MA LAR-6 MA VEG-1 MA VEG-2 MA VEG-3 MA VEG-4 MA VEG-7	Not all decisions that included the word "restore" or "restoration" were added to the list. Some professional judgment was used in

Issue	Conservation Objective	Conservation Measures and Conservation Options	Alt A	Alt B	Alt C	Alt D	Alt E-1	Alt E-2	Comments
				MA VEG-7 MA VEG-8 MA VEG-10 MA VEG-12 MA VEG-12 MA MIN-17 MA TTM-8 MA TTM-9 MA GRA-4 MA GRA-6 MA GRA-16 MA GRA-17 MA GRA-19	MA VEG-7 MA VEG-8 MA VEG-10 MA VEG-12 MA VEG-13 MA VEG-14 MA VEG-12 MA MIN-17 MA TTM-8 MA TTM-9 MA GRA-7 MA GRA-17 MA GRA-19	MA VEG-7 MA VEG-8 MA VEG-12 MA VEG-13 MA VEG-12 MA TTM-8 MA TTM-9 MA GRA-4 MA GRA-5 MA GRA-16 MA GRA-17 MA GRA-19		MA VEG-8 MA VEG-10 MA VEG-12 MA VEG-12 MA VEG-14 MA MIN-17 MA TTM-8 MA TTM-9 MA GRA-16 MA GRA-17 MA GRA-19	determining which management actions dealt with "degraded habitat." As shown by the discrepancy between the numbers of management actions, Alternative E-1 includes management actions that place emphasis on restoration, but the alternative does not contain nearly as many details on how they would accomplish this. Under Alternative A, there is a large about of variance between the 20 land use plans. In addition to the actions, there is a very active state/federal partnership that is involved in restoration efforts. Land use plans support restoration efforts that are multi-purpose.
	Identify areas and habitats outside of PACs which may be necessary to maintain viability of GRSG. If development or vegetation manipulation activities outside of PACs are proposed, the project proponent should work with federal, state or local agencies and interested stakeholders to ensure consistency with GRSG habitat needs.	No conservation measures specified. Are locally derived actions/measures consistent with conservation objective?		OBJ-GRSG-4 MA GRSG-1 MA GRSG-7 MA GRSG-8	MA GRSG-1 MA GRSG-7	MA GRSG-1 MA GRSG-7	MA GRSG-2 MA GRSG-3	OBJ-GRSG-2 MA GRSG-3 MA GRSG-8	Alternative B-D would designate PPMAs outside of the PACs. Alternative E-1 does not include any management for areas or habitats outside of PACs. Under Alternative A, there is a large about of variance between the 20 land use plans. In addition to the actions, there is a very active state/federal partnership that is involved in restoration

Issue	Conservation Objective	Conservation Measures and Conservation Options	Alt A	Alt B	Alt C	Alt D	Alt E-1	Alt E-2	Comments
									efforts. Land use plans support restoration efforts that are multi-purpose.
	Re-evaluate the status of PACs and adjacent GRSG habitat at least once every 5-years, or when important new information becomes available.	No conservation measures specified. Are locally derived actions/measures consistent with conservation objective?		MA GRSG-3		OBJ-GRSG-5 MA GRSG-3	OBJ-GRSG-3 OBJ-GRSG-5	MA GRSG-2 MA GRSG-3	All alternatives meet this objective. Section 2.4 of the DEIS discusses the GRSG monitoring strategy, which applies to all alternatives. This strategy includes a commitment to monitor GRSG habitat at least once every 5 years; however, it is not accounted for in this table because there is no accompanying management action. There are numerous commitments to monitoring included in the table; however, only management actions that are specifically aimed at monitoring GRSG and habitat were included.
	Actively pursue opportunities to increase occupancy and connectivity between PACs.	No conservation measures specified. Are locally derived actions/measures consistent with conservation objective?		GL-GRSG-1 OBJ-GRSG-4 MA GRSG-1 MA GRSG-7 MA GRSG-8	GL-GRSG-1 MA GRSG-1 MA GRSG-7	GL-GRSG-1 MA GRSG-1 MA GRSG-3 MA GRSG-7	GL-GRSG-1 MA GRSG-2 MA GRSG-3	GL-GRSG-1 OBJ-GRSG-2 MA GRSG-3 MA GRSG-8	
	Maintain or improve existing habitat conditions in areas adjacent to burned habitat.	No conservation measures specified. Are locally derived actions/measures consistent with conservation objective?	MA GRSG-3 MA GRSG-5	GL-GRSG-1 OBJ-GRSG-1 OBJ-GRSG-2 MA GRSG-1 MA GRSG-3 MA GRSG-4	GL-GRSG-1 OBJ-GRSG-1 OBJ-GRSG-2 MA GRSG-1 MA GRSG-4	GL-GRSG-1 OBJ-GRSG-1 OBJ-GRSG-2 MA GRSG-1 MA GRSG-3 MA GRSG-4 MA GRSG-5	GL-GRSG-1 OBJ-GRSG-1 MA GRSG-1 MA GRSG-3 MA GRSG-4 MA GRSG-5	GL-GRSG-1 OBJ-GRSG-1 OBJ-GRSG-2 MA GRSG-1 MA GRSG-3 MA GRSG-4 MA GRSG-5	All alternatives meet this objective; however there are no management actions that include this specific language. The decision throughout is to retain, maintain, or improve existing habitat in PH, which implies maintaining or improving habitat in areas adjacent to burned habitat.

Issue	Conservation Objective	Conservation Measures and Conservation Options	Alt A	Alt B	Alt C	Alt D	Alt E-1	Alt E-2	Comments
Fire	Retain and restore healthy native sagebrush plant communities within the range of GRSG.	Restrict or contain fire within the normal range of fire activity (assuming a healthy native perennial sagebrush community), including size and frequency, as defined by the best available science.	MA FIRE-3	MA FIRE-3 MA FIRE-6 MA FIRE-7	MA FIRE-3 MA FIRE-6 MA FIRE-7	MA FIRE-3 MA FIRE-5 MA FIRE-6 MA FIRE-7 MA FIRE-8	MA FIRE-3 MA FIRE-5 MA FIRE-7	MA FIRE-3 MA FIRE-6 MA FIRE-7	
		Eliminate intentional fires in sagebrush habitats, including prescribed burning of breeding and winter habitats.	MA FIRE-3	MA FIRE-3	MA FIRE-3	MA FIRE-3	MA FIRE-3	MA FIRE-3	
		Design and implement restoration of burned sagebrush habitats to allow for natural succession to healthy native sagebrush plant communities.	MA VEG-12 MA VEG-13 MA GRSG-8	MA VEG-1 MA VEG-9 MA VEG-12 MA VEG-13 MA VEG-14 MA GRSG-8	MA VEG-1 MA VEG-9 MA VEG-12 MA VEG-13 MA VEG-14 MA GRSG-8	MA VEG-1 MA VEG-9 MA VEG-12 MA VEG-13 MA GRSG-8	MA VEG-1 MA VEG-12 MA VEG-13 MA GRSG-8	MA VEG-1 MA VEG-9 MA VEG-12 MA VEG-13 MA VEG-14	
		Implement monitoring programs for restoration activities. To ensure success, monitoring must continue until restoration is complete, with sufficient commitments to make adequate corrections to management efforts if needed.		MA GRSG-3 MA FIRE-3		MA GRSG-3 MA GRSG-4 MA FIRE-3		MA GRSG-3 MA VEG-1 MA FIRE-3	There is a monitoring framework that was developed in close coordination with the USFWS that is included as part of Chapter 2, but not directly in a numbered decision in the Chapter 2 table. The monitoring framework language would apply to all alternatives.
		Immediately suppress fire in all sagebrush habitats.	MA FIRE-7	MA FIRE-7	MA FIRE-7	MA FIRE-7	MA FIRE-7	MA FIRE-7	
		Prevention of fires in GRSG habitats: Which (if any) of Options 1a - d were applied? a) Manage for the maintenance and restoration of healthy perennial grass and sagebrush vegetative communities. b) Management land uses to minimize the spread of invasive species and or facilitate fire ignition. c) Address degraded sagebrush systems before fire occurs. d) Close rangelands that are highly susceptible to fire to OHV use during the fire season.	a) OBJ GRSG-2 MA VEG-2 MA VEG-12 MA VEG-17 MA VEG-18 b) MA VEG-17 MA GRA-21 c) d)	a) OBJ GRSG-2 MA VEG-2 MA VEG-7 MA VEG-9 MA VEG-12 MA VEG-17 b) MA VEG-17 MA FIRE-3 MA GRA-18 MA GRA-21 c) MA FIRE-3 MA VEG-1 MA VEG-2 d) MA TTM-3 MA TTM-4	a) OBJ GRSG-2 MA VEG-2 MA VEG-7 MA VEG-9 MA VEG-12 MA VEG-17 MA VEG-18 b) MA VEG-11 MA VEG-17 MA VEG-18 MA VEG-19 MA GRA-18 MA GRA-21 c) MA FIRE-3 MA VEG-1 MA VEG-2 d) MA TTM-4	a) OBJ GRSG-2 MA GRSG-3 MA VEG-1 MA VEG-2 MA VEG-7 MA VEG-9 MA VEG-12 MA VEG-17 MA VEG-18 b) MA VEG-1 MA VEG-17 MA VEG-18 MA FIRE-1 MA FIRE-3 MA GRA-18 MA GRA-21 c) MA FIRE-1 MA FIRE-3	a) MA VEG-1 MA VEG-18 b) MA VEG-8 MA VEG-13 MA VEG-18 MA FIRE-1 MA FIRE-3 MA GRA-21 c) MA FIRE-1 MA FIRE-3 MA FIRE-5 MA VEG-1 d) MA TTM-4	a) OBJ GRSG-2 MA VEG-1 MA VEG-2 MA VEG-7 MA VEG-9 MA VEG-12 MA VEG-17 MA FIRE-3 b) OBJ GRSG-2 MA VEG-17 MA VEG-20 MA FIRE-3 MA GRA-21 c) MA FIRE-1 MA FIRE-3 MA VEG-1 d) NA	

Issue	Conservation Objective	Conservation Measures and Conservation Options	Alt A	Alt B	Alt C	Alt D	Alt E-1	Alt E-2	Comments
						MA FIRE-5 MA VEG-1 MA VEG-2 d) MA TTM-3 MA TTM-4			
		Which (if any) of Options 2a - j were applied? Note: Only Options c, d, f, and g are appropriate for planning decisions. c) Establish defensible fire lines in areas where: (i) effectiveness is high, (ii) fire risk is likely, and (iii) negative impacts from these efforts are minimized. Avoid use of any vegetative stripping in healthy, unfragmented habitats, unless fire conditions and local ecological conditions so warrant. d) Carefully consider the use of backfires within PACs to minimize the potential for escape and further damage to GRSG and sagebrush habitats. f) Remove highly flammable pinyon-juniper stands in low-elevation sagebrush habitats. g) Reduce risk of human-caused fires by limiting activities that may result in fire during high-risk fire seasons.	c) d) f) g)	c) d) f) MA VEG-1 g)	c) d) f) MA VEG-1 g)	c) MA FIRE-3 d) MA FIRE-8 f) MA GRSG-3 MA VEG-1 g) MA FIRE-5	c) MA FIRE-1 d) f) MA VEG-1 MA VEG-8 g)	c) d) f) MA VEG-1 g)	Decisions that address many of the conservation options are addressed during Fire Management Plans rather than Land Use Plans. As such, while the range of alternatives may not specifically address a given conservation option, the goals and objectives associated with all the alternatives excepting Alternative A would be incorporated into subsequent implementation plans to address the issues raised by the options.
		Which (if any) of Options 3a - e were applied? Note: Only Options c and d are appropriate for decisions in this EIS. c) Apply available seed where it is most likely to be effective and to areas of highest need. d) Ensure GRSG habitat needs are considered in restoration activities including managing for the range of variation, as appropriate for the local areas.	c) d)	c) MA VEG-1 MA VEG-3 MA VEG-6 d) MA VEG-1 MA VEG-2 MA GRA-5 MA GRA-8	c) MA VEG-1 MA VEG-3 MA VEG-6 d) MA VEG-1 MA VEG-2 MA GRA-5 MA GRA-8	c) MA VEG-1 MA VEG-3 MA VEG-6 d) MA VEG-1 MA VEG-2 MA VEG-9 MA GRA-5 MA GRA-8	c) MA VEG-3 d) OBJ GRSG-1 MA VEG-1 MA GRA-8	c) MA VEG-1 MA VEG-3 d) MA VEG-1 MA VEG-2 MA GRA-8	While Alt. A may not include specific decisions related to prioritization of GRSG habitat, most do include objectives and management to consider GRSG, which has occurred during implementation of existing vegetation treatments, restoration projects, and other such activities.
		Was Option 4 applied? Renew and implement BLM Instructional Memorandum (IM) 2011-138	MA VEG-8 MA FIRE-2 MA FIRE-5 MA FIRE-6	MA VEG-8 MA FIRE-2 MA FIRE-5 MA FIRE-6	MA VEG-8 MA FIRE-2 MA FIRE-5 MA FIRE-6	MA VEG-8 MA FIRE-2 MA FIRE-5 MA FIRE-6	MA VEG-8 MA FIRE-2 MA FIRE-5 MA FIRE-6	MA VEG-8 MA FIRE-2 MA FIRE-5 MA FIRE-6	
Non-native	Maintain and restore	Retain all remaining large intact	OBJ GRSG-2	GL-GRSG-1	GL-GRSG-1	GL-GRSG-1	GL-GRSG-1	GL-GRSG-1	There is duplication

Issue	Conservation Objective	Conservation Measures and Conservation Options	Alt A	Alt B	Alt C	Alt D	Alt E-1	Alt E-2	Comments
Invasive Plant Species	healthy, native sagebrush plant communities.	sagebrush patches, particularly at low elevations.		OBJ-GRSG-1 OBJ-GRSG-2 MA GRSG-1 MA GRSG-3 MA GRSG-4	OBJ-GRSG-1 OBJ-GRSG-2 MA GRSG-1 MA GRSG-4	OBJ-GRSG-1 OBJ-GRSG-2 MA GRSG-1 MA GRSG-3 MA GRSG-4 MA GRSG-5	OBJ-GRSG-1 MA GRSG-1 MA GRSG-3 MA GRSG-4 MA GRSG-5	OBJ-GRSG-1 OBJ-GRSG-2 MA GRSG-1 MA GRSG-3 MA GRSG-4 MA GRSG-5	between the alternative actions associated with this conservation measure and those associated with the first measure under PACs.
		Reduce or eliminate disturbances that promote the spread of these invasive species.	MA VEG-17 MA LAR-11	OBJ-GRSG-1 MA GRSG-4 MA LAR-1 MA LAR-2 MA LAR-4 MA LAR-5 MA LAR-11 MA LAR-13 MA MIN-3 MA MIN-6 MA MIN-7 MA MIN-13 MA MIN-14 MA MIN-15 MA MIN-17 MA MIN-19 MA MIN-21 MA MIN-22 MA MIN-26 MA MIN-32 MA TTM-1 MA TTM-2 MA TTM-5 MA TTM-6 MA TTM-7 MA REC-1 MA VEG-17	MA GRSG-4 MA LAR-1 MA LAR-2 MA LAR-4 MA LAR-5 MA LAR-11 MA LAR-13 MA MIN-2 MA MIN-3 MA MIN-6 MA MIN-7 MA MIN-13 MA MIN-14 MA MIN-15 MA MIN-17 MA MIN-19 MA MIN-21 MA MIN-22 MA MIN-26 MA MIN-32 MA TTM-1 MA TTM-2 MA TTM-5 MA TTM-6 MA TTM-7 MA REC-1 MA VEG-17	OBJ-GRSG-1 MA GRSG-4 MA LAR-1 MA LAR-2 MA LAR-5 MA LAR-13 MA MIN-3 MA MIN-6 MA MIN-7 MA MIN-13 MA MIN-14 MA MIN-15 MA MIN-16 MA MIN-19 MA MIN-21 MA MIN-22 MA MIN-26 MA MIN-32 MA TTM-1 MA TTM-2 MA TTM-5 MA TTM-6 MA TTM-7 MA REC-1 MA VEG-17	MA GRSG-3 MA GRSG-4 MA GRSG-5 MA LAR-1 MA LAR-2 MA LAR-13 MA MIN-3 MA MIN-7 MA MIN-13 MA MIN-14 MA MIN-16 MA MIN-19 MA TTM-1 MA TTM-2 MA REC-1	MA GRSG-3 MA GRSG-4 MA LAR-1 MA LAR-2 MA LAR-5 MA LAR-13 MA MIN-3 MA MIN-6 MA MIN-7 MA MIN-13 MA MIN-14 MA MIN-16 MA MIN-17 MA MIN-19 MA MIN-32 MA TTM-1 MA TTM-2 MA TTM-5 MA TTM-6 MA TTM-7 MA VEG-17	This list does not include all management actions that reduce or eliminate disturbance. Some judgment was used to determine which actions best meets this objective.
		Monitor and control invasive vegetation post-wildfire for at least three years.		MA FIRE-3		MA VEG-13 MA GRSG-3 MA FIRE-3		MA GRSG-3 MA FIRE-3	ES&R/BAER policies include consideration of stabilization and rehabilitation for at least three years. Therefore, while not explicitly noted in several alternatives, existing policies are consistent with this option.
		Require best management practices for construction projects in and adjacent to sagebrush habitats to prevent invasion.	MA VEG-8 MA MIN-6 MA MIN-30 MA MIN-33	MA VEG-8 MA MIN-6 MA MIN-14 MA MIN-30 MA MIN-33	MA VEG-8 MA MIN-6 MA MIN-14 MA MIN-30 MA MIN-33	MA VEG-8 MA MIN-6 MA MIN-14 MA MIN-19 MA MIN-30	MA LAR-2 MA LAR-13	MA GRSG-3 MA MIN-6 MA MIN-14 MA MIN-30	

Issue	Conservation Objective	Conservation Measures and Conservation Options	Alt A	Alt B	Alt C	Alt D	Alt E-1	Alt E-2	Comments
						MA MIN-33			
Energy Development	Energy development should be designed to insure that it will not impinge upon stable or increasing GRSG population trends	Avoid energy development in PACs.		MA MIN-7 MA MIN-8 MA MIN-13 MA MIN-18 MA MIN-19 MA MIN-21 MA MIN-22 MA LAR-13	MA MIN-2 MA MIN-7 MA MIN-8 MA MIN-13 MA MIN-18 MA MIN-19 MA MIN-21 MA MIN-22 MA LAR-13	MA MIN-7 MA MIN-8 MA MIN-18 MA MIN-19 MA MIN-20 MA MIN-21 MA MIN-22 MA LAR-13	MA MIN-7 MA MIN-8 MA MIN-18 MA MIN-19 MA LAR-13	MA MIN-7 MA MIN-13 MA MIN-18 MA MIN-19 MA MIN-20 MA LAR-13	Under Alternative A, the degree of avoidance of energy development varies between the 20 existing plans, with some plans including up to 3.1 mile NSO buffers on leks while other plans limited to seasonal stipulations.
		If avoidance is not possible in PACs due to pre-existing valid rights, adjacent development, or split estate issues, development should only occur in non-habitat areas, including all appurtenant structures, with an adequate buffer that is sufficient to preclude impacts to GRSG habitat from noise, and other human activities.		MA MIN-11 MA MIN-22	MA MIN-11 MA MIN-22	MA MIN-11 MA MIN-22	MA MIN-22	MA MIN-22	Under Alternative E2, the language in the Governor's Executive Order includes additional language regarding this COT measure that is not explicitly noted in the alternatives table.
		If development must occur in GRSG habitats due to existing rights and lack of reasonable alternative avoidance measures, the development should occur in the least suitable habitat for GRSG and be designed to ensure at a minimum that there are no detectable declines in GRSG population trends by implementing the following: a) Reduce and maintain the density of energy structures below which there are not impacts to the function of the GRSG habitats and do not result in decline in GRSG populations within the PACs. b) Design development outside PACs to maintain populations within adjacent PACs and allow for connectivity among PACs. c) Consolidate structures and infrastructure associated with energy development. d) Reclamation of disturbance resulting from a proposed project		MA MIN-11 MA MIN-22 MA MIN-23 MA MIN-26 MA MIN-30 a) MA GRSG-4 MA MIN-22 b) MA LAR-7 c) MA GRSG-4 MA LAR-3 MA TTM-5 MA TTM-6 MA TTM-7 d) MA GRSG-4 e) MA MIN-7 MA MIN-8 MA MIN 19 MA LAR-13	MA MIN-11 MA MIN-22 MA MIN-23 MA MIN-26 MA MIN-30 a) MA GRSG-4 MA MIN-22 b) All GRSG habitat would be PPMA MA LAR-13 c) MA GRSG-4 MA LAR-3 MA TTM-5 MA TTM-6 MA TTM-7 d) MA GRSG-4 e) MA MIN-7 MA MIN-8 MA MIN 19 MA LAR-13	MA MIN-11 MA MIN-22 MA MIN-23 MA MIN-26 MA MIN-30 MA GRSG-2 a) MA GRSG-4 MA MIN-19 MA MIN-22 b) MA GRSG-7 MA LAR-7 MA MIN-9 MA MIN-20 c) MA GRSG-4 MA LAR-3 MA TTM-5 MA TTM-6 MA TTM-7 d) MA GRSG-4 e) MA GRSG-5 MA GRSG-7 MA MIN-7 MA MIN-8 MA MIN 19 MA LAR-13	MA MIN-11 MA MIN-22 MA MIN-23 MA MIN-26 MA MIN-30 MA GRSG-2 a) MA MIN-19 b) c) MA GRSG-4 MA LAR-3 d) e) MA GRSG-5 MA MIN-7 MA MIN-8 MA MIN 19 MA LAR-13	MA MIN-11 MA MIN-21 MA MIN-22 a) MA GRSG-4 MA MIN-19 MA MIN-22 b) MA GRSG-7 MA MIN-20 c) MA GRSG-4 MA LAR-4 MA TTM-5 MA TTM-6 MA TTM-7 d) MA GRSG-4 e) MA GRSG-5 MA GRSG-7 MA MIN 19 MA LAR-13	

Issue	Conservation Objective	Conservation Measures and Conservation Options	Alt A	Alt B	Alt C	Alt D	Alt E-1	Alt E-2	Comments
		should only be considered mitigation and not portrayed as minimization. e) Design development to minimize tall structures or other features associated with the development.							
Sagebrush Removal / Elimination	Avoid SB removal or manipulation in GRSG breeding or wintering habitats. Exceptions can be considered where minor habitat losses are sustained while implementing other habitat improvement or maintenance efforts and in areas used as late summer brood habitat.	No conservation measures specified. Are locally derived actions/measures consistent with conservation objective?	OBJ-GRSG-2	OBJ-GRSG-2 MA VEG-3 MA FIRE-3	OBJ-GRSG-2 MA VEG-3 MA FIRE-3 MA VEG-11	OBJ-GRSG-2 MA GRSG-3 MA VEG-3 MA FIRE-3	MA VEG-1 MA FIRE-3	OBJ-GRSG-2	
Grazing	Conduct grazing management for all ungulates in a manner consistent with local ecological conditions that maintains or restores healthy sagebrush shrub and native perennial grass and forb communities and conserves the essential habitat components for GRSG (shrub and nesting cover). Areas which do not currently meet this standard should be managed to restore these components. Adequate monitoring of grazing strategies and their results, with necessary changes in strategies, is essential to ensuring that desired ecological conditions and GRSG response are achieved. Livestock and wild ungulate numbers must be managed at levels that allow native sagebrush vegetative communities	No conservation measures specified. Are locally derived actions/measures consistent with conservation objective?	MA GRA-1 MA GRA-4	MA GRA-1 MA GRA-2 MA GRA-3 MA GRA-4 MA GRA-5 MA GRA-6 MA GRA-8 MA GRA-9 MA GRA-10 MA GRA-11 MA GRA-12 MA GRA-13	MA GRA-1 MA GRA-2 MA GRA-3 MA GRA-4 MA GRA-5 MA GRA-8 MA GRA-9 MA GRA-10 MA GRA-11 MA GRA-12	MA GRA-1 MA GRA-2 MA GRA-3 MA GRA-4 MA GRA-5 MA GRA-6 MA GRA-8 MA GRA-9 MA GRA-10 MA GRA-11 MA GRA-13	MA GRA-1 MA GRA-6 MA GRA-8 MA GRA-10 MA GRA-11 MA GRA-13	MA GRA-1 MA GRA-2 MA GRA-3 MA GRA-6 MA GRA-8 MA GRA-10 MA GRA-11	
		Which (if any) of Options 1 - 5 were applied? Note: Only Option 1 and 3-5 are appropriate for decisions in this LUP amendment process and associated EIS. 1) Ensure that allotments meet ecological potential and wildlife habitat requirements, and that the health and diversity of the native perennial grass community is consistent with the ecological site. 3) Incorporate GRSG habitat needs or habitat characteristics into relevant resource and allotment management plans, including the desired conditions. 4) Conduct habitat assessments	1) MA GRA-4 3) 4) MA GRA-1 5)	1) MA GRA-4 MA GRA-5 MA GRA-6 3) MA GRA-2 MA GRA-5 4) MA GRA-1 MA GRA-8 5) MA GRA-4 MA GRA-9	1) MA GRA-4 MA GRA-5 3) MA GRA-2 MA GRA-5 4) MA GRA-1 MA GRA-8 5) MA GRA-4 MA GRA-9	1) MA GRA-4 MA GRA-5 MA GRA-6 3) MA GRA-2 MA GRA-5 4) MA GRA-1 MA GRA-8 5) MA GRA-4 MA GRA-9	1) 3) MA GRA-6 4) MA GRA-1 MA GRA-8 5)	1) MA GRA-6 3) MA GRA-2 4) MA GRA-1 MA GRA-8 5)	Alternative C1 closes all GRSG habitat to livestock grazing for the life of the plan. As such, it removes any potential threat from livestock and makes review of the conservation options unnecessary. Alternative C referred to in the evaluation to the left is in reference to Alternative C2.

Issue	Conservation Objective	Conservation Measures and Conservation Options	Alt A	Alt B	Alt C	Alt D	Alt E-1	Alt E-2	Comments
	to minimally achieve Proper Functioning Conditions (PFC; for riparian areas) or Rangeland Health Standards (RHS; uplands).	and, where necessary, determine factors causing any failure to achieve the habitat characteristics. Make adjustments as appropriate. 5) Given limited agency resources, priority should be given to PACs and then GRSG habitats adjacent to PACs							
Range Management Structures	Avoid or reduce the impact of range management structures on GRSG.	Range management structures should be designed and placed to be neutral or beneficial to GRSG.		MA GRA-18 MA GRA-19	MA GRA-18 MA GRA-19	MA GRSG-5 MA GRA-18 MA GRA-19	MA GRSG-5 MA GRA-18	MA GRA-18 MA GRA-19	
		Structures that are currently contributing to negative impacts to either GRSG or their habitats should be removed or modified to remove the threat.		MA GRA-19	MA GRA-19	MA GRA-19		MA GRA-19	
Free-Roaming Equid Management	Protect GRSG from the negative influences of grazing by free roaming equids.	Develop, implement, and enforce adequate regulatory mechanisms to protect GRSG habitat from negative influences of grazing by free-roaming equids.	MA WHB-1	MA WHB-1 MA WHB-2 MA WHB-3 MA WHB-4 MA WHB-5 MA WHB-6	MA WHB-1 MA WHB-2 MA WHB-3 MA WHB-5 MA WHB-6	MA WHB-1 MA WHB-2 MA WHB-4 MA WHB-5 MA WHB-6	MA WHB-1	NA	
		Manage free-roaming equids at levels that allow native sagebrush vegetative communities to minimally achieve PFC (for riparian areas) or RHS (for uplands).	MA WHB-1	MA WHB-1 MA WHB-2 MA WHB-3 MA WHB-4 MA WHB-5 MA WHB-6	MA WHB-1 MA WHB-2 MA WHB-3 MA WHB-5 MA WHB-6	MA WHB-1 MA WHB-2 MA WHB-4 MA WHB-5 MA WHB-6	MA WHB-1	NA	
Pinyon-Juniper Expansion	Remove pinyon-juniper from areas of sagebrush that are most likely to support GRSG (post-removal) at a rate at least equal to the rate of pinyon-juniper incursion	No conservation measures specified. Is conservation objective addressed applying locally-derived measures?	MA VEG-1	MA VEG-1	MA VEG-1	MA GRSG-3 MA VEG-1	MA VEG-1	MA VEG-1	Only a few existing plans specifically address reducing juniper encroachment.
		Which (if any) of Options 1 - 4 were applied? 1) Prioritize the use of mechanical treatments for removing pinyon and/or juniper. 2) Use caution when planning use of prescribed fire 3) Reduce juniper cover in GRSG habitats to less than 5%, but preferably eliminate entirely. 4) Employ management actions to maintain the benefit of pinyon and/or juniper removal, including long-term monitoring (greater than 30 years).		1) 2) MA FIRE-3 3) 4) MA GRSG-3 MA FIRE-3	1) 2) MA FIRE-3 3) 4)	1)MA VEG-1 2) MA FIRE-3 3) 4) MA GRSG-3 MA FIRE-3	1) MA VEG-1 2) MA FIRE-3 3) MA GRSG-9 4)	1) 2) MA FIRE-3 3) 4) MA GRSG-3	

Issue	Conservation Objective	Conservation Measures and Conservation Options	Alt A	Alt B	Alt C	Alt D	Alt E-1	Alt E-2	Comments
Agricultural Conversion	Avoid further loss of sagebrush habitat for agricultural activities (both animal and plant production) and prioritize restoration. In areas where taking agricultural lands out of production has benefited GRSG, the programs supporting these actions should be targeted and continued (e.g., CRP/SAFE). Threat amelioration activities should, at a minimum, be prioritized within PACS, but should be considered in all GRSG habitats.	No conservation measures specified. Are locally derived actions/measures consistent with conservation objective?							
		Which (if any) of Options 1 - 4 were applied?	These options are outside the scope of this EIS. The BLM and FS do not have authority to conduct these actions. Though not within BLM or FS jurisdiction, and therefore not included in Alternatives E1 or E2, the state plans include language that either provides incentives to private land owners (E1) or places management on private lands, where legally possible (E2).						
Mining	Maintain stable to increasing GRSG populations and no net loss of GRSG habitats in areas affected by mining	No conservation measures specified. Are locally derived actions/measures consistent with conservation objective?		MA GRSG-4 MA MIN-3 MA MIN-7 MA MIN-8 MA MIN-13 MA MIN-16	MA GRSG-4 MA MIN-3 MA MIN-7 MA MIN-8 MA MIN-13 MA MIN-16	MA GRSG-4 MA GRSG-9 MA MIN-3 MA MIN-3 MA MIN-7 MA MIN-8 MA MIN 9 MA MIN-13 MA MIN-16	MA GRSG-4 MA GRSG-9 MA MIN-1 MA MIN-3 MA MIN-7 MA MIN-8 MA MIN-13 MA MIN-16	MA GRSG-4 MA GRSG-9 MA MIN-3 MA MIN-13 MA MIN-16	
		Which (if any) of Options 1 - 4 were applied? 1) Avoid new mining activities and/or any associated facilities within occupied habitats, including seasonal habitats. 2) Avoid leasing in GRSG habitats until other suitable habitats can be restored to habitats used by GRSG. 3) Reclamation plans should focus on restoring areas disturbed by mining and associated facilities to healthy sagebrush ecosystems, including evidence of use by GRSG. 4) Reclamation of abandoned mine lands should focus on restoring areas to healthy sagebrush ecosystems where possible.	1) MA MIN-3 2) 3) 4)	1) MA MIN-3 MA MIN-7 MA MIN-8 MA MIN-13 MA MIN-16 2) MA GRSG-4 3) MA GRSG-4 4) MA GRSG-4	1) MA MIN-3 MA MIN-7 MA MIN-8 MA MIN-13 MA MIN-16 2) MA GRSG-4 3) MA GRSG-4 4) MA GRSG-4	1) MA MIN-3 MA MIN-4 MA MIN-7 MA MIN-8 MA MIN-9 MA MIN-13 MA MIN-16 2) MA GRSG-4 3) MA GRSG-4 4) MA GRSG-4 MA GRSG-9	1) MA MIN-3 MA MIN-7 MA MIN-8 MA MIN-13 MA MIN-16 2) MA GRSG-9 3) MA GRSG-4 4) MA GRSG-4 MA GRSG-9	1) MA GRSG-5 MA MIN-3 MA MIN-13 MA MIN-16 2) MA GRSG-4 3) MA GRSG-4 4) MA GRSG-4	

Issue	Conservation Objective	Conservation Measures and Conservation Options	Alt A	Alt B	Alt C	Alt D	Alt E-1	Alt E-2	Comments
Recreation	In areas subjected to recreational activities, maintain healthy native sagebrush communities based on local ecological conditions and with consideration of drought conditions, and manage direct and indirect human disturbance (including noise) to avoid interruption of normal GRSG behavior.	No conservation measures specified. Are locally derived actions/measures consistent with conservation objective?		MA REC-1 MA TTM-2 MA GRSG-4	MA REC-1 MA TTM-2 MA GRSG-4	MA REC-1 MA TTM-2 MA GRSG-4 MA GRSG-5	MA REC-1 MA TTM-2 MA GRSG-4 MA GRSG-5	MA REC-1 MA GRSG-4 MA GRSG-5	
		Which (if any) of Options 1 - 2 were applied? 1) Close important GRSG use areas to off-road vehicle use. 2) Avoid development of recreational facilities (e.g., new roads and trails, campgrounds) in GRSG habitats.		1) 2) MA GRSG-4	1) MA TTM-2 2) MA GRSG-4	1) 2) MA GRSG-5	1) 2) MA GRSG-5	1) 2) MA GRSG-5	
Ex-Urban Development /Urbanization	Limit urban and exurban development in GRSG habitats and maintain intact native sagebrush communities	No conservation measures specified. Are locally derived actions/measures consistent with conservation objective?	MA LAR-9	MA LAR-9 MA LAR-10 MA LAR-2 MA LAR-3 MA LAR-4 MA TTM-5 MA TTM-6 MA TTM-7 MA GRSG-4	MA LAR-9 MA LAR-10 MA LAR-2 MA LAR-3 MA LAR-4 MA TTM-5 MA TTM-6 MA TTM-7 MA GRSG-4	MA LAR-9 MA LAR-10 MA LAR-2 MA LAR-3 MA LAR-4 MA TTM-5 MA TTM-6 MA TTM-7 MA GRSG-4	MA LAR-2 MA LAR-3 MA LAR-4 MA GRSG-4	MA LAR-9 MA LAR-10 MA LAR-2 MA LAR-3 MA LAR-4 MA TTM-5 MA TTM-6 MA TTM-7 MA GRSG-4	All existing BLM LUPs have language to consider retaining special status species habitat.
		Which (if any) of Options 1 - 5 were applied? 2) Acquire and manage GRSG habitat to maintain intact ecosystems. 3) Consolidate infrastructure that supports urban and exurban development. 5) Do not relinquish public lands for the purpose of urban development in GRSG habitat.	2) 3) 5) MA LAR-9	2) MA LAR-10 3) MA LAR-2 MA LAR-3 MA LAR-4 MA TTM-5 MA TTM-6 MA TTM-7 MA GRSG-4 5) MA LAR-9	2) MA LAR-10 3) MA LAR-2 MA LAR-3 MA LAR-4 MA TTM-5 MA TTM-6 MA TTM-7 MA GRSG-4 5) MA LAR-9	2) MA LAR-10 3) MA LAR-2 MA LAR-3 MA LAR-4 MA TTM-5 MA TTM-6 MA TTM-7 MA GRSG-4 5) MA LAR-9	2) 3) MA LAR-2 MA LAR-3 MA LAR-4 MA GRSG-4 5)	2) MA LAR-10 3) MA LAR-2 MA LAR-3 MA LAR-4 MA TTM-5 MA TTM-6 MA TTM-7 MA GRSG-4 5) MA LAR-9	Only Options 2, 3, and 5 are applicable to development of landscape-level management plans for the BLM and FS. Though not within BLM or FS jurisdiction, and therefore not included in Alternatives E1 or E2, the state plans include language that either provides incentives to private land owners (E1) or places management on private lands, where legally possible (E2).
Infrastructure	Avoid development of infrastructure within PAC.	No new development of infrastructure within PACs. Designated, but not yet developed infrastructure corridors should be re-located outside of PACs unless it can be demonstrated that these corridors will have no impacts on the maintenance of neutral or	MA LAR-1	MA LAR-2 MA LAR-3 MA LAR-4 MA LAR-7 MA LAR-8 MA TTM-5 MA TTM-6 MA TTM-7	MA LAR-2 MA LAR-3 MA LAR-4 MA TTM-5 MA TTM-6 MA TTM-7	MA LAR-2 MA LAR-3 MA LAR-4 MA LAR-7 MA LAR-8 MA TTM-5 MA TTM-6 MA TTM-7	MA LAR-2 MA LAR-3	MA LAR-2 MA LAR-3 MA LAR-4 MA LAR-7 MA LAR-8 MA TTM-5 MA TTM-6 MA TTM-7	Some existing LUPs include direction for avoiding tall structures associated with infrastructure.

Issue	Conservation Objective	Conservation Measures and Conservation Options	Alt A	Alt B	Alt C	Alt D	Alt E-1	Alt E-2	Comments
		positive GRSG population trends or habitats. New infrastructure should be avoided where individual state plans have identified key connectivity corridors outside of PACs.							
		Where state GRSG management plans provide an effective strategy for infrastructure those strategies should be implemented. In all other situations the conservation options in the COT report should be considered. Which (if any) of Options 1 - 10 were applied? 1) Avoid construction of these features in GRSG habitat, both within and outside of PACs. 2) Power transmission corridors which cannot avoid PACs should be buried (if technically feasible) and disturbed habitat should be restored. a. If avoidance is not possible, consolidate new structures with existing features and/or preclude development of new structures within locally important GRSG habitats. i. Consolidation with existing features should not result in a cumulative corridor width of greater than 200m. ii. Habitat function lost from placement of infrastructure should be replaced. 3) Infrastructure corridors should be designed and maintained to preclude introduction of invasive plant species. 4. Restrictions limiting use of roads should be enforced. 5. Remove transmission lines and roads that are duplicative or are not functional. 6. Transmission line towers should be constructed to severely reduce or eliminate nesting and perching by avian	1) MA LAR-1 2) 3) MA VEG-12 4) 5) 6) 7) 8) 9) 10)	1) MA LAR-2 MA LAR-3 MA LAR-7 2) MA LAR-4 MA LAR-5 3) MA VEG-12 4) MA TTM-1 MA TTM-2 MA TTM-4 5) MA TTM-3 MA TTM-8 MA TTM-9 6) MA LAR-5 7) MA LAR-2 MA LAR-13 8) MA LAR-2 MA VEG-12 9) MA LAR-3 10) MA TTM-8 MA TTM-9	1) MA LAR-2 MA LAR-3 2) MA LAR-4 MA LAR-5 3) MA VEG-12 MA VEG-13 4) MA TTM-1 MA TTM-2 MA TTM-4 5) MA TTM-8 MA ACEC-2 MA TTM-9 6) MA LAR-5 7) MA LAR-2 MA LAR-13 8) MA LAR-2 MA GRSG-4 MA VEG-12 MA VEG-13 MA VEG-14 9) MA LAR-3 10) MA TTM-8 MA TTM-9	1) MA LAR-2 MA LAR-3 MA LAR-7 2) MA LAR-2 MA LAR-4 MA LAR-5 MA GRSG-9 3) MA VEG-12 MA VEG-13 4) MA TTM-1 MA TTM-2 MA TTM-4 5) MA TTM-3 MA TTM-8 MA TTM-8 6) MA GRSG-5 MA GRSG-6 MA LAR-2 MA LAR-5 MA LAR-7 7) MA GRSG-5 MA GRSG-7 MA LAR-2 MA LAR-7 MA LAR-13 8) MA LAR-2 MA GRSG-4 MA VEG-12 MA VEG-13 9) MA GRSG-2 MA GRSG-9 MA LAR-3 10) MA TTM-8 MA TTM-9	1) MA LAR-2 MA LAR-3 2) MA LAR-3 MA GRSG-9 3) MA VEG-13 4) MA TTM-1 MA TTM-2 MA TTM-4 5) MA GRSG-6 6) MA LAR-2 7) MA GRSG-2 MA GRSG-5 MA LAR-2 MA LAR-13 8) MA LAR-2 MA VEG-13 9) MA GRSG-3 MA GRSG-9 MA LAR-3 10)	1) MA LAR-2 MA LAR-3 2) MA LAR-3 MA LAR-4 MA GRSG-9 3) MA VEG-12 4) MA TTM-1 MA TTM-2 MA TTM-4 5) MA TTM-8 MA TTM-9 6) MA GRSG-6 MA LAR-5 7) MA GRSG-5 MA LAR-2 8) MA LAR-2 MA VEG-12 9) MA GRSG-2 MA GRSG-3 MA GRSG-9 10) MA TTM-8 MA TTM-9	

Issue	Conservation Objective	Conservation Measures and Conservation Options	Alt A	Alt B	Alt C	Alt D	Alt E-1	Alt E-2	Comments
		predators. 7. Avoid installation of compressor stations in PACs or other GRSG habitats where GRSG would be affected by noise and operation activities. 8. All commercial pipelines should be buried and habitat that is disturbed needs to be reclaimed with current and future emphasis placed on suppression of non-native invasive plant species. 9. Mitigate impacts to habitat from development of these features. 10. Remove (or decommission) non-designated roads within sagebrush habitats.							
Fences	Minimize the impact of fences on GRSG populations	No conservation measures specified. Are locally derived actions/measures consistent with conservation objective?		MA GRA-18 MA GRA-19 MA GRA-20	MA GRA-18 MA GRA-19 MA GRA-20	MA GRA-18 MA GRA-19 MA GRA-20	MA GRA-18 MA GRA-20	MA GRA-18 MA GRA-19 MA GRA-20	
		Which (if any) of Options 1 - 3 were applied? 1) Mark fences that are in high risk areas for collision. 2) Identify and remove unnecessary fences. 3) Placement of new fences and livestock management facilities (including corrals, loading facilities, water tanks and windmills) should consider their impact on GRSG and, to the extent practicable, be placed at least 1 km from occupied leks.		1) MA GRA-20 2) MA GRA-19 3) MA GRA 18 MA GRA 20	1) MA GRA-20 2) MA GRA-19 MA ACEC-2 3) MA GRA 18 MA GRA 20	1) MA GRA-20 2) MA GRA-19 3) MA GRA 18 MA GRA 20	1) MA GRA-20 2) 3)	1) MA GRA-20 2) MA GRA-19 3) MA GRA 18 MA GRA 20	

Actions as Labeled in Table 2-1 of DEIS

GRSG = Greater Sage-Grouse
FIRE- Fire Management
VEG- Vegetation Management (Including non-native, invasive plant species)
MIN- Minerals
GRA- Livestock Grazing
WHB- Wild Horse and Burro
LAR- Lands and Realty
TTM-Trails and Travel Management
REC- Recreation