Colorado Package

lssue 4.1	Fire and fuel treatments may impact GrSG					
Objective	Wildfire – impacts to habitat					
4.1.1						
Reference	Conservation Strategy	Responsible Parties	Timeline	Implementation		
Number						
4.1.1.1	Plan fire suppression response to potential wildfires in important GrSG habitat. Schedule annual coordination meetings and share fire response and GrSG seasonal habitat information with county, fire district, and federal fire fighting officials to plan and implement appropriate response to wildfires in these areas. Lek and telemetry data are considered sensitive information by CDOW. Limit data distribution to the extent necessary for effective management.	BLM	Annually			
4.1.1.2	Train and use resource advisors to assist with considering sage-grouse conservation in prioritizing response to fire during multiple ignition episodes. Distribute sage-grouse information updates to fire dispatchers for initial attack planning. [See also Information, Communication, and Education Strategy 12.3.1.1]	BLM	Training: annually; Updates: as needed	BLM: BLM provides annual training to local and emphasizes SG conservation thru IM W Resource advisors have access to the most data available.		
4.1.1.3	Burn-out/backfiring operations, dozer line construction, and other suppression activities in GrSG habitat should be conducted in a manner, and if possible in a location, that minimizes the loss of sagebrush, while still providing for public and fire crew safety.	BLM	As needed	BLM: SG occupied habitat is considered wh techniques and location for fire fighting eff		
4.1.1.4	Where practical, locate fire camps, staging areas, and helibases at least 2 miles away from GrSG leks, and preferably outside of GrSG habitat.	BLM	Annual discussion with FMOs	BLM: SG occupied habitat is considered wh traffic areas for fire fighting efforts.		
4.1.1.5	Fire specialists and wildlife biologists should review and update area Wild Fire Management Plans in GrSG habitat every 5 years, or as necessary due to increased fire activity or risk.	BLM	Every 5 years	BLM: These fire plans are reviewed annual Field Office Managers following a review chissues are brought forward, additional review		
4.1.1.6	Manage habitat mosaics and fuel loads in and adjacent to GrSG habitats to minimize the possibility of catastrophic wildfires, while maintaining sage-grouse habitat quality (see CCP Appendix A, "GrSG Structural Habitat Guidelines".	BLM	Annually as crews available	BLM: Fuel projects under WUI (Wildland U those proposed for SG habitat improvemer habitat objectives in their design and imple		
4.1.1.7	Map all wildfire, prescribed burns, and fuel treatments in GrSG habitat within one year of occurrence, and develop a GIS layer of "vegetation modification" history (see "Habitat Monitoring" strategy, pg. 354; see also strategy 4.1.2.9). Track cumulative historic wildfire events under the umbrella of local fire management plans.	BLM	Annually	BLM: In January 2013, a national fire perim be conducted bringing our fire map data (h fires, > 10 ac) in line with national data star updated on an annual basis after this.		
4.1.1.8	Conduct post-fire operation reviews/evaluations in areas where fires were large enough or intense enough to cause long-term degradation of GrSG habitat. The intent is to improve fire fighting priority setting, tactics, or resource availability in preparation for potential fires in sage-grouse habitat. The urgency of the review depends on when in the fire season the fire occurred, how typical or significant it was, and if there are clearly opportunities to identify and fix problems resulting from individual fires, and to learn important lessons.	BLM	Only as needed or warranted	BLM: One major fire has occurred on BLM i since 2008. No issues were identified relat operations & procedures.		
4.1.1.9	At the wildland-urban interface bordering sagebrush habitats, increase public education and implement fuel reduction projects to reduce the risk of human-caused fires escaping into GrSG habitats (examples include pamphlets, news releases). [See also Information, Communication, and Education Strategy 12.2.1.3]	BLM	Annually and as needed during fire season	BLM: If issues are brought forward in the w interface near SB habitat, a project is subm WUI program.		
4.1.1.10	During annual training for fire fighting personnel, increase awareness of issues and potential impacts of fire and suppression activities in GrSG habitats. [See also Information,	BLM	Annually	BLM: Emphasis on SG management is part fighting training.		

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4. Fire and	d Fuels Management			
Objective 4.1.2	Prescribed burns and fuel treatments – impacts to habitat			
Reference Number	Conservation Strategy	Responsible Parties	Timeline	Implementation
4.1.2.1	Use prescribed burning and mechanical fuels treatments at an appropriate scale (i.e., smaller is better) to maintain or improve the quality and quantity of GrSG habitats. Consider fire scale, seasonality, and moisture regime from a GrSG habitat management perspective (as well as air quality issues, as guided by state regulations) in planning prescribed burns (see "Habitat Enhancement Strategy" [pg. 349] and Monsen 2005).	BLM	During project planning	BLM: All habitat and fuels projects conduct consider SG habitat objectives & site capate design, analysis and implementation.
4.1.2.2	All prescribed burns or mechanical fuel treatments within sagebrush areas should have identified GrSG habitat objectives, and should consider existing sagebrush communities, site conditions, and site potential in treatment design (see "Habitat Enhancement Strategy" [pg. 349] and Monsen 2005).	BLM	Project - dependent	BLM: All habitat and fuels projects conduct consider SG habitat objectives & site capate design, analysis and implementation.
4.1.2.3	In xeric (dry) occupied and potential GrSG habitat, design prescribed burns that are small, irregular in shape, and that encourage natural reestablishment of the native plant community. For burns that are larger than 5 acres in xeric sites in occupied or potential GrSG habitat, encourage sagebrush rehabilitation with appropriate seed mixture (see "Habitat Enhancement" strategy, pg. 349, and CCP Appendix D, "Recommendations Regarding Plant Species for Use in GrSG Habitat Management and Restoration").	BLM	As needed	BLM: All habitat and fuels projects conduct consider SG habitat objectives & site capate design, analysis and implementation.
4.1.2.4	Avoid fire or mechanical fuel reduction treatments within GrSG habitat in areas susceptible to invasion by cheatgrass or other invasive plant species, except where they are part of a well-defined and aggressive restoration program (see "Habitat Enhancement" strategy, pg. 349).	BLM	As needed	BLM: All habitat and fuels projects conduct consider SG habitat objectives & site capat design, analysis and implementation.
4.1.2.5	In areas where sagebrush is limited on the landscape, avoid the use of prescribed fire and other sagebrush reduction projects in areas that currently meet GrSG breeding or winter habitat requirements (see "Habitat Enhancement" strategy, pg. 349 and CCP Appendix B, "GrSG Disturbance Guidelines").	BLM	During project planning	BLM: All habitat and fuels projects conduct consider SG habitat objectives & site capate design, analysis and implementation.
4.1.2.6	Protect sagebrush adjacent to riparian zones, meadows, lakebeds, and croplands that include important GrSG summer habitat.	BLM	During project planning	BLM: SG habitat objectives are considered any treatment project in SG habitat. There existing SB habitat adjacent to riparian are provide brood rearing or summer habitat v
4.1.2.7	To avoid introduction of noxious weeds in GrSG habitat, wash vehicles and heavy equipment for fires and mechanical fuel reduction treatments prior to arrival at a new location (see "Weeds" strategy, pg. 425).	BLM	As needed	BLM: This is a BMP that is applied when ap NEPA on projects in SG habitat.
4.1.2.8	Consider recent drought events and their effects on GrSG habitat (e.g., understory vigor) when planning/implementing fire or fuel reduction treatment projects (see "Weather" strategy, pg. 423).	BLM	During project planning	BLM: All habitat and fuels projects conduct consider SG habitat objectives & site capat design, analysis and implementation.
4.1.2.9	Map all burns and fuel treatments in GrSG habitat within one year of occurrence, and develop a GIS layer of "vegetation modification" history (see "Habitat Monitoring" strategy, pg. 354; see also strategy 4.1.1.7).	BLM	Annually	BLM: All Burns & fuel treatments will be m National BLM data standards early in 2013
Objective	All fire and fuel treatments – direct impacts to GrSG			
4.1.3 Reference Number	Conservation Strategy	Responsible Parties	Timeline	Implementation

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4. Fire an	d Fuels Management			
4.1.3.1	Schedule prescribed burns and/or fuel treatment projects in sagebrush habitat to avoid, when possible, the GrSG seasonal use period for that area (e.g., breeding, winter; see also CCP Appendix B "GrSG Disturbance Guidelines").	BLM	During project planning	BLM: Timing limitations are placed on profuels reduction projects in SG habitat to p the appropriate seasonal use period.
4.1.3.2	When treating sagebrush areas to reduce fuels within 0.6 miles of a GrSG lek, maintain adequate canopy cover for sage-grouse (see "Breeding Habitat" in "GrSG Habitat Structural Guidelines", CCP Appendix A). Lek data are considered sensitive information by CDOW. Limit data distribution to the extent necessary for effective management.	BLM	During project planning	BLM: Fuels treatments avoid the .6 mi are protect the integrity and use of the lek sit
Objective 4.1.4	Post-burn and -treatment habitat restoration	<u> </u>		
Reference Number	Conservation Strategy	Responsible Parties	Timeline	Implementation
4.1.4.1	Monitor all wildfires or prescribed burns in the first 3 growing seasons post-fire, and then every 5- 10 years for noxious or invasive weeds. Treat accordingly.	BLM	As needed per fire event	BLM: One major fire has occurred on BLM since 2008. It was treated (restoration see ES&R program which includes a minimum subsequent monitoring. Additional monitercouraged, and schedules are based on funding. Monitoring of smaller fires is type determine if project objectives have been depend on objectives (short & long-term) funding.
4.1.4.2	All wildfires or prescribed burns greater than 10 acres in size that are subject to cheatgrass invasion will be seeded with an appropriate seed mixture (i.e., avoid undesirable grass species; see CCP Appendix D, "Recommendations Regarding Plant Species for Use in GrSG Habitat Management and Restoration" and Monsen 2005), to reduce the probability of cheatgrass establishment (see also "Habitat Enhancement" strategy, pg. 349).	BLM	As needed per fire event	BLM: All fires are evaluated to determine desirable or necessary management tool.
4.1.4.3	Annually evaluate all recent wildfires and prescribed burns (greater than 10 acres), and reseed if necessary to achieve GrSG habitat objectives (see "Habitat Enhancement" strategy, pg. 349).	BLM	Annually	BLM: All fires are evaluated to determine desirable or necessary management tool.
4.1.4.4	Ensure that GrSG habitat considerations are incorporated into restoration and burn rehabilitation plans. Use BMPs and grazing management alternatives (see CCP Appendix E, "Grazing Management Options for GrSG") for land management practices following wild and prescribed fire events (see also Monsen 2005, "Habitat Enhancement" [pg. 349], "Recreational Activities" [pg. 407] and "Grazing" [pg. 342] strategies).	BLM	During project planning	BLM: One major fire has occurred on BLN since 2008. It was treated (restoration see ES&R program with an emphasis on restored)
4.1.4.5	Evaluate the response of GrSG habitat (see "Habitat Monitoring" strategy, pg. 354) to all burns and mechanical fuel reduction treatments (be certain to consider the need for weed control in the area).	BLM	Annually	BLM: Habitat projects on BLM are typical determine effectiveness in meeting the p The schedule of monitoring is dependent (short & long term), staffing and funding.

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protect birds during	CCP, disturbance guidelines for
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4. Fire a	nd Fuels Management			
4.1.4.6	Incorporate ecologically appropriate sagebrush seed into fire rehabilitation seed mixtures as often as possible in GrSG habitat (see CCP Appendix D, "Recommendations Regarding Plant Species for Use in GrSG Habitat Management and Restoration") and Monsen 2005.	BLM	During re- seeding plan	BLM: All ES&R plans, as well as, other resear SG habitat incorporate the use of SB seed v
4.1.4.7	Encourage and strongly support the development of production and storage facilities for native seed in Colorado, including native seed banks, for use in reclamation efforts (see "Habitat Enhancement" strategy 7.1.1.5). Emphasize the use of native plants following burns/treatments in GrSG habitat whenever possible.	BLM	Annually	BLM: Although BLM has strongly supported native plant efforts thru the Uncompahgre Partnership and Meeker Plant Center over we are not funding or developing a local sto is developing a new seed storage warehous BLM has access to native seeds (including s national seed warehouse sites.
4.1.4.8	When reseeding an area in GrSG habitat, use certified "weed-free" seeds (see "Habitat Enhancement" strategy 7.1.1.6 and "Weeds" strategy section, pg. 425).	BLM	During re- seeding plan	BLM: BLM policy requires the use of certifier on all public lands managed by the BLM. Str applied as part of seeding, stabilization, or projects on public lands must be certified to free as part of this policy.
4.1.4.9	Rehabilitate firelines or trails caused by equipment use during fire fighting activities in GrSG habitat (see "Habitat Enhancement" strategy, pg. 349).	BLM	Post-fire	BLM: Large scale fires are reclaimed using t (Emergency Stabilization & Restoration). So reclaimed thru site specific NEPA on a cases GRSG habitat needs are considered in both where appropriate.
4.1.4.10	Identify and secure funding to support post-fire restoration efforts in GrSG habitat.	BLM	Annually	BLM: BLM prioritizes restoration needs and a National and State level. Important SG has for such efforts.

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ed and funded local re Plateau er the last decade, storage facility. BLM puse in Ely, Nevada. g storage) at multiple	
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