Appendix 14

Environmental Consequences Supporting Information

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Appendix 14. Environmental Consequences Supporting Information

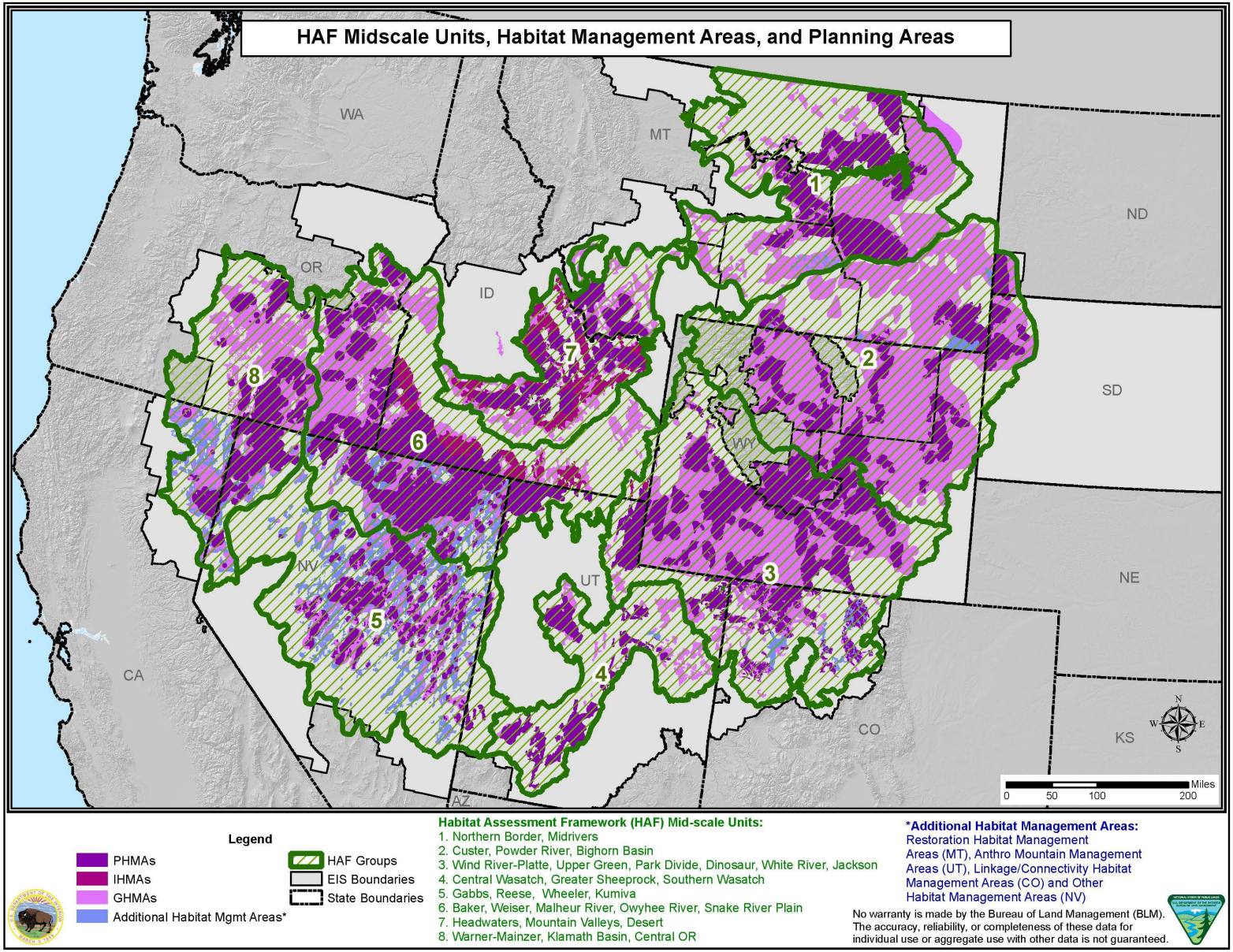
14.1 HAF Groupings

The Habitat Assessment Framework (HAF) is a tool to measure the suitability of GRSG habitat at multiple scales. Mid-scale (second order) HAF areas are conceptually linked to GRSG dispersal capabilities in population and subpopulation areas as described by Connelly and others (2004). Mid-scale HAF delineations also conceptually provide the life requisite space for GRSG dispersal, allowing for migration movements (presumably between seasonal habitats) based on the following key inputs:

- availability of sagebrush habitat,
- size and number of habitat patches,
- connectivity of habitat patches,
- characteristics of linkage areas between patches,
- landscape matrix and edge effects, and
- anthropogenic disturbances.

The mid-scale HAF delineations identified by the BLM capture a conceptual biologically meaningful unit. In addition, recent genetic analyses (Oyler-McCance et al. 2022) delineated sub-population clusters across GRSG range based on data collected between 2005 and 2015. These sub-population delineations indicate movement of GRSG within these areas (either in the past or currently), indicating a cumulative effects analysis on those units would have a biological basis. As such, the BLM combined habitat information using mid-scale HAF and results from the lek persistence model (Wann et al. 2022) with genetic information from Oyler-McCance et al. (2022), to group mid-scale HAF units within the genetic subpopulation boundaries. Given the divisions between subpopulation groupings are not distinct, groupings are based on the preponderance of genetic and habitat information. The resulting eight GRSG HAF groupings are shown in **Figure 14-1**. The allocation acres for Habitat Management Areas (HMAs), locatable minerals, and fluid minerals are provided for each of the eight mid-scale HAF groups by alternative in **Section 14.4**. These allocation acres for the locatable minerals and fluid minerals represent a combination of existing allocations in existing Resource Management Plans (RMPs) and allocations identified under the alternatives in this RMP Amendment. For example, for locatable minerals, proposed mineral withdrawals for the purposes of GRSG conservation are only proposed and considered under Alternative 1 and Alternative 3 in this RMP Amendment. All the other existing and proposed withdrawal acreage that is identified under other alternatives represent proposed or existing withdrawals that are either being proposed in other RMP efforts or existing withdrawals that are already in place. The information is provided for context and to facilitate the analysis of effects.

Figure 14-1. HAF Midscale Units, Habitat Management Areas, and Planning Areas



14.2 CUMULATIVE EFFECTS

A cumulative impact on the environment is one that results from the incremental impact of the given alternative when added to other past, present, and reasonably foreseeable actions, regardless of what agency (federal or nonfederal) or person undertakes such actions. Cumulative impacts can result from actions that have individually minor impacts, but when taken collectively over time, their combined effects may be significant. The cumulative impacts resulting from the implementation of the alternatives in this RMPA/EIS may be influenced by other actions, as well as activities and conditions on other public and private lands, including those beyond the planning area boundary. As a result, the sum of the effects of these incremental impacts involves determinations that often are complex, limited by the availability of information, and, to some degree, subjective.

Because of the programmatic nature of an RMPA/EIS and cumulative impacts assessment, the analysis tends to be broad and generalized. This allows BLM to examine the impacts that could occur from a reasonably foreseeable management scenario, combined with other reasonably foreseeable activities or projects; consequently, this assessment is primarily qualitative for most resources because of a lack of detailed project-scaled information at the planning stage. A quantitative comparison of geospatial management decisions on public lands across the greater sage-grouse (GRSG) range is presented in **Section 14.3** below.

The cumulative effects analysis in Chapter 4 and supported by the information in this appendix assesses the magnitude of cumulative impacts by comparing the environment in its baseline condition with the expected impacts of the alternatives and other actions in the same geographic area. The magnitude of an impact is determined through a comparison of anticipated conditions against the baseline, as depicted in the affected environment, or the long-term resilience of a resource or social system.

The following factors were considered in cumulative impact assessment:

- Federal, Tribal, nonfederal, and private actions
- Potential for combined impacts or combined interaction between impacts
- Potential for impacts across political and administrative boundaries
- Other spatial and temporal characteristics of each affected resource
- Comparative extent of cumulative impacts across alternatives

14.3 STATE AND LOCAL CONSERVATION PLANS AND EFFORTS

This RMPA is considering changes to GRSG habitat management on public lands and provides direction for if and/or how future developments may occur. This RMPA is limited to planning-level decisions; in other words, it does not authorize any specific project but establishes the conditions under which future actions would be considered in GRSG habitat on public lands. Because of the nature of this decision, the greatest equivalent corresponding actions to consider in cumulative impacts is from actions of a similar scale. The most critical of these types of actions/plans are state GRSG plans, executive orders, statures, and related conservation efforts. Across the landscape, the BLM's RMPAs for public lands will be added to the management from the State plans/efforts. States have legal jurisdiction for managing GRSG populations, as well as having permitting authority over several types of potentially impactful land uses both on non-BLM-administered lands (e.g., oil and gas development on private lands), as well as for some uses on public lands (e.g., locatable mineral mines). Because of this, the State plans/efforts have the greatest potential for a similarly scaled cumulative effect when combined with the BLM's RMPAs.

In addition to the State plans, many counties and conservation districts also include GRSG management in their local plans. There is substantial variability in the level of detail and regulatory nature of the decision in

these plans across the GRSG range. This includes providing recommendations for GRSG habitat management on public lands and may also include specific management for land uses for which the county has permitting authority.

Each State with GRSG has developed a specific approach for conserving those populations and providing or recommending management of uses that could impact GRSG and their habitat. The following sections summarize each state's plan and related efforts.

14.3.1 Colorado

Colorado GRSG Conservation Plan, EO 2015-004, Greater Sage Grouse Stewardship Action Plan, SB 19-181. GRSG habitat conservation in Colorado spans across federal, state, local and private management. In 2008, the State of Colorado published the Colorado Greater Sage-Grouse Conservation Plan (CCP) which built on conservation plans developed by local working groups. The CCP provides an extensive literature review of GRSG in Colorado and overarching conservation strategy to support conservation of the species and avoid or minimize impacts. The CCP contains voluntary management guidelines that may be applied across land ownerships and many land uses (Colorado Greater Sage-grouse Steering Committee 2008). Implementation of the CCP guidelines is not mandatory.

Through implementation of the CCP, the State of Colorado has funded and completed over 146,000 acres of habitat improvements in GRSG habitat and supported numerous conservation easements (Conservation Efforts Database).

In 2015 Colorado's governor issued Executive Order 2015-004 to strengthen the CCP. Under the order, the state oil and gas permitting agency would evaluate its existing wildlife siting rules for potential improvement and consult with Colorado Parks and Wildlife when considering actions that impact GRSG or GRSG habitat. The order also prioritized the completion of the Colorado Habitat Exchange, a voluntary compensatory mitigation program. The Colorado Habitat Exchange has not been fully implemented largely due to changing market conditions that devalued the credit/debit system. There are no other statewide mitigation exchanges or banks in place.

Oil and gas operations in Colorado, regardless of ownership, are subject to the rules and regulations overseen by the Colorado Energy & Carbon Management Commission (ECMC, formerly Oil and Gas Conservation Commission). In 2019, Colorado Senate Bill 19-181 was signed into law, amending the Oil and Gas Conservation Act. SB 19-181 ensures that oil and gas development including flowline operations in Colorado are regulated in a manner that protects public health, safety, welfare, the environment and wildlife resources (§34-60-101 et seq.). Subsequent approved rulemaking for SB 19-181 included substantial updates to the 300 Series (consultations), 400 Series (Noise & Lighting Requirements), and 1200 Series regulations, which dictate the protection of wildlife resources. The 1200 Series regulations require wildlife mitigation plans for new or amended oil and gas locations, or for previously permitted locations that would cause the density of oil and gas locations to exceed 1 per square mile in PHMA. The wildlife mitigation plans must have written concurrence from CPW. New ground disturbance within 1 mile of GRSG lek sites, among other high priority habitats, is precluded except under certain circumstances outlined in the regulations. Any direct and/or indirect impacts resulting from development triggers compensatory mitigation requirements (monetary fees or operator-completed projects) which are intended to provide a conservation benefit for the population(s) impacted. Mitigation under the SB 19-181 is enforceable by ECMC but is limited to oil and gas development and flowline operations.

State trust land represents approximately 10 percent of the GRSG habitat in Colorado. In 2016 the State Land Board issued the Greater Sage Grouse Stewardship Action Plan (SAP) for an original term of 4 years and re-issued the SAP in 2020 for an additional 5 years. The SAP describes the current uses of the state trust lands, the quality of these lands for GRSG habitat, sets prescriptions for both surface and mineral ownership, and clarifies GRSG habitat mitigation and adaptive management (Colorado State Land Board, 2016). Some management actions described in the SAP are required to hold leases on state trust lands, such as a set of required and voluntary grazing best management practices. In coordination with CPW, the State Land Board applies stipulations to fluid mineral leases including no surface occupancy in PHMA, no surface occupancy within 2 miles of a lek in GHMA, and timing limitations in all designated habitat. The State Land Board also applies the 3 percent disturbance cap and the average of one facility per 640-acre density cap described in the BLM 2015 ARMPA. To date, the State Land Board has foregone 6 oil and gas, 1 solid mineral, 3 solar, and 9 wind energy leases to conform with the SAP (Annual Stewardship Report 2023). The State Land Board has implemented $82,000 worth of habitat enhancement projects associated with the SAP since 2016 (Colorado State Land Board 2023).

Additionally, several regional plans provide important GRSG conservation strategies in Colorado. This includes the Middle Park Greater Sage-Grouse Conservation Plan (CPW 2000) which covers the upper Colorado River drainage in north-central Colorado and include portions of Grand and Summit counties and the northeast corner of Eagle County; the Northern Eagle/Southern Routt Greater Sage-Grouse Conservation Plan (CPW 2004) which addresses Northern Eagle and southern Routt counties north of Eagle River; the North Park Greater Sage-Grouse Conservation Plan (CPW 2001) which covers Jackson County in the northern tier of Colorado; the Parachute-Piceance-Roan Plateau Greater Sage-Grouse Conservation Plan (CPW 2008b) and the Parachute-Piceance-Roan Plateau Sage-Grouse Work Group (CPW 2008c) which addresses the Parachute-Piceance-Roan area in western Garfield and Rio Blanco counties.

14.3.2 Idaho

Policy for GRSG Management in Idaho and EO 2022-03. With Executive Order 2022-003 "Adopting Idaho's 2021 Sage-Grouse Management Plan and Idaho Sage-Steppe Mitigation Process," the State of Idaho updated its GRSG management plan. The State plan guides GRSG management and provides recommendations across all ownerships. The State plan identifies policy direction and recommendations for GRSG conservation and management on federal lands and actions with a federal nexus within the Sage-grouse Management Area. The State plan may also apply to management of State Endowment Lands (a decision by the Idaho Board of Land Commissioners); it is non-binding on private lands.

The objectives of the Idaho Plan are to: (1) implement policy mechanisms to conserve and manage GRSG habitats, populations, and connectivity; (2) monitor habitat and population trends; and (3) use adaptive regulatory triggers to prevent further loss and stabilize habitats and populations in PHMA and IHMA.

The State plan focuses on management and direction for large-scale anthropogenic disturbance, as well as priorities for habitat management and restoration. Under the State plan, habitat disturbance from wildfire and fuels management, maintenance and operation activities by utility companies, and infrastructure related to homes or small-scale agricultural businesses are exempt from restrictions for large-scale anthropogenic disturbance.

Idaho's GRSG management is based on the three-tiered approach to Habitat Management Areas (HMA), ranging from Priority, Important, and General HMA (i.e. PHMA, IHMA, and GHMA) in terms of habitat quality, breeding bird densities, and connectivity. Guidance for management from the most to least restrictive also follows this order. The State plan focuses on conserving primarily PHMA, followed by IHMA. This 3-

tiered HMA approach facilitates multiple-use activities in lower quality habitats, e.g. disturbed or fragmented, in GHMA.

Executive Order 2022-03 also adopted the Idaho Sage-Steppe Mitigation Principles that guide compensatory mitigation, albeit voluntary. The overall strategy is to primarily avoid, then minimize impacts to GRSG, and lastly, to mitigate for unavoidable impacts. Mitigation efforts would focus on increasing the resiliency and productivity of GRSG populations and habitats, particularly in PHMA and IHMA. The State will work with federal land management agencies and project proponents to use the Habitat Quantification Tool (HQT) to measure and quantify the impact of new anthropogenic disturbance on GRSG, and, if needed, provide mitigation recommendations.

BLM Idaho has a Memorandum of Understanding (MOU ID SO-2022-09: Idaho Greater Sage-grouse Implementation Team) with several partner federal and state agencies to develop conservation strategies and make recommendations pertaining to adaptive management, review of new anthropogenic disturbance, and mitigation. The State makes recommendations on mitigation largely based on the Idaho Sage-steppe Mitigation Principles document and results from the HQT. The Implementation Team review proposals for new anthropogenic disturbance and makes recommendations to the BLM Authorizing Officer.

The State of Idaho has several ongoing efforts that contribute to GRSG conservation:

- **Sage-Grouse Actions Team** (SGAT) is comprised of representatives from state and federal agencies and NGOs who collaborate on habitat restoration efforts. It is overseen by the Idaho Governor's Office of Species Conservation. The SGAT specifically targets work on invasives, juniper removal, wet meadow and riparian restoration, wildfire prevention (e.g., strategic fuel breaks, wildland fire engine fill stations), and wildfire rehabilitation. Annual funding annually is typically a mix of state or federal funds. Each winter project proposals from agencies and individual landowners are evaluated. Projects have been funded since 2016. In 2022, through the SGAT, approximately 8,000 acres of habitat were treated, leks monitored, and funding assistance for GRSG coordinator positions. Many on-the-ground projects have been completed to-date, including those complementing efforts by various agencies or landowners in Idaho.
- Idaho **Cheatgrass Challenge** (CC) is a multiagency partnership lead by the Natural Resource Conservation Service (NRCS) whose focus is to proactively maintain healthy landscapes, free of invasive annuals grasses (IAG) (cheatgrass, medusahead wildrye, ventenata and other invasive weeds), reduce IAG distribution in transitional areas, and mitigate the adverse effects in areas they dominate. The CC was formed in 2018 and consists of representatives from multiple federal and state agencies, as well as Pheasants Forever and the Idaho Rangeland Conservation Partnership. Projects are funded annually. A review team evaluates the applications based in factors such as treatment effectiveness, collaboration across landownerships, and leveraging of funding and in-kind efforts.

14.3.3 California

GRSG Conservation Plan for northeastern California (NV/CA Sub-region). The State of California has not developed a plan or established a mitigation strategy for GRSG. In lieu of a state mitigation strategy in California, the BLM coordinates with the Sagebrush Ecosystem Technical Team (SETT) on site-specific projects which require mitigation, as appropriate. The SETT runs a "table-top" analysis established in the Conservation Credit System (CCS; State of Nevada, 2022) to determine the impacts of the site-specific projects. The BLM uses this information to determine the appropriate mitigation measures required

to off-set impacts to GRSG and their habitat and remain consistent with mitigation measures applied on lands in Nevada.

In November of 2022, a petition was submitted to the California Fish and Game Commission (Commission) requesting the Commission list GRSG as threatened or endangered under the California Endangered Species Act (CESA). Based on the information contained in the petition and other relevant information, it was determined that there was sufficient information to indicate the petitioned action may be warranted. A one-year status review of GRSG by the California Department of Fish and Wildlife (CDFW) commenced in June of 2023. During the review period, GRSG will receive the same protections as a CESA-listed species throughout California.

On California BLM-managed lands in Nevada, the California BLM utilizes the Nevada Greater Sage-grouse Conservation Plan (State of Nevada, 2019), CCS and abides by the State of Nevada's Regulations (2022 Nevada Revised Statutes (NRS) Chapter 232-State Departments NRS 232.162) regarding GRSG mitigation, which applies to lands in GRSG habitat across all land ownership. See the "GRSG Conservation Plan for Nevada" below for additional information on the State of Nevada's GRSG conservation plan, CCS and mitigation strategy.

Additional ongoing efforts that contribute to GRSG conservation in California include the Buffalo Skedaddle Working Group. The group is named after a GRSG Population Management Unit (PMU) which is managed by the Eagle Lake and Applegate Field Offices. The group has been working for over a decade addressing ways to conserve habitats that are important for GRSG within the Buffalo Skedaddle PMU. The working group consists of wildlife biologists, rangeland management specialists, ecologists, private landowners, and permittees. The group represent the BLM, CDFW, Nevada Department of Wildlife, US Fish and Wildlife Service, Forest Service, Natural Resources Conservation Service, and the ranching community.

The group has been focused on implementing the conservation goals and habitat restoration targets established in the 2006 Buffalo Skedaddle Conservation Plan (currently under revision). The group works on projects focused on the habitat needs of GRSG including all seasonal habitats, wildfire rehabilitation, riparian restoration and protection, fuels reduction, control of invasive species and several multi-year research projects in conjunction with USGS, CDFW, NDOW and universities. The Plan includes strategies to manage uses such as livestock and wild horse and burro in ways that benefit GRSG and its habitat. It also recognizes the critical connection of public and private lands and the essential partnership among the land managing agencies and landowners.

14.3.4 Nevada

GRSG Conservation Plan for Nevada. On March 30, 2012, Governor Brian Sandoval fortified Nevada's commitment to GRSG conservation by issuing Executive Order 2012-09, which established the Governor's Greater Sage-grouse Advisory Committee (Advisory Committee) with a directive to provide updated recommendations for GRSG conservation in Nevada to preclude the need for listing GRSG under the Endangered Species Act (ESA) and provide a GRSG alternative in the Nevada BLM/ USFS Land Use Plan (or Resource Management Plan) revision process. Those efforts resulted in the Strategic Plan for Conservation of Greater Sage-Grouse in Nevada (2012 State Plan), completed on July 31, 2012, which consisted of a list of primary threats to GRSG in Nevada and recommendations to the Governor on strategies and actions to conserve GRSG in Nevada.

One of the main recommendations of the 2012 State Plan was the creation of the Sagebrush Ecosystem Program (SEP), which would consist of the Sagebrush Ecosystem Council (SEC) and the Sagebrush Ecosystem

Technical Team (SETT). The SEC was originally established under Executive Order 2012-19, on November 19, 2012, and later codified under Nevada Revised Statutes Chapter 232.162. The SETT began work on February 11, 2013. On April 22, 2013, the SEC directed the SETT to further develop the recommendation in the 2012 State Plan into a more comprehensive and detailed strategy. The SEC considered proposed revisions over a series of meetings starting in July 2013. The result of those efforts was the 2014 Nevada Greater Sage-grouse Conservation Plan (State Plan).

The State Plan, as updated in 2019, is based on available scientific information and stakeholder input to apply a GRSG conservation plan specific to Nevada. This is meant to be a "working document" that will be updated as new science emerges and lessons are learned through implementation of the State Plan, using an adaptive management framework.

In addition to the State Plan, the SEP developed the Nevada Sage-grouse Strategic Action Plan (SAP). The State Plan provides broad goals, objectives, and management actions to ameliorate the primary threats to GRSG in Nevada. The SAP is a companion document to the State Plan and goes into greater detail identifying areas in which to focus conservation efforts to achieve the broad goals and objectives outlined in the State Plan. The SAP identifies funding sources to implement the management actions recommended in the State Plan. The SAP also identifies where the primary threats to GRSG habitat are located across the landscape and provides specific guidance on how to ameliorate these threats based on local area conditions, resistance and resilience regimes, and ecological site descriptions. The SAP helps guide how and where the management efforts identified in the State Plan are prioritized to achieve landscape-scale conservation of GRSG and the sagebrush (*Artemisia* spp.) ecosystem.

Nevada Conservation Credit System. Administered by the Sagebrush Ecosystem Technical Team (SETT), the Nevada Conservation Credit System (CCS) is an approach to GRSG habitat protection that provides for fully compensating habitat impacts from man-made disturbances by long-term enhancement and protection of habitat to result in an overall benefit for the species, while allowing for anthropogenic disturbances that support the Nevada economy. The CCS was developed to meet requirements established by Nevada Revised Statutes Chapter 232.162 to fulfill compensatory mitigation requirements for anthropogenic disturbances to GRSG habitat on public lands in Nevada. The use of the CCS to offset impacts to GRSG became mandatory in Nevada with the adoption of Nevada Administrative Code 232.400-232.480 in 2019. The CCS is used to offset impacts from anthropogenic disturbances through habitat enhancement and protection that results in a net conservation benefit for GRSG habitat in Nevada. The CCS quantifies verified functional habitat value in the form of credits and quantifies the verified functional habitat value of impacts, both direct and indirect, in the form of debits.

The CCS fulfills the November 3, 2015, Presidential Memorandum: *Mitigating Impacts on Natural Resources from Development and Encouraging Related Private Investment* directive to ensure that federal policies are clear, work similarly across agencies, and are implemented consistently. The CCS meets the objective of encouraging private investment to achieve public natural resource conservation as an innovative way to finance successful stewardship and restoration projects that demonstrate a measurable net conservation gain of sagebrush habitat in Nevada.

The CCS is designed to accommodate private land credits in the system and the State Plan currently allows for credits to be generated on public land. However, procedures and instructions have not been adopted for federal agency engagement with the CCS to verify and enroll credits on public land.

14.3.5 Montana

Montana GRSG Habitat Conservation Program and EO 12-2015. In Montana, the GRSGS Conservation strategy is overseen by the Montana Sage-Grouse Oversight Team and the Sage-grouse Habitat Conservation Program, working to implement Executive Order 12-2015 and the Greater Sage-grouse Stewardship Act. Executive Order 12-2015 establishes specific requirements and limitations on development, being most restrictive in core areas near leks and less restrictive in general habitat and connectivity areas. Other components establish general practices that apply to everyone. The EO applies to all state agencies and all programs and activities of state government, including permitting programs, grant programs, and internal agency programs.

The MT Habitat Conservation Program facilitates implementation by consulting with permit applicants and project proponents to help applicants avoid negative impacts of development through minimization of impacts and address compensatory mitigation for impacts that can't be avoided or minimized. The mitigation hierarchy is applied by first working to avoid impacts and core area, then minimization through onsite practices, and as a last resort, compensatory mitigation to replace lost habitat. The Program will make recommendations to the applicant and the permitting agency.

While the MT HCP provides advice, and is not a regulatory entity, compliance with the EO is achieved through the issuing of state permits, grants or technical assistance, which contain requirements. In cases where exceptions or waivers to the EO are requested, these are decided by the Montana Sage Grouse Oversight Team. Implementation is mandatory for state agencies and federal agencies have committed to align their work to the approach, consistent with "all hands, all lands."

The compensatory mitigation aspects of the Montana Sage-Grouse Conservation Strategy are established through a Montana Sage Grouse Oversight Team (MSGOT) approved, Montana Mitigation System Policy Guidance Document for Greater Sage-Grouse and the Habitat Quantification Tool Technical Manual (HQT). The HQT and mitigation policy took effect January 12, 2019. The System draws on findings and science from the U.S. Fish and Wildlife Service's (USFWS) Conservation Objectives Report (COT), the 2015 USFWS Not Warranted Finding, and the recommendations of the Montana Greater Sage-Grouse Habitat Conservation Advisory Council. The approach relies on best available science, should incorporate new information, and is based on deliberations of the Montana Mitigation Stakeholders Team (Stakeholders Team). The HQT calculates the functional acres lost on a debit project and gained on a credit project. Functional acres are based on the quality and quantity of affected habitat. The policy guidance document applies multipliers for development projects to incentivize voluntary conservation and consistency with the Montana Sage-Grouse Habitat Conservation Plan or specific provisions of federal land use plans.

The Montana Policy Guidance defines the processes and information necessary to create, buy, or sell mitigation credits suitable for meeting sage grouse mitigation requirements within the State of Montana. The HQT calculates the functional acres lost on a debit project and gained on a credit project. Functional acres are based on the quality and quantity of affected habitat.

In 2005, Montana Fish Wildlife and Parks (FWP), released the Management Plan and Conservation Strategy for Sage-grouse in Montana, a product crafted in partnership with other key entities. The plan describes GRSG habitat, population dynamics, and provides a framework for developing local working groups. Overall, the plan outlines the envisioned approach for conservation and enhancement of sage-grouse habitats. This plan, along with newer science and information was used as key information in the development of the MT GRSG Conservation Strategy.

Montana FWP also manages the Upland Game Bird Enhancement Program which provides funds for various conservation actions including management changes, restoration projects, and easements. In addition, the department provides technical assistance to aid in the development and application of GRSG related conservation projects from federal, local, and non-profit partner organization programs.

14.3.6 North Dakota

Management Plan and Conservation Strategies for GRSG in North Dakota. The State of North Dakota Game and Fish Department released the Management Plan and Conservation Strategies for Greater Sage-Grouse in North Dakota in 2014. The plan provides recommendations on how to meet objectives from the FWS COT Report (2013). While the plan does not regulate development in sage-grouse habitat, it provides a framework for habitat conservation efforts across the varied ownership in ND GRSG habitat. The plan recommends a conservation hierarchy, starting with avoidance, and where that is not possible, minimization and mitigation.

In addition, the ND Game and Fish Department runs a Private Land Initiative program, that includes programs such as Conservation Reserve Cost Sharing, Working Lands, and Habitat Plots. These initiatives fund various conservation actions, including ones in GRSG habitats.

14.3.7 South Dakota

South Dakota GRSG Action Plan 2022-2026. GRSG are listed as a species of greatest conservation need in the 2014 South Dakota Wildlife Action Plan. Habitat areas, management approaches, population dynamics, and additional management options were part of the Sage-grouse Management Plan for South Dakota 2014 – 2018. The management plan was updated in 2022 with the release of Management of Greater Sage-Grouse in South Dakota. Information from the management plan was used to craft the South Dakota Greater Sage-Grouse Action Plan (2022-2026) which was released in early 2022. The plan recommends three priorities: core area mapping; habitat management; and collaboration. While the plan is not regulatory, it does provide both internal guidance to SD Game Fish & Parks and identifies the need for collaboration, establishment of good faith efforts, and environmental review to facilitate the common interest of GRSG conservation.

Additional contributions by the state for GRSG conservation are focused on providing capacity for collaborative habitat-related programs. SD GFP contributes funding to multiple partner efforts that overlap and work to leverage federal, state, and additional funding sources to apply restoration, enhancement, and protection actions to GRSG habitats in South Dakota.

14.3.8 Oregon

Oregon Sage-Grouse Action Plan and EO 15-18. The State of Oregon is in the process of updating its Oregon Sage-Grouse Conservation Assessment and Strategy. Oregon Department of Fish and Wildlife (ODFW) first developed a plan for the conservation and management of GRSG in Oregon in 2005. This document, the Greater Sage-Grouse Conservation Assessment and Strategy for Oregon (or "CAAS"), was last updated in 2011. The 2011 update to the CAAS included a process for defining and delineating the most important sage-grouse habitats in Oregon. These "Priority Areas for Conservation" (PACs) are necessary to conserve 90% of Oregon's GRSG population and include both core and low-density habitats. ODFW updated the GRSG habitat designation maps, and consequently the Oregon Fish and Wildlife Commission approved them in December 2023, which was not in time incorporation into the BLM's Draft analysis; it will be incorporated into the Final EIS.

The State plan implements direction from State EO 15-18 (September 15, 2015). ODFW Greater Sage-Grouse Conservation Strategy (Oregon Administrative Rules OAR 635-140-0000 – 0025) rules identify GRSG habitat, target population objectives, and mitigation hierarchy with specific information regarding mitigation. The State's Land and Conservation Development Commission (LCDC) also enacted OAR 660-023-0115 for GRSG conservation, which is the regulatory rule. All state agencies that carry out, fund, or permit actions within GRSG habitat were required to adopt OAR-660-023-0115.

Oregon has a Sage-grouse Mitigation Program, which is a product of Oregon's GRSG conservation efforts and addresses the threat of increasing development pressure in GRSG habitat. Proposed development projects in GRSG habitat that require a county or state permit, which includes private lands, and are identified as a conflicting use (e.g., any non-agriculture development over 5 acres), as outlined in OAR 660-023-0115(7), must coordinate with the Mitigation Program to ensure the Mitigation Hierarchy outlined in both OAR 660-023-0115 and OAR 635-140-0025 has been achieved. "Compensatory mitigation" is the third step in the mitigation hierarchy and means the replacement or enhancement of the function of habitat capable of supporting GRSG in greater numbers than predicted to be impacted by a development. ODFW operates a Habitat Quantification Tool (HQT), which was developed to measure projected outcomes of both new development and habitat restoration projects and to help target siting of credit and debit projects in the most beneficial locations for GRSG .

In 2012, the Oregon Sage-grouse Conservation Partnership (SageCon) was convened at the request of the Governor's office to formulate an "all lands, all threats" approach to GRSG conservation. This effort was to address both USFWS' GRSG listing decision in 2015 and support long-term community sustainability in central and eastern Oregon. SageCon continues to convene the partners involved in Oregon's sagebrush rangelands. The ODFW 2011 Conservation and Assessment Strategy and the 2015 Oregon Sage-grouse Action Plan identified Local Implementation Teams (LITs) for 5 geographic areas to be the hub of locally-led collaboration to achieve coordinated and supported implementation of strategic conservation actions on-the-ground. These LITs and other local entities work closely with BLM district and field offices to coordinate cross-jurisdictional activities to benefit GRSG habitat.

Additionally, private landowners are able to make a long-term commitment through CCAA's. Voluntary conservation agreements through Sage-Grouse Candidate Conservation Agreements with Assurances (CCAAs) are designed to support the ecological integrity and uplift of Oregon's privately owned sagebrush habitats. In these 30-year agreements between US Fish & Wildlife Service and a local entity (Soil & Water Conservation District or Watershed Council), enrolled properties are assessed for risks to sage-grouse and their habitat, and actions are identified to address those threats. Implementation funds can then be applied for from USDA NRCS and the Oregon Watershed Enhancement Board (OWEB).

14.3.9 Utah

Utah Conservation Plan for GRSG (January 2019) and EO/2015/002. The State of Utah updated its Conservation Plan for Greater Sage-Grouse in 2019. The plan implements direction from State EO 2015/002. The State plan identifies 11 Sage-Grouse Management Areas that encompass more than 90 percent of Utah's breeding GRSG populations. The plan notes that GRSG habitats outside the SGMAs are not required for long-term conservation of the species. The State's EO and associated plan combines voluntary and incentive-based programs on private, local government, State Trust lands, and state lands– with reasonable and cooperative regulatory programs on federally managed lands. The EO mandated that all relevant State agencies participate in the implementation of the Plan. State agencies have developed MOUs

with the Utah Division of Wildlife Resources and Public Lands Policy Coordinating Office. Those agreements set agency-specific directives related to the implementation of the executive order and the Plan.

The State of Utah also has a Compensatory Mitigation Program that was established, in part, by the Utah Legislature, Utah Administrative Rule (Compensatory Mitigation Program), and the State's Plan. The program includes rules, definitions and mechanisms for developing and tracking mitigation credits and debits. During project coordination, the Plan recommends that the regulatory entity or project proponent voluntarily implement the compensatory mitigation. The Program is administered by Utah's Department of Natural Resources, and recommends that for every one acre of functional GRSG habitat permanently disturbed, four acres of functional habitats or corridors should be created, restored and/or preserved.

Since 1996, the State has coordinated with Utah State University to facilitate local working group meetings in communities with occupied GRSG habitat. These groups have developed local GRSG conservation plans and meet regularly to coordinate and shape the state and national policies that directly affect them.

14.3.10 Wyoming

Greater Sage-grouse Core Area Protection Executive Order (2019-3). The State of Wyoming manages GRSG through Executive Order as the State's primary regulatory mechanism to conserve GRSG. The Executive Order establishes a conservation framework implemented at the scale of the State with the goal of precluding the need to list GRSG as threatened or endangered under the Endangered Species Act (ESA). Governor Freudenthal signed the first GRSG Core Area Protection Executive Order (SGEO) in 2008 (SGEO 2008-2) which was updated in 2010 (SGEO 2010-4). Each successive administration has updated and signed a new SGEO (Governor Mead SGEO 2011-5 and 2015-4; Governor Gordon SGEO 2019-3).

Wyoming's SGEO 2019-3 coordinates GRSG conservation actions across jurisdictional boundaries (i.e., "all lands approach"). The SGEO directs agencies and departments of the State of Wyoming to follow, consistent with statutory authority, the procedures outlined in the SGEO. On private lands incorporated into the strategy, only those activities which state agencies are required by state or federal law to review or approve are subject to the SGEO. Core population areas, connectivity areas and winter concentration areas identified as distinct habitat designations in the SGEO encompass approximately 15 million acres of GRSG habitat and 84% of the GRSG breeding population in the State. The SGEO recognizes and supports enrollment and expanded coverage of voluntary conservation programs such as USFWS's Candidate Conservation Agreements with Assurances (CCAA) and NRCS's Sage-Grouse Initiative (SGI). A statewide umbrella CCAA designed to promote conservation measures that reduce or remove threats to GRSG and to increase landowner participation by streamlining the CCAA enrollment process has been in effect in Wyoming since 2013. The State has distributed >$100M (since inception of the GRSG core area protection strategy) for on-the-ground projects, research and monitoring specific to GRSG conservation; these funds have generally been funneled through the Wyoming Wildlife and Natural Resource Trust (WWNRT) or the GRSG Local Working Groups (LWG).

The conservation framework established in the SGEO follows an avoidance, minimization, and compensatory mitigation (where appropriate) approach to GRSG conservation. Compensatory mitigation is required by statute for activities requiring a state permit that do not comply with the stipulations of the SGEO. The State's compensatory mitigation framework details the biological, replacement, durability, and additionality requirements for a parcel of land to be considered as a GRSG "conservation credit." The mitigation framework additionally defines "restoration credits" as a means of incentivizing the restoration of GRSG habitats that have been lost or severely impacted. Debit requirements for activities that exceed thresholds in core population areas are established by disturbance type and range from 5 to 10 debits per acre or per

type. Currently, a single GRSG mitigation bank on Pathfinder Ranches (Sweetwater River Conservancy) is functional in Wyoming, although several additional GRSG mitigation bank proposals are under consideration by the State.

14.4 Habitat Management Area, Locatable Mineral, and Fluid Mineral Allocation Information by Mid-scale HAF Group

When assessing the cumulative impact of the RMPA/EIS on GRSG and its habitat, there are multiple geographic scales that the BLM has considered. In 2015 and 2019, cumulative impacts to GRSG were analyzed using Management Zones identified by the Western Association of Fish and Wildlife Agencies (WAFWA). The WAFWA Management Zones were based on floristic provinces. Based on information that has become available since the previous efforts,

14.4.1 HAF Group 1

I. Habitat Management

Table 14-1. Habitat Management Areas within HAF 1

Acres and percentages reflect all lands. Percentages may not total to 100% due to rounding. All figures and tables are intended for Habitat Assessment Framework summary purposes only.

Approximate Acres of HMA in HAF 1					
Alternative 1					
PHMA	**CHMA**	**GHMA**	**RHMA**	**Non-HMA**	**Total**
6,482,000	0	10,557,000	94,000	16,459,000	**33,592,000**
Alternative 2					
PHMA	**CHMA**	**GHMA**	**RHMA**	**Non-HMA**	**Total**
6,482,000	0	10,557,000	94,000	16,459,000	**33,592,000**
Alternative 3					
PHMA	**CHMA**	**GHMA**	**RHMA**	**Non-HMA**	**Total**
14,996,000	770,000	0	0	17,244,000	**33,009,000**
Alternative 4					
PHMA	**CHMA**	**GHMA**	**RHMA**	**Non-HMA**	**Total**
6,779,000	770,000	8,123,000	94,000	17,244,000	**33,009,000**
Alternative 5					
PHMA	**CHMA**	**GHMA**	**RHMA**	**Non-HMA**	**Total**
6,779,000	770,000	8,123,000	94,000	17,244,000	**33,009,000**
Alternative 6					
PHMA	**CHMA**	**GHMA**	**RHMA**	**Non-HMA**	**Total**
6,779,000	770,000	8,123,000	94,000	17,244,000	**33,009,000**
Proposed RMP Amendment					
PHMA	**CHMA**	**GHMA**	**RHMA**	**Non-HMA**	**Total**
5,965,000	770,000	8,216,000	0	17,244,000	**32,195,000**

Approximate Percent of HAF 1 that is HMA				
Alternative 1				
PHMA	**CHMA**	**GHMA**	**RHMA**	**Non-HMA**
19.30%	0.00%	31.43%	0.28%	49.00%
Alternative 2				
PHMA	**CHMA**	**GHMA**	**RHMA**	**Non-HMA**
4.63%	0.00%	31.43%	0.28%	49.00%

Approximate Percent of HAF 1 that is HMA				
Alternative 3				
PHMA	**CHMA**	**GHMA**	**RHMA**	**Non-HMA**
45.43%	2.33%	0.00%	0.00%	52.24%
Alternative 4				
PHMA	**CHMA**	**GHMA**	**RHMA**	**Non-HMA**
20.54%	2.33%	24.61%	0.28%	52.24%
Alternative 5				
PHMA	**CHMA**	**GHMA**	**RHMA**	**Non-HMA**
20.54%	2.33%	24.61%	0.28%	52.24%
Alternative 6				
PHMA	**CHMA**	**GHMA**	**RHMA**	**Non-HMA**
20.54%	2.33%	24.61%	0.28%	52.24%
Proposed RMP Amendment				
PHMA	**CHMA**	**GHMA**	**RHMA**	**Non-HMA**
18.53%	2.39%	25.52%	0.00%	53.56%

II. Locatable Minerals

Table 14-2. Locatable Minerals Decisions within HAF 1

Acres and percentages reflect BLM managed lands. Percentages may not total to 100% due to rounding. All figures and tables are intended for Habitat Assessment Framework summary purposes only. The acres for the locatable minerals represent a combination of existing allocations in existing Resource Management Plans (RMPs) and allocations identified under the alternatives in this RMP Amendment. For example, for locatable minerals, proposed mineral withdrawals are only proposed and considered for GRSG conservation under Alternative 1 and Alternative 3 in this RMP Amendment. All the other existing and proposed withdrawal acreage that is identified under other alternatives represent proposed or existing withdrawals that are either being proposed in other RMP efforts or existing withdrawals that are already in place. The information is provided for context and to facilitate the analysis of effects.

Approximate Acres of Locatable Minerals Decisions[2] in HAF 1 by Habitat Management Area Type						
Locatable Minerals	**Alternative 1**					
	PHMA	**GHMA**	**CHMA**	**RHMA**	**Non-HMA**	**Total**
Existing Withdrawals	14,000	181,000	0	0	208,000	**403,000**
Recommended Withdrawals	981,000	0	0	0	24,000	**1,005,000**
Open	1,265,000	981,000	0	79,000	1,470,000	**3,794,000**
Total	**2,260,000**	**1,162,000**	**0**	**79,000**	**1,701,000**	**5,202,000**
Locatable Minerals	**Alternative 2**					
	PHMA	**GHMA**	**CHMA**	**RHMA**	**Non-HMA**	**Total**
Existing Withdrawals	14,000	181,000	0	0	208,000	**403,000**
Recommended Withdrawals	981,000	0	0	0	24,000	**1,005,000**
Open	1,265,000	981,000	0	79,000	1,470,000	**3,794,000**
Total	**2,260,000**	**1,162,000**	**0**	**79,000**	**1,701,000**	**5,202,000**
Locatable Minerals	**Alternative 3**					
	PHMA	**GHMA**	**CHMA**	**RHMA**	**Non-HMA**	**Total**
Existing Withdrawals	77,000	0	0	0	326,000	**403,000**
Recommended Withdrawals	3,118,000	0	0	0	23,000	**3,141,000**
Open	0	0	316,000	0	1,291,000	**1,607,000**
Total	**3,195,000**	**0**	**316,000**	**0**	**1,640,000**	**5,151,000**

Approximate Acres of Locatable Minerals Decisions[2] in HAF 1 by Habitat Management Area Type						
Locatable Minerals	**Alternative 4**					
	PHMA	**GHMA**	**CHMA**	**RHMA**	**Non-HMA**	**Total**
Existing Withdrawals	19,000	59,000	0	0	326,000	**403,000**
Recommended Withdrawals	26,000	0	0	0	23,000	**48,000**
Open	2,203,000	811,000	316,000	79,000	1,291,000	**4,700,000**
Total	**2,247,000**	**870,000**	**316,000**	**79,000**	**1,640,000**	**5,151,000**
Locatable Minerals	**Alternative 5**					
	PHMA	**GHMA**	**CHMA**	**RHMA**	**Non-HMA**	**Total**
Existing Withdrawals	19,000	59,000	0	0	326,000	**403,000**
Recommended Withdrawals	26,000	0	0	0	23,000	**48,000**
Open	2,203,000	811,000	316,000	79,000	1,291,000	**4,700,000**
Total	**2,247,000**	**870,000**	**316,000**	**79,000**	**1,640,000**	**5,151,000**
Locatable Minerals	**Alternative 6**					
	PHMA	**GHMA**	**CHMA**	**RHMA**	**Non-HMA**	**Total**
Existing Withdrawals	19,000	59,000	0	0	326,000	**403,000**
Recommended Withdrawals	26,000	0	0	0	23,000	**48,000**
Open	2,203,000	811,000	316,000	79,000	1,291,000	**4,700,000**
Total	**2,247,000**	**870,000**	**316,000**	**79,000**	**1,640,000**	**5,151,000**
Locatable Minerals	**Proposed RMP Amendment**					
	PHMA	**GHMA**	**CHMA**	**RHMA**	**Non-HMA**	**Total**
Existing Withdrawals	19,000	59,000	0	0	326,000	**403,000**
Recommended Withdrawals	26,000	0	0	0	23,000	**48,000**
Open	2,203,000	890,000	228,000	0	1,291,000	**4,612,000**
Total	**2,247,000**	**948,000**	**228,000**	**0**	**1,640,000**	**5,063,000**

Approximate % of Habitat Management Area by Locatable Minerals Decisions[2] within Habitat in HAF 1					
Locatable Minerals	**Alternative 1**				
	PHMA	**GHMA**	**CHMA**	**RHMA**	**Non-HMA**
Existing Withdrawals	3.47%	44.91%	0.00%	0.00%	51.61%
Recommended Withdrawals	97.61%	0.00%	0.00%	0.00%	2.39%
Open	33.34%	25.86%	0.00%	2.08%	38.75%
Total	**43.44%**	**22.34%**	**0.00%**	**1.52%**	**32.70%**
Locatable Minerals	**Alternative 2**				
	PHMA	**GHMA**	**CHMA**	**RHMA**	**Non-HMA**
Existing Withdrawals	3.47%	44.91%	0.00%	0.00%	51.61%
Recommended Withdrawals	97.61%	0.00%	0.00%	0.00%	2.39%
Open	33.34%	25.86%	0.00%	2.08%	38.75%
Total	**43.44%**	**22.34%**	**0.00%**	**1.52%**	**32.70%**
Locatable Minerals	**Alternative 3**				
	PHMA	**GHMA**	**CHMA**	**RHMA**	**Non-HMA**
Existing Withdrawals	19.11%	0.00%	0.00%	0.00%	80.89%
Recommended Withdrawals	99.27%	0.00%	0.00%	0.00%	0.73%
Open	0.00%	0.00%	19.66%	0.00%	80.34%
Total	**63.03%**	**0.00%**	**6.13%**	**0.00%**	**31.84%**
Locatable Minerals	**Alternative 4**				
	PHMA	**GHMA**	**CHMA**	**RHMA**	**Non-HMA**
Existing Withdrawals	4.71%	14.64%	0.00%	0.00%	80.89%
Recommended Withdrawals	54.17%	0.00%	0.00%	0.00%	47.92%
Open	46.87%	17.26%	6.72%	1.68%	27.47%
Total	**43.62%**	**16.89%**	**6.13%**	**1.53%**	**31.84%**

Approximate % of Habitat Management Area by Locatable Minerals Decisions[2] within Habitat in HAF 1					
Locatable Minerals	**Alternative 5**				
	PHMA	**GHMA**	**CHMA**	**RHMA**	**Non-HMA**
Existing Withdrawals	4.71%	14.64%	0.00%	0.00%	80.89%
Recommended Withdrawals	54.17%	0.00%	0.00%	0.00%	47.92%
Open	46.87%	17.26%	6.72%	1.68%	27.47%
Total	**43.62%**	**16.89%**	**6.13%**	**1.53%**	**31.84%**
Locatable Minerals	**Alternative 6**				
	PHMA	**GHMA**	**CHMA**	**RHMA**	**Non-HMA**
Existing Withdrawals	4.71%	14.64%	0.00%	0.00%	80.89%
Recommended Withdrawals	54.17%	0.00%	0.00%	0.00%	47.92%
Open	46.87%	17.26%	6.72%	1.68%	27.47%
Total	**43.62%**	**16.89%**	**6.13%**	**1.53%**	**31.84%**
Locatable Minerals	**Proposed RMP Amendment**				
	PHMA	**GHMA**	**CHMA**	**RHMA**	**Non-HMA**
Existing Withdrawals	4.71%	14.64%	0.00%	0.00%	80.89%
Recommended Withdrawals	54.17%	0.00%	0.00%	0.00%	47.92%
Open	47.76%	19.29%	4.94%	0.00%	27.99%
Total	**44.38%**	**18.72%**	**4.50%**	**0.00%**	**32.39%**

III. Fluid Minerals (Oil & Gas)

Table 14-3. Fluid Minerals (Oil & Gas) Decisions within HAF 1

Acres and percentages reflect BLM managed lands. Percentages may not total to 100% due to rounding. Calculations reflect only the portions of the HAF where data was available. All figures and tables are intended for Habitat Assessment Framework summary purposes only. These acres for fluid minerals represent a combination of existing allocations in existing Resource Management Plans (RMPs) and allocations identified under the alternatives in this RMP Amendment. The information is provided for context and to facilitate the analysis of effects. It is important to note that just because an area is open to leasing does not mean that it will be developed. Any development must be in conformance with the stipulations which may preclude development in some areas. The stipulation information has been considered in context with mineral potential, and drilling and economic trends to develop the Reasonably Forseeable Development Scenario (see **Appendix 12**) which estimates the amount of development anticipated across all land owerships for each alternative.

Approximate Acres of Fluid Minerals (Oil & Gas) Decisions[4] in HAF 1 by Habitat Management Area Type						
Fluid Minerals (Oil and Gas)	**Alternative 1**					
	PHMA	**CHMA**	**GHMA**	**RHMA**	**Non-HMA**	**Total**
Closed	100,000	0	217,000	0	296,000	**612,000**
Open Major Stipulations	2,433,000	0	320,000	51,000	245,000	**3,049,000**
Open Moderate Stipulations	0	0	1,209,000	43,000	1,481,000	**2,736,000**
Open Standard Stipulations	0	0	297,000	0	219,000	**519,000**
Total	**2,532,000**	**0**	**2,043,000**	**93,000**	**2,241,000**	**6,915,000**

Approximate Acres of Fluid Minerals (Oil & Gas) Decisions[4] in HAF 1 by Habitat Management Area Type						
Fluid Minerals (Oil and Gas)	**Alternative 2**					
	PHMA	**CHMA**	**GHMA**	**RHMA**	**Non-HMA**	**Total**
Closed	100,000	0	217,000	0	296,000	**612,000**
Open Major Stipulations	2,433,000	0	320,000	51,000	245,000	**3,049,000**
Open Moderate Stipulations	0	0	1,209,000	43,000	1,481,000	**2,736,000**
Open Standard Stipulations	0	0	297,000	0	219,000	**519,000**
Total	**2,532,000**	**0**	**2,043,000**	**93,000**	**2,241,000**	**6,915,000**
Fluid Minerals (Oil and Gas)	**Alternative 3**					
	PHMA	**CHMA**	**GHMA**	**RHMA**	**Non-HMA**	**Total**
Closed	4,076,000	0	0	0	443,000	**4,519,000**
Open Major Stipulations	0	258,000	0	0	240,000	**498,000**
Open Moderate Stipulations	0	0	0	0	1,333,000	**1,333,000**
Open Standard Stipulations	0	0	0	0	226,000	**226,000**
Total	**4,076,000**	**258,000**	**0**	**0**	**2,242,000**	**6,577,000**
Fluid Minerals (Oil and Gas)	**Alternative 4**					
	PHMA	**CHMA**	**GHMA**	**RHMA**	**Non-HMA**	**Total**
Closed	104,000	0	64,000	0	443,000	**611,000**
Open Major Stipulations	2,519,000	24,000	314,000	50,000	240,000	**3,147,000**
Open Moderate Stipulations	0	322,000	1,265,000	44,000	1,333,000	**2,963,000**
Open Standard Stipulations	0	0	0	0	226,000	**226,000**
Total	**2,623,000**	**347,000**	**1,643,000**	**93,000**	**2,242,000**	**6,948,000**
Fluid Minerals (Oil and Gas)	**Alternative 5**					
	PHMA	**CHMA**	**GHMA**	**RHMA**	**Non-HMA**	**Total**
Closed	104,000	0	64,000	0	443,000	**611,000**
Open Major Stipulations	2,485,000	20,000	284,000	40,000	240,000	**3,069,000**
Open Moderate Stipulations	0	322,000	1,265,000	44,000	1,333,000	**2,963,000**
Open Standard Stipulations	0	0	0	0	226,000	**226,000**
Total	**2,589,000**	**342,000**	**1,613,000**	**84,000**	**2,242,000**	**6,870,000**
Fluid Minerals (Oil and Gas)	**Alternative 6**					
	PHMA	**CHMA**	**GHMA**	**RHMA**	**Non-HMA**	**Total**
Closed	104,000	0	64,000	0	443,000	**611,000**
Open Major Stipulations	2,519,000	24,000	314,000	50,000	240,000	**3,147,000**
Open Moderate Stipulations	0	322,000	1,265,000	44,000	1,333,000	**2,963,000**
Open Standard Stipulations	0	0	0	0	226,000	**226,000**
Total	**2,623,000**	**347,000**	**1,643,000**	**93,000**	**2,242,000**	**6,948,000**
Fluid Minerals (Oil and Gas)	**Proposed RMP Amendment**					
	PHMA	**CHMA**	**GHMA**	**RHMA**	**Non-HMA**	**Total**
Closed	**104,000**	**0**	**64,000**	**0**	**443,000**	**611,000**
Open Major Stipulations	**2,485,000**	**20,000**	**314,000**	**0**	**240,000**	**3,060,000**
Open Moderate Stipulations	**0**	**322,000**	**1,318,000**	**0**	**1,333,000**	**2,974,000**
Open Standard Stipulations	**0**	**0**	**0**	**0**	**225,000**	**225,000**
Total	**2,589,000**	**342,000**	**1,697,000**	**0**	**2,242,000**	**6,870,000**

Approximate % of Habitat Management Area by Fluid Minerals (Oil a& Gas) Decision[4] within Habitat in HAF 1					
Fluid Minerals (Oil and Gas)	**Alternative 1**				
	PHMA	**CHMA**	**GHMA**	**RHMA**	**Non-HMA**
Closed	16.34%	0.00%	35.46%	0.00%	48.37%
Open Major Stipulations	79.80%	0.00%	10.50%	1.67%	8.04%
Open Moderate Stipulations	0.00%	0.00%	44.19%	1.57%	54.13%
Open Standard Stipulations	0.00%	0.00%	57.23%	0.00%	42.20%
Total	**36.62%**	**0.00%**	**29.54%**	**1.34%**	**32.41%**
Fluid Minerals (Oil and Gas)	**Alternative 2**				
	PHMA	**CHMA**	**GHMA**	**RHMA**	**Non-HMA**
Closed	16.34%	0.00%	35.46%	0.00%	48.37%
Open Major Stipulations	79.80%	0.00%	10.50%	1.67%	8.04%
Open Moderate Stipulations	0.00%	0.00%	44.19%	1.57%	54.13%
Open Standard Stipulations	0.00%	0.00%	57.23%	0.00%	42.20%
Total	**36.62%**	**0.00%**	**29.54%**	**1.34%**	**32.41%**
Fluid Minerals (Oil and Gas)	**Alternative 3**				
	PHMA	**CHMA**	**GHMA**	**RHMA**	**Non-HMA**
Closed	90.20%	0.00%	0.00%	0.00%	9.80%
Open Major Stipulations	0.00%	51.81%	0.00%	0.00%	48.19%
Open Moderate Stipulations	0.00%	0.00%	0.00%	0.00%	100.00%
Open Standard Stipulations	0.00%	0.00%	0.00%	0.00%	100.00%
Total	**61.97%**	**3.92%**	**0.00%**	**0.00%**	**34.09%**
Fluid Minerals (Oil and Gas)	**Alternative 4**				
	PHMA	**CHMA**	**GHMA**	**RHMA**	**Non-HMA**
Closed	17.02%	0.00%	10.47%	0.00%	72.50%
Open Major Stipulations	80.04%	0.76%	9.98%	1.59%	7.63%
Open Moderate Stipulations	0.00%	10.87%	42.69%	1.48%	44.99%
Open Standard Stipulations	0.00%	0.00%	0.00%	0.00%	100.00%
Total	**39.75%**	**4.99%**	**23.65%**	**1.34%**	**32.27%**
Fluid Minerals (Oil and Gas)	**Alternative 5**				
	PHMA	**CHMA**	**GHMA**	**RHMA**	**Non-HMA**
Closed	17.02%	0.00%	10.47%	0.00%	72.50%
Open Major Stipulations	80.97%	0.65%	9.25%	1.30%	7.82%
Open Moderate Stipulations	0.00%	10.87%	42.69%	1.48%	44.99%
Open Standard Stipulations	0.00%	0.00%	0.00%	0.00%	100.00%
Total	**37.69%**	**4.98%**	**23.48%**	**1.22%**	**32.63%**
Fluid Minerals (Oil and Gas)	**Alternative 6**				
	PHMA	**CHMA**	**GHMA**	**RHMA**	**Non-HMA**
Closed	17.02%	0.00%	10.47%	0.00%	72.50%
Open Major Stipulations	80.04%	0.76%	9.98%	1.59%	7.63%
Open Moderate Stipulations	0.00%	10.87%	42.69%	1.48%	44.99%
Open Standard Stipulations	0.00%	0.00%	0.00%	0.00%	100.00%
Total	**37.75%**	**4.99%**	**23.65%**	**1.34%**	**32.27%**
Fluid Minerals (Oil and Gas)	**Proposed RMP Amendment**				
	PHMA	**CHMA**	**GHMA**	**RHMA**	**Non-HMA**
Closed	17.02%	0.00%	10.47%	0.00%	72.50%
Open Major Stipulations	81.20%	0.65%	10.26%	0.00%	7.84%
Open Moderate Stipulations	0.00%	10.82%	44.31%	0.00%	44.82%
Open Standard Stipulations	0.00%	0.00%	0.00%	0.00%	100.00%
Total	**37.68%**	**4.97%**	**24.70%**	**0.00%**	**32.63%**

14.4.2 HAF Group 2

I. Habitat Management

Table 14-4. Habitat Management Areas within HAF 2

Acres and percentages reflect all lands. Percentages may not total to 100% due to rounding. All figures and tables are intended for Habitat Assessment Framework summary purposes only.

Approximate Acres of HMA in HAF 2					
Alternative 1					
PHMA	**GHMA**	**CHMA**	**RHMA**	**Non-HMA**	**Total**
7,981,000	23,522,000	0	351,000	15,832,000	**47,686,000**
Alternative 2					
PHMA	**GHMA**	**CHMA**	**RHMA**	**Non-HMA**	**Total**
7,981,000	23,522,000	0	351,000	15,832,000	**47,686,000**
Alternative 3					
PHMA	**GHMA**	**CHMA**	**RHMA**	**Non-HMA**	**Total**
31,835,000	0	0	0	15,938,000	**47,774,000**
Alternative 4					
PHMA	**GHMA**	**CHMA**	**RHMA**	**Non-HMA**	**Total**
10,137,000	21,602,000	0	93,000	15,942,000	**47,774,000**
Alternative 5					
PHMA	**GHMA**	**CHMA**	**RHMA**	**Non-HMA**	**Total**
8,275,000	23,281,000	0	93,000	15,942,000	**47,774,000**
Alternative 6					
PHMA	**GHMA**	**CHMA**	**RHMA**	**Non-HMA**	**Total**
8,274,000	23,281,000	0	93,000	15,943,000	**47,774,000**
Proposed RMP Amendment					
PHMA	**GHMA**	**CHMA**	**RHMA**	**Non-HMA**	**Total**
7,717,000	23,313,000	0	0	15,941,000	**47,774,000**

Approximate Percent of HAF 2 that is HMA				
Alternative 1				
PHMA	**GHMA**	**CHMA**	**RHMA**	**Non-HMA**
16.74%	49.33%	0.00%	0.74%	33.20%
Alternative 2				
PHMA	**GHMA**	**CHMA**	**RHMA**	**Non-HMA**
16.74%	49.33%	0.00%	0.74%	33.20%
Alternative 3				
PHMA	**GHMA**	**CHMA**	**RHMA**	**Non-HMA**
66.64%	0.00%	0.00%	0.00%	33.36%
Alternative 4				
PHMA	**GHMA**	**CHMA**	**RHMA**	**Non-HMA**
21.22%	45.22%	0.00%	0.19%	33.37%
Alternative 5				
PHMA	**GHMA**	**CHMA**	**RHMA**	**Non-HMA**
17.32%	48.72%	0.00%	0.19%	33.37%
Alternative 6				
PHMA	**GHMA**	**CHMA**	**RHMA**	**Non-HMA**
17.32%	48.73%	0.00%	0.19%	33.37%
Proposed RMP Amendment				
PHMA	**GHMA**	**CHMA**	**RHMA**	**Non-HMA**
16.15%	48.80%	0.00%	0.00%	33.37%

II. Locatable Minerals

Table 14-5. Locatable Minerals Decisions within HAF 2

Acres and percentages reflect BLM managed lands. Percentages may not total to 100% due to rounding. All figures and tables are intended for Habitat Assessment Framework summary purposes only. The acres for the locatable minerals represent a combination of existing allocations in existing Resource Management Plans (RMPs) and allocations identified under the alternatives in this RMP Amendment. For example, for locatable minerals, proposed mineral withdrawals are only proposed and considered for GRSG conservation under Alternative 1 and Alternative 3 in this RMP Amendment. All the other existing and proposed withdrawal acreage that is identified under other alternatives represent proposed or existing withdrawals that are either being proposed in other RMP efforts or existing withdrawals that are already in place. The information is provided for context and to facilitate the analysis of effects.

Approximate Acres of Locatable Minerals Decisions[4] in HAF 2 by Habitat Management Area Type						
Locatable Minerals	**Alternative 1**					
	PHMA	**GHMA**	**CHMA**	**RHMA**	**Non-HMA**	**Total**
Existing Withdrawals	10,000	57,000	0	0	233,000	**300,000**
Recommended Withdrawals	107,000	249,000	0	0	49,000	**405,000**
Open	4,438,000	9,329,000	0	93,000	872,000	**14,760,000**
Total	**4,555,000**	**9,635,000**	**0**	**93,000**	**1,153,000**	**15,465,000**
Locatable Minerals	**Alternative 2**					
	PHMA	**GHMA**	**CHMA**	**RHMA**	**Non-HMA**	**Total**
Existing Withdrawals	10,000	57,000	0	0	233,000	**300,000**
Recommended Withdrawals	107,000	249,000	0	0	49,000	**405,000**
Open	4,438,000	9,329,000	0	93,000	872,000	**14,760,000**
Total	**4,555,000**	**9,635,000**	**0**	**93,000**	**1,153,000**	**15,465,000**
Locatable Minerals	**Alternative 3**					
	PHMA	**GHMA**	**CHMA**	**RHMA**	**Non-HMA**	**Total**
Existing Withdrawals	75,000	0	0	0	226,000	**300,000**
Recommended Withdrawals	13,855,000	0	0	0	37,000	**13,954,000**
Open	437,000	0	0	0	782,000	**1,219,000**
Total	**14,367,000**	**0**	**0**	**0**	**1,044,000**	**15,473,000**
Locatable Minerals	**Alternative 4**					
	PHMA	**GHMA**	**CHMA**	**RHMA**	**Non-HMA**	**Total**
Existing Withdrawals	14,000	60,000	0	200	226,000	**300,000**
Recommended Withdrawals	143,000	223,000	0	0	38,000	**405,000**
Open	5,714,000	8,246,000	0	22,000	783,000	**14,764,000**
Total	**5,871,000**	**8,529,000**	**0**	**22,000**	**1,047,000**	**15,469,000**
Locatable Minerals	**Alternative 5**					
	PHMA	**GHMA**	**CHMA**	**RHMA**	**Non-HMA**	**Total**
Existing Withdrawals	12,000	62,000	0	0	226,000	**300,000**
Recommended Withdrawals	120,000	246,000	0	0	38,000	**405,000**
Open	4,548,000	9,283,000	0	22,000	783,000	**14,764,000**
Total	**4,680,000**	**9,591,000**	**0**	**22,000**	**1,047,000**	**15,469,000**
Locatable Minerals	**Alternative 6**					
	PHMA	**GHMA**	**CHMA**	**RHMA**	**Non-HMA**	**Total**
Existing Withdrawals	12,000	62,000	0	0	226,000	**300,000**
Recommended Withdrawals	120,000	246,000	0	0	38,000	**405,000**
Open	4,547,000	9,283,000	0	22,000	783,000	**14,764,000**
Total	**4,680,000**	**9,591,000**	**0**	**22,000**	**1,047,000**	**15,469,000**

Approximate Acres of Locatable Minerals Decisions[4] in HAF 2 by Habitat Management Area Type						
Locatable Minerals	**Proposed RMP Amendment**					
	PHMA	**GHMA**	**CHMA**	**RHMA**	**Non-HMA**	**Total**
Existing Withdrawals	12,000	62,000	0	0	226,000	300,000
Recommended Withdrawals	120,000	246,000	0	0	38,000	405,000
Open	4,467,000	9,284,000	0	0	783,000	14,764,000
Total	**4,599,000**	**9,593,000**	**0**	**0**	**1,047,000**	**15,469,000**

Approximate % of Habitat Management Area by Locatable Minerals Decisions[2] within Habitat in HAF 2					
Locatable Minerals	**Alternative 1**				
	PHMA	**GHMA**	**CHMA**	**RHMA**	**Non-HMA**
Existing Withdrawals	3.33%	19.00%	0.00%	0.00%	77.67%
Recommended Withdrawals	26.42%	61.48%	0.00%	0.00%	12.10%
Open	30.07%	63.20%	0.00%	0.63%	5.91%
Total	**29.45%**	**62.30%**	**0.00%**	**0.60%**	**7.46%**
Locatable Minerals	**Alternative 2**				
	PHMA	**GHMA**	**CHMA**	**RHMA**	**Non-HMA**
Existing Withdrawals	3.33%	19.00%	0.00%	0.00%	77.67%
Recommended Withdrawals	26.42%	61.48%	0.00%	0.00%	12.10%
Open	30.07%	63.20%	0.00%	0.63%	5.91%
Total	**29.45%**	**62.30%**	**0.00%**	**0.60%**	**7.46%**
Locatable Minerals	**Alternative 3**				
	PHMA	**GHMA**	**CHMA**	**RHMA**	**Non-HMA**
Existing Withdrawals	25.00%	0.00%	0.00%	0.00%	75.33%
Recommended Withdrawals	99.29%	0.00%	0.00%	0.00%	0.27%
Open	35.85%	0.00%	0.00%	0.00%	64.15%
Total	**92.85%**	**0.00%**	**0.00%**	**0.00%**	**6.75%**
Locatable Minerals	**Alternative 4**				
	PHMA	**GHMA**	**CHMA**	**RHMA**	**Non-HMA**
Existing Withdrawals	4.67%	20.00%	0.00%	0.07%	75.33%
Recommended Withdrawals	35.31%	55.06%	0.00%	0.00%	9.38%
Open	38.70%	55.85%	0.00%	0.15%	5.30%
Total	**37.95%**	**55.14%**	**0.00%**	**0.14%**	**6.77%**
Locatable Minerals	**Alternative 5**				
	PHMA	**GHMA**	**CHMA**	**RHMA**	**Non-HMA**
Existing Withdrawals	4.00%	20.67%	0.00%	0.00%	75.33%
Recommended Withdrawals	29.63%	60.74%	0.00%	0.00%	9.38%
Open	30.80%	62.88%	0.00%	0.15%	5.30%
Total	**30.25%**	**62.00%**	**0.00%**	**0.14%**	**6.77%**
Locatable Minerals	**Alternative 6**				
	PHMA	**GHMA**	**CHMA**	**RHMA**	**Non-HMA**
Existing Withdrawals	4.00%	20.67%	0.00%	0.00%	75.33%
Recommended Withdrawals	29.63%	60.74%	0.00%	0.00%	9.63%
Open	31.70%	62.88%	0.00%	0.15%	5.30%
Total	**30.25%**	**62.00%**	**0.00**	**0.14%**	**6.77%**
Locatable Minerals	**Proposed RMP Amendment**				
	PHMA	**GHMA**	**CHMA**	**RHMA**	**Non-HMA**
Existing Withdrawals	4.00%	20.67%	0.00%	0.00%	75.33%
Recommended Withdrawals	29.63%	60.74%	0.00%	0.00%	9.38%
Open	30.26%	62.88%	0.00%	0.00%	5.30%
Total	**29.73%**	**62.01%**	**0.00%**	**0.00%**	**6.77%**

III. Fluid Minerals (Oil & Gas)

Table 14-6. Fluid Minerals (Oil & Gas) Decisions within HAF 2

Acres and percentages reflect BLM managed lands. Percentages may not total to 100% due to rounding. All figures and tables are intended for Habitat Assessment Framework summary purposes only. These acres for fluid minerals represent a combination of existing allocations in existing Resource Management Plans (RMPs) and allocations identified under the alternatives in this RMP Amendment. The information is provided for context and to facilitate the analysis of effects. It is important to note that just because an area is open to leasing does not mean that it will be developed. Any development must be in conformance with the stipulations which may preclude development in some areas. The stipulation information has been considered in context with mineral potential, and drilling and economic trends to develop the Reasonably Foreseeable Development Scenario (see **Appendix 12**) which estimates the amount of development anticipated across all land ownership for each alternative.

Approximate Acres of Fluid Minerals (Oil & Gas) Decisions in HAF 2 by Habitat Management Area Type						
Fluid Minerals (Oil and Gas)	**Alternative 1**					
	PHMA	**GHMA**	**CHMA**	**RHMA**	**Non-HMA**	**Total**
Closed	166,000	403,000	0	0	258,000	**827,000**
Open Major Stipulations	2,622,000	1,720,000	0	186,000	251,000	**4,782,000**
Open Moderate Stipulations	2,229,000	5,709,000	0	20,000	756,000	**8,714,000**
Open Standard Stipulations	5,000	3,113,000	0	0	314,000	**3,458,000**
Total	**5,021,000**	**10,945,000**	**0**	**206,000**	**1,578,000**	**17,780,000**
Fluid Minerals (Oil and Gas)	**Alternative 2**					
	PHMA	**GHMA**	**CHMA**	**RHMA**	**Non-HMA**	**Total**
Closed	166,000	403,000	0	0	258,000	**827,000**
Open Major Stipulations	2,622,000	1,720,000	0	186,000	251,000	**4,782,000**
Open Moderate Stipulations	2,229,000	5,709,000	0	20,000	756,000	**8,714,000**
Open Standard Stipulations	5,000	3,113,000	0	0	314,000	**3,458,000**
Total	**5,021,000**	**10,945,000**	**0**	**206,000**	**1,578,000**	**17,780,000**
Fluid Minerals (Oil and Gas)	**Alternative 3**					
	PHMA	**GHMA**	**CHMA**	**RHMA**	**Non-HMA**	**Total**
Closed	15,615,000	0	0	0	248,000	**15,928,000**
Open Major Stipulations	130,000	0	0	0	241,000	**371,000**
Open Moderate Stipulations	220,000	0	0	0	707,000	**926,000**
Open Standard Stipulations	116,000	0	0	0	256,000	**372,000**
Total	**16,081,000**	**0**	**0**	**0**	**1,452,000**	**17,597,000**
Fluid Minerals (Oil and Gas)	**Alternative 4**					
	PHMA	**GHMA**	**CHMA**	**RHMA**	**Non-HMA**	**Total**
Closed	201,000	377,000	0	0	248,000	**827,000**
Open Major Stipulations	6,028,000	1,439,000	0	14,000	241,000	**7,727,000**
Open Moderate Stipulations	162,000	5,200,000	0	20,000	911,000	**6,306,000**
Open Standard Stipulations	14,000	2,646,000	0	0	257,000	**2,963,000**
Total	**6,405,000**	**9,662,000**	**0**	**35,000**	**1,657,000**	**17,823,000**
Fluid Minerals (Oil and Gas)	**Alternative 5**					
	PHMA	**GHMA**	**CHMA**	**RHMA**	**Non-HMA**	**Total**
Closed	174,000	404,000	0	0	248,000	**827,000**
Open Major Stipulations	2,794,000	1,665,000	73,000	14,000	241,000	**4,787,000**
Open Moderate Stipulations	2,239,000	5,866,000	51,000	20,000	911,000	**9,087,000**
Open Standard Stipulations	11,000	2,734,000	1,000	0	257,000	**3,003,000**
Total	**5,218,000**	**10,670,000**	**124,000**	**35,000**	**1,657,000**	**17,704,000**

Approximate Acres of Fluid Minerals (Oil & Gas) Decisions in HAF 2 by Habitat Management Area Type						
Fluid Minerals (Oil and Gas)	**Alternative 6**					
	PHMA	**GHMA**	**CHMA**	**RHMA**	**Non-HMA**	**Total**
Closed	174,000	404,000	0	0	248,000	**827,000**
Open Major Stipulations	2,851,000	1,673,000	73,000	14,000	241,000	**4,852,000**
Open Moderate Stipulations	2,227,000	5,866,000	51,000	20,000	911,000	**9,075,000**
Open Standard Stipulations	11,000	2,734,000	1,000	0	257,000	**3,003,000**
Total	**5,263,000**	**10,677,000**	**124,000**	**35,000**	**1,657,000**	**17,756,000**
Fluid Minerals (Oil and Gas)	**Proposed RMP Amendment**					
	PHMA	**GHMA**	**CHMA**	**RHMA**	**Non-HMA**	**Total**
Closed	175,000	408,000	0	0	248,000	**831,000**
Open Major Stipulations	2,682,000	1,653,000	73,000	0	241,000	**4,770,000**
Open Moderate Stipulations	2,240,000	5,875,000	51,000	0	911,000	**9,097,000**
Open Standard Stipulations	11,000	2,736,000	1,000	0	257,000	**3,004,000**
Total	**5,108,000**	**10,672,000**	**124,000**	**0**	**1,657,000**	**17,703,000**

Approximate % of Habitat Management Area by Fluid Minerals (Oil & Gas) Decision in HAF 2					
Fluid Minerals (Oil and Gas)	**Alternative 1**				
	PHMA	**GHMA**	**CHMA**	**RHMA**	**Non-HMA**
Closed	24.30%	45.59%	0.00%	0.00%	29.99%
Open Major Stipulations	78.01%	18.62%	0.00%	0.18%	3.12%
Open Moderate Stipulations	2.57%	82.46%	0.00%	0.32%	14.45%
Open Standard Stipulations	0.47%	89.30%	0.00%	0.00%	8.67%
Total	**35.94%**	**54.21%**	**0.00%**	**0.20%**	9.30%
Fluid Minerals (Oil and Gas)	**Alternative 2**				
	PHMA	**GHMA**	**CHMA**	**RHMA**	**Non-HMA**
Closed	20.07%	48.73%	0.00%	0.00%	**31.20%**
Open Major Stipulations	54.83%	35.97%	0.00%	3.89%	**5.25%**
Open Moderate Stipulations	25.58%	65.52%	0.00%	0.23%	**8.68%**
Open Standard Stipulations	0.14%	90.02%	0.00%	0.00%	**9.08%**
Total	**28.24%**	**61.56%**	**0.00%**	**1.16%**	**8.88%**
Fluid Minerals (Oil and Gas)	**Alternative 3**				
	PHMA	**GHMA**	**CHMA**	**RHMA**	**Non-HMA**
Closed	98.03%	0.00%	0.00%	0.00%	1.56%
Open Major Stipulations	35.04%	0.00%	0.00%	0.00%	64.96%
Open Moderate Stipulations	23.76%	0.00%	0.00%	0.00%	76.35%
Open Standard Stipulations	31.18%	0.00%	0.00%	0.00%	68.82%
Total	**91.38%**	**0.00%**	**0.00%**	**0.00%**	8.25%
Fluid Minerals (Oil and Gas)	**Alternative 4**				
	PHMA	**GHMA**	**CHMA**	**RHMA**	**Non-HMA**
Closed	24.30%	45.59%	0.00%	0.00%	29.99%
Open Major Stipulations	78.01%	18.62%	0.00%	0.18%	3.12%
Open Moderate Stipulations	2.57%	82.46%	0.00%	0.32%	14.45%
Open Standard Stipulations	0.47%	89.30%	0.00%	0.00%	8.67%
Total	**35.94%**	**54.21%**	**0.00%**	**0.20%**	9.30%
Fluid Minerals (Oil and Gas)	**Alternative 5**				
	PHMA	**GHMA**	**CHMA**	**RHMA**	**Non-HMA**
Closed	21.04%	48.85%	0.00%	0.00%	29.99%
Open Major Stipulations	58.37%	34.78%	1.52%	0.29%	5.03%
Open Moderate Stipulations	24.64%	64.55%	0.56%	0.22%	10.03%
Open Standard Stipulations	0.37%	91.04%	0.03%	0.00%	8.56%
Total	**29.47%**	**60.27%**	**0.70%**	**0.20%**	9.36%

Approximate % of Habitat Management Area by Fluid Minerals (Oil & Gas) Decision in HAF 2					
Fluid Minerals (Oil and Gas)	**Alternative 6**				
	PHMA	**GHMA**	**CHMA**	**RHMA**	**Non-HMA**
Closed	21.04%	48.85%	0.00%	0.00%	29.99%
Open Major Stipulations	58.76%	34.48%	1.50%	0.29%	4.97%
Open Moderate Stipulations	24.54%	64.64%	0.56%	0.22%	10.04%
Open Standard Stipulations	0.37%	91.04%	0.03%	0.00%	8.56%
Total	**29.64%**	**60.13%**	**0.70%**	**0.20%**	9.33%
Fluid Minerals (Oil and Gas)	**Proposed RMP Amendment**				
	PHMA	**GHMA**	**CHMA**	**RHMA**	**Non-HMA**
Closed	21.05%	49.09%	0.00%	0.00%	29.84%
Open Major Stipulations	56.23%	34.65%	1.53%	0.00%	5.05%
Open Moderate Stipulations	24.62%	64.58%	0.56%	0.00%	10.01%
Open Standard Stipulations	0.37%	91.08%	0.03%	0.00%	8.56%
Total	**28.85%**	**60.28%**	**0.70%**	**0.00%**	**9.36%**

14.4.3 HAF Group 3

I. Habitat Management

Table 14-7. Habitat Management Areas within HAF 3

Acres and percentages reflect all lands. Percentages may not total to 100% due to rounding. All figures and tables are intended for Habitat Assessment Framework summary purposes only.

Approximate Acres of HMA in HAF 3					
Alternative 1					
PHMA	**GHMA**	**IHMA**	**LCHMA**	**Non-HMA**	**Total**
13,883,000	13,348,000	69,000	340,000	20,021,000	**47,750,000**
Alternative 2					
PHMA	**GHMA**	**IHMA**	**LCHMA**	**Non-HMA**	**Total**
14,347,000	12,553,000	69,000	296,000	20,486,000	**47,750,000**
Alternative 3					
PHMA	**GHMA**	**IHMA**	**LCHMA**	**Non-HMA**	**Total**
28,745,000	0	0	340,000	18,724,000	**47,810,000**
Alternative 4					
PHMA	**GHMA**	**IHMA**	**LCHMA**	**Non-HMA**	**Total**
15,901,000	12,607,000	106,000	340,000	18,854,000	**47,810,000**
Alternative 5					
PHMA	**GHMA**	**IHMA**	**LCHMA**	**Non-HMA**	**Total**
14,226,000	13,911,000	105,000	340,000	19,227,000	**47,810,000**
Alternative 6					
PHMA	**GHMA**	**IHMA**	**LCHMA**	**Non-HMA**	**Total**
14,226,000	13,911,000	105,000	340,000	19,227,000	**47,810,000**
Proposed RMP Amendment					
PHMA	**GHMA**	**IHMA**	**LCHMA**	**Non-HMA**	**Total**
13,961,000	14,022,000	105,000	341,000	18,987,000	**47,505,000**

Approximate Percent of HAF 3 that is HMA				
Alternative 1				
PHMA	**GHMA**	**IHMA**	**LCHMA**	**Non-HMA**
29.07%	27.95%	0.14%	0.71%	41.93%
Alternative 2				
PHMA	**GHMA**	**IHMA**	**LCHMA**	**Non-HMA**
30.05%	26.29%	0.14%	0.62%	42.90%
Alternative 3				
PHMA	**GHMA**	**IHMA**	**LCHMA**	**Non-HMA**
60.12%	0.00%	0.00%	0.71%	39.16%
Alternative 4				
PHMA	**GHMA**	**IHMA**	**LCHMA**	**Non-HMA**
33.27%	26.37%	0.22%	0.71%	29.44%
Alternative 5				
PHMA	**GHMA**	**IHMA**	**LCHMA**	**Non-HMA**
29.76%	29.10%	0.22%	0.71%	40.22%
Alternative 6				
PHMA	**GHMA**	**IHMA**	**LCHMA**	**Non-HMA**
29.76%	29.10%	0.22%	0.71%	40.22%
Proposed RMP Amendment				
PHMA	**GHMA**	**IHMA**	**LCHMA**	**Non-HMA**
29.34%	29.52%	0.22%	0.72%	39.97%

II. Locatable Minerals

Table 14-8. Locatable Minerals Decisions within HAF 3

Acres and percentages reflect BLM managed lands. Percentages may not total to 100% due to rounding. All figures and tables are intended for Habitat Assessment Framework summary purposes only. The acres for the locatable minerals represent a combination of existing allocations in existing Resource Management Plans (RMPs) and allocations identified under the alternatives in this RMP Amendment. For example, for locatable minerals, proposed mineral withdrawals are only proposed and considered for GRSG conservation under Alternative 1 and Alternative 3 in this RMP Amendment. All the other existing and proposed withdrawal acreage that is identified under other alternatives represent proposed or existing withdrawals that are either being proposed in other RMP efforts or existing withdrawals that are already in place. The information is provided for context and to facilitate the analysis of effects.

Approximate Acres of Locatable Minerals Decisions in HAF 3 by Habitat Management Area Type						
Locatable Minerals	**Alternative 1**					
	PHMA	**GHMA**	**IHMA**	**LCHMA**	**Non-HMA**	**Total**
Existing Withdrawals	1,916,000	2,258,000	7,000	0	3,331,000	**7,517,000**
Recommended Withdrawals	1,001,000	221,000	0	0	330,000	**1,555,000**
Open	6,312,000	5,381,000	27,000	0	6,471,000	**18,348,000**
Total	**9,230,000**	**7,861,000**	**33,322**	**0**	**10,131,000**	**27,420,000**
Locatable Minerals	**Alternative 2**					
	PHMA	**GHMA**	**IHMA**	**LCHMA**	**Non-HMA**	**Total**
Existing Withdrawals	1,916,000	2,106,000	7,000	0	3,488,000	**7,517,000**
Recommended Withdrawals	654,000	214,000	0	0	353,000	**1,220,000**
Open	6,748,000	5,239,000	27,000	137,000	6,414,000	**18,566,000**
Total	**9,317,000**	**7,559,000**	**33,000**	**138,000**	**10,255,000**	**27,303,000**

Approximate Acres of Locatable Minerals Decisions in HAF 3 by Habitat Management Area Type						
Locatable Minerals	**Alternative 3**					
	PHMA	**GHMA**	**IHMA**	**LCHMA**	**Non-HMA**	**Total**
Existing Withdrawals	4,260,000	0	0	5,000	3,253,000	**7,517,000**
Recommended Withdrawals	12,881,000	0	0	2,000	343,000	**13,238,000**
Open	467,000	0	0	155,000	5,972,000	**6,599,000**
Total	**17,608,000**	**0**	**0**	**163,000**	**9,567,000**	**27,354,000**
Locatable Minerals	**Alternative 4**					
	PHMA	**GHMA**	**IHMA**	**LCHMA**	**Non-HMA**	**Total**
Existing Withdrawals	2,225,000	1,993,000	13,000	5,000	3,273,000	**7,509,000**
Recommended Withdrawals	659,000	192,000	0	2,000	319,000	**1,173,000**
Open	7,515,000	5,000,000	40,000	155,000	6,007,000	**18,718,000**
Total	**10,399,000**	**7,185,000**	**53,000**	**163,000**	**9,599,000**	**27,400,000**
Locatable Minerals	**Alternative 5**					
	PHMA	**GHMA**	**IHMA**	**LCHMA**	**Non-HMA**	**Total**
Existing Withdrawals	2,004,000	2,085,000	7,000	5,000	3,405,000	**7,507,000**
Recommended Withdrawals	622,000	223,000	0	2,000	326,000	**1,174,000**
Open	6,705,000	5,772,000	43,000	155,000	6,057,000	**18,749,000**
Total	**9,332,000**	**8,081,000**	**50,000**	**163,000**	**9,788,000**	**27,431,000**
Locatable Minerals	**Alternative 6**					
	PHMA	**GHMA**	**IHMA**	**LCHMA**	**Non-HMA**	**Total**
Existing Withdrawals	2,004,000	2,085,000	7,000	5,000	3,405,000	**7,507,000**
Recommended Withdrawals	622,000	223,000	0	2,000	326,000	**1,174,000**
Open	6,705,000	5,772,000	43,000	155,000	6,057,000	**18,732,000**
Total	**9,332,000**	**8,081,000**	**50,000**	**163,000**	**9,788,000**	**27,414,000**
Locatable Minerals	**Proposed RMP Amendment**					
	PHMA	**GHMA**	**IHMA**	**LCHMA**	**Non-HMA**	**Total**
Existing Withdrawals	1,997,000	2,165,000	7,000	5,000	3,329,000	**7,507,000**
Recommended Withdrawals	622,000	222,000	0	2,000	326,000	**1,174,000**
Open	6,749,000	5,684,000	43,000	155,000	6,030,000	**18,732,000**
Total	**9,368,000**	**8,071,000**	**50,000**	**163,000**	**9,685,000**	**27,413,000**

Approximate % of Habitat Management Area by Locatable Minerals Decisions[2] within Habitat in HAF 3					
Locatable Minerals	**Alternative 1**				
	PHMA	**GHMA**	**IHMA**	**LCHMA**	**Non-HMA**
Existing Withdrawals	25.49%	30.04%	0.09%	0.00%	44.31%
Recommended Withdrawals	64.37%	14.21%	0.00%	0.00%	21.22%
Open	34.40%	29.33%	0.15%	0.00%	35.27%
Total	**33.66%**	**28.67%**	**0.12%**	**0.00%**	**36.95%**
Locatable Minerals	**Alternative 2**				
	PHMA	**GHMA**	**IHMA**	**LCHMA**	**Non-HMA**
Existing Withdrawals	25.49%	28.02%	0.09%	0.00%	46.40%
Recommended Withdrawals	53.61%	17.54%	0.00%	0.00%	28.93%
Open	36.35%	28.22%	0.15%	0.74%	34.55%
Total	**34.12%**	**27.69%**	**0.12%**	**0.51%**	**37.56%**
Locatable Minerals	**Alternative 3**				
	PHMA	**GHMA**	**IHMA**	**LCHMA**	**Non-HMA**
Existing Withdrawals	56.67%	0.00%	0.00%	0.07%	43.28%
Recommended Withdrawals	97.30%	0.00%	0.00%	0.02%	2.59%
Open	7.08%	0.00%	0.00%	2.35%	90.50%
Total	**64.37%**	**0.00%**	**0.00%**	**0.60%**	**34.97%**

Approximate % of Habitat Management Area by Locatable Minerals Decisions[2] within Habitat in HAF 3					
Locatable Minerals	**Alternative 4**				
	PHMA	**GHMA**	**IHMA**	**LCHMA**	**Non-HMA**
Existing Withdrawals	29.63%	26.54%	0.17%	0.07%	43.59%
Recommended Withdrawals	56.18%	16.37%	0.00%	0.17%	27.20%
Open	40.15%	26.71%	0.21%	0.83%	32.09%
Total	**37.95%**	**26.22%**	**0.19%**	**0.59%**	**35.03%**
Locatable Minerals	**Alternative 5**				
	PHMA	**GHMA**	**IHMA**	**LCHMA**	**Non-HMA**
Existing Withdrawals	26.70%	27.77%	0.09%	0.07%	45.36%
Recommended Withdrawals	52.98%	18.99%	0.00%	0.17%	27.77%
Open	35.76%	30.79%	0.23%	0.83%	32.31%
Total	**34.02%**	**29.46%**	**0.18%**	**0.59%**	**35.68%**
Locatable Minerals	**Alternative 6**				
	PHMA	**GHMA**	**IHMA**	**LCHMA**	**Non-HMA**
Existing Withdrawals	26.70%	27.77%	0.09%	0.07%	45.36%
Recommended Withdrawals	52.98%	18.99%	0.00%	0.17%	27.77%
Open	35.79%	30.81%	0.23%	0.83%	32.34%
Total	**34.04%**	**29.48%**	**0.18%**	**0.59%**	**35.70%**
Locatable Minerals	**Proposed RMP Amendment**				
	PHMA	**GHMA**	**IHMA**	**LCHMA**	**Non-HMA**
Existing Withdrawals	26.60%	28.84%	0.09%	0.07%	44.35%
Recommended Withdrawals	52.98%	18.91%	0.00%	0.17%	27.77%
Open	36.03%	30.34%	0.23%	0.83%	32.19%
Total	**34.17%**	**29.44%**	**0.18%**	**0.59%**	**35.33%**

III. Fluid Minerals (Oil & Gas)

Table 14-9. Fluid Mineral (Oil & Gas) Decisions within HAF 3

Percentages reflect BLM managed lands. Percentages may not total to 100% due to rounding. All figures and tables are intended for Habitat Assessment Framework summary purposes only. These acres for fluid minerals represent a combination of existing allocations in existing Resource Management Plans (RMPs) and allocations identified under the alternatives in this RMP Amendment. The information is provided for context and to facilitate the analysis of effects. It is important to note that just because an area is open to leasing does not mean that it will be developed. Any development must be in conformance with the stipulations which may preclude development in some areas. The stipulation information has been considered in context with mineral potential, and drilling and economic trends to develop the Reasonably Foreseeable Development Scenario (see **Appendix 12**) which estimates the amount of development anticipated across all land ownership for each alternative.

Approximate Acres of Fluid Minerals (Oil & Gas) Decisions in HAF 3 by Habitat Management Area Type						
Fluid Mineral (Oil & Gas) Decisions	**Alternative 1**					
	PHMA	**GHMA**	**IHMA**	**LCHMA**	**Non-HMA**	**Total**
Closed	1,308,000	952,000	7,000	9,000	3,365,000	**5,640,000**
Open Major Stipulations	2,966,000	996,000	23,000	57,000	1,466,000	**5,508,000**
Open Moderate Stipulations	5,033,000	4,654,000	0	101,000	3,021,000	**12,810,000**
Open Standard Stipulations	0	1,262,000	0	9,000	1,057,000	**2,321,000**
Total	**9,307,000**	**7,863,000**	**29,000**	**168,000**	**8,910,000**	**26,279,000**

Approximate Acres of Fluid Minerals (Oil & Gas) Decisions in HAF 3 by Habitat Management Area Type						
Fluid Mineral (Oil & Gas) Decisions	**Alternative 2**					
	PHMA	**GHMA**	**IHMA**	**LCHMA**	**Non-HMA**	**Total**
Closed	1,027,000	890,000	7,000	0	3,492,000	**5,417,000**
Open Major Stipulations	3,486,000	860,000	23,000	54,000	1,721,000	**6,143,000**
Open Moderate Stipulations	5,047,000	4,582,000	0	80,000	3,296,000	**13,006,000**
Open Standard Stipulations	0	1,296,000	0	8,000	1,369,000	**2,675,000**
Total	**9,561,000**	**7,628,000**	**29,000**	**143,000**	**9,878,000**	**27,241,000**
Fluid Mineral (Oil & Gas) Decisions	**Alternative 3**					
	PHMA	**GHMA**	**IHMA**	**LCHMA**	**Non-HMA**	**Total**
Closed	17,146,000	0	0	8,000	3,255,000	**20,420,000**
Open Major Stipulations	206,000	0	0	58,000	1,477,000	**1,741,000**
Open Moderate Stipulations	217,000	0	0	100,000	2,476,000	**2,796,000**
Open Standard Stipulations	50,000	0	0	1,000	994,000	**1,047,000**
Total	**17,619,000**	**0**	**0**	**168,000**	**8,201,000**	**26,005,000**
Fluid Mineral (Oil & Gas) Decisions	**Alternative 4**					
	PHMA	**GHMA**	**IHMA**	**LCHMA**	**Non-HMA**	**Total**
Closed	1,078,000	940,000	19,000	8,000	3,256,000	**5,301,000**
Open Major Stipulations	9,564,000	1,093,000	17,000	58,000	1,476,000	**12,208,000**
Open Moderate Stipulations	0	4,007,000	0	100,000	2,788,300	**6,906,000**
Open Standard Stipulations	13,000	1,050,000	11,000	1,000	996,000	**2,077,000**
Total	**10,656,000**	**7,089,000**	**47,000**	**168,000**	**8,516,000**	**26,492,000**
Fluid Mineral (Oil & Gas) Decisions	**Alternative 5**					
	PHMA	**GHMA**	**IHMA**	**LCHMA**	**Non-HMA**	**Total**
Closed	1,015,000	996,000	17,000	8,000	3,265,000	**5,301,000**
Open Major Stipulations	3,224,000	1,080,000	13,000	58,000	1,478,000	**5,853,000**
Open Moderate Stipulations	5,294,000	4,713,000	0	100,000	2,862,000	**12,969,000**
Open Standard Stipulations	0	1,202,000	8,000	1,000	1,059,000	**2,270,000**
Total	**9,533,000**	**7,990,000**	**38,000**	**168,000**	**8,663,000**	**26,392,000**
Fluid Mineral (Oil & Gas) Decisions	**Alternative 6**					
	PHMA	**GHMA**	**IHMA**	**LCHMA**	**Non-HMA**	**Total**
Closed	1,015,000	996,000	17,000	8,000	3,265,000	**5,301,000**
Open Major Stipulations	3,581,000	1,080,000	13,000	58,000	1,478,000	**6,210,000**
Open Moderate Stipulations	4,938,000	4,713,000	0	100,000	2,862,000	**12,613,000**
Open Standard Stipulations	0	1,202,000	8,000	1,000	1,059,000	**2,270,000**
Total	**9,534,000**	**7,990,000**	**38,000**	**168,000**	**8,663,000**	**26,393,000**
Fluid Mineral (Oil & Gas) Decisions	**Proposed RMP Amendment**					
	PHMA	**GHMA**	**IHMA**	**LCHMA**	**Non-HMA**	**Total**
Closed	1,461,000	1,036,000	17,000	8,000	3,268,000	**5,830,000**
Open Major Stipulations	3,055,000	996,000	13,000	58,000	1,473,000	**5,599,000**
Open Moderate Stipulations	5,049,000	4,750,000	0	100,000	2,816,000	**12,725,000**
Open Standard Stipulations	0	1,197,000	8,000	1,000	1,022,000	**2,237,000**
Total	**9,565,000**	**7,979,000**	**38,000**	**168,000**	**8,579,000**	**26,391,000**

Approximate % of Habitat Management Area by Fluid Mineral (Oil & Gas) Decision in HAF 3					
Fluid Mineral (Oil & Gas) Decisions	**Alternative 1**				
	PHMA	**GHMA**	**IHMA**	**LCHMA**	**Non-HMA**
Closed	23.19%	16.88%	0.12%	0.16%	59.66%
Open Major Stipulations	53.85%	18.08%	0.42%	1.03%	26.62%
Open Moderate Stipulations	39.29%	36.33%	0.00%	0.79%	23.58%
Open Standard Stipulations	0.00%	54.37%	0.00%	0.39%	45.54%
Total	**35.42%**	**29.92%**	**0.11%**	**0.64%**	**33.91%**

Approximate % of Habitat Management Area by Fluid Mineral (Oil & Gas) Decision in HAF 3					
Fluid Mineral (Oil & Gas) Decisions	**Alternative 2**				
	PHMA	**GHMA**	**IHMA**	**LCHMA**	**Non-HMA**
Closed	18.96%	16.43%	0.13%	0.00%	64.46%
Open Major Stipulations	56.75%	14.00%	0.37%	0.88%	28.02%
Open Moderate Stipulations	38.81%	35.23%	0.00%	0.62%	25.34%
Open Standard Stipulations	0.00%	48.45%	0.00%	0.30%	51.18%
Total	**35.10%**	**28.00%**	**0.11%**	**0.52%**	**36.26%**
Fluid Mineral (Oil & Gas) Decisions	**Alternative 3**				
	PHMA	**GHMA**	**IHMA**	**LCHMA**	**Non-HMA**
Closed	83.97%	0.00%	0.00%	0.04%	15.94%
Open Major Stipulations	11.83%	0.00%	0.00%	3.33%	84.84%
Open Moderate Stipulations	7.76%	0.00%	0.00%	3.58%	88.56%
Open Standard Stipulations	4.78%	0.00%	0.00%	0.10%	94.94%
Total	**67.75%**	**0.00%**	**0.00%**	**0.65%**	**31.54%**
Fluid Mineral (Oil & Gas) Decisions	**Alternative 4**				
	PHMA	**GHMA**	**IHMA**	**LCHMA**	**Non-HMA**
Closed	20.34%	17.73%	0.36%	0.15%	61.42%
Open Major Stipulations	78.34%	8.95%	0.14%	0.48%	12.09%
Open Moderate Stipulations	0.00%	58.04%	0.00%	1.45%	40.38%
Open Standard Stipulations	0.63%	50.55%	0.53%	0.05%	47.95%
Total	**40.22%**	**26.76%**	**0.18%**	**0.63%**	**32.15%**
Fluid Mineral (Oil & Gas) Decisions	**Alternative 5**				
	PHMA	**GHMA**	**IHMA**	**LCHMA**	**Non-HMA**
Closed	19.15%	18.79%	0.32%	0.15%	61.59%
Open Major Stipulations	55.08%	18.45%	0.22%	0.99%	25.25%
Open Moderate Stipulations	40.82%	36.34%	0.00%	0.77%	22.07%
Open Standard Stipulations	0.00%	52.95%	0.35%	0.04%	46.65%
Total	**36.12%**	**30.27%**	**0.13%**	**0.64%**	**32.82%**
Fluid Mineral (Oil & Gas) Decisions	**Alternative 6**				
	PHMA	**GHMA**	**IHMA**	**LCHMA**	**Non-HMA**
Closed	19.15%	18.79%	0.32%	0.15%	61.59%
Open Major Stipulations	57.67%	17.39%	0.21%	0.93%	23.80%
Open Moderate Stipulations	39.12%	37.34%	0.00%	0.79%	22.67%
Open Standard Stipulations	0.00%	52.95%	0.35%	0.04%	46.65%
Total	**36.12%**	**30.27%**	**0.14%**	**0.64%**	**32.82%**
Fluid Mineral (Oil & Gas) Decisions	**Proposed RMP Amendment**				
	PHMA	**GHMA**	**IHMA**	**LCHMA**	**Non-HMA**
Closed	25.06%	17.77%	0.29%	0.14%	56.05%
Open Major Stipulations	54.56%	17.79%	0.23%	1.04%	26.31%
Open Moderate Stipulations	39.68%	37.33%	0.00%	0.79%	22.13%
Open Standard Stipulations	0.00%	53.51%	0.36%	0.04%	45.69%
Total	**36.24%**	**30.23%**	**0.14%**	**0.64%**	**32.51%**

14.4.4 HAF Group 4

I. Habitat Management

Table 14-10. Habitat Management Areas within HAF 4

Acres and percentages reflect all lands. Percentages may not total to 100% due to rounding. All figures and tables are intended for Habitat Assessment Framework summary purposes only.

Approximate Acres of HMA in HAF 4			
Alternative 1			
PHMA	**GHMA**	**Non-HMA**	**Total**
2,566,000	1,152,000	11,147,000	**14,865,000**
Alternative 2			
PHMA	**GHMA**	**Non-HMA**	**Total**
2,566,000	0	12,299,000	**14,865,000**
Alternative 3			
PHMA	**GHMA**	**Non-HMA**	**Total**
5,035,000	0	9,902,000	**14,937,000**
Alternative 4			
PHMA	**GHMA**	**Non-HMA**	**Total**
2,673,000	1,854,000	10,398,000	**14,924,000**
Alternative 5			
PHMA	**GHMA**	**Non-HMA**	**Total**
1,802,000	668,000	12,394,000	**14,865,000**
Alternative 6			
PHMA	**GHMA**	**Non-HMA**	**Total**
1,802,000	668,000	12,394,000	**14,865,000**
Proposed RMP Amendment			
PHMA	**GHMA**	**Non-HMA**	**Total**
2,635,000	1,015,000	11,077,000	**14,907,000**

Approximate Percent of HAF 4 that is HMA		
Alternative 1		
PHMA	**GHMA**	**Non-HMA**
17.26%	7.75%	74.99%
Alternative 2		
PHMA	**GHMA**	**Non-HMA**
17.26%	0.00%	82.74%
Alternative 3		
PHMA	**GHMA**	**Non-HMA**
33.71%	0.00%	66.29%
Alternative 4		
PHMA	**GHMA**	**Non-HMA**
17.91%	12.42%	69.67%
Alternative 5		
PHMA	**GHMA**	**Non-HMA**
12.12%	4.49%	83.38%
Alternative 6		
PHMA	**GHMA**	**Non-HMA**
12.12%	4.49%	83.38%
Proposed RMP Amendment		
PHMA	**GHMA**	**Non-HMA**
17.68%	6.81%	74.31%

II. Locatable Minerals

Table 14-11. Locatable Minerals Decisions within HAF 4

Acreages and Percentages reflect BLM managed lands. Percentages may not total to 100% due to rounding. All figures and tables are intended for Habitat Assessment Framework summary purposes only. The acres for the locatable minerals represent a combination of existing allocations in existing Resource Management Plans (RMPs) and allocations identified under the alternatives in this RMP Amendment. For example, for locatable minerals, proposed mineral withdrawals are only proposed and considered for GRSG conservation under Alternative 1 and Alternative 3 in this RMP Amendment. All the other existing and proposed withdrawal acreage that is identified under other alternatives represent proposed or existing withdrawals that are either being proposed in other RMP efforts or existing withdrawals that are already in place. The information is provided for context and to facilitate the analysis of effects.

Approximate Acres of Locatable Minerals Decisions in HAF 4 by Habitat Management Area Type				
Locatable Minerals	**Alternative 1**			
	PHMA	**GHMA**	**Non-HMA**	**Total**
Existing Withdrawals	46,000	192,000	1,959,000	**2,197,000**
Recommended Withdrawals	4,000	0	2,000	**6,000**
Open	1,783,000	188,000	5,594,000	**7,565,000**
Total	**1,832,000**	**380,000**	**7,555,000**	**9,768,000**
Locatable Minerals	**Alternative 2**			
	PHMA	**GHMA**	**Non-HMA**	**Total**
Existing Withdrawals	46,000	0	2,151,000	**2,197,000**
Recommended Withdrawals	3,600	0	2,000	**6,000**
Open	1,783,000	0	5,782,000	**7,565,000**
Total	**1,832,000**	**0**	**7,935,000**	**9,768,000**
Locatable Minerals	**Alternative 3**			
	PHMA	**GHMA**	**Non-HMA**	**Total**
Existing Withdrawals	355,000	0	1,842,000	**2,197,000**
Recommended Withdrawals	1,847,000	0	1,000	**1,870,000**
Open	1,036,000	0	4,750,000	**5,744,000**
Total	**3,239,000**	**0**	**6,593,000**	**9,811,000**
Locatable Minerals	**Alternative 4**			
	PHMA	**GHMA**	**Non-HMA**	**Total**
Existing Withdrawals	115,000	233,000	1,849,000	**2,197,000**
Recommended Withdrawals	4,000	0	2,000	**6,000**
Open	1,774,000	889,000	4,917,000	**7,622,000**
Total	**1,893,000**	**1,122,000**	**6,768,000**	**9,825,000**
Locatable Minerals	**Alternative 5**			
	PHMA	**GHMA**	**Non-HMA**	**Total**
Existing Withdrawals	22,000	0	2,173,000	**2,196,000**
Recommended Withdrawals	4,000	0	2,000	**6,000**
Open	1,228,000	505,000	5,849,000	**7,625,000**
Total	**1,254,000**	**506,000**	**8,024,000**	**9,827,000**
Locatable Minerals	**Alternative 6**			
	PHMA	**GHMA**	**Non-HMA**	**Total**
Existing Withdrawals	22,000	0	2,173,000	**2,196,000**
Recommended Withdrawals	4,000	0	2,000	**6,000**
Open	1,228,000	505,000	5,849,000	**7,625,000**
Total	**1,254,000**	**506,000**	**8,024,000**	**9,827,000**

Approximate Acres of Locatable Minerals Decisions in HAF 4 by Habitat Management Area Type				
Locatable Minerals	**Proposed RMP Amendment**			
	PHMA	**GHMA**	**Non-HMA**	**Total**
Existing Withdrawals	114,000	142,000	1,929,000	**2,196,000**
Recommended Withdrawals	4,000	0	2,000	**6,000**
Open	1,750,000	349,000	5,365,000	**7,599,000**
Total	**1,867,000**	**491,000**	**7,295,000**	**9,800,000**

Approximate % of Habitat Management Area by Locatable Minerals Decisions[2] within Habitat in HAF 4			
Locatable Minerals	**Alternative 1**		
	PHMA	**GHMA**	**Non-HMA**
Existing Withdrawals	2.09%	8.74%	89.17%
Recommended Withdrawals	66.67%	0.00%	33.33%
Open	23.57%	2.49%	73.95%
Total	**18.76%**	**3.89%**	**77.34%**
Locatable Minerals	**Alternative 2**		
	PHMA	**GHMA**	**Non-HMA**
Existing Withdrawals	2.09%	0.00%	97.91%
Recommended Withdrawals	60.00%	0.00%	33.33%
Open	23.57%	0.00%	76.43%
Total	**18.76%**	**0.00%**	**81.23%**
Locatable Minerals	**Alternative 3**		
	PHMA	**GHMA**	**Non-HMA**
Existing Withdrawals	16.16%	0.00%	83.84%
Recommended Withdrawals	98.77%	0.00%	0.05%
Open	18.04%	0.00%	82.69%
Total	**33.01%**	**0.00%**	**67.20%**
Locatable Minerals	**Alternative 4**		
	PHMA	**GHMA**	**Non-HMA**
Existing Withdrawals	5.23%	10.61%	84.16%
Recommended Withdrawals	66.67%	0.00%	33.33%
Open	23.27%	11.66%	64.90%
Total	**19.27%**	**11.42%**	**68.89%**
Locatable Minerals	**Alternative 5**		
	PHMA	**GHMA**	**Non-HMA**
Existing Withdrawals	1.00%	0.00%	98.95%
Recommended Withdrawals	66.67%	0.00%	33.33%
Open	16.10%	6.62%	76.71%
Total	**12.76%**	**5.15%**	**81.65%**
Locatable Minerals	**Alternative 6**		
	PHMA	**GHMA**	**Non-HMA**
Existing Withdrawals	1.00%	0.00%	98.95%
Recommended Withdrawals	66.67%	0.00%	33.33%
Open	16.10%	6.62%	76.71%
Total	**13.19%**	**5.15%**	**81.65%**
Locatable Minerals	**Proposed RMP Amendment**		
	PHMA	**GHMA**	**Non-HMA**
Existing Withdrawals	5.19%	6.47%	87.84%
Recommended Withdrawals	66.67%	0.00%	33.33%
Open	23.03%	4.59%	70.60%
Total	**19.05%**	**5.01%**	**74.44%**

III. Fluid Minerals (Oil & Gas)

Table 14-12. Fluid Mineral (Oil & Gas) Decisions within HAF 4

Percentages reflect BLM managed lands. Percentages may not total to 100% due to rounding. All figures and tables are intended for Habitat Assessment Framework summary purposes only. These acres for fluid minerals represent a combination of existing allocations in existing Resource Management Plans (RMPs) and allocations identified under the alternatives in this RMP Amendment. The information is provided for context and to facilitate the analysis of effects. It is important to note that just because an area is open to leasing does not mean that it will be developed. Any development must be in conformance with the stipulations which may preclude development in some areas. The stipulation information has been considered in context with mineral potential, and drilling and economic trends to develop the Reasonably Foreseeable Development Scenario (see **Appendix 12**) which estimates the amount of development anticipated across all land ownership for each alternative.

Approximate Acres of Fluid Minerals (Oil & Gas) Decisions in HAF 4 by Habitat Management Area Type				
Fluid Mineral (Oil & Gas) Decisions	**Alternative 1**			
	PHMA	**GHMA**	**Non-HMA**	**Total**
Closed	53,000	28,000	1,321,000	**1,402,000**
Open Major Stipulations	1,775,000	27,000	2,185,000	**3,987,000**
Open Moderate Stipulations	0	186,000	1,578,000	**1,764,000**
Open Standard Stipulations	0	105,000	1,760,000	**1,865,000**
Total	**1,828,000**	**346,000**	**6,843,000**	**9,017,000**
Fluid Mineral (Oil & Gas) Decisions	**Alternative 2**			
	PHMA	**GHMA**	**Non-HMA**	**Total**
Closed	53,000	0	1,349,000	**1,402,000**
Open Major Stipulations	1,774,000	0	2,212,000	**3,986,000**
Open Moderate Stipulations	0	0	1,763,000	**1,764,000**
Open Standard Stipulations	0	0	1,865,000	**1,865,000**
Total	**1,827,000**	**0**	**7,189,000**	**9,016,000**
Fluid Mineral (Oil & Gas) Decisions	**Alternative 3**			
	PHMA	**GHMA**	**Non-HMA**	**Total**
Closed	2,069,000	0	1,270,000	**3,352,000**
Open Major Stipulations	890,000	0	1,904,000	**2,759,000**
Open Moderate Stipulations	127,000	0	1,274,000	**1,400,000**
Open Standard Stipulations	58,000	0	1,488,000	**1,545,000**
Total	**3,102,000**	**0**	**5,935,000**	**9,057,000**
Fluid Mineral (Oil & Gas) Decisions	**Alternative 4**			
	PHMA	**GHMA**	**Non-HMA**	**Total**
Closed	68,000	63,000	1,270,000	**1,402,000**
Open Major Stipulations	1,813,000	284,000	1,917,000	**4,015,000**
Open Moderate Stipulations	2,000	403,000	1,303,000	**1,721,000**
Open Standard Stipulations	4,000	298,000	1,602,000	**1,904,000**
Total	**1,887,000**	**1,049,000**	**6,092,000**	**9,042,000**
Fluid Mineral (Oil & Gas) Decisions	**Alternative 5**			
	PHMA	**GHMA**	**Non-HMA**	**Total**
Closed	40,000	1,000	1,354,000	**1,402,000**
Open Major Stipulations	1,211,000	98,000	2,200,000	**3,530,000**
Open Moderate Stipulations	0	69,000	1,780,000	**1,863,000**
Open Standard Stipulations	4,000	302,000	1,917,000	**2,224,000**
Total	**1,254,000**	**470,000**	**7,252,000**	**9,018,000**

Approximate Acres of Fluid Minerals (Oil & Gas) Decisions in HAF 4 by Habitat Management Area Type				
Fluid Mineral (Oil & Gas) Decisions	**Alternative 6**			
	PHMA	**GHMA**	**Non-HMA**	**Total**
Closed	46,000	1,000	1,354,000	**1,402,000**
Open Major Stipulations	1,232,000	98,000	2,200,000	**3,530,000**
Open Moderate Stipulations	14,000	69,000	1,780,000	**1,863,000**
Open Standard Stipulations	5,000	302,000	1,917,000	**2,224,000**
Total	**1,296,000**	**470,000**	**7,252,000**	**9,018,000**
Fluid Mineral (Oil & Gas) Decisions	**Proposed RMP Amendment**			
	PHMA	**GHMA**	**Non-HMA**	**Total**
Closed	68,000	31,000	1,303,000	**1,402,000**
Open Major Stipulations	1,718,000	48,000	2,159,000	**3,929,000**
Open Moderate Stipulations	27,000	241,000	1,437,000	**1,760,000**
Open Standard Stipulations	5,000	140,000	1,690,000	**1,896,000**
Total	**1,818,000**	**459,000**	**6,588,000**	**8,987,000**

Approximate % of Habitat Management Area by Fluid Mineral (Oil & Gas) Decision in HAF 4			
Fluid Mineral (Oil & Gas) Decisions	**Alternative 1**		
	PHMA	**GHMA**	**Non-HMA**
Closed	3.78%	2.00%	94.22%
Open Major Stipulations	44.52%	0.68%	54.80%
Open Moderate Stipulations	0.00%	10.54%	89.46%
Open Standard Stipulations	0.00%	5.63%	94.37%
Total	**20.27%**	**3.84%**	**75.89%**
Fluid Mineral (Oil & Gas) Decisions	**Alternative 2**		
	PHMA	**GHMA**	**Non-HMA**
Closed	3.78%	0.00%	96.22%
Open Major Stipulations	44.51%	0.00%	55.49%
Open Moderate Stipulations	0.00%	0.00%	99.94%
Open Standard Stipulations	0.00%	0.00%	100.00%
Total	**20.26%**	**0.00%**	**79.74%**
Fluid Mineral (Oil & Gas) Decisions	**Alternative 3**		
	PHMA	**GHMA**	**Non-HMA**
Closed	61.72%	0.00%	37.89%
Open Major Stipulations	32.26%	0.00%	69.01%
Open Moderate Stipulations	9.07%	0.00%	91.00%
Open Standard Stipulations	3.75%	0.00%	96.31%
Total	**34.25%**	**0.00%**	**65.53%**
Fluid Mineral (Oil & Gas) Decisions	**Alternative 4**		
	PHMA	**GHMA**	**Non-HMA**
Closed	4.85%	4.49%	90.58%
Open Major Stipulations	45.16%	7.07%	47.75%
Open Moderate Stipulations	0.12%	23.42%	75.71%
Open Standard Stipulations	0.21%	15.65%	84.14%
Total	**20.86%**	**11.60%**	**67.37%**
Fluid Mineral (Oil & Gas) Decisions	**Alternative 5**		
	PHMA	**GHMA**	**Non-HMA**
Closed	2.85%	0.07%	96.58%
Open Major Stipulations	34.31%	2.78%	62.32%
Open Moderate Stipulations	0.00%	3.70%	95.54%
Open Standard Stipulations	0.18%	13.58%	86.20%
Total	**13.91%**	**5.21%**	**80.42%**

Approximate % of Habitat Management Area by Fluid Mineral (Oil & Gas) Decision in HAF 4			
Fluid Mineral (Oil & Gas) Decisions	**Alternative 6**		
	PHMA	**GHMA**	**Non-HMA**
Closed	3.28%	0.07%	96.58%
Open Major Stipulations	34.90%	2.78%	62.32%
Open Moderate Stipulations	0.75%	3.70%	95.54%
Open Standard Stipulations	0.22%	13.58%	86.20%
Total	**14.37%**	**5.21%**	**80.42%**
Fluid Mineral (Oil & Gas) Decisions	**Proposed RMP Amendment**		
	PHMA	**GHMA**	**Non-HMA**
Closed	4.85%	2.21%	92.94%
Open Major Stipulations	43.73%	1.22%	54.95%
Open Moderate Stipulations	1.53%	13.69%	81.65%
Open Standard Stipulations	0.26%	7.38%	89.14%
Total	**20.23%**	**5.11%**	**73.31%**

14.4.5 HAF Group 5

I. Habitat Management

Table 14-13. Habitat Management Areas within HAF 5

Acres and percentages reflect all lands. Percentages may not total to 100% due to rounding. All figures and tables are intended for Habitat Assessment Framework summary purposes only.

Approximate Acres of HMA in HAF 5				
Alternative 1				
PHMA	**GHMA**	**OHMA**	**Non-HMA**	**Total**
4,578,000	5,031,000	4,360,000	21,225,000	**35,193,000**
Alternative 2				
PHMA	**GHMA**	**OHMA**	**Non-HMA**	**Total**
4,242,000	4,207,000	4,056,000	22,688,000	**35,193,000**
Alternative 3				
PHMA	**GHMA**	**OHMA**	**Non-HMA**	**Total**
13,423,000	0	0	21,789,000	**35,212,000**
Alternative 4				
PHMA	**GHMA**	**OHMA**	**Non-HMA**	**Total**
5,729,000	3,324,000	4,355,000	21,804,000	**35,212,000**
Alternative 5				
PHMA	**GHMA**	**OHMA**	**Non-HMA**	**Total**
5,684,000	2,785,000	3,679,000	23,052,000	**35,200,000**
Alternative 6				
PHMA	**GHMA**	**OHMA**	**Non-HMA**	**Total**
5,684,000	2,785,000	3,679,000	23,052,000	**35,200,000**
Proposed RMP Amendment				
PHMA	**GHMA**	**OHMA**	**Non-HMA**	**Total**
5,083,000	2,763,000	3,670,000	22,887,000	**34,546,000**

Approximate Percent of HAF 5 that is HMA			
Alternative 1			
PHMA	**GHMA**	**OHMA**	**Non-HMA**
13.01%	14.30%	12.39%	60.31%
Alternative 2			
PHMA	**GHMA**	**OHMA**	**Non-HMA**
12.05%	11.95%	11.53%	64.47%
Alternative 3			
PHMA	**GHMA**	**OHMA**	**Non-HMA**
38.12%	0.00%	0.00%	61.88%
Alternative 4			
PHMA	**GHMA**	**OHMA**	**Non-HMA**
16.27%	9.44%	12.67%	62.21%
Alternative 5			
PHMA	**GHMA**	**OHMA**	**Non-HMA**
16.15%	7.92%	10.45%	65.49%
Alternative 6			
PHMA	**GHMA**	**OHMA**	**Non-HMA**
16.15%	7.92%	10.45%	65.49%
Proposed RMP Amendment			
PHMA	**GHMA**	**OHMA**	**On-HMA**
14.71%	7.80%	10.62%	66.25%

II. Locatable Minerals

Table 14-14. Locatable Minerals Decisions within HAF 5

Acres and percentages reflect BLM managed lands. Percentages may not total to 100% due to rounding. All figures and tables are intended for Habitat Assessment Framework summary purposes only. The acres for the locatable minerals represent a combination of existing allocations in existing Resource Management Plans (RMPs) and allocations identified under the alternatives in this RMP Amendment. For example, for locatable minerals, proposed mineral withdrawals are only proposed and considered for GRSG conservation under Alternative 1 and Alternative 3 in this RMP Amendment. All the other existing and proposed withdrawal acreage that is identified under other alternatives represent proposed or existing withdrawals that are either being proposed in other RMP efforts or existing withdrawals that are already in place. The information is provided for context and to facilitate the analysis of effects.

Approximate Acres of Locatable Minerals Decisions in HAF 5 by Habitat Management Area Type					
Locatable Minerals	**Alternative 1**				
	PHMA	**GHMA**	**OHMA**	**Non-HMA**	**Total**
Existing Withdrawals	70,000	248,000	115,000	1,283,000	**1,716,000**
Recommended Withdrawals	0	0	0	0	**0**
Open	3,948,000	4,160,000	3,726,000	16,785,000	**28,618,000**
Total	**4,019,000**	**4,407,000**	**3,841,000**	**18,068,000**	**30,335,000**
Locatable Minerals	**Alternative 2**				
	PHMA	**GHMA**	**OHMA**	**Non-HMA**	**Total**
Existing Withdrawals	16,000	100,000	42,000	1,283,000	**1,441,000**
Recommended Withdrawals	0	0	0	0	**0**
Open	3,666,000	3,485,000	3,495,000	16,795,000	**27,441,000**
Total	**3,683,000**	**3,585,000**	**3,537,000**	**18,078,000**	**28,882,000**

Approximate Acres of Locatable Minerals Decisions in HAF 5 by Habitat Management Area Type					
Locatable Minerals	**Alternative 3**				
	PHMA	**GHMA**	**OHMA**	**Non-HMA**	**Total**
Existing Withdrawals	523,000	0	0	1,193,000	**1,716,000**
Recommended Withdrawals	9,983,000	0	0	0	**9,997,000**
Open	1,248,000	0	0	17,405,000	**18,653,000**
Total	**11,755,000**	**0**	**0**	**18,598,000**	**30,366,000**
Locatable Minerals	**Alternative 4**				
	PHMA	**GHMA**	**OHMA**	**Non-HMA**	**Total**
Existing Withdrawals	197,000	215,000	101,000	1,193,000	**1,706,000**
Recommended Withdrawals	0	0	0	0	**0**
Open	4,875,000	2,685,000	3,669,000	17,418,000	**28,647,000**
Total	**5,072,000**	**2,900,000**	**3,770,000**	**18,611,000**	**30,353,000**
Locatable Minerals	**Alternative 5**				
	PHMA	**GHMA**	**OHMA**	**Non-HMA**	**Total**
Existing Withdrawals	196,000	212,000	98,000	1,210,000	**1,716,000**
Recommended Withdrawals	0	0	0	0	**0**
Open	4,836,000	2,256,000	3,158,000	18,326,000	**28,576,000**
Total	**5,032,000**	**2,468,000**	**3,255,000**	**19,537,000**	**30,292,000**
Locatable Minerals	**Alternative 6**				
	PHMA	**GHMA**	**OHMA**	**Non-HMA**	**Total**
Existing Withdrawals	196,000	212,000	98,000	1,210,000	**1,716,000**
Recommended Withdrawals	0	0	0	0	**0**
Open	4,836,000	2,256,000	3,158,000	18,326,000	**28,576,000**
Total	**5,032,000**	**2,468,000**	**3,255,000**	**19,537,000**	**30,292,000**
Locatable Minerals	**Proposed RMP Amendment**				
	PHMA	**GHMA**	**OHMA**	**Non-HMA**	**Total**
Existing Withdrawals	196,000	214,000	98,000	1,209,000	**1,716,000**
Recommended Withdrawals	0	0	0	0	**0**
Open	4,889,000	2,231,000	3,149,000	18,189,000	**28,576,000**
Total	**5,085,000**	**2,444,000**	**3,246,000**	**19,398,000**	**30,292,000**

Approximate % of Habitat Management Area by Locatable Minerals Decisions[2] within Habitat in HAF 5				
Locatable Minerals	**Alternative 1**			
	PHMA	**GHMA**	**OHMA**	**Non-HMA**
Existing Withdrawals	4.08%	14.45%	6.70%	74.77%
Recommended Withdrawals	0.00%	0.00%	0.00%	0.00%
Open	13.80%	14.54%	13.02%	58.65%
Total	**13.25%**	**14.53%**	**12.66%**	**59.56%**
Locatable Minerals	**Alternative 2**			
	PHMA	**GHMA**	**OHMA**	**Non-HMA**
Existing Withdrawals	1.11%	6.94%	2.91%	89.04%
Recommended Withdrawals	0.00%	0.00%	0.00%	0.00%
Open	13.36%	12.70%	12.74%	61.20%
Total	**12.75%**	**12.41%**	**12.25%**	**62.59%**
Locatable Minerals	**Alternative 3**			
	PHMA	**GHMA**	**OHMA**	**Non-HMA**
Existing Withdrawals	30.48%	0.00%	0.00%	69.52%
Recommended Withdrawals	99.86%	0.00%	0.00%	0.00%
Open	6.69%	0.00%	0.00%	93.31%
Total	**38.71%**	**0.00%**	**0.00%**	**61.25%**

Approximate % of Habitat Management Area by Locatable Minerals Decisions[2] within Habitat in HAF 5				
Locatable Minerals	**Alternative 4**			
	PHMA	**GHMA**	**OHMA**	**Non-HMA**
Existing Withdrawals	11.55%	12.60%	5.92%	69.93%
Recommended Withdrawals	0.00%	0.00%	0.00%	0.00%
Open	17.02%	9.37%	12.81%	60.80%
Total	**16.71%**	**9.55%**	**12.42%**	**61.32%**
Locatable Minerals	**Alternative 5**			
	PHMA	**GHMA**	**OHMA**	**Non-HMA**
Existing Withdrawals	11.42%	12.35%	5.71%	70.51%
Recommended Withdrawals	0.00%	0.00%	0.00%	0.00%
Open	16.92%	7.89%	11.05%	64.13%
Total	**16.61%**	**8.15%**	**10.75%**	**64.50%**
Locatable Minerals	**Alternative 6**			
	PHMA	**GHMA**	**OHMA**	**Non-HMA**
Existing Withdrawals	11.42%	12.35%	5.71%	70.51%
Recommended Withdrawals	0.00%	0.00%	0.00%	0.00%
Open	16.92%	7.89%	11.05%	64.12%
Total	**16.61%**	**8.15%**	**10.74%**	**64.48%**
Locatable Minerals	**Proposed RMP Amendment**			
	PHMA	**GHMA**	**OHMA**	**Non-HMA**
Existing Withdrawals	11.42%	12.47%	5.71%	70.45%
Recommended Withdrawals	0.00%	0.00%	0.00%	0.00%
Open	17.11%	7.81%	11.02%	63.65%
Total	**16.79%**	**8.07%**	**10.72%**	**64.04%**

III. Fluid Minerals (Oil & Gas)

Table 14-15. Fluid Mineral (Oil & Gas) Decisions within HAF 5

Percentages reflect BLM managed lands. Percentages may not total to 100% due to rounding. All figures and tables are intended for Habitat Assessment Framework summary purposes only. These acres for fluid minerals represent a combination of existing allocations in existing Resource Management Plans (RMPs) and allocations identified under the alternatives in this RMP Amendment. The information is provided for context and to facilitate the analysis of effects. It is important to note that just because an area is open to leasing does not mean that it will be developed. Any development must be in conformance with the stipulations which may preclude development in some areas. The stipulation information has been considered in context with mineral potential, and drilling and economic trends to develop the Reasonably Foreseeable Development Scenario (see **Appendix 12**) which estimates the amount of development anticipated across all land ownership for each alternative.

Approximate Acres of Fluid Minerals (Oil & Gas) Decisions in HAF 5 by Habitat Management Area Type					
Fluid Mineral (Oil & Gas) Decisions	**Alternative 1**				
	PHMA	**GHMA**	**OHMA**	**Non-HMA**	**Total**
Closed	152,000	323,000	219,000	2,420,000	**3,115,000**
Open Major Stipulations	3,867,000	0	0	16,000	**3,883,000**
Open Moderate Stipulations	0	4,078,000	0	64,000	**4,141,000**
Open Standard Stipulations	0	7,000	3,622,000	15,493,000	**19,122,000**
Total	**4,019,000**	**4,408,000**	**3,842,000**	**17,993,000**	**30,262,000**

Approximate Acres of Fluid Minerals (Oil & Gas) Decisions in HAF 5 by Habitat Management Area Type					
Fluid Mineral (Oil & Gas) Decisions	**Alternative 2**				
	PHMA	**GHMA**	**OHMA**	**Non-HMA**	**Total**
Closed	98,000	175,000	147,000	2,420,000	**2,840,000**
Open Major Stipulations	3,585,000	0	0	16,000	**3,601,000**
Open Moderate Stipulations	0	3,410,000	0	67,000	**3,477,000**
Open Standard Stipulations	0	0	3,391,000	15,500,000	**18,891,000**
Total	**3,683,000**	**3,585,000**	**3,538,000**	**18,003,000**	**28,809,000**
Fluid Mineral (Oil & Gas) Decisions	**Alternative 3**				
	PHMA	**GHMA**	**OHMA**	**Non-HMA**	**Total**
Closed	11,088,000	0	0	2,259,000	**13,360,000**
Open Major Stipulations	238,000	0	0	23,000	**261,000**
Open Moderate Stipulations	407,000	0	0	160,000	**566,000**
Open Standard Stipulations	13,000	0	0	14,941,000	**14,954,000**
Total	**11,745,000**	**0**	**0**	**17,383,000**	**29,141,000**
Fluid Mineral (Oil & Gas) Decisions	**Alternative 4**				
	PHMA	**GHMA**	**OHMA**	**Non-HMA**	**Total**
Closed	285,000	333,000	239,000	2,259,000	**3,115,000**
Open Major Stipulations	4,422,000	13,000	12,000	23,000	**4,469,000**
Open Moderate Stipulations	136,000	2,151,000	26,000	163,000	**2,477,000**
Open Standard Stipulations	230,000	403,000	3,494,000	16,089,000	**20,228,000**
Total	**5,072,000**	**2,900,000**	**3,770,000**	**18,534,000**	**30,289,000**
Fluid Mineral (Oil & Gas) Decisions	**Alternative 5**				
	PHMA	**GHMA**	**OHMA**	**Non-HMA**	**Total**
Closed	282,000	269,000	174,000	2,390,000	**3,115,000**
Open Major Stipulations	4,388,000	12,000	12,000	24,000	**4,435,000**
Open Moderate Stipulations	136,000	1,982,000	26,000	210,000	**2,354,000**
Open Standard Stipulations	229,000	207,000	3,053,000	16,876,000	**20,365,000**
Total	**5,035,000**	**2,470,000**	**3,264,000**	**19,500,000**	**30,269,000**
Fluid Mineral (Oil & Gas) Decisions	**Alternative 6**				
	PHMA	**GHMA**	**OHMA**	**Non-HMA**	**Total**
Closed	282,000	269,000	174,000	2,390,000	**3,115,000**
Open Major Stipulations	4,388,000	12,000	12,000	24,000	**4,435,000**
Open Moderate Stipulations	136,000	1,982,000	26,000	210,000	**2,354,000**
Open Standard Stipulations	229,000	207,000	3,053,000	16,876,000	**20,365,000**
Total	**5,035,000**	**2,470,000**	**3,264,000**	**19,500,000**	**30,269,000**
Fluid Mineral (Oil & Gas) Decisions	**Proposed RMP Amendment**				
	PHMA	**GHMA**	**OHMA**	**Non-HMA**	**Total**
Closed	786,000	153,000	64,000	610,000	**1,613,000**
Open Major Stipulations	3,936,000	12,000	12,000	23,000	**3,984,000**
Open Moderate Stipulations	0	1,816,000	0	35,000	**1,877,000**
Open Standard Stipulations	229,000	222,000	3,154,000	16,768,000	**20,464,000**
Total	**4,951,000**	**2,202,000**	**3,230,00**	**17,436,000**	**27,937,000**

Approximate % of Habitat Management Area by Fluid Mineral (Oil & Gas) Decision in HAF 5				
Fluid Mineral (Oil & Gas) Decisions	**Alternative 1**			
	PHMA	**GHMA**	**OHMA**	**Non-HMA**
Closed	4.88%	10.37%	7.03%	77.69%
Open Major Stipulations	99.59%	0.00%	0.00%	0.41%
Open Moderate Stipulations	0.00%	98.48%	0.00%	1.55%
Open Standard Stipulations	0.00%	0.04%	18.94%	81.02%
Total	**13.28%**	**14.57%**	**12.70%**	**59.46%**

Approximate % of Habitat Management Area by Fluid Mineral (Oil & Gas) Decision in HAF 5				
Fluid Mineral (Oil & Gas) Decisions	**Alternative 2**			
	PHMA	**GHMA**	**OHMA**	**Non-HMA**
Closed	3.45%	6.16%	5.18%	85.21%
Open NSO	99.56%	0.00%	0.00%	0.44%
Open CSU/TL	0.00%	98.07%	0.00%	1.93%
Open Standard Stipulations	0.00%	0.00%	17.95%	82.05%
Total	**12.78%**	**12.44%**	**12.28%**	**62.49%**
Fluid Mineral (Oil & Gas) Decisions	**Alternative 3**			
	PHMA	**GHMA**	**OHMA**	**Non-HMA**
Closed	82.99%	0.00%	0.00%	16.91%
Open Major Stipulations	91.19%	0.00%	0.00%	8.81%
Open Moderate Stipulations	71.91%	0.00%	0.00%	28.27%
Open Standard Stipulations	0.09%	0.00%	0.00%	99.91%
Total	**40.30%**	**0.00%**	**0.00%**	**59.65%**
Fluid Mineral (Oil & Gas) Decisions	**Alternative 4**			
	PHMA	**GHMA**	**OHMA**	**Non-HMA**
Closed	9.15%	10.69%	7.67%	72.52%
Open Major Stipulations	98.95%	0.29%	0.27%	0.51%
Open Moderate Stipulations	5.49%	86.84%	1.05%	6.58%
Open Standard Stipulations	1.14%	1.99%	17.27%	79.54%
Total	**16.75%**	**9.57%**	**12.45%**	**61.19%**
Fluid Mineral (Oil & Gas) Decisions	**Alternative 5**			
	PHMA	**GHMA**	**OHMA**	**Non-HMA**
Closed	9.05%	8.64%	5.59%	76.73%
Open Major Stipulations	98.94%	0.27%	0.27%	0.54%
Open Moderate Stipulations	5.77%	84.20%	1.10%	8.92%
Open Standard Stipulations	1.12%	1.02%	14.99%	82.88%
Total	**16.63%**	**8.16%**	**10.78%**	**64.42%**
Fluid Mineral (Oil & Gas) Decisions	**Alternative 6**			
	PHMA	**GHMA**	**OHMA**	**Non-HMA**
Closed	9.05%	8.64%	5.59%	76.73%
Open Major Stipulations	98.94%	0.27%	0.27%	0.54%
Open Moderate Stipulations	5.80%	84.20%	1.11%	8.96%
Open Standard Stipulations	1.12%	1.02%	14.99%	82.87%
Total	**16.63%**	**8.16%**	**10.78%**	**64.42%**
Fluid Mineral (Oil & Gas) Decisions	**Proposed RMP Amendment**			
	PHMA	**GHMA**	**OHMA**	**Non-HMA**
Closed	48.73%	9.49%	3.97%	37.82%
Open Major Stipulations	98.80%	0.30%	0.30%	0.58%
Open Moderate Stipulations	0.00%	96.75%	0.00%	1.86%
Open Standard Stipulations	1.12%	1.08%	15.41%	81.94%
Total	**17.72%**	**7.88%**	**11.56%**	**62.40%**

14.4.6 HAF Group 6

I. Habitat Management

Table 14-16. Habitat Management Areas within HAF 6

Acres and percentages reflect all lands. Percentages may not total to 100% due to rounding. All figures and tables are intended for Habitat Assessment Framework summary purposes only.

Approximate Acres of HMA in HAF 6					
Alternative 1					
PHMA	**GHMA**	**IHMA**	**OHMA**	**Non-HMA**	**Total**
13,224,000	8,704,000	1,793,000	1,404,000	16,456,000	**41,581,000**
Alternative 2					
PHMA	**GHMA**	**IHMA**	**OHMA**	**Non-HMA**	**Total**
12,605,000	8,420,000	1,863,000	1,282,000	17,411,000	**41,581,000**
Alternative 3					
PHMA	**GHMA**	**IHMA**	**OHMA**	**Non-HMA**	**Total**
24,571,000	0	0	0	17,014,000	**41,585,000**
Alternative 4					
PHMA	**GHMA**	**IHMA**	**OHMA**	**Non-HMA**	**Total**
13,937,000	7,294,000	1,781,000	1,560,000	17,014,000	**41,585,000**
Alternative 5					
PHMA	**GHMA**	**IHMA**	**OHMA**	**Non-HMA**	**Total**
13,652,000	7,021,000	1,609,000	1,270,000	18,022,000	**41,574,000**
Alternative 6					
PHMA	**GHMA**	**IHMA**	**OHMA**	**Non-HMA**	**Total**
13,652,000	7,021,000	1,609,000	1,270,000	18,022,000	**41,574,000**
Proposed RMP Amendment					
PHMA	**GHMA**	**IHMA**	**OHMA**	**Non-HMA**	**Total**
11,772,000	6,961,000	1,609,000	1,259,000	18,022,000	**39,624,000**

Approximate Percent of HAF 6 that is HMA				
Alternative 1				
PHMA	**GHMA**	**IHMA**	**OHMA**	**Non-HMA**
31.80%	20.93%	4.31%	3.38%	39.58%
Alternative 2				
PHMA	**GHMA**	**IHMA**	**OHMA**	**Non-HMA**
30.31%	20.25%	4.48%	3.08%	41.87%
Alternative 3				
PHMA	**GHMA**	**IHMA**	**OHMA**	**Non-HMA**
59.09%	0.00%	0.00%	0.00%	40.91%
Alternative 4				
PHMA	**GHMA**	**IHMA**	**OHMA**	**Non-HMA**
33.51%	17.54%	4.29%	3.75%	40.91%
Alternative 5				
PHMA	**GHMA**	**IHMA**	**OHMA**	**Non-HMA**
32.84%	16.89%	3.87%	3.05%	43.35%
Alternative 6				
PHMA	**GHMA**	**IHMA**	**OHMA**	**Non-HMA**
32.84%	16.89%	3.87%	3.05%	43.35%
Proposed RMP Amendment				
PHMA	**GHMA**	**IHMA**	**OHMA**	**Non-HMA**
29.71%	17.57%	4.06%	3.18%	45.48%

II. Locatable Minerals

Table 14-17. Locatable Minerals Decisions within HAF 6

Acres and percentages reflect BLM managed lands. Percentages may not total to 100% due to rounding. All figures and tables are intended for Habitat Assessment Framework summary purposes only. The acres for the locatable minerals represent a combination of existing allocations in existing Resource Management Plans (RMPs) and allocations identified under the alternatives in this RMP Amendment. For example, for locatable minerals, proposed mineral withdrawals are only proposed and considered for GRSG conservation under Alternative 1 and Alternative 3 in this RMP Amendment. All the other existing and proposed withdrawal acreage that is identified under other alternatives represent proposed or existing withdrawals that are either being proposed in other RMP efforts or existing withdrawals that are already in place. The information is provided for context and to facilitate the analysis of effects.

Approximate Acres of Locatable Minerals Decisions in HAF 6 by Habitat Management Area Type						
Locatable Minerals	**Alternative 1**					
	PHMA	**GHMA**	**IHMA**	**OHMA**	**Non-HMA**	**Total**
Existing Withdrawals	620,000	620,000	127,000	21,000	1,052,000	**2,440,000**
Recommended Withdrawals	3,541,000	357,000	0	184,000	90,000	**4,172,000**
Open	5,727,000	4,907,000	1,359,000	780,000	5,593,000	**18,367,000**
Total	**9,888,000**	**5,884,000**	**1,486,000**	**985,000**	**6,735,000**	**24,978,000**
Locatable Minerals	**Alternative 2**					
	PHMA	**GHMA**	**IHMA**	**OHMA**	**Non-HMA**	**Total**
Existing Withdrawals	561,000	564,000	127,000	0	1,052,000	**2,304,000**
Recommended Withdrawals	1,487,000	0	0	0	0	**1,488,000**
Open	8,647,000	5,036,000	1,424,000	863,000	5,686,000	**21,656,000**
Total	**10,696,000**	**5,601,000**	**1,551,000**	**863,000**	**6,738,000**	**25,448,000**
Locatable Minerals	**Alternative 3**					
	PHMA	**GHMA**	**IHMA**	**OHMA**	**Non-HMA**	**Total**
Existing Withdrawals	1,323,000	0	0	0	1,082,000	**2,405,000**
Recommended Withdrawals	15,659,000	0	0	0	71,000	**15,731,000**
Open	1,289,000	0	0	0	6,292,000	**7,581,000**
Total	**18,271,000**	**0**	**0**	**0**	**7,445,000**	**25,717,000**
Locatable Minerals	**Alternative 4**					
	PHMA	**GHMA**	**IHMA**	**OHMA**	**Non-HMA**	**Total**
Existing Withdrawals	661,000	516,000	125,000	21,000	1,082,000	**2,405,000**
Recommended Withdrawals	422,000	54,000	0	33,000	51,000	**559,000**
Open	9,298,000	4,216,000	1,337,000	901,000	6,293,000	**22,045,000**
Total	**10,380,000**	**4,786,000**	**1,462,000**	**955,000**	**7,425,000**	**25,009,000**
Locatable Minerals	**Alternative 5**					
	PHMA	**GHMA**	**IHMA**	**OHMA**	**Non-HMA**	**Total**
Existing Withdrawals	660,000	428,000	96,000	21,000	1,195,000	**2,400,000**
Recommended Withdrawals	401,000	69,000	7,000	33,000	51,000	**560,000**
Open	9,135,000	4,207,000	1,231,000	757,000	6,716,000	**22,046,000**
Total	**10,196,000**	**4,704,000**	**1,334,000**	**810,000**	**7,962,000**	**25,006,000**
Locatable Minerals	**Alternative 6**					
	PHMA	**GHMA**	**IHMA**	**OHMA**	**Non-HMA**	**Total**
Existing Withdrawals	660,000	428,000	96,000	21,000	1,195,000	**2,400,000**
Recommended Withdrawals	401,000	69,000	7,000	33,000	50,000	**560,000**
Open	9,135,000	4,207,000	1,231,000	757,000	6,716,000	**22,046,000**
Total	**10,196,000**	**4,704,000**	**1,334,000**	**810,000**	**7,962,000**	**25,006,000**

Approximate Acres of Locatable Minerals Decisions in HAF 6 by Habitat Management Area Type						
Locatable Minerals	**Proposed RMP Amendment**					
	PHMA	**GHMA**	**IHMA**	**OHMA**	**Non-HMA**	**Total**
Existing Withdrawals	660,000	428,000	96,000	21,000	1,195,000	**2,400,000**
Recommended Withdrawals	401,000	69,000	7,000	33,000	51,000	**560,000**
Open	9,201,000	4,150,000	1,231,000	747,000	6,716,000	**22,046,000**
Total	**10,262,000**	**4,647,000**	**1,334,000**	**801,000**	**7,962,000**	**25,006,000**

Approximate % of Habitat Management Area by Locatable Minerals Decisions[2] within Habitat in HAF 6					
Locatable Minerals	**Alternative 1**				
	PHMA	**GHMA**	**IHMA**	**OHMA**	**Non-HMA**
Existing Withdrawals	25.41%	25.41%	5.20%	0.86%	43.11%
Recommended Withdrawals	84.88%	8.56%	0.00%	4.41%	2.16%
Open	31.18%	26.72%	7.40%	4.25%	30.45%
Total	**39.59%**	**23.56%**	**5.95%**	**3.94%**	**26.96%**
Locatable Minerals	**Alternative 2**				
	PHMA	**GHMA**	**IHMA**	**OHMA**	**Non-HMA**
Existing Withdrawals	24.35%	24.48%	5.51%	0.00%	45.66%
Recommended Withdrawals	99.93%	0.00%	0.00%	0.00%	0.00%
Open	39.93%	23.25%	6.58%	3.99%	26.26%
Total	**42.03%**	**22.01%**	**6.09%**	**3.39%**	**26.48%**
Locatable Minerals	**Alternative 3**				
	PHMA	**GHMA**	**IHMA**	**OHMA**	**Non-HMA**
Existing Withdrawals	55.01%	0.00%	0.00%	0.00%	44.99%
Recommended Withdrawals	99.54%	0.00%	0.00%	0.00%	0.45%
Open	17.00%	0.00%	0.00%	0.00%	83.00%
Total	**71.05%**	**0.00%**	**0.00%**	**0.00%**	**28.95%**
Locatable Minerals	**Alternative 4**				
	PHMA	**GHMA**	**IHMA**	**OHMA**	**Non-HMA**
Existing Withdrawals	27.48%	21.46%	5.20%	0.87%	44.99%
Recommended Withdrawals	75.49%	9.66%	0.00%	5.90%	9.12%
Open	42.18%	19.12%	6.06%	4.09%	28.54%
Total	**41.51%**	**19.14%**	**5.85%**	**3.82%**	**28.97%**
Locatable Minerals	**Alternative 5**				
	PHMA	**GHMA**	**IHMA**	**OHMA**	**Non-HMA**
Existing Withdrawals	27.50%	17.83%	4.00%	0.88%	49.79%
Recommended Withdrawals	71.61%	12.32%	1.25%	5.89%	9.11%
Open	41.44%	19.08%	5.58%	3.43%	30.46%
Total	**40.77%**	**18.81%**	**5.33%**	**3.24%**	**31.84%**
Locatable Minerals	**Alternative 6**				
	PHMA	**GHMA**	**IHMA**	**OHMA**	**Non-HMA**
Existing Withdrawals	27.50%	17.83%	4.00%	0.88%	49.79%
Recommended Withdrawals	71.61%	12.32%	1.25%	5.89%	9.11%
Open	41.44%	19.08%	5.58%	3.43%	30.46%
Total	**40.77%**	**18.81%**	**5.33%**	**3.24%**	**31.84%**
Locatable Minerals	**Proposed RMP Amendment**				
	PHMA	**GHMA**	**IHMA**	**OHMA**	**Non-HMA**
Existing Withdrawals	27.50%	17.83%	4.00%	0.88%	49.79%
Recommended Withdrawals	71.61%	12.32%	1.25%	5.89%	9.11%
Open	41.74%	18.82%	5.58%	3.39%	30.46%
Total	**41.04%**	**18.58%**	**5.33%**	**3.20%**	**31.84%**

III. Fluid Minerals (Oil & Gas)

Table 14-18. Fluid Mineral (Oil & Gas) Decisions within HAF 6

Percentages reflect BLM managed lands. Percentages may not total to 100% due to rounding. All figures and tables are intended for Habitat Assessment Framework summary purposes only. These acres for fluid minerals represent a combination of existing allocations in existing Resource Management Plans (RMPs) and allocations identified under the alternatives in this RMP Amendment. The information is provided for context and to facilitate the analysis of effects. It is important to note that just because an area is open to leasing does not mean that it will be developed. Any development must be in conformance with the stipulations which may preclude development in some areas. The stipulation information has been considered in context with mineral potential, and drilling and economic trends to develop the Reasonably Foreseeable Development Scenario (see **Appendix 12**) which estimates the amount of development anticipated across all land ownership for each alternative.

Approximate Acres of Fluid Minerals (Oil & Gas) Decisions in HAF 6 by Habitat Management Area Type						
Fluid Mineral (Oil & Gas) Decisions	**Alternative 1**					
	PHMA	**GHMA**	**IHMA**	**OHMA**	**Non-HMA**	**Total**
Closed	1,324,000	1,336,000	247,000	42,000	1,584,000	**4,532,000**
Open Major Stipulations	8,569,000	200,000	1,201,000	0	349,000	**10,319,000**
Open Moderate Stipulations	0	4,256,000	0	0	669,000	**4,925,000**
Open Standard Stipulations	0	3,000	0	944,000	4,311,000	**5,258,000**
Total	**9,893,000**	**5,794,000**	**1,447,000**	**985,000**	**6,913,000**	**25,033,000**
Fluid Mineral (Oil & Gas) Decisions	**Alternative 2**					
	PHMA	**GHMA**	**IHMA**	**OHMA**	**Non-HMA**	**Total**
Closed	1,265,000	1,280,000	247,000	21,000	1,584,000	**4,396,000**
Open Major Stipulations	8,013,000	202,000	1,265,000	0	349,000	**9,829,000**
Open Moderate Stipulations	0	4,027,000	0	0	672,000	**4,699,000**
Open Standard Stipulations	0	3,000	0	842,000	4,311,000	**5,156,000**
Total	**9,278,000**	**5,511,000**	**1,512,000**	**863,000**	**6,916,000**	**24,080,000**
Fluid Mineral (Oil & Gas) Decisions	**Alternative 3**					
	PHMA	**GHMA**	**IHMA**	**OHMA**	**Non-HMA**	**Total**
Closed	17,378,000	0	0	0	1,505,000	**18,884,000**
Open Major Stipulations	824,000	0	0	0	407,000	**1,231,000**
Open Moderate Stipulations	194,000	0	0	0	707,000	**901,000**
Open Standard Stipulations	463,000	0	0	0	4,730,000	**5,193,000**
Total	**18,858,000**	**0**	**0**	**0**	**7,350,000**	**26,209,000**
Fluid Mineral (Oil & Gas) Decisions	**Alternative 4**					
	PHMA	**GHMA**	**IHMA**	**OHMA**	**Non-HMA**	**Total**
Closed	1,400,000	1,252,000	265,000	42,000	1,572,000	**4,532,000**
Open Major Stipulations	8,771,000	211,000	1,044,000	33,000	408,000	**10,467,000**
Open Moderate Stipulations	45,000	4,229,000	2,000	20,000	707,000	**5,003,000**
Open Standard Stipulations	172,000	111,000	73,000	859,000	4,858,000	**6,074,000**
Total	**10,389,000**	**2,900,000**	**1,383,000**	**955,000**	**7,546,000**	**26,076,000**
Fluid Mineral (Oil & Gas) Decisions	**Alternative 5**					
	PHMA	**GHMA**	**IHMA**	**OHMA**	**Non-HMA**	**Total**
Closed	1,392,000	1,101,000	251,000	42,000	1,746,000	**4,532,000**
Open Major Stipulations	8,586,000	291,000	987,000	33,000	412,000	**10,310,000**
Open Moderate Stipulations	45,000	2,939,000	10,000	20,000	890,000	**3,904,000**
Open Standard Stipulations	23,000	1,436,000	1,000	715,000	5,069,000	**7,244,000**
Total	**10,046,000**	**5,767,000**	**1,249,000**	**811,000**	**8,117,000**	**25,990,000**

Approximate Acres of Fluid Minerals (Oil & Gas) Decisions in HAF 6 by Habitat Management Area Type						
Fluid Mineral (Oil & Gas) Decisions	**Alternative 6**					
	PHMA	**GHMA**	**IHMA**	**OHMA**	**Non-HMA**	**Total**
Closed	1,392,000	1,101,000	251,000	42,000	1,746,000	**4,532,000**
Open Major Stipulations	8,586,000	291,000	987,000	33,000	412,000	**10,310,000**
Open Moderate Stipulations	44,000	2,939,000	10,000	20,000	890,000	**3,904,000**
Open Standard Stipulations	23,000	1,436,000	1,000	715,000	5,069,000	**7,244,000**
Total	**10,046,000**	**5,767,000**	**1,249,000**	**811,000**	**8,117,000**	**25,990,000**
Fluid Mineral (Oil & Gas) Decisions	**Proposed RMP Amendment**					
	PHMA	**GHMA**	**IHMA**	**OHMA**	**Non-HMA**	**Total**
Closed	2,751,000	1,088,000	251,000	21,000	1,596,000	**5,707,000**
Open Major Stipulations	7,292,000	291,000	987,000	33,000	412,000	**9,015,000**
Open Moderate Stipulations	0	4,206,000	10,000	0	857,000	**5,074,000**
Open Standard Stipulations	23,000	94,000	1,000	726,000	5,069,000	**5,914,000**
Total	**10,066,000**	**5,680,000**	**1,249,000**	**781,000**	**7,935,000**	**25,710,000**

Approximate % of Habitat Management Area by Fluid Mineral (Oil & Gas) Decision in HAF 6					
Fluid Mineral (Oil & Gas) Decisions	**Alternative 1**				
	PHMA	**GHMA**	**IHMA**	**OHMA**	**Non-HMA**
Closed	29.21%	29.48%	5.45%	0.93%	34.95%
Open Major Stipulations	83.04%	1.94%	11.64%	0.00%	3.38%
Open Moderate Stipulations	0.00%	86.42%	0.00%	0.00%	13.58%
Open Standard Stipulations	0.00%	0.06%	0.00%	17.95%	81.99%
Total	**39.52%**	**23.15%**	**5.78%**	**3.93%**	**27.62%**
Fluid Mineral (Oil & Gas) Decisions	**Alternative 2**				
	PHMA	**GHMA**	**IHMA**	**OHMA**	**Non-HMA**
Closed	28.78%	29.12%	5.62%	0.48%	36.03%
Open NSO	81.52%	2.06%	12.87%	0.00%	3.55%
Open CSU/TL	0.00%	85.70%	0.00%	0.00%	14.30%
Open Standard Stipulations	0.00%	0.06%	0.00%	16.33%	83.61%
Total	**38.53%**	**22.89%**	**6.28%**	**3.58%**	**28.72%**
Fluid Mineral (Oil & Gas) Decisions	**Alternative 3**				
	PHMA	**GHMA**	**IHMA**	**OHMA**	**Non-HMA**
Closed	92.02%	0.00%	0.00%	0.00%	7.97%
Open Major Stipulations	66.94%	0.00%	0.00%	0.00%	33.06%
Open Moderate Stipulations	21.53%	0.00%	0.00%	0.00%	78.47%
Open Standard Stipulations	8.92%	0.00%	0.00%	0.00%	91.08%
Total	**71.95%**	**0.00%**	**0.00%**	**0.00%**	**28.04%**
Fluid Mineral (Oil & Gas) Decisions	**Alternative 4**				
	PHMA	**GHMA**	**IHMA**	**OHMA**	**Non-HMA**
Closed	30.89%	27.63%	5.85%	0.93%	34.69%
Open NSO	83.80%	2.02%	9.97%	0.32%	3.90%
Open CSU/TL	0.90%	84.53%	0.04%	0.40%	14.13%
Open Standard Stipulations	2.83%	1.83%	1.20%	14.14%	79.98%
Total	**39.84%**	**11.12%**	**5.30%**	**3.66%**	**28.94%**
Fluid Mineral (Oil & Gas) Decisions	**Alternative 5**				
	PHMA	**GHMA**	**IHMA**	**OHMA**	**Non-HMA**
Closed	30.71%	24.29%	5.54%	0.93%	38.53%
Open NSO	83.28%	2.82%	9.57%	0.32%	4.00%
Open CSU/TL	1.15%	75.28%	0.26%	0.51%	22.80%
Open Standard Stipulations	0.32%	19.82%	0.01%	9.87%	69.98%
Total	**38.65%**	**22.19%**	**4.81%**	**3.12%**	**31.23%**

Approximate % of Habitat Management Area by Fluid Mineral (Oil & Gas) Decision in HAF 6					
Fluid Mineral (Oil & Gas) Decisions	**Alternative 6**				
	PHMA	**GHMA**	**IHMA**	**OHMA**	**Non-HMA**
Closed	30.71%	24.29%	5.54%	0.93%	38.53%
Open NSO	83.28%	2.82%	9.57%	0.32%	4.00%
Open CSU/TL	1.13%	75.28%	0.26%	0.51%	22.80%
Open Standard Stipulations	0.32%	19.82%	0.01%	9.87%	69.98%
Total	**38.65%**	**22.19%**	**4.81%**	**3.12%**	**31.23%**
Fluid Mineral (Oil & Gas) Decisions	**Proposed RMP Amendment**				
	PHMA	**GHMA**	**IHMA**	**OHMA**	**Non-HMA**
Closed	48.20%	19.06%	4.40%	0.37%	27.97%
Open Major Stipulations	80.89%	3.23%	10.95%	0.37%	4.57%
Open Moderate Stipulations	0.00%	82.89%	0.20%	0.00%	16.89%
Open Standard Stipulations	0.39%	1.59%	0.02%	12.28%	85.71%
Total	**39.15%**	**22.09%**	**4.86%**	**3.04%**	**30.86%**

14.4.7 HAF Group 7

I. Habitat Management

Table 14-19. Habitat Management Areas within HAF 7

Acres and percentages reflect all lands. Percentages may not total to 100% due to rounding. All figures and tables are intended for Habitat Assessment Framework summary purposes only.

Approximate Acres of HMA in HAF 7					
Alternative 1					
PHMA	**GHMA**	**IHMA**	**OHMA**	**Non-HMA**	**Total**
4,485,000	3,270,000	2,656,000	0	7,580,000	**17,991,000**
Alternative 2					
PHMA	**GHMA**	**IHMA**	**OHMA**	**Non-HMA**	**Total**
4,473,000	3,270,000	2,656,000	0	7,592,000	**17,991,000**
Alternative 3					
PHMA	**GHMA**	**IHMA**	**OHMA**	**Non-HMA**	**Total**
9,696,000	0	0	0	8,297,000	**17,994,000**
Alternative 4					
PHMA	**GHMA**	**IHMA**	**OHMA**	**Non-HMA**	**Total**
4,995,000	2,248,000	2,453,000	0	8,298,000	**17,994,000**
Alternative 5					
PHMA	**GHMA**	**IHMA**	**OHMA**	**Non-HMA**	**Total**
4,975,000	2,103,000	2,595,000	0	8,321,000	**17,994,000**
Alternative 6					
PHMA	**GHMA**	**IHMA**	**OHMA**	**Non-HMA**	**Total**
4,975,000	2,103,000	2,595,000	0	8,321,000	**17,994,000**
Proposed RMP Amendment					
PHMA	**GHMA**	**IHMA**	**OHMA**	**Non-HMA**	**Total**
4,975,000	2,075,000	2,623,000	0	8,321,000	**17,994,000**

Approximate Percent of HAF 1 that is HMA				
Alternative 1				
PHMA	**GHMA**	**IHMA**	**OHMA**	**Non-HMA**
24.93%	18.18%	14.76%	0.00%	42.13%
Alternative 2				
PHMA	**GHMA**	**IHMA**	**OHMA**	**Non-HMA**
24.86%	18.18%	14.76%	0.00%	42.20%
Alternative 3				
PHMA	**GHMA**	**IHMA**	**OHMA**	**Non-HMA**
53.88%	0.00%	0.00%	0.00%	46.11%
Alternative 4				
PHMA	**GHMA**	**IHMA**	**OHMA**	**Non-HMA**
27.76%	12.49%	13.63%	0.00%	46.12%
Alternative 5				
PHMA	**GHMA**	**IHMA**	**OHMA**	**Non-HMA**
27.65%	11.69%	14.42%	0.00%	46.24%
Alternative 6				
PHMA	**GHMA**	**IHMA**	**OHMA**	**Non-HMA**
27.65%	11.69%	14.42%	0.00%	46.25%
Proposed RMP Amendment				
PHMA	**GHMA**	**IHMA**	**OHMA**	**Non-HMA**
27.65%	11.54%	14.58%	0.00%	46.24%

II. Locatable Minerals

Table 14-20. Locatable Minerals Decisions within HAF 7

Acres and percentages reflect BLM managed lands. Percentages may not total to 100% due to rounding. All figures and tables are intended for Habitat Assessment Framework summary purposes only. The acres for the locatable minerals represent a combination of existing allocations in existing Resource Management Plans (RMPs) and allocations identified under the alternatives in this RMP Amendment. For example, for locatable minerals, proposed mineral withdrawals are only proposed and considered for GRSG conservation under Alternative 1 and Alternative 3 in this RMP Amendment. All the other existing and proposed withdrawal acreage that is identified under other alternatives represent proposed or existing withdrawals that are either being proposed in other RMP efforts or existing withdrawals that are already in place. The information is provided for context and to facilitate the analysis of effects.

Approximate Acres of Locatable Minerals Decisions in HAF 7 by Habitat Management Area Type						
Locatable Minerals	**Alternative 1**					
	PHMA	**GHMA**	**IHMA**	**OHMA**	**Non-HMA**	**Total**
Existing Withdrawals	550,000	203,000	4,000	0	412,000	**1,484,000**
Recommended Withdrawals	1,472,000	0	0	0	0	**1,473,000**
Open	1,183,000	1,674,000	1,499,000	0	2,825,000	**7,204,000**
Total	**3,205,000**	**1,876,000**	**1,814,000**	**0**	**3,238,000**	**10,161,000**
Locatable Minerals	**Alternative 2**					
	PHMA	**GHMA**	**IHMA**	**OHMA**	**Non-HMA**	**Total**
Existing Withdrawals	550,000	203,000	315,000	0	412,000	**1,484,000**
Recommended Withdrawals	1,460,000	0	0	0	12,000	**1,473,000**
Open	2,643,000	1,674,000	1,499,000	0	2,838,000	**8,677,000**
Total	**4,653,000**	**1,876,000**	**1,814,000**	**0**	**3,262,000**	**11,634,000**

Approximate Acres of Locatable Minerals Decisions in HAF 7 by Habitat Management Area Type						
Locatable Minerals	**Alternative 3**					
	PHMA	**GHMA**	**IHMA**	**OHMA**	**Non-HMA**	**Total**
Existing Withdrawals	1,601,000	0	0	0	441,000	**1,480,000**
Recommended Withdrawals	5,380,000	0	0	0	5,000	**5,387,000**
Open	912,000	0	0	0	3,327,000	**4,262,000**
Total	**7,893,000**	**0**	**0**	**0**	**3,774,000**	**11,695,000**
Locatable Minerals	**Alternative 4**					
	PHMA	**GHMA**	**IHMA**	**OHMA**	**Non-HMA**	**Total**
Existing Withdrawals	554,000	157,000	328,000	0	441,000	**1,480,000**
Recommended Withdrawals	181,000	0	0	0	0	**181,000**
Open	2,575,000	1,242,000	1,321,000	0	3,325,000	**8,462,000**
Total	**3,310,000**	**1,399,000**	**1,648,000**	**0**	**3,766,000**	**10,123,000**
Locatable Minerals	**Alternative 5**					
	PHMA	**GHMA**	**IHMA**	**OHMA**	**Non-HMA**	**Total**
Existing Withdrawals	601,000	134,000	301,000	0	444,000	**1,480,000**
Recommended Withdrawals	169,000	6,000	5,000	0	5,000	**186,000**
Open	2,728,000	1,012,000	1,402,000	0	3,347,000	**8,489,000**
Total	**3,498,000**	**1,152,000**	**1,708,000**	**0**	**3,797,000**	**10,155,000**
Locatable Minerals	**Alternative 6**					
	PHMA	**GHMA**	**IHMA**	**OHMA**	**Non-HMA**	**Total**
Existing Withdrawals	601,000	134,000	301,000	0	444,000	**1,480,000**
Recommended Withdrawals	169,000	6,000	5,000	0	5,000	**186,000**
Open	2,728,000	1,012,000	1,402,000	0	3,347,000	**8,489,000**
Total	**3,498,000**	**1,152,000**	**1,708,000**	**0**	**3,797,000**	**10,155,000**
Locatable Minerals	**Proposed RMP Amendment**					
	PHMA	**GHMA**	**IHMA**	**OHMA**	**Non-HMA**	**Total**
Existing Withdrawals	601,000	124,000	311,000	0	444,000	**1,480,000**
Recommended Withdrawals	169,000	6,000	5,000	0	5,000	**186,000**
Open	2,728,000	999,000	1,415,000	0	3,347,000	**8,489,000**
Total	**3,498,000**	**1,129,000**	**1,731,000**	**0**	**3,797,000**	**10,155,000**

Approximate % of Habitat Management Area by Locatable Minerals Decisions[2] within Habitat in HAF 7					
Locatable Minerals	**Alternative 1**				
	PHMA	**GHMA**	**IHMA**	**OHMA**	**Non-HMA**
Existing Withdrawals	37.06%	13.68%	0.27%	0.00%	27.76%
Recommended Withdrawals	99.93%	0.00%	0.00%	0.00%	0.00%
Open	16.42%	23.24%	20.81%	0.00%	39.21%
Total	**31.54%**	**18.46%**	**17.85%**	**0.00%**	**31.87%**
Locatable Minerals	**Alternative 2**				
	PHMA	**GHMA**	**IHMA**	**OHMA**	**Non-HMA**
Existing Withdrawals	37.06%	13.68%	21.23%	0.00%	27.76%
Recommended Withdrawals	99.12%	0.00%	0.00%	0.00%	0.81%
Open	30.46%	19.29%	17.28%	0.00%	32.71%
Total	**39.99%**	**16.13%**	**15.59%**	**0.00%**	**28.04%**
Locatable Minerals	**Alternative 3**				
	PHMA	**GHMA**	**IHMA**	**OHMA**	**Non-HMA**
Existing Withdrawals	108.18%	0.00%	0.00%	0.00%	29.80%
Recommended Withdrawals	99.87%	0.00%	0.00%	0.00%	0.09%
Open	21.40%	0.00%	0.00%	0.00%	78.06%
Total	**67.49%**	**0.00%**	**0.00%**	**0.00%**	**32.27%**

Approximate % of Habitat Management Area by Locatable Minerals Decisions[2] within Habitat in HAF 7					
Locatable Minerals	**Alternative 4**				
	PHMA	**GHMA**	**IHMA**	**OHMA**	**Non-HMA**
Existing Withdrawals	37.43%	10.61%	22.16%	0.00%	29.80%
Recommended Withdrawals	100.00%	0.00%	0.00%	0.00%	0.00%
Open	30.43%	14.68%	15.61%	0.00%	39.29%
Total	**32.70%**	**13.82%**	**16.28%**	**0.00%**	**37.20%**
Locatable Minerals	**Alternative 5**				
	PHMA	**GHMA**	**IHMA**	**OHMA**	**Non-HMA**
Existing Withdrawals	40.61%	9.05%	20.34%	0.00%	30.00%
Recommended Withdrawals	90.86%	3.23%	2.69%	0.00%	2.69%
Open	32.14%	11.92%	16.52%	0.00%	39.43%
Total	**34.45%**	**11.34%**	**16.82%**	**0.00%**	**37.28%**
Locatable Minerals	**Alternative 6**				
	PHMA	**GHMA**	**IHMA**	**OHMA**	**Non-HMA**
Existing Withdrawals	40.61%	9.05%	20.34%	0.00%	30.00%
Recommended Withdrawals	90.86%	3.23%	2.69%	0.00%	2.69%
Open	32.14%	11.92%	16.52%	0.00%	39.43%
Total	**34.44%**	**11.34%**	**16.82%**	**0.00%**	**37.39%**
Locatable Minerals	**Proposed RMP Amendment**				
	PHMA	**GHMA**	**IHMA**	**OHMA**	**Non-HMA**
Existing Withdrawals	40.61%	8.38%	21.01%	0.00%	30.00%
Recommended Withdrawals	90.86%	3.23%	2.69%	0.00%	2.69%
Open	32.14%	11.77%	16.67%	0.00%	39.43%
Total	**34.44%**	**11.12%**	**17.05%**	**0.00%**	**37.39%**

III. Fluid Minerals (Oil & Gas)

Table 14-21. Fluid Mineral (Oil & Gas) Decisions within HAF 7

Percentages reflect BLM managed lands. Percentages may not total to 100% due to rounding. All figures and tables are intended for Habitat Assessment Framework summary purposes only. These acres for fluid minerals represent a combination of existing allocations in existing Resource Management Plans (RMPs) and allocations identified under the alternatives in this RMP Amendment. The information is provided for context and to facilitate the analysis of effects. It is important to note that just because an area is open to leasing does not mean that it will be developed. Any development must be in conformance with the stipulations which may preclude development in some areas. The stipulation information has been considered in context with mineral potential, and drilling and economic trends to develop the Reasonably Foreseeable Development Scenario (see **Appendix 12**) which estimates the amount of development anticipated across all land ownership for each alternative.

Approximate Acres of Fluid Minerals (Oil & Gas) Decisions in HAF 7 by Habitat Management Area Type						
Fluid Mineral (Oil & Gas) Decisions	**Alternative 1**					
	PHMA	**GHMA**	**IHMA**	**OHMA**	**Non-HMA**	**Total**
Closed	872,000	459,000	671,000	0	2,162,000	**4,183,000**
Open Major Stipulations	2,437,000	242,000	1,447,000	0	251,000	**4,379,000**
Open Moderate Stipulations	17,000	1,300,000	0	0	208,000	**1,532,000**
Open Standard Stipulations	1,000	0	0	0	847,000	**848,000**
Total	**3,328,000**	**2,001,000**	**2,117,000**	**0**	**3,468,000**	**10,942,000**

Approximate Acres of Fluid Minerals (Oil & Gas) Decisions in HAF 7 by Habitat Management Area Type						
Fluid Mineral (Oil & Gas) Decisions	**Alternative 2**					
	PHMA	**GHMA**	**IHMA**	**OHMA**	**Non-HMA**	**Total**
Closed	872,000	459,000	671,000	0	2,162,000	**4,183,000**
Open Major Stipulations	2,425,000	242,000	1,447,000	0	263,000	**4,379,000**
Open Moderate Stipulations	17,000	1,300,000	0	0	208,000	**1,532,000**
Open Standard Stipulations	0	0	0	0	847,000	**848,000**
Total	**3,316,000**	**2,001,000**	**2,117,000**	**0**	**3,480,000**	**10,942,000**
Fluid Mineral (Oil & Gas) Decisions	**Alternative 3**					
	PHMA	**GHMA**	**IHMA**	**OHMA**	**Non-HMA**	**Total**
Closed	6,424,000	0	0	0	2,272,000	**8,717,000**
Open Major Stipulations	170,000	0	0	0	395,000	**565,000**
Open Moderate Stipulations	36,000	0	0	0	375,000	**414,000**
Open Standard Stipulations	306,000	0	0	0	776,000	**1,086,000**
Total	**6,936,000**	**0**	**0**	**0**	**3,818,000**	**10,782,000**
Fluid Mineral (Oil & Gas) Decisions	**Alternative 4**					
	PHMA	**GHMA**	**IHMA**	**OHMA**	**Non-HMA**	**Total**
Closed	1,066,000	212,000	609,000	0	2,261,000	**4,169,000**
Open Major Stipulations	2,491,000	150,000	1,135,000	0	397,000	**4,175,000**
Open Moderate Stipulations	3,000	1,366,000	5,000	0	375,000	**1,752,000**
Open Standard Stipulations	116,000	0	96,000	0	941,000	**1,154,000**
Total	**3,677,000**	**1,728,000**	**1,845,000**	**0**	**3,974,000**	**11,249,000**
Fluid Mineral (Oil & Gas) Decisions	**Alternative 5**					
	PHMA	**GHMA**	**IHMA**	**OHMA**	**Non-HMA**	**Total**
Closed	1,126,000	217,000	527,000	0	2,277,000	**4,148,000**
Open Major Stipulations	2,601,000	153,000	1,274,000	0	398,000	**4,427,000**
Open Moderate Stipulations	2,000	698,000	19,000	0	471,000	**1,190,000**
Open Standard Stipulations	3,000	575,000	3,000	0	829,000	**1,410,000**
Total	**3,732,000**	**1,643,000**	**1,823,000**	**0**	**3,976,000**	**11,175,000**
Fluid Mineral (Oil & Gas) Decisions	**Alternative 6**					
	PHMA	**GHMA**	**IHMA**	**OHMA**	**Non-HMA**	**Total**
Closed	1,126,000	217,000	527,000	0	2,277,000	**4,148,000**
Open Major Stipulations	2,602,000	153,000	1,274,000	0	398,000	**4,428,000**
Open Moderate Stipulations	2,000	698,000	19,000	0	471,000	**1,190,000**
Open Standard Stipulations	3,000	575,000	3,000	0	829,000	**1,410,000**
Total	**3,734,000**	**1,643,000**	**1,823,000**	**0**	**3,976,000**	**11,176,000**
Fluid Mineral (Oil & Gas) Decisions	**Proposed RMP Amendment**					
	PHMA	**GHMA**	**IHMA**	**OHMA**	**Non-HMA**	**Total**
Closed	1,126,000	208,000	527,000	0	2,277,000	**4,140,000**
Open Major Stipulations	2,601,000	153,000	1,302,000	0	398,000	**4,454,000**
Open Moderate Stipulations	2,000	1,254,000	19,000	0	471,000	**1,746,000**
Open Standard Stipulations	3,000	0	3,000	0	829,000	**835,000**
Total	**3,732,000**	**1,615,000**	**1,851,000**	**0**	**3,976,000**	**11,175,000**

Approximate % of Habitat Management Area by Fluid Mineral (Oil & Gas) Decision in HAF 7					
Fluid Mineral (Oil & Gas) Decisions	**Alternative 1**				
	PHMA	**GHMA**	**IHMA**	**OHMA**	**Non-HMA**
Closed	20.85%	10.97%	16.04%	0.00%	51.69%
Open Major Stipulations	55.65%	5.53%	33.04%	0.00%	5.73%
Open Moderate Stipulations	1.11%	84.86%	0.00%	0.00%	13.58%
Open Standard Stipulations	0.12%	0.00%	0.00%	0.00%	99.88%
Total	**30.41%**	**18.29%**	**19.35%**	**0.00%**	**31.69%**

Approximate % of Habitat Management Area by Fluid Mineral (Oil & Gas) Decision in HAF 7					
Fluid Mineral (Oil & Gas) Decisions	**Alternative 2**				
	PHMA	**GHMA**	**IHMA**	**OHMA**	**Non-HMA**
Closed	20.85%	10.97%	16.04%	0.00%	51.69%
Open Major Stipulations	55.38%	5.53%	33.04%	0.00%	6.01%
Open Moderate Stipulations	1.11%	84.86%	0.00%	0.00%	13.58%
Open Standard Stipulations	0.00%	0.00%	0.00%	0.00%	99.88%
Total	**30.31%**	**18.29%**	**19.35%**	**0.00%**	**31.80%**
Fluid Mineral (Oil & Gas) Decisions	**Alternative 3**				
	PHMA	**GHMA**	**IHMA**	**OHMA**	**Non-HMA**
Closed	73.70%	0.00%	0.00%	0.00%	26.06%
Open Major Stipulations	30.09%	0.00%	0.00%	0.00%	69.91%
Open Moderate Stipulations	8.70%	0.00%	0.00%	0.00%	90.58%
Open Standard Stipulations	28.18%	0.00%	0.00%	0.00%	71.45%
Total	**64.33%**	**0.00%**	**0.00%**	**0.00%**	**35.41%**
Fluid Mineral (Oil & Gas) Decisions	**Alternative 4**				
	PHMA	**GHMA**	**IHMA**	**OHMA**	**Non-HMA**
Closed	25.57%	5.09%	14.61%	0.00%	54.23%
Open Major Stipulations	59.66%	3.59%	27.19%	0.00%	9.51%
Open Moderate Stipulations	0.17%	77.97%	0.29%	0.00%	21.40%
Open Standard Stipulations	10.05%	0.00%	8.32%	0.00%	81.54%
Total	**32.69%**	**15.36%**	**16.40%**	**0.00%**	**35.33%**
Fluid Mineral (Oil & Gas) Decisions	**Alternative 5**				
	PHMA	**GHMA**	**IHMA**	**OHMA**	**Non-HMA**
Closed	27.15%	5.23%	12.70%	0.00%	54.89%
Open Major Stipulations	58.75%	3.46%	28.78%	0.00%	8.99%
Open Moderate Stipulations	0.17%	58.66%	1.60%	0.00%	39.58%
Open Standard Stipulations	0.21%	40.78%	0.21%	0.00%	58.79%
Total	**33.40%**	**14.70%**	**16.31%**	**0.00%**	**35.58%**
Fluid Mineral (Oil & Gas) Decisions	**Alternative 6**				
	PHMA	**GHMA**	**IHMA**	**OHMA**	**Non-HMA**
Closed	27.15%	5.23%	12.70%	0.00%	54.89%
Open Major Stipulations	58.76%	3.46%	28.77%	0.00%	8.99%
Open Moderate Stipulations	0.17%	58.66%	1.60%	0.00%	39.58%
Open Standard Stipulations	0.21%	40.78%	0.21%	0.00%	58.79%
Total	**33.41%**	**14.70%**	**16.31%**	**0.00%**	**35.58%**
Fluid Mineral (Oil & Gas) Decisions	**Proposed RMP Amendment**				
	PHMA	**GHMA**	**IHMA**	**OHMA**	**Non-HMA**
Closed	27.07%	5.00%	12.67%	0.00%	54.74%
Open Major Stipulations	58.40%	3.44%	29.23%	0.00%	8.94%
Open Moderate Stipulations	0.11%	71.82%	1.09%	0.00%	26.98%
Open Standard Stipulations	0.36%	0.00%	0.36%	0.00%	99.28%
Total	**33.40%**	**14.45%**	**16.56%**	**0.00%**	**35.58%**

14.4.8 HAF Group 8

I. Habitat Management

Table 14-22. Habitat Management Areas within HAF 8

Acres and percentages reflect all lands. Percentages may not total to 100% due to rounding. All figures and tables are intended for Habitat Assessment Framework summary purposes only.

Approximate Acres of HMA in HAF 8				
Alternative 1				
PHMA	**GHMA**	**OHMA**	**Non-HMA**	**Total**
5,903,000	6,283,000	1,482,000	10,948,000	**24,616,000**
Alternative 2				
PHMA	**GHMA**	**OHMA**	**Non-HMA**	**Total**
5,798,000	5,867,000	1,048,000	11,902,000	**24,515,000**
Alternative 3				
PHMA	**GHMA**	**OHMA**	**Non-HMA**	**Total**
12,125,000	0	0	12,413,000	**24,539,000**
Alternative 4				
PHMA	**GHMA**	**OHMA**	**Non-HMA**	**Total**
6,631,000	4,384,000	1,110,000	12,413,000	**24,539,000**
Alternative 5				
PHMA	**GHMA**	**OHMA**	**Non-HMA**	**Total**
6,478,000	4,169,000	819,000	13,047,000	**24,514,000**
Alternative 6				
PHMA	**GHMA**	**OHMA**	**Non-HMA**	**Total**
6,478,000	4,169,000	819,000	13,047,000	**24,514,000**
Proposed RMP Amendment				
PHMA	**GHMA**	**OHMA**	**Non-HMA**	**Total**
5,554,000	4,129,000	810,000	13,047,000	**23,540,000**

Approximate Percent of HAF 1 that is HMA			
Alternative 1			
PHMA	**GHMA**	**OHMA**	**Non-HMA**
23.98%	25.52%	6.02%	44.48%
Alternative 2			
PHMA	**GHMA**	**OHMA**	**Non-HMA**
23.65%	23.93%	4.27%	48.55%
Alternative 3			
PHMA	**GHMA**	**OHMA**	**Non-HMA**
49.41%	0.00%	0.00%	50.58%
Alternative 4			
PHMA	**GHMA**	**OHMA**	**Non-HMA**
27.02%	17.87%	4.52%	50.58%
Alternative 5			
PHMA	**GHMA**	**OHMA**	**Non-HMA**
26.431%	17.12%	3.34%	53.22%
Alternative 6			
PHMA	**GHMA**	**OHMA**	**Non-HMA**
26.43%	17.12%	3.34%	53.22%
Proposed RMP Amendment			
PHMA	**GHMA**	**OHMA**	**Non-HMA**
23.59%	17.54%	3.44%	55.42%

II. Locatable Minerals

Table 14-23. Locatable Minerals Decisions within HAF 8

Acres and percentages reflect BLM managed lands. Percentages may not total to 100% due to rounding. All figures and tables are intended for Habitat Assessment Framework summary purposes only. The acres for the locatable minerals represent a combination of existing allocations in existing Resource Management Plans (RMPs) and allocations identified under the alternatives in this RMP Amendment. For example, for locatable minerals, proposed mineral withdrawals are only proposed and considered for GRSG conservation under Alternative 1 and Alternative 3 in this RMP Amendment. All the other existing and proposed withdrawal acreage that is identified under other alternatives represent proposed or existing withdrawals that are either being proposed in other RMP efforts or existing withdrawals that are already in place. The information is provided for context and to facilitate the analysis of effects.

Approximate Acres of Locatable Minerals Decisions in HAF 8 by Habitat Management Area Type					
Locatable Minerals	**Alternative 1**				
	PHMA	**GHMA**	**OHMA**	**Non-HMA**	**Total**
Existing Withdrawals	612,000	329,000	64,000	375,000	**1,380,000**
Recommended Withdrawals	127,000	4,000	0	0	**132,000**
Open	3,713,000	3,797,000	409,000	2,283,000	**10,210,000**
Total	**4,452,000**	**4,130,000**	**472,000**	**2,659,000**	**11,721,000**
Locatable Minerals	**Alternative 2**				
	PHMA	**GHMA**	**OHMA**	**Non-HMA**	**Total**
Existing Withdrawals	589,000	352,000	64,000	376,000	**1,380,000**
Recommended Withdrawals	12,000	4,000	0	0	**16,000**
Open	3,800,000	3,790,000	414,000	2,300,000	**10,304,000**
Total	**4,400,000**	**4,146,000**	**477,000**	**2,675,000**	**11,700,000**
Locatable Minerals	**Alternative 3**				
	PHMA	**GHMA**	**OHMA**	**Non-HMA**	**Total**
Existing Withdrawals	858,000	0	0	440,000	**1,298,000**
Recommended Withdrawals	7,726,000	0	0	28,000	**7,755,000**
Open	18,000	0	0	2,673,000	**2,691,000**
Total	**8,601,000**	**0**	**0**	**3,141,000**	**11,744,000**
Locatable Minerals	**Alternative 4**				
	PHMA	**GHMA**	**OHMA**	**Non-HMA**	**Total**
Existing Withdrawals	651,000	154,000	54,000	440,000	**1,298,000**
Recommended Withdrawals	12,000	4,000	0	0	**16,000**
Open	4,378,000	2,873,000	476,000	2,701,000	**10,428,000**
Total	**5,041,000**	**3,030,000**	**530,000**	**3,141,000**	**11,742,000**
Locatable Minerals	**Alternative 5**				
	PHMA	**GHMA**	**OHMA**	**Non-HMA**	**Total**
Existing Withdrawals	650,000	122,000	52,000	473,000	**1,297,000**
Recommended Withdrawals	12,000	3,000	0	2,000	**16,000**
Open	4,298,000	2,784,000	386,000	2,925,000	**10,394,000**
Total	**4,961,000**	**2,910,000**	**438,000**	**3,399,000**	**11,707,000**
Locatable Minerals	**Alternative 6**				
	PHMA	**GHMA**	**OHMA**	**Non-HMA**	**Total**
Existing Withdrawals	650,000	122,000	52,000	473,000	**1,297,000**
Recommended Withdrawals	12,000	3,000	0	2,000	**16,000**
Open	4,298,000	2,784,000	386,000	2,925,000	**10,394,000**
Total	**4,961,000**	**2,910,000**	**438,000**	**3,399,000**	**11,707,000**

Approximate Acres of Locatable Minerals Decisions in HAF 8 by Habitat Management Area Type					
Locatable Minerals	**Proposed RMP Amendment**				
	PHMA	**GHMA**	**OHMA**	**Non-HMA**	**Total**
Existing Withdrawals	650,000	122,000	52,000	473,000	**1,297,000**
Recommended Withdrawals	12,000	3,000	0	2,000	**16,000**
Open	4,348,000	2,744,000	376,000	2,925,000	**10,394,000**
Total	**5,010,000**	**2,870,000**	**428,000**	**3,399,000**	**11,707,000**

Approximate % of Habitat Management Area by Locatable Minerals Decisions[2] within Habitat in HAF 8				
Locatable Minerals	**Alternative 1**			
	PHMA	**GHMA**	**OHMA**	**Non-HMA**
Existing Withdrawals	44.35%	23.84%	4.64%	27.17%
Recommended Withdrawals	96.21%	3.03%	0.00%	0.00%
Open	36.37%	37.19%	4.01%	22.36%
Total	**37.98%**	**35.24%**	**4.03%**	**22.69%**
Locatable Minerals	**Alternative 2**			
	PHMA	**GHMA**	**OHMA**	**Non-HMA**
Existing Withdrawals	42.68%	25.51%	4.64%	27.25%
Recommended Withdrawals	75.00%	25.00%	0.00%	0.00%
Open	36.88%	36.78%	4.02%	22.32%
Total	**37.61%**	**35.44%**	**4.08%**	**22.86%**
Locatable Minerals	**Alternative 3**			
	PHMA	**GHMA**	**OHMA**	**Non-HMA**
Existing Withdrawals	66.10%	0.00%	0.00%	33.90%
Recommended Withdrawals	99.63%	0.00%	0.00%	0.36%
Open	0.67%	0.00%	0.00%	99.33%
Total	**73.24%**	**0.00%**	**0.00%**	**26.75%**
Locatable Minerals	**Alternative 4**			
	PHMA	**GHMA**	**OHMA**	**Non-HMA**
Existing Withdrawals	50.15%	11.86%	4.16%	33.90%
Recommended Withdrawals	75.00%	25.00%	0.00%	0.00%
Open	41.98%	27.55%	4.56%	25.90%
Total	**42.93%**	**25.80%**	**4.51%**	**26.75%**
Locatable Minerals	**Alternative 5**			
	PHMA	**GHMA**	**OHMA**	**Non-HMA**
Existing Withdrawals	50.12%	9.41%	4.01%	36.47%
Recommended Withdrawals	75.00%	18.75%	0.00%	12.50%
Open	41.35%	26.78%	3.71%	28.14%
Total	**42.38%**	**24.86%**	**3.74%**	**29.03%**
Locatable Minerals	**Alternative 6**			
	PHMA	**GHMA**	**OHMA**	**Non-HMA**
Existing Withdrawals	50.12%	9.41%	4.01%	36.47%
Recommended Withdrawals	75.00%	18.75%	0.00%	12.50%
Open	41.35%	26.78%	3.71%	28.14%
Total	**42.38%**	**24.86%**	**3.74%**	**29.03%**
Locatable Minerals	**Proposed RMP Amendment**			
	PHMA	**GHMA**	**OHMA**	**Non-HMA**
Existing Withdrawals	50.12%	9.41%	4.01%	36.47%
Recommended Withdrawals	75.00%	18.75%	0.00%	12.50%
Open	41.83%	26.40%	3.62%	28.14%
Total	**42.79%**	**24.52%**	**3.66%**	**29.03%**

III. Fluid Minerals (Oil & Gas)

Table 14-24. Fluid Mineral (Oil & Gas) Decisions within HAF 8

Percentages reflect BLM managed lands. Percentages may not total to 100% due to rounding. All figures and tables are intended for Habitat Assessment Framework summary purposes only. These acres for fluid minerals represent a combination of existing allocations in existing Resource Management Plans (RMPs) and allocations identified under the alternatives in this RMP Amendment. The information is provided for context and to facilitate the analysis of effects. It is important to note that just because an area is open to leasing does not mean that it will be developed. Any development must be in conformance with the stipulations which may preclude development in some areas. The stipulation information has been considered in context with mineral potential, and drilling and economic trends to develop the Reasonably Foreseeable Development Scenario (see **Appendix 12**) which estimates the amount of development anticipated across all land ownerships for each alternative.

Approximate Acres of Fluid Minerals (Oil & Gas) Decisions in HAF 8 by Habitat Management Area Type					
Fluid Mineral (Oil & Gas) Decisions	**Alternative 1**				
	PHMA	**GHMA**	**OHMA**	**Non-HMA**	**Total**
Closed	1,395,000	750,000	144,000	660,000	**2,951,000**
Open Major Stipulations	3,065,000	332,000	0	143,000	**3,540,000**
Open Moderate Stipulations	0	3,049,000	0	324,000	**3,375,000**
Open Standard Stipulations	0	0	330,000	1,723,000	**2,057,000**
Total	**4,460,000**	**4,131,000**	**474,000**	**2,850,000**	**11,924,000**
Fluid Mineral (Oil & Gas) Decisions	**Alternative 2**				
	PHMA	**GHMA**	**OHMA**	**Non-HMA**	**Total**
Closed	1,370,000	774,000	139,000	663,000	**2,946,000**
Open NSO	3,056,000	360,000	0	143,000	**3,560,000**
Open CSU/TL	0	3,016,000	0	324,000	**3,341,000**
Open Standard Stipulations	0	0	340,000	1,737,000	**2,077,000**
Total	**4,427,000**	**4,150,000**	**479,000**	**2,867,000**	**11,923,000**
Fluid Mineral (Oil & Gas) Decisions	**Alternative 3**				
	PHMA	**GHMA**	**OHMA**	**Non-HMA**	**Total**
Closed	9,481,000	0	0	709,000	**10,192,000**
Open Major Stipulations	0	0	0	98,000	**98,000**
Open Moderate Stipulations	0	0	0	357,000	**357,000**
Open Standard Stipulations	8,000	0	0	2,108,000	**2,117,000**
Total	9,489,000	**0**	**0**	**3,272,000**	**12,764,000**
Fluid Mineral (Oil & Gas) Decisions	**Alternative 4**				
	PHMA	**GHMA**	**OHMA**	**Non-HMA**	**Total**
Closed	1,748,000	391,000	98,000	709,000	**2,946,000**
Open Major Stipulations	3,302,000	0	0	98,000	**3,401,000**
Open Moderate Stipulations	0	2,671,000	0	357,000	**3,028,000**
Open Standard Stipulations	5,000	3,000	433,000	2,128,000	**2,569,000**
Total	**5,055,000**	**3,065,000**	**531,000**	**3,292,000**	**11,944,000**
Fluid Mineral (Oil & Gas) Decisions	**Alternative 5**				
	PHMA	**GHMA**	**OHMA**	**Non-HMA**	**Total**
Closed	1,738,000	397,000	92,000	720,000	**2,946,000**
Open Major Stipulations	3,238,000	0	0	98,000	**3,336,000**
Open Moderate Stipulations	0	2,567,000	0	493,000	**3,060,000**
Open Standard Stipulations	3,000	1,000	348,000	2,246,000	**2,598,000**
Total	**4,978,000**	**2,964,000**	**440,000**	**3,556,000**	**11,939,000**

Approximate Acres of Fluid Minerals (Oil & Gas) Decisions in HAF 8 by Habitat Management Area Type					
Fluid Mineral (Oil & Gas) Decisions	**Alternative 6**				
	PHMA	**GHMA**	**OHMA**	**Non-HMA**	**Total**
Closed	1,738,000	397,000	92,000	720,000	**2,946,000**
Open Major Stipulations	3,238,000	0	0	98,000	**3,336,000**
Open Moderate Stipulations	0	2,567,000	0	493,000	**3,060,000**
Open Standard Stipulations	3,000	1,000	348,000	2,246,000	**2,598,000**
Total	**4,978,000**	**2,964,000**	**440,000**	**3,556,000**	**11,939,000**
Fluid Mineral (Oil & Gas) Decisions	**Proposed RMP Amendment**				
	PHMA	**GHMA**	**OHMA**	**Non-HMA**	**Total**
Closed	1,953,000	331,000	0	250,000	**2,533,000**
Open Major Stipulations	3,066,000	0	0	98,000	**3,163,000**
Open Moderate Stipulations	0	2,592,000	0	493,000	**3,085,000**
Open Standard Stipulations	3,000	1,000	430,000	2,246,000	**2,680,000**
Total	**5,022,000**	**2,923,000**	**430,000**	**3,087,000**	**11,462,000**

Approximate % of Habitat Management Area by Fluid Mineral (Oil & Gas) Decision in HAF 8				
Fluid Mineral (Oil & Gas) Decisions	**Alternative 1**			
	PHMA	**GHMA**	**OHMA**	**Non-HMA**
Closed	47.27%	25.42%	4.88%	22.37%
Open Major Stipulations	86.58%	9.38%	0.00%	4.04%
Open Moderate Stipulations	0.00%	90.34%	0.00%	9.60%
Open Standard Stipulations	0.00%	0.00%	16.04%	83.76%
Total	**37.40%**	**34.64%**	**3.98%**	**23.90%**
Fluid Mineral (Oil & Gas) Decisions	**Alternative 2**			
	PHMA	**GHMA**	**OHMA**	**Non-HMA**
Closed	46.50%	26.27%	4.72%	22.51%
Open Major Stipulations	85.84%	10.11%	0.00%	4.02%
Open Moderate Stipulations	0.00%	90.27%	0.00%	9.70%
Open Standard Stipulations	0.00%	0.00%	16.37%	83.63%
Total	**37.13%**	**34.81%**	**4.02%**	**24.05%**
Fluid Mineral (Oil & Gas) Decisions	**Alternative 3**			
	PHMA	**GHMA**	**OHMA**	**Non-HMA**
Closed	93.02%	0.00%	0.00%	6.96%
Open Major Stipulations	0.00%	0.00%	0.00%	100.00%
Open Moderate Stipulations	0.00%	0.00%	0.00%	100.00%
Open Standard Stipulations	0.38%	0.00%	0.00%	99.57%
Total	**74.34%**	**0.00%**	**0.00%**	**25.63%**
Fluid Mineral (Oil & Gas) Decisions	**Alternative 4**			
	PHMA	**GHMA**	**OHMA**	**Non-HMA**
Closed	59.33%	13.27%	3.33%	24.07%
Open Major Stipulations	97.09%	0.00%	0.00%	2.88%
Open Moderate Stipulations	0.00%	88.21%	0.00%	11.79%
Open Standard Stipulations	0.19%	0.12%	16.85%	82.83%
Total	**42.32%**	**25.66%**	**4.45%**	**27.56%**
Fluid Mineral (Oil & Gas) Decisions	**Alternative 5**			
	PHMA	**GHMA**	**OHMA**	**Non-HMA**
Closed	59.00%	13.48%	3.12%	24.44%
Open Major Stipulations	97.06%	0.00%	0.00%	2.94%
Open Moderate Stipulations	0.00%	83.89%	0.00%	16.11%
Open Standard Stipulations	0.12%	0.04%	13.39%	86.45%
Total	**41.70%**	**24.83%**	**3.69%**	**29.78%**

Approximate % of Habitat Management Area by Fluid Mineral (Oil & Gas) Decision in HAF 8				
Fluid Mineral (Oil & Gas) Decisions	**Alternative 6**			
	PHMA	**GHMA**	**OHMA**	**Non-HMA**
Closed	59.00%	13.48%	3.12%	24.44%
Open Major Stipulations	97.06%	0.00%	0.00%	2.94%
Open Moderate Stipulations	0.00%	83.89%	0.00%	16.11%
Open Standard Stipulations	0.12%	0.04%	13.39%	86.45%
Total	**41.70%**	**24.83%**	**3.69%**	**29.78%**
Fluid Mineral (Oil & Gas) Decisions	**Proposed RMP Amendment**			
	PHMA	**GHMA**	**OHMA**	**Non-HMA**
Closed	77.10%	13.07%	0.00%	9.87%
Open Major Stipulations	96.93%	0.00%	0.00%	3.10%
Open Moderate Stipulations	0.00%	84.02%	0.00%	15.98%
Open Standard Stipulations	0.11%	0.04%	16.04%	83.81%
Total	**43.81%**	**25.50%**	**3.75%**	**26.93%**

14.5 PAST, PRESENT, AND REASONABLY FORESEEABLE ACTIONS

Beyond the state and local plans, there are other actions that have occurred in GRSG habitat in the past, are currently taking place or being considered, and activities which may be reasonably foreseeable. **Table 14-25** represents many of these actions across the entire range for GRSG, which are separated by state.

As noted in section 14.1, those actions that are at a similar level of decision-making to this RMPA are most likely to have a cumulative impact with the actions considered in the alternatives. Most prominently, this includes U.S. Forest Service GRSG plan amendments from 2015, as well as any other changes to those plans currently being considered. Other efforts with similar levels of decisions include other BLM planning efforts that affect similar geographic areas or land uses as what is being considered in this RMPA effort.

Additionally, BLM Colorado has developed the Fluid Mineral Specialist Report on Concurrent Land Use Planning Efforts in Colorado (BLM 2024b) to support the cumulative impacts analysis for several concurrent land use planning efforts in Colorado. The report provides an overview of how the land use planning decision areas overlap across the BLM administrative units (field offices) and where fluid mineral resources may be available as a result of all planning efforts. The report provides a geospatial analysis of fluid mineral topics and a discussion on potential impacts to air quality and greenhouse gas emissions, socioeconomic impacts, and communities that are most likely to be impacted by the concurrent and overlapping land use plans. That report is incorporated by reference here.

In addition to the various planning efforts, there are a variety of actions being considered within the planning area. There are also a wide variety of actions the BLM considered during implementation of the RMPs. The intent of **Table 14-25** and the related cumulative impacts analyses is not to analyze every potential future land use in GRSG habitat. Each action conducted on public lands must go through its own analysis, including consideration of the direct, indirect, and cumulative effects associated with that project. As the level of decision-making gets more specific, the level of analysis correspondingly gets more specific, as the level of uncertainty or speculation is reduced.

It is also critical to note that all actions authorized on public lands must document conformance with RMP goals, objectives, and decisions. Any project identified below that occurs on public lands – or any other action that may occur that is not noted in the table – must align with the direction in the current land use plans (if authorized before completion of this effort), or with the direction associated with whatever decision comes from this effort (if authorized after a decision is made in this effort). Additionally, any proposed action

that includes state or county permits must also be in conformance with those plans. As such, the intent of **Table 14-25** and the corresponding analyses is not to present or analyze every potential project that may occur, or even all those listed in the table, as some of those projects would not be in conformance with some of the alternatives being considered. The effect of the management of the alternatives and their impacts direct, indirect, and cumulative on GRSG and its habitat, the various land uses, and corresponding effects to socioeconomics are described in **Chapter 4**.

Table 14-25. Past, Present, and Reasonably Foreseeable Actions

Project Type	Project Location - State(s)	Project, Plan or Action	Description	Project Status[1]
Multi-State				
Lands and Realty	California, Colorado, Idaho, Montana, Nevada, Oregon, Utah, Wyoming	West-wide energy corridors (Section 368 energy corridors)	In accordance with Section 368(a) of the Energy Policy Act of 2005, the BLM designated 5,000 miles of energy corridors for potential placement of future oil, natural gas and hydrogen pipelines, and electricity transmission and distribution infrastructure. The BLM is currently conducting an amendment effort that is considering adjustments to some of the corridors.	Ongoing and Proposed changes to some corridors
Lands and Realty	California, Colorado, Idaho, Montana, Nevada, Oregon, Utah, Wyoming	Solar Programmatic EIS	The BLM is considering updates to its 2012 Western Solar Plan and is considering expanding its solar planning to include five additional states: Idaho, Montana, Oregon, Washington, and Wyoming	Ongoing
Multiple	All (except Dakotas and Washington)	21 Restoration Landscapes	Work in Restoration Landscapes will coordinate and sequence different types of investments and treatments from across the BLM – including fuels, rangelands, wildlife, forestry, aquatics and recreation.	Proposed
Locatable Minerals	California, Idaho, Montana, Nevada, Oregon, Utah, Wyoming	SFA Withdrawal Project	The BLM is considering withdrawal from location and entry under the Mining Act of 1872 for Sagebrush Focal Areas (SFAs) from the 2015 GRSG plans. This EIS is providing the additional and more specific analyses prior to a final decision of whether to withdraw some, none, or all of the SFAs.	Proposed
Lands and Realty	Idaho, Wyoming	Gateway West 230/500 Transmission Line Project	Rocky Mountain Power and Idaho Power to build and operate approximately 1,000 miles of new high-voltage transmission lines. Project has been authorized and is being implemented, with construction underway and ongoing, moving east to west	Ongoing
Vegetation	All	Vegetation Treatments Using Herbicides	The BLM approved an addition to its list of approved herbicides, 7 active ingredients including Indaziflam, Aminocyclopyrachlor, Clethodym, and Flumioxazin, among others.	Ongoing

Project Type	Project Location - State(s)	Project, Plan or Action	Description	Project Status[1]
Lands and Realty	Montana, North Dakota, Wyoming, Utah, Colorado, Nebraska, Arizona	Sentinel (Ground Based Strategic Deterrent (GBSD)) Program Deployment and Minuteman III Decommissioning and Disposal	The Department of the Air Force (DAF) issued a Record of Decision (ROD) in May 2023 to document its decision to implement actions to deploy the Sentinel (formerly known as the Ground Based Strategic Deterrent [GBSD]) intercontinental ballistic missile (ICBM) system and to decommission and dispose of the Minuteman III (MMIII) ICBM system. The ROD includes establishing approximately 3,126 miles of new utility corridors throughout the F.E. Warren AFB, Malmstrom AFB, and Minot AFB missile fields in Colorado, Nebraska, North Dakota, Montana, and Wyoming, for which the government would acquire the necessary property easements/ROWs. The new corridors would supplement the existing utility connections. Sentinel maintenance, training, storage, testing and support actions will occur also at Hill AFB, Utah; Utah Test and Training Range, Utah; Camp Guernsey, Wyoming; and Camp Navajo, Arizona.	Proposed
Lands and Realty	Wyoming, Colorado, Utah	Energy Gateway South Transmission Line	650-mile 500 kV transmission line. Begins in south central Wyoming, crosses Utah diagonally from northeast to southwest, and ends in Mona, Utah. Includes GRSG mitigation.	Ongoing
Lands and Realty	Wyoming, Colorado, Utah, Nevada	TransWest Express	725-mile 600 kV transmission line. Begins in south-central Wyoming, crosses Utah diagonally from northeast to southwest, and ends south of Las Vegas	Ongoing
Lands and Realty	Idaho, Oregon	Boardman to Hemingway Project	The Boardman to Hemingway Transmission Line Project is a 500 kilovolt (kV) transmission line, beginning at a substation near Boardman, Oregon, and extending south and east to the existing Hemingway Substation near Melba, Idaho, a distance of approximately 300 miles. The transmission line will provide additional electrical capacity between the Pacific Northwest region and the Intermountain region of southwestern Idaho.	Ongoing
Vegetation	Idaho, Oregon, Nevada, northeastern California, Utah, and eastern Washington	Programmatic EIS for Fuel Breaks in the Great Basin	This programmatic environmental impact statement (PEIS) evaluates creating and maintaining a system of fuel breaks in the Great Basin region. The project area, covering nearly 224 million acres, includes portions of California, Idaho, Nevada, Oregon, Utah, and Washington. The fuel breaks would be placed along a subset of available linear features, such as roads and rights-of-way (ROWs) on Bureau of Land Management (BLM)-administered lands within sagebrush communities; these potential treatment areas cover approximately 38 million acres within the project area boundary.	Ongoing

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Vegetation	Idaho, Oregon, Nevada, northeastern California, Utah, and eastern Washington	Programmatic EIS for Fuels Reduction and Rangeland Restoration in the Great Basin	This landscape scale Programmatic Environmental Impact Statements (EIS) to analyzes potential effects of reducing fuel loading and restoring rangeland productivity within the Great Basin Region (Idaho, Oregon, Nevada, northern California, Utah, and eastern Washington) in order to protect and conserve the sagebrush-steppe ecosystem from loss as a result of wildfires.	Ongoing
Lands and Realty	Nevada, Utah	Cross-Tie kV Transmission Project	The Project proposed by TransCanyon, LLC (TransCanyon) includes a 214-mile, single-circuit, 1,500-megawatt, 500-kilovolt (kV), high voltage alternating current (HVAC) overhead transmission line that would be located on BLM-managed public land, USDA Forest Service National Forest System Land, state land, and private land in Beaver, Juab, and Millard Counties, Utah; and White Pine County, Nevada. The proposed route would cross a total of 137 miles in Utah and 77 miles in Nevada. Approximately 165 miles, or 77 percent, of the proposed route would be on BLM-managed public land, approximately 9 miles (4 percent) on National Forest System Land, approximately 11 miles (5 percent) on state land, and the remaining approximately 29 miles (14 percent) on privately owned land. TransCanyon would obtain these land rights through ROW grants from the BLM, a SUP from the USDA Forest Service, and easements or fee purchases for non-Federal lands.	Proposed
Lands and Realty	Idaho, Nevada, Utah	Southwest Intertie Project (SWIP)	LS Power Company proposes to construct and operate a 500kV transmission line from their Midpoint Substation near Shoshone, Idaho to a new proposed substation in the Dry Lake Valley northeast of Las Vegas, Nevada. A crosstie route would also be constructed from the Ely, Nevada area to a point near Delta, Utah. New substations would be required near Ely, Las Vegas, and Delta, and a series of compensation stations would be needed midway between the Midpoint Substation and Ely, Nevada, and between Ely and Dry Lake. New microwave facilities would be required on the route from Midpoint to Dry Lake.	Ongoing
Wildfires and Fuels Management	Idaho, Oregon	Tri-state Fuel Breaks Project	The Tri-state Fuel Breaks Project includes a system of roadside fuel breaks (987 miles; approx. 435 miles in Idaho and 550 miles in Oregon) that reduce fuel loading along established roads to improve suppression coordination and response across a 3.6-million-acre project area spanning the southeastern corner of Oregon and southwestern corner of Idaho and connect to existing fuel breaks within northern Nevada.	Ongoing

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Northwest Colorado				
Federal Resource Management / Land Use Plans	Colorado	Big Game RMP Amendment	The BLM will consider whether to incorporate new or changed oil and gas management decisions in existing land use plans, such as limits on high-density development, including facility and route density limitations, and other lease stipulations that would incorporate conservation measures for important big game habitat areas in Colorado.	Ongoing
Federal Resource Management / Land Use Plans	Colorado	Gunnison Sage-Grouse RMP Amendment	The BLM is preparing an Environmental Impact Statement to determine whether to amend the land use plans of BLM field offices, national monuments, and national conservation areas containing occupied and unoccupied habitat for the threatened Gunnison sage-grouse (*Centrocercus minimus*) as identified by the U.S. Fish and Wildlife Service in the 2020 Final Recovery Plan.	Ongoing
Federal Resource Management / Land Use Plans	Colorado	Colorado River Valley Field Office and Grand Junction Field Office Supplemental EIS	The purpose of this supplemental EIS is to broaden the range of alternatives in the 2015 CRVFO and GJFO Approved RMPs with respect to the lands that are allocated as open or closed for oil and gas leasing. The purpose is also to provide additional air quality analysis for the fluid mineral management alternatives considered in the 2014 CRVFO Final EIS and the 2015 GJFO Final EIS and in this supplemental EIS.	Ongoing
Lands and Realty	Colorado	Blue Valley Land Exchange	Proposed exchange of 1,652 acres of federal lands in the Kremmling Field Office for 2,005 acres of nonfederal lands in Grand and Summit Counties, Colorado. A Notice of Decision approving the Blue Valley Land Exchange was issued in January 2023, followed by a 45-day protest period. KFO is in the process of protest response.	Ongoing
Lands and Realty	Colorado	Wolf Creek Reservoir EIS/ RMP Amendment	Rio Blanco Water Conservancy District (RBWCD) filed an application for a right-of-way (ROW) for "White River Regional Water Supply Project" and specifically for the Wolf Creek Reservoir. RBWCD obtained a conditional water right decree for 66,720 acre-feet for use in a proposed reservoir location. The majority of the project would occur on public land managed by the BLM. Other affected property includes the Middle Wolf Creek State Trust Land parcel and a private parcel owned by RBWCD.	Proposed
Lands and Realty	Colorado	Axial Basin Solar Development	Private land within LSFO. Axial Basin Solar LLC, a subsidiary of juwi, inc., is developing the Axial Basin Solar Project in Moffat County, Colorado. The utility-scale solar development is expected to be sited on 3,500 acres of private land.	Proposed

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Lands and Realty	Colorado	Big Cat Solar Development	Big Cat Solar LLC a subsidiary of Apex Clean Energy Holdings LLC is proposing a 200MWac solar photovoltaic generation facility for up to 200 MW of battery energy storage and ancillary facilities on approximately 2,793 acres of public lands in the Grand Junction Field Office. The project would include a project substation and a line tap to the existing 230 kV generation interconnection transmission line running through the project area.	Proposed
Lands and Realty	Colorado	Book Cliffs Solar Development	Book Cliffs Solar Farm LLC a subsidiary of Scout Clean Energy LLC is proposing a 210 MW solar photovoltaic generation facility for up to 210 MW of photovoltaic module arrays, collection system, a control house and a collector substation on approximately 2,621 acres of public land in the Grand Junction Field Office. The project would utilize the existing 230 kV generation transmission line running through the project area.	Proposed
Lands and Realty	Colorado	Nannie Blaine Solar PV Park (State of Colorado land)	SolarGen is proposing the Nannie Blaine Solar PV Park which is a 48 MW photovoltaic array on 151 acres of State of Colorado lands located north of I-70 and just east of the Grand Junction Motor Speedway.	Proposed
Lands and Realty	Colorado	Xcel 6670 Rebuild	Xcel is proposing a rebuild of the 6670 Rifle-Ute to DeBeque 69 kilovolt (kV) Transmission Line (6670 transmission line) located in Mesa and Garfield Counties, Colorado. Transmission line 6670 is planned to continue to be operated at 69 kV but will be designed to accommodate 115 kV for future needs. The existing 30 to 50-foot-wide permanent right-of-way (ROW) would be widened to 75 feet to accommodate design upgrades.	Proposed
Wild Horse and Burro	Colorado	Piceance-East Douglas Herd Management Area Horse Gather (2024)	The White River Field Office plans to conduct a gather in the Piceance-East Douglas Herd Area in 2024. The Appropriate Management Level (AML) for the HMA is between 135-235 horses.	Proposed
Wild Horse and Burro	Colorado	Little Book Cliffs Herd Management Area Horse Gather (2024)	The Grand Junction Field Office plans to conduct a gather in the Little Book Cliffs Herd Management Area in 2024. The Appropriate Management Level (AML) for the HMA is between 90-150 wild horses. The last gather in the Little Book Cliffs occurred in 2018, during which 96 horses were gathered and 41 were returned to the range.	Proposed
Wildfires and Fuels Management	Colorado	GRSG habitat burned 2018-2022	A total of 66,647 acres of GRSG habitat in CO burned between 2018 and 2022. Of those, 26,412 acres were on BLM land.	Past
Wildfires and Fuels Management	Colorado	Northwest Colorado Programmatic Vegetation Treatment Environmental Assessment (2017)	The plan takes a programmatic approach to vegetation treatments and installation of erosion/stabilization structures to work towards the vegetation management goals of the GJFO, KFO, WRFO, CRVFO, and LSFO RMPs to promote healthy, productive, and diverse vegetation communities.	Past

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Wildfires and Fuels Management	Colorado	Conducting Mechanical Vegetation Treatments During Drought Conditions (2020)	This plan analyzed the consequences of conducting mechanical vegetation treatments during drought conditions in GJFO, KFO, WRFO, CRVFO, and LSFO.	Past
Vegetation and GRSG Habitat Management	Colorado	Conducting Mechanical Vegetation Treatments During Drought Conditions (2021)	This plan analyzed the consequences of conducting mechanical vegetation treatments during drought conditions in GJFO, KFO, WRFO, CRVFO, and LSFO.	Past
Vegetation and GRSG Habitat Management	Colorado	Programmatic Environmental Assessment for Vegetation Treatments and Installation of Stabilization/Erosion Control Structures in Northwest Colorado (2017)	This programmatic EA evaluated vegetation treatments and erosion control structures in the WRFO, KFO, LSFO, CRVFO, and GJFO.	Past
Recreation	Colorado	South Sand Wash Open OHV Area Recreation Area Management Plan	The BLM is working with Craig Chamber of Commerce to develop a recreation management plan for the Sand Wash Basin Special Recreation Management Area. The plan will identify the types and locations of improvements needed to provide for OHV recreation opportunities within the SRMA.	Ongoing
Idaho				
Energy and Mining	Idaho	Husky 1 North Dry Ridge Phosphate Mine	The Husky 1 North Dry Ridge Phosphate Mine is an approximately 1,146-acre open pit phosphate mine in Caribou County, Idaho. The mine occurs on lands managed by the National Forest Service, Caribou-Targhee National Forest. Mining operations will occur over an estimated 13 years and total project duration with reclamation is 15 years.	Ongoing
Energy and Mining	Idaho	Caldwell Canyon Mine	The Caldwell Canyon Mine is an approximately 1,530-acre proposed open pit phosphate mine in Caribou County, Idaho. Mine facilities (ore stockpile, tipple, water management infrastructure, offices) would be located in the previously inactive Dry Valley Mine (East Caldwell Area) in Dry Valley. Mining operations would be conducted over an estimated 40-year period using a pit panel mining method.	Ongoing
Energy and Mining	Idaho	Rasmussen Valley Mine	The Rasmussen Valley Mine is an approximately 540-acre open pit phosphate mine in Caribou County, Idaho. The life of mining activities is 5 years and total project duration with reclamation is 7 years.	Ongoing
Energy and Mining	Idaho	East Smoky Panel Mine Project	The East Smoky Panel Mine is an approximately 850-acre open pit phosphate mine in Caribou County, Idaho. The life of mining activities is up to 12 years and total project duration with reclamation approximately 15 years.	Ongoing

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Energy and Mining	Idaho	Dairy Syncline Mine Project	The Dairy Syncline Mine is an approximately 2,830-acres open pit phosphate mine in Caribou County, Idaho. The life of the mining activities is approximately 30 years.	Ongoing
Energy and Mining	Idaho	Smoky Canyon Mine Panels F and G Lease and Mine Modification Project	The existing Smoky Canyon Mine, located in Caribou County, Idaho, was authorized in 1982. Mining operations began in Panel A in 1984 and have continued ever since using standard open pit techniques in seven mine panels (Panels A-G). Mining operations are complete in Panels A, C, D, and E, and mining activities associated with Panel F and G were initiated in 2008 and are ongoing. Lease and mine modifications for Panels F and G mining and reclamation were approved in a 2015 Record of Decision.	Ongoing
Lands and Realty	Idaho	Lava Ridge Wind Project	The proposed Lava Ridge Wind Project could consist of up to 400 wind turbines and associated infrastructure, with an estimated generation capacity of 1,000 megawatts or more. The project area spans 197,474 acres and all project components would be sited within a series of approximately one-half mile wide corridors (approx. 84,385 acres). The project infrastructure proposed within the corridors is estimated to have a 2,374-acre footprint and a total disturbance area of 9,114 acres.	Proposed
Vegetation and GRSG Habitat Management	Idaho	Bruneau-Owyhee Sage-Grouse Habitat Project	The BLM is removing encroaching Western juniper to improve and maintain sagebrush-steppe habitat on about 726,000 acres within a 1.67 million-acre area of Owyhee County.	Ongoing
Lands and Realty	Idaho	Pending renewable energy development ROWs	There are 13 renewable energy development ROW applications (11 solar, 2 wind) and 2 renewable energy testing ROW applications (1 solar, 1 wind) pending review and analysis.	Proposed
Land Use Plan	Idaho	Four Rivers Field Office Resource Management Plan	The Four Rivers Field Office Resource Management Plan provides guidelines and objectives for renewable energy development, fish and wildlife habitat, outdoor recreation, livestock management, and other uses across approximately 783,000 acres of public lands and more than 1.17 million acres of Federal mineral estate in southwest Idaho.	Ongoing
Nevada and Northeast California				
Energy and Mining	Eureka County, Nevada	Gibellini Vanadium Project	The Project consists of construction and operation of an open pit mine, rock disposal area, crushing facilities and stockpile, heap leach pad, process facility, process and make-up water ponds, borrow areas, mine and access roads, water and power supply lines, ancillary facilities, and continued exploration activities on public lands within the Project area in Eureka County, Nevada. The mine life consists of 1.5 years of construction, 7 years of operation, 4 years of active reclamation and closure, and up to 30 years of post-closure monitoring.	Ongoing

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Energy and Mining	Lander and Eureka Counties, Nevada	Goldrush Mine Project	The Goldrush Mine Plan of Operations boundary encompasses approximately 19,895 acres, of which 772 acres are on private land controlled by NGM and 19,123 acres of public lands administered by the BLM Mount Lewis Field Office and BLM Elko District, Tuscarora Field Office. The Goldrush Mine includes approximately 1,717.4 acres of new proposed disturbance and approximately 1,036.8 acres of existing/authorized and reclassified disturbance, for a total disturbance of approximately 2,754.2 acres. The underground mining and surface support activities for the Goldrush Mine include a materials handling system for transporting ore and waste rock from the underground workings to the surface and transporting aggregate and supplies to the underground workings and surface backfill plant; a dewatering system (including wells, pipelines, and pipeline corridors); a water treatment plant (WTP); rapid infiltration basins (RIBs); a multi-use shop; contact water pipeline; ventilation raises; a backfill aggregate paste plant and crusher; a shotcrete/cemented rock fill (CRF) plant; two new power lines (a 120-kilovolt (kV) power line with two switching stations, and a 13.8-kilovolt (kV) power line); new ancillary surface facilities (including bulk material storage, access roads, power supply, stormwater controls, laydown and parking areas, lighting, growth media stockpiles, dewatering and monitoring wells, gravel pit expansion, potable water and septic systems, dry facilities (i.e., change rooms), service boreholes for electrical and fuel delivery, fire suppression system, water truck refill stations, emergency helipads, fencing, and modular information technology (IT) and communications buildings); dual use of existing facilities within the nearby Cortez Mine Plan boundary; and continued surface and underground exploration activities. The Goldrush Mine would operate 24 hours per day, 365 days per year for approximately 24 years.	Ongoing
Energy and Mining	Washoe County, Nevada	Hog Ranch Mineral Exploration Project	The Hog Ranch Mineral Exploration Project is an expansion of current mineral exploration activities at the former Hog Ranch Mine in Northern Washoe County, Nevada. The approved mineral exploration on 200 acres of public land includes construction of drill pads, new access roads, and staging areas in support of exploratory drilling,	Ongoing

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Energy and Mining	Elko County, Nevada	South Railroad Valley Gold Mine	The Project is an open-pit gold mine operation that will include the following major components: • Four open pits; • Three waste rock disposal facilities (WRDFs); • Ore crushing and conveying system; • Lime and cement silos and ore agglomeration facility; • Ore stockpiles; • Clay stockpile; • Growth media stockpiles; • On-Site Power Plant and Sub-Station; • A limestone quarry area; • A heap leach facility (HLF) with solution channels, associated process solution tanks, and ponds; • Water Supply and Dewatering System; • Stormwater diversion ditches and stormwater sediment basins; • Water Treatment Plant Processing facilities comprised of pumps and pipelines, adsorption desorption and recovery (ADR) plant, refinery, and an assay laboratory; • Access and haul roads; • Ancillary facilities that include the following: ready line; maintenance area; reagent and fuel storage; storage and laydown yards; explosive magazines; meteorological station; warehouse; truck maintenance shop; truck wash; offices, warehouse and workshop, change/lunch facilities; administration/security building; and solid and hazardous waste management facilities; • Exploration in the vicinity of the open pits to better define and expand the ore body; and • Reclamation and closure, including the development of evapotranspiration (ET) cells. GSV proposes to mine approximately 52.1 million tons of heap leach ore and 159 million tons of waste rock (for a maximum total of 211 million tons of material). The material (both ore and waste) will be extracted from the open pits using conventional open pit mining methods of drilling, blasting, loading, and hauling. In addition to the construction of operating facilities, proposed exploration activities within the Project Area are estimated to disturb up to 150 acres.	Proposed
Energy and Mining	White Pine County, Nevada	Bald Mountain Mine, Juniper Expansion Project	The Juniper Project would modify and expand operations on BLM-administered lands within the North Operations Area (NOA) of the existing Bald Mountain Mine, resulting in approximately 3,969 acres of new surface disturbance and extension of the NOA mine life by 11 years.	Proposed
Energy and Mining	Lander and Eureka, Counties, Nevada	Ormat Crescent Valley Geothermal Development Project	The proposed Crescent Valley Geothermal Project considers the construction, operation, maintenance and eventual reclamation of a geothermal energy production facility and associated transmission line totaling approximately 2,040 acres on public and privately leased lands. The transmission line would support an approximate 30-megawatt net rated geothermal power generating facility, operated by Ormat Nevada, Inc.	Proposed

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Energy and Mining	Elko County, Nevada	Long Canyon Mine Project	The Project will be located in the Pequop Mountains and Goshute Valley, in Elko County, Nevada, approximately 75 miles east of Elko, Nevada. The Project will be an open-pit gold mine.	Proposed
Lands and Realty	Washoe, Lyon, Storey, Churchill, Mineral, Nye, Esmeralda, and Clark Counties, Nevada	Reno to Las Vegas Fiber Optic Project	The proposed buried fiber optic project would be located within existing highway rights-of-way that predominantly follow U.S. Highways 50 and 95; Nevada State Highways 160, 839, and 439; and County-maintained roads from Reno to Las Vegas.	Proposed
Energy and Mining	White Pine County, Nevada	White Pine Pumped Storage Hydroelectric Power Project	A 1,000 megawatt energy storage project under development in White Pine County, Nevada. The project facilities include two reservoirs, underground generation equipment, and a new transmission line. One of the reservoirs will be in the Duck Creek Range, and the other in the Steptoe Valley near Highway 93. Energy for pumping, and power generated by the project, will be delivered through a new 25-mile-long transmission line connecting the project with the Robinson Summit Substation. The remainder of the facilities will consist of access roads to the reservoirs, a transmission switch-station, and the entrance to the access tunnels.	Proposed
Lands and Realty	Eureka, White Pine, Lander, Churchill, and Lyon Counties, Nevada	Greenlink North Transmission Project	The Bureau of Land Management (BLM) Nevada Renewable Energy Coordination Office is evaluating two SF-299 applications [one application for a permanent right-of-way (ROW), one application for a short-term ROW] submitted by NV Energy for Transportation and Utility Systems and Facilities on Federal Lands. The proposed Greenlink North Project would span approximately 235 miles from Ely, Nevada to Yerington, Nevada through White Pine, Eureka, Lander, Churchill, and Lyon Counties and would involve construction of the following components: • Robinson Summit 525/345-kV Substation Expansion • New Lander 525/230-kV Collector Station. • New Fort Churchill-Robinson Summit 525-kV Transmission Line. • Fort Churchill 525/345-kV Substation Expansion.	Proposed
Lands and Realty	Clark, Nye, Esmeralda, Mineral, Lyon, Storey, and Washoe Counties, Nevada	Greenlink West Transmission Project	The Greenlink West Project would be a system of new 525-kilovolt (kV), 345-kV, 230-kV, and 120-kV electric transmission facilities on private, state, and federal lands. The project will run from North Las Vegas to Reno.	Ongoing

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Energy and Mining	Humboldt County, Nevada	Thacker Pass Lithium	The proposed project consists of an open pit lithium mine, processing facilities, and continued exploration of adjacent lands located in northern Humboldt County, Nevada, approximately 17 miles northwest of Orovada, 53 miles north-northwest of Winnemucca, and 20 miles south of the Oregon state border. The proposed project will have a life expectancy of approximately 41 years.	Ongoing
Federal Resource Management Plans	Nevada, California	Greater Sage-Grouse Bi-State Distinct Population Segment	The approved Nevada California Greater Sage Grouse Distinct Population Segment Land Use Plan Amendment (LUPA) and Record of Decision (ROD) amends the Carson City Field Office Consolidated Resource Management Plan (RMP) and the Tonopah Field Office RMP. The BLM was a cooperating agency on the United States Forest Service (USFS) led planning effort and the LUPA was developed using a collaborative planning process that included input from the Nevada Department of Wildlife and the United States Fish and Wildlife Service. The LUPA/ ROD adds goals, objectives, action, and best management practices specifically designed to conserve, enhance, and/or restore habitats to provide for the long-term viability of the Greater Sage Grouse Bi-State Distinct Population Segment (BSSG). The LUPA provides direction at the land use plan level to include regulatory mechanisms for the management and conservation of BSSG habitats within the BLM Carson City and Battle Mountain Districts to support the BSSG population management objectives within the states of Nevada and California.	Ongoing
Mining and Energy	Washoe and Churchill Counties, Nevada	Juniper Geothermal Development Project	The Project proposes to include the construction and operation of up to two geothermal power production facilities, geothermal fluid production and injection wells and well pads, access roads, geothermal fluid pipelines, and ancillary support facilities. Electrical power generated at this facility would be sold on the commercial market.	Proposed
Mining and Energy	Pershing County, Nevada	Colado Geothermal	Drilling/exploration program to evaluate geologic structure, measure pressure – temperature gradients, and test the well to determine reservoir characteristics. Includes well pad construction, etc.	Proposed
Mining and Energy	Humboldt County, Nevada	Pinto Hot Springs Geothermal Exploration	—	Proposed
Mining and Energy	Pershing County, Nevada	Spring Valley Gold Mine	Proposed gold mine (baseline surveys currently underway)	Proposed
Lands and Realty	White Pine County, Nevada	Stagecoach Wind Development Project	Stagecoach Wind Development Wind Energy ROW is a 11,035-acre pending wind energy zone in White Pine County, Nevada.	Proposed
Lands and Realty	White Pine County, Nevada	Pantheon Solar	Pantheon Solar Project would be built on 8,086 acres of public lands, partially located in GRSG habitat.	Proposed

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Mining and Energy	Eureka County	Ruby Hill Mine	Expanded drill program at existing Ruby Hill Mine	Ongoing
Mining and Energy	Lander County, Nevada	Robertson Gold Mine	Mining development and exploration operations by Nevada Gold Mines LLC (NGM) on 5,990 acres, consisting of approximately 5,822 acres of public lands administered by the Bureau of Land Management (BLM) and 168 acre of private land in Lander County, Nevada.	Proposed
Vegetation	Eureka County, Nevada	Three Bars Ecosystem and Landscape Restoration Project	The 3 Bars Ecosystem in central Eureka County, Nevada spans approximately 725,000 acres and includes portions of three major mountain ranges (Roberts Mountain, Simpson Park Range, and Sulphur Spring Range). Many factors are contributing to the overall decline in land condition of this area. The gradual loss of sagebrush, bitterbrush, and mountain shrub communities impact wildlife species such as sage grouse, pygmy rabbit, and mule deer. Compromised riparian habitats impact the threatened Lahontan cutthroat trout and other aquatic species. Factors contributing to the overall decline in land health include increasing incidence and severity of wildfire, increasing expansion of downy brome (cheatgrass), increasing expansion and densification of pinyon pine and Utah juniper woodlands, and increasing human impacts.	Ongoing
Mining and Energy	Lander County, Nevada	McGinness Hills Geothermal Complex	The McGinness Hills Geothermal Complex is a complex of 3 geothermal power stations located in a valley between the Toiyabe Range and Simpson Park Range in Lander County, Nevada. It is the largest geothermal complex in Nevada and the fourth largest in the United States. The complex consists of two 45 MW geothermal power stations that were commissioned in July 2012, as well as a third 48 MW geothermal power station that was commissioned on 20 December 2018. The entire complex is owned by Ormat.	Ongoing
Livestock Grazing	Battle Mountain, Carson City, Elko, Ely, and Winnemucca Districts	Targeted and Prescribed Grazing of Annual Grasses in Great Basin Ecosystems in Nevada	Targeted grazing treatments for reduction of annual invasive grasses in a variety of Disturbance Response Groups on BLM managed public lands throughout the Great Basin ecoregions in Nevada. The project purpose is to manage invasive annual grasses by using a variety of livestock grazing practices in the Great Basin ecoregions of Nevada	Ongoing
Energy and Mining	White Pine Co, Nevada	Sage City Solar	Proposes solar facility is 16 miles west of Ely, NV on 6,790 acres, with a projected output of 800 MW.	Proposed
Energy and Mining	White Pine Co, Nevada	Robinson Solar Project	Project proposes a 750MW Solar PV facility with Battery Storage. The Solar Project would consist of 2 years of construction, 30 years of operation, with an option to renew.	Ongoing
Energy and Mining	White Pine Co, Nevada	Tromso Solar	Proposed solar facility 17 miles west of Ely, NV with a10,000 acre project area.	Proposed
Energy and Mining	White Pine Co, Nevada	Spring Valley Wind	Spring Valley Wind Generation Project has 63 2.4 Mitsubishi wind turbines currently working.	Ongoing

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Energy and Mining	White Pine Co, Nevada	Aquilo Wind	The proposed project is for wind development within an application area totaling 18,744 acres, with a projected output of 700 MW.	Proposed
Energy and Mining	White Pine Co, Nevada	CGI Wind Testing	This project is located 15 miles west of Ely, NV and has an application area of 46,205 acres.	Proposed
Energy and Mining	White Pine Co, Nevada	CGI Solar Testing	This project is located 15 miles west of Ely, NV and has an application area of 15,728 acres.	Proposed
Energy and Mining	White Pine Co, Nevada	Scout Wind	This project is located in Spring Valley and has an application area of 2,965 acres.	Proposed
Energy and Mining	Lander Co, Nevada	Wildcat Solar	This project is located 13 miles southeast of Austin, NV with an application area of 21,668 acres, and a projected output of 400 MW.	Proposed
Energy and Mining	Lander Co, Nevada	Lonely Solar	This project is located 15 miles southwest of Austin, NV with an application area of 4,686 acres, and a projected output of 500 MW.	Proposed
Energy and Mining	Washoe Co, Nevada	Dodge Flat II Solar	This project is located 4 miles northwest of Fernley, NV with an application area of 917 acres.	Proposed
Livestock Grazing	Battle Mountain, Carson City, Elko, and Winnemucca Districts	Flexibility in Grazing Authorizations to Improve Lahontan Cutthroat Trout in Nevada	This project would modify grazing permits to create flexibility in livestock management to improve Lahontan cutthroat trout (*Oncorhynchus clarki henshawi*, LCT) habitat on BLM Nevada-administered grazing allotments. The project area includes 40 allotments administered through 43 permits, containing approximately 368 miles of occupied LCT stream habitat and approximately 875 acres of occupied LCT lake habitat in 4 Districts.	Proposed
Energy and Mining	Elko Co, Nevada	Tabor Flats Wind Test	This proposed project is 13 miles northwest of Wells, NV. No other information at this time.	Proposed
Lands and Realty	Lassen Co, California	Fourth Element 345 kV Transmission Line	Fourth Element is proposing to build a 345 kV transmission line to connect a wind energy generation facility to the power grid. The line would be 22 miles long, with 17.23 miles on BLM land.	Proposed
Vegetation	Washoe Co, Nevada	Dry Valley Rim Herbicide and Seeding	The BLM is treating 20,500 acres of the Dry Valley Rim with aerial herbicide with Imazapic and reseeding the area.	Ongoing
Montana, North Dakota, and South Dakota				
Land Use Plan	North Dakota	North Dakota Resource Management Plan (RMP) Revision	The North Dakota Bureau of Land Management (BLM) is revising its 32-year old Resource Management Plan (RMP) to provide goals, objectives, and direction for approximately 58,500 acres of BLM managed public lands and approximately 4.1 million acres of subsurface BLM managed federal mineral estate in North Dakota.	Proposed

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Energy and Mining	Montana	Miles City FO Resource Management Plan Supplemental EIS/Plan Amendment	BLM Montana/Dakotas has prepared a Supplemental EIS and Proposed Resource Management Plan Amendment due to a court order issued by the United States District Court of Montana (Western Organization of Resource Councils, et al. v. BLM; CV 4:20-CV00076-GF-BMM; 8/3/2022). Pursuant to the Order, the BLM completed a new coal screening and remedial NEPA analysis that considers no-leasing and limited coal leasing alternatives and discloses the public health impacts (both climate and non-climate) of burning fossil fuels (coal, oil, and gas) from the planning area. The Supplemental EIS and potential Resource Management Plan Amendment alternatives vary the amount of BLM-administered federal coal authorized to be available for leasing within the planning area.	Proposed
Lands and Realty	Montana, North Dakota	North Plains Connector Transmission Line	The North Plains Connector is a proposed 525 kilovolt high voltage direct current (HVDC) transmission line connecting the U.S. eastern and western electric grids in Montana and North Dakota. The North Plains Connector would be approximately 385 miles long, extending from an existing substation in Colstrip, Montana, to an existing substation in Center, North Dakota, and a new substation in Morton County, North Dakota. The application package is currrently under review.	Proposed
Energy and Mining	Montana	Denbury Carbon Solutions, LLC, Deep Permanent CO2 Geologic Sequestration Project	The application involves approximately 100,190 acres of BLM-administered lands. The project includes access roads, well pads for 15 underground injection wells (12 on BLM, 3 on State), powerlines, substation, main bulk line, flowlines, temporary use areas, underground pore space, and two pump stations. It is estimated that over a 20-year injection time period the project area has a potential storage of approximately 409.5 million metric tons of CO2 on federal land that CO2 would be injected by the 15 proposed wells over a 20-year period. This project (if approved) when fully operational would offset greenhouse gas emissions. This would be responsive to the US 2050 net-zero goal outlined in EO 14008.	Proposed

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Oregon				
Land Use Plan	Oregon	Southeast Oregon RMP Amendment	On June 16th, 2023, the BLM published in the Federal Register a Notice of Availability the Southeastern Oregon Proposed Resource Management Plan Amendment (PRMPA) and Final Environmental Impact Statement (FEIS) for the Southeastern Oregon planning area of the Vale District. This planning process proposes to amend the long-term management of the Southeastern Oregon planning area. The planning area encompasses approximately 4.6 million acres for the Malheur Field Office of the Vale District BLM. The Proposed RMP Amendment would prioritize protection of thirty-three areas (approx. 420,000 acres found by BLM to possess wilderness characteristics (outside of existing Wilderness Study Areas). Management of protected areas would emphasize maintenance and/or enhancement of the wilderness resource. In addition, the amendment would designate approximately 320,000 acres that are currently Open to cross-country off-highway vehicle (OHV) use as Limited to existing roads and primitive routes. Also addressed are rangeland health, grazing permit relinquishment and livestock grazing issues.	Ongoing
Land Use Plan	Oregon	Lakeview RMP Amendment	A Notice of Intent to prepare an EIS was published in the Federal Register. The Plan amendment will address the management of Lands with Wilderness Characteristics on about 1.65 million acres within the 3.2 million acre Lakeview planning area.	Ongoing
Vegetation and GRSG Habitat Management	Oregon	Northwest Malheur County Greater Sage-Grouse Habitat Restoration Project	Implementation started in 2017 and is ongoing. The BLM is using a combination of prescribed fire, silvicultural thinning, and herbicide and mechanical invasive species treatments that include western juniper removal, to maintain and restore habitat for GRSG and other sagebrush species in a 258,556-acre project area.	Ongoing
Energy and Mining	Oregon	Jindalee Hi-Tech Lithium Project	The Jindalee Hi-Tech Lithium Project is proposed lithium exploration using multiple bore holes. It encompasses 7,200-acres and would authorize 100 areas of disturbances from 267 exploration drill sites, the construction of 30.2 miles of a new access routes, and other temporary disturbances to store exploration activity equipment. Subsurface hydrological, geophysical, and geochemical data may be collected during the propose drilling activities.	Proposed
Utah				
Federal Resource Management / Land Use Plans	Utah	Grand Staircase-Escalante National Monument Resource Management Plan	Resource Management Plan revision for the Grand Staircase-Escalante National Monument in Kane and Garfield counties, Utah.	Ongoing

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Habitat Management	Utah	Utah Watershed Restoration Initiative	A partnership based program in Utah to improve high priority watersheds throughout the state.	Ongoing
Lands and Realty	Utah	Pine Valley Water Supply Project	Central Iron County Water Conservancy District proposes to develop and transport water from Pine Valley, southwest of Milford, Utah, to their existing system in central Iron County, Utah.	Proposed
Lands and Realty	Utah	Dingell Act – Emery County Land Exchange	Implementing an exchange of federal and non-federal land as directed by the Dingell Act. An agreement to initiate (ATI) an exchange was prepared in November 2021. The land exchange would include public and state lands located across up to 18 counties in Utah: Beaver, Carbon, Emery, Grand, Iron, Juab, Kane, Millard, Rich, San Juan, Sevier, Summit, Tooele, Uintah, Utah, Wasatch, Washington, and Wayne Counties. Under the land exchange, the Secretary of the Interior, acting through the BLM, would convey to the State of Utah School and Institutional Trust Lands Administration (SITLA) approximately 89,700 acres of federal lands or interests in land. In exchange for the BLM lands, SITLA would convey to the BLM approximately 116,000 acres of non-federal lands or interests therein. The SITLA parcels are located within newly created wilderness areas, the San Rafael Swell Recreation Area, the Green River Wild and Scenic Rivers (WSR) Corridor in Emery County, and the John Wesley Powell National Conservation Area (NCA) in Uintah County. Additional SITLA lands located within wilderness areas or NCAs in Washington County could be included in the land exchange if needed to equalize values.	Proposed
Wyoming				
Wildland Fires 2018-2022	Wyoming	BLM: Past – Acres burned on BLM administered land	Approximately 150,954 acres of HMA burned between 2018 and 2022. Post fire restoration and habitat treatments are being implemented, as described below, to diminish impacts of habitat lost to wildland fire.	Past
Fire Restoration (Emergency Stabilization and Rehabilitation)	Wyoming	BLM: Past and Present – Habitat restoration following wildland fires	0 acres of BLM-administered habitat are either currently being treated or scheduled to be treated according to specific prescriptions outlined in Emergency Stabilization and Burned Area Rehabilitation plans following wildfire.	Past/ongoing
Habitat Treatments	Wyoming	BLM: Past – Habitat improvement projects	Approximately 434,704 acres of Greater Sage-Grouse habitat were treated between 2018 and 2022 to maintain or improve conditions for Greater Sage-Grouse. Treatments included conifer removal, fuel breaks, invasive species removal and habitat protection/ restoration.	Past

Project Type	Project Location - State(s)	Project, Plan or Action	Description	Project Status[1]
Land Use and Realty (issued and pending) 2018-2022	Wyoming	BLM: Past Non-Renewable Energy Development ROWs Issued on BLM-Administered Public Land	BLM Wyoming issued approximately 2,428 non-renewable energy ROWs in the planning area during calendar years 2018-2022. This includes amendments and reauthorizations, which may not have resulted in new disturbance. For ROWs occurring in sage grouse habitat, effects were offset by the management prescriptions in the RMPs and ARMPA, and through the application of mitigation to conserve Greater sage-grouse and their habitats on non-federal lands in coordination with State and federal partners.	Past
—	Wyoming	BLM: Past Renewable Energy Development ROWs Issued on BLM-Administered Public Land	BLM Wyoming issued two renewable energy development ROWs in the planning area during calendar years 2018-2022 (one solar, one wind) and six renewable energy testing/monitoring ROWs (all wind). ROW authorizations conformed to the approved RMPs, including applicable Greater Sage-Grouse conservation measures, and were coordinated with State and federal partners to address effects from appurtenant project facilities and operations on non-federal lands.	Past
—	Wyoming	BLM: Pending Non-Renewable Energy Development ROWs	From this same period, there are approximately 469 non-renewable energy ROW applications pending review and analysis. No additional cumulative impacts are anticipated beyond those described.	Proposed
—	Wyoming	BLM: Pending Renewable Energy Development ROWs	There are nine renewable energy development ROW applications (four solar, five wind) and two renewable energy testing/monitoring ROW applications (both wind) pending review and analysis. No additional cumulative impacts are anticipated beyond those described.	Proposed
Oil and Gas	Wyoming	BLM: Past	BLM Wyoming has offered for lease approximately 2,123,417 acres; 1,748,733 acres of that total was leased from February 2019 to July 2023. Leases followed management prescriptions in the RMPs and ARMPA and stipulations apply as described in the leases according to HMA category.	Past
—	Wyoming	BLM: Pending	BLM Wyoming has a scheduled lease sale in each quarter of the year, as described in the Minerals Leasing Act (MLA).	Proposed
Locatable Mineral Projects	Wyoming	BLM: Past and Present	Between 2018-2022, the BLM has approved 27 new mines and/or expansions within the planning area (including non-habitat).	Past/ongoing
—	Wyoming	BLM: Pending	The BLM is currently reviewing 15 plans of operation for new mines and/or mine expansions. This number also includes 10 pending mine patents, which are in the process of being patented into private ownership.	Proposed
Leasable Mineral Projects (Coal)	Wyoming	BLM: Past	One coal lease modification was issued in 2018, totaling 450 acres. For lease modifications occurring in sage grouse habitat, effects were offset by the management prescriptions in the RMPs and ARMPA.	Past

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—	—	BLM: Pending	BLM Wyoming is currently reviewing two coal lease applications / modifications totaling 313 acres.	Proposed

[1] Project status definitions: Past: project is completed; Proposed: project is in the planning stages but has not yet been approved; Ongoing: project has been approved and is being implemented.