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Upper Snake East Travel Management Plan

Draft Environmental Assessment

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1 Introduction/Purpose and Need

2 1.1 Introduction

3 The Upper Snake East Travel Management Plan (TMP) is a comprehensive plan that proposes a network of
4 designated routes and trails for managing travel within the Upper Snake East Travel Management Area (East
5 TMA). See Map 1 below. It is comprehensive in that it addresses access for recreational, traditional, casual,
6 agricultural, commercial, and educational uses as well as access for resource management purposes. It also
7 considers all modes and conditions of travel on public lands, including typical highway vehicles (low-
8 clearance sedans and trucks), off-highway vehicles (OHVs), motorcycles, utility terrain vehicles (UTVs), all-
9 terrain vehicles (ATVs), snowmobiles, bicycles, e-bikes, equestrian, and foot travel.

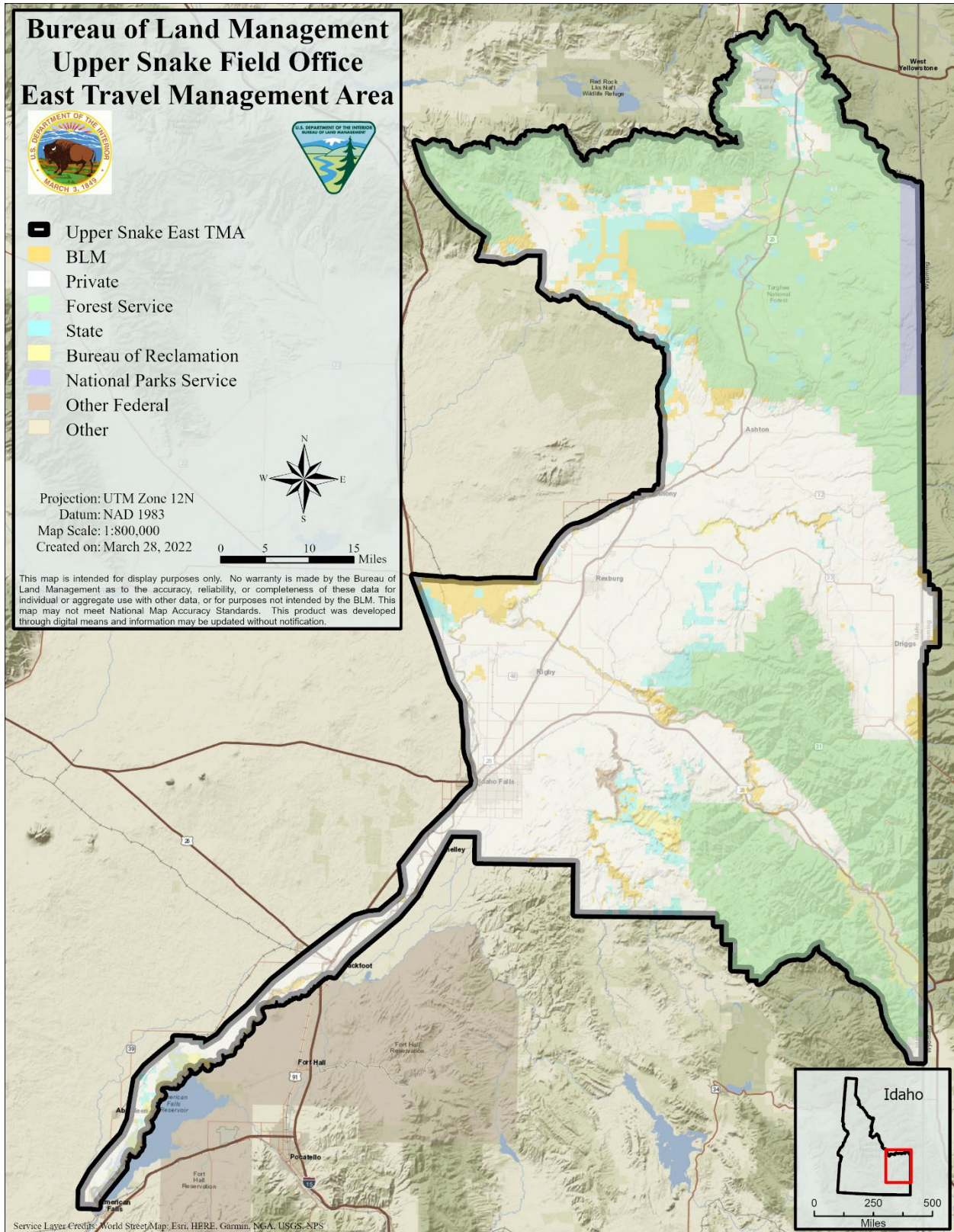
10 The TMP has been developed in careful consideration and evaluation of each existing inventoried travel route
11 within the TMA, and the potential impacts that these routes and their uses could have on the TMA's natural
12 and human environment. The potential impacts are disclosed in this Environmental Assessment (EA) which
13 has been prepared in compliance with the National Environmental Policy Act (NEPA) and will assist the
14 Bureau of Land Management (BLM) decision maker in determining whether any significant impacts could
15 result from implementing the TMP. Following a public review and the BLM making any necessary changes to
16 the EA, if there are no significant impacts anticipated the BLM will prepare a Finding of No Significant Impact
17 (FONSI) and a signed Decision Record (DR) will be issued. The DR documents the decision for the selected
18 route network that would be carried forward for this project. The TMP may then be implemented after all other
19 program-specific procedural requirements (i.e., applicable protest and appeal procedures) have been met.

20 1.2 Proposed Action

21 The BLM's Upper Snake Field Office (USFO) is proposing to designate a comprehensive travel route network
22 selected from 761.2 miles of evaluated travel routes on the BLM-managed lands within a 126,378-acre TMA
23 in Southeastern Idaho (see Map 1 below). The TMA encompasses the eastern side of the USFO and includes
24 lands managed by the BLM, U.S. Forest Service (USFS), State of Idaho, Bureau of Reclamation, National
25 Park Service (NPS), and private lands (see Project Area below). Although the TMA encompasses several land
26 jurisdictions, only those public lands managed by the BLM within the TMA are subject to the decisions
27 resulting from this EA.

28

1 **Map 1: USFO East Travel Management Area**



2

1 The TMP actions proposed and analyzed in this EA will be implemented, operated, and maintained in
2 accordance with its Implementation Guide, a standalone document available on this project's ePlanning page.
3 The travel network route designations chosen for this project will supersede any previous route designations
4 assigned in the TMA. The Proposed Action incorporates updated consideration and evaluation of all
5 inventoried routes in the TMA.

6 1.3 Purpose and Need

7 There is a need for the BLM's USFO to develop a plan for managing travel and transportation within the
8 TMA. Currently, in most of the TMA, motorized and non-motorized route use is limited to existing routes;
9 however, these existing routes have not been evaluated by USFO resource specialists to determine their long-
10 term purpose and need as part of an overall comprehensive travel management network, and their potential
11 effects on the area's natural and human environment. A portion of the TMA contains travel routes that have
12 been previously evaluated and designated: The Snake River Activity Plan, a joint plan between the BLM and
13 USFS, designated routes in the Snake River Area of Critical Environmental Concern (ACEC) in July 2008
14 (BLM 2008b).

15 Furthermore, the 2015 Idaho and Southwestern Montana Greater Sage-Grouse Approved Resource
16 Management Plan Amendment (2015 GRSG ARMPA) mandates that travel management plans be developed
17 for the USFO as described in the BLM Travel Management Handbook 8342.1, and according to the travel
18 management planning guidelines provided in Appendix L of the FEIS (MD TTM 3, Page 2-33). This
19 Amendment was issued to address threats to the conservation of Greater Sage-Grouse (GRSG) for the Great
20 Basin Region (including the GRSG sub-region of Idaho), and it amended the 1985 Medicine Lodge Resource
21 Management Plan (1985 Medicine Lodge RMP).

22 The purpose of this project is to develop a comprehensive TMP of designated travel routes on BLM-managed
23 lands within the TMA. The TMP will result in a network of routes that provides for a variety of public
24 recreation opportunities, addresses authorized and resource management access needs while providing for
25 enhanced resource protections and brings travel and transportation management in the TMA into conformance
26 with 43 CFR 8342.1, the 2015 GRSG ARMPA, as well as other applicable laws, regulations, and policies (see
27 Section 1.5 and Appendix C for more details on conformance). A companion Implementation Guide to the
28 TMP provides details for long-term operation and maintenance of the network, and for enhancements to user
29 navigation.

30 1.4 Background and TMA Overview

31 The TMA encompasses BLM, private, USFS, State of Idaho, Bureau of Reclamation, and NPS lands as shown
32 in Map 1 above and broken out in Table 1.1, below. The BLM-managed lands in the TMA total 126,378 acres
33 and include 761.2 miles of routes scattered throughout the eastern portion of the USFO. The purpose of
34 including these other lands and travel routes in the TMA is to ensure that the travel network is part of an
35 overall seamless route system that provides needed ingress and egress to BLM-managed lands within and
36 adjoining the TMA. This EA will result in decisions in the TMA for the BLM-managed lands only; however,
37 plans, actions, activities, and natural events on the adjacent jurisdictional lands may be included as part of the
38 cumulative effects analysis presented later in Chapter 3.

39

1 **Table 1-1: East TMA Acreage by Jurisdiction**

| Jurisdiction | Acres | % of TMA |
|-----------------------|------------------|-------------|
| BLM | 126,378 | 5% |
| Private Lands | 1,283,564 | 46% |
| U.S. Forest Service | 1,116,712 | 40% |
| State Lands | 139,709 | 5% |
| Bureau of Reclamation | 50,339 | 1.8% |
| National Park Service | 35,784 | 1.3% |
| Other | 25,380 | 0.9% |
| Total | 2,777,865 | 100% |

2 The TMA is in portions of Fremont, Teton, Bonneville, Madison, Jefferson, Bingham, Power, and Clark
 3 Counties and includes the communities of Saint Anthony, Driggs, Idaho Falls, and Rexburg. It is bounded on
 4 the north by the Montana border, on the east by Wyoming, on the south by the Pocatello FO and Fort Hall
 5 Indian Reservation, and on the west by I-15 and the Sand Creek Desert TMA. The southwestern portion the
 6 TMA also includes the Main Snake River corridor, terminating at the mouth of American Falls Reservoir. The
 7 northern part of the TMA is more mountainous and forested, with foothills that are partly wooded or covered
 8 with shrubs and grasses. The areas of the TMA adjacent to the Snake River are nearly level and contain
 9 cropland, pastureland, cities, suburbs, and industry.

10 The TMA provides valuable habitat for several special status plant species, including Ute ladies'-tresses
 11 (*Spiranthes diluvialis*), false mountain willow (*Salix pseudomonticola*), rush aster or boreal aster
 12 (*Symphyotrichum boreale*), and white spruce (*Picea glauca*). It also provides valuable habitat for special status
 13 wildlife species, including bald eagle (*Haliaeetus leucocephalus*), Canada lynx (*Lynx canadensis*), Columbian
 14 sharp-tailed grouse (*Tympanuchus passionless columbianus*), ferruginous hawk (*Buteo regalis*), Greater sage-
 15 grouse, hereafter GRSG (*Centrocercus urophasianus*), grizzly bear (*Ursus arctos horribilis*), and yellow-billed
 16 cuckoo (*Coccyzus americanus occidentalis*). The sagebrush communities in the TMA provide habitat for
 17 GRSG and wintering big game species. The TMA also provides habitat for Yellowstone cutthroat trout
 18 (*Oncorhynchus clarkii bouvieri*), which occur in numerous perennial streams and some lakes and reservoirs.

19 There are many special designation areas within the TMA—they include the Game Creek Research Natural
 20 Area (RNA), Henry's Lake Wilderness Study Area (WSA), Snake River Islands WSA, Henry's Lake Area of
 21 Environmental Concern (ACEC), Snake River ACEC, Pine Creek Island RNA, Reid Canal Island RNA,
 22 Squaw Creek Island RNA; South Fork, Teton River, Canyon Creek, Badger Creek, and Bitch Creek Eligible
 23 Wild and Scenic River (WSR) segments; Snake River Special Recreation Management Area (SRMA), North
 24 Menan Butte ACEC, North Menan Butte RNA, North Menan Butte National Natural Landmark (NNL), Sand
 25 Creek, Deer Park, Market Lake, and Tex Creek Wildlife Management Areas (WMA), Cress Creek National
 26 Recreation Trail (NRT), and the Nez Perce National Historic Trail (NHT). The Ft. Henry Historic Byway,
 27 Mesa Falls Scenic Byway, and Teton Scenic Byway extend through the TMA as well.

28 1.5 Conformance with Management Plans and Policies

29 The Proposed Action is in conformance with the following applicable land use management plan and
 30 amendment:

- 31 • 1981 Big Desert Management Framework Plan (MFP)

- 1 • 1985 Medicine Lodge RMP
- 2 • 2015 Idaho and Southwestern Montana Greater Sage-Grouse Approved Resource Management Plan
- 3 Amendment

4 The Proposed Action is consistent with current management direction and management opportunities for travel
 5 management in the TMA as shown below in Table 1.2.

6 Table 1-2: Travel Management Direction from the 2015 Greater Sage-Grouse ARMPA

| 2015 Greater Sage-Grouse ARMPA Decisions | |
|--|---|
| MD TTM 1 | Limit off-highway vehicle travel within Idaho BLM Field Offices to existing roads, primitive roads, and trails in areas where travel management planning has not been completed or is in progress. This excludes areas previously designated as open through a land use plan decision or currently under review for designation as open, currently being analyzed in ongoing RMP revision efforts in the Four Rivers, Jarbidge and Upper Snake Field Offices. |
| MD TTM 2 | In PHMA, IHMA, and GHMA, temporary closures will be considered in accordance with 43 CFR subpart 8364 (Closures and Restrictions); 43 CFR subpart 8351 (Designated National Area); 43 CFR subpart 6302 (Use of Wilderness Areas, Prohibited Acts, and Penalties); 43 CFR subpart 8341 (Conditions of Use) and other applicable law and policy. |
| MD TTM 3 | Develop Travel Management Plans for each Field Office as described in the BLM Travel Management Handbook 8342.1 and according to the travel management planning guidelines (Appendix L of FEIS). |
| MD TTM 4 | During subsequent travel management planning design and designate a travel system to minimize adverse effects on GRSG. Locate areas and trails to minimize disturbance of GRSG and/or to have a neutral or positive effect on GRSG habitat and populations. Give special attention to protect endangered or threatened species and their habitats. Allow for route upgrade, closure of existing routes, timing restrictions, seasonal closures, and creation of new routes to help protect habitat and meet user group needs, thereby reducing the potential for pioneering unauthorized routes. The emphasis of the comprehensive travel and transportation planning within PHMA will be placed on having a neutral or positive effect on GRSG habitat. Individual route designations will occur during subsequent travel management planning efforts. |
| MD TTM 5 | Conduct road construction, upgrades, and maintenance activities to avoid disturbance during the lekking season – see Appendix C. |

7
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1 **Table 1-3: Travel Management SOPs from the 1985 Medicine Lodge RMP**

| 1985 Medicine Lodge RMP Standard Operating Procedures (SOPs) | |
|--|--|
| <p style="text-align: center;">Recreation (Motorized Vehicle Use)</p> | <p>Travel planning, including the designation of areas as open, restricted and closed to motorized vehicle access, will remain a high priority for public land. Public land within areas identified as open to motorized vehicle use generally will remain available for such use without restrictions. Exceptions to this general rule may be authorized after consideration of the following criteria:</p> <ul style="list-style-type: none"> • the need to promote user enjoyment and minimize use conflicts; • the need to minimize damage to soil, watershed, vegetation, or other resource values; • the need to minimize harassment of wildlife or significant degradation of wildlife habitats; and • the need to promote user safety. <p>Public land within areas identified as restricted to motorized vehicle use generally will receive priority attention during travel planning. Specific roads, trails or portions of such areas may be closed seasonally or yearlong to all or specified types of motorized vehicle use.</p> <p>Public land within areas identified as closed to motorized vehicle use will be closed yearlong to all forms of motorized vehicle use except emergency or authorized vehicles. Exceptions may be allowed in Wilderness Study Areas based on application of the Interim Management Policy.</p> <p>Restrictions and closures will be established for specific roads, trails or areas only where problems have been identified. Areas not designated as restricted or closed will remain open for motorized vehicle use.</p> |

2 The Proposed Action and alternatives are also in conformance with policies prescribed in the BLM NEPA
 3 Handbook H-1790-1 as well as the following Federal regulations, BLM manuals and handbooks:

- 4 • Planning for Recreation and Visitor Services H-8320-1
- 5 • Travel and Transportation Handbook H-8342
- 6 • Travel and Transportation Manual MS-1626
- 7 • 40 CFR (Parts 1500-1508)
- 8 • 43 CFR 8342.1 Designation Criteria

9 **1.5.1.1 TMP Route Inventory and Evaluation**

10 Existing travel routes on BLM public lands within the TMA were inventoried starting in 2006, and
 11 subsequently evaluated by the USFO IDT. The IDT rigorously reviewed and evaluated every route in the
 12 baseline inventory and in doing so applied and documented compliance with the designation criteria set forth
 13 at 43 CFR 8342.1. The results of the route evaluations are documented in the route reports, which are
 14 described in detail in Appendix F. During route evaluations, the BLM IDT:

- 15 • Identified the purpose and need of each route. The IDT identified and evaluated whether, and to what
 16 extent, each route currently or historically has received motorized and non-motorized use and provides

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1 access, connectivity, and/or recreational outcomes. This included documentation and consideration of
2 known authorized uses/valid existing rights, user conflicts, whether and to what extent the route
3 provide access to land ownerships, facilities, campsites, points of interest (e.g., overlooks or natural
4 and historic features), and whether there are multiple routes leading to the same location or providing
5 a similar experience.

- 6 • Verified the character and use level of the route.
- 7 • Identified the users of the route.
- 8 • Identified the resources present on or near the route and the potential for impacts to those resources.
- 9 • Applied and documented the designation criteria set forth at 43 CFR 8342.1 to determine how
10 resource and user conflicts could be minimized (limit the degree or magnitude of the action (BLM MS
11 1626)) through appropriate OHV designation.
- 12 • Proposed route-specific OHV designations (open, limited, or closed) under each action alternative
13 based on the individual route network alternative's theme(s) and documented the rationale for that
14 proposal including how the designation would minimize damage to affected soils, watershed,
15 vegetation, and or other resources. As necessary, additional management (e.g., monitoring) was
16 assigned to routes as part of their individual proposed designations to minimize resource and user
17 conflicts in accordance with 43 CFR 8342.1. Details on these management assignments are contained
18 in the route reports (Appendix F).

2 Alternatives

2.1 Alternative Development

A range of reasonable Alternatives to the Proposed Action, each of which meets the Purpose and Need described in Chapter 1, Section 1.3, were developed from preliminary issues and concerns raised from internal and external scoping.

2.1.1.1 Travel Route Designations

A travel route is formally assigned a designation specifying a mode of travel or use as part of a travel management network decision, thereby becoming a designated route. Preliminary designations for alternative networks were assigned as part of the Route Evaluation process reflecting on-the-ground conditions in an IDT setting and captured by the best available GIS data for the TMP.

In tables throughout this EA, proposed travel route designations are broken out under the BLM's comprehensive travel designation categories. The tables also correlate the designations to broader public OHV motorized designations to enable the reader to more easily compare differences in public OHV access opportunities between the route network alternatives. In some cases, some form of management (e.g., monitoring) was assigned to routes as part of their individual designations, and details on such management can be found in the route reports (Appendix F). For the East TMP project, the public OHV designation for any given route falls into one of the following categories:

- OHV-Open – Open year-round to all motorized vehicle travel.
- OHV-Limited – Public motorized vehicle use limited to specified vehicle type, width, mode of travel (e.g., motorized vs non-motorized) or season of use. This category also includes routes that are limited to authorized or administrative use only and may provide access to communication sites, grazing facilities, wildlife water developments, etc.
- OHV-Closed – Route not available for public motorized vehicle use.

Regardless of travel route designations, people can walk or ride horses anywhere on TMA BLM-managed lands (on routes or cross-country) unless there's a specific exclusion stating otherwise; however, mountain bike and e-bike use is limited to designated route travel.

As the need arises, and in accordance with applicable regulations, any route (including those that are OHV-Closed) could be made available to authorized or administrative uses.

2.1.2 Scoping

External scoping for travel management planning began in conjunction with public involvement for the 2009 Analysis of Management Situation (AMS). The Public Scoping Report (BLM 2008b) summarized several public comments related to travel management in Issue No. 7: "How will motorized, non-motorized, and mechanized travel be managed to provide commodity, amenity, and recreation opportunities, as well as to protect natural resources?" Public scoping also occurred in conjunction with the route inventory and evaluation process in 2016. This scoping included a public meeting held in Driggs and another in Rigby.

Internal scoping occurred in early 2016 as part of the route evaluation process. Interviews conducted with USFO resource staff at that time included queries about what their primary issues as well as the public's

1 primary issues related to each resource or resource use. For example, the interview with USFO wildlife staff
 2 yielded the following issues:

- 3 • The FO wildlife staff’s most important wildlife issues:
 - 4 ○ Habitat loss/fragmentation/degradation and disturbance of animals from roads and traffic
 - 5 (recreation and administrative).
 - 6 ○ Potential for various recreation activities to disturb/harass Greater sage-grouse and sharp-
 - 7 tailed grouse leks, nesting raptors and/or bat roosts and migratory birds.
 - 8 ○ Use of seasonally closed routes during closure, disturbing/harassing big game species.
 - 9 ○ Concern for non-motorized trail proliferation in Cottonwood corridor and/or Yellow-billed
 - 10 cuckoo habitat that are closed to motorized use.
- 11 • The public’s most important wildlife issues:
 - 12 ○ Too many routes (density) may affect viability of wildlife.
 - 13 ○ Benefits of having motorized/non-motorized access for viewing/photographing, hunting big
 - 14 game, small game, upland species; trapping.
 - 15 ○ Loss of access to engage in the above-noted activities; game retrieval.
 - 16 ○ Wildlife habitat condition and the benefits that follow from healthy habitat conditions, i.e.,
 - 17 good fish and wildlife habitat provides hunting/fishing/wildlife viewing opportunities.

18 While many preliminary issues related to the Proposed Action and alternatives were identified through
 19 internal and external scoping, not all issues warrant analysis in this EA. Issues that are brought forward for
 20 detailed analysis are based on the BLM NEPA Handbook H-1790-1.

- 21 • From the preliminary issues identified through internal and external scoping the IDT developed two
 22 issues that were brought forward for analysis. These issues are presented below in Table 2-1 also
 23 identified resources and resource use topics relevant to the issues that could be impacted by
 24 implementation of any of the management plan alternatives. The resource/use topics help organize and
 25 refine discussions of the affected environment and environmental effects in Chapter 3.

26 **Table 2-1: East TMP Issues Analyzed in Detail**

| |
|---|
| 1. POTENTIAL IMPACTS ON THE TMA’S NATURAL AND HUMAN ENVIRONMENT |
| SPECIFICALLY: |
| • How would the designated travel route network impact soils, native vegetation and invasive plants/noxious weeds, and special status plants in the TMA? |
| • How would the designated travel route network impact aquatic resources in the TMA? |
| • How would the designated travel route network impact special status wildlife in the TMA? |
| • How would the designated travel route network impact general wildlife and migratory birds, including raptors, in the TMA? |
| • How would the designated travel route network impact cultural resources in the TMA? |
| • How would the designated travel route network impact special designation areas (e.g., ACECs, RNAs, WSAs, WSRs) in the TMA? |
| • How would the designated travel route network impact visual resources in the TMA? |
| 2. PROVIDING FOR RECREATION OPPORTUNITIES AND EXPERIENCES WHILE REDUCING CONFLICTS BETWEEN RECREATION USES AND AUTHORIZED USES |
| SPECIFICALLY: |

- How would the designated travel route network impact **recreation opportunities and experiences**?
- How would the designated travel route network impact other **authorized uses** (e.g., **livestock grazing, geology/minerals, energy production, rights-of-ways**)

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A full list of resources, resource uses, and social and economic values that were considered by the interdisciplinary team (IDT) as potentially impacted in the TMA can be found in the Interdisciplinary Team Checklist Table in Appendix E. This table includes rationale explaining why particular resource topics are included or omitted for detailed analysis.

2.1.3 The Alternatives

A BLM IDT evaluated all travel routes considered for designation in the Upper Snake East TMA and created a preliminary range of alternative travel networks. Reasonable alternatives are those that “are *practical or feasible* from the technical and economic standpoint and using common sense, rather than simply *desirable*. . .” (BLM 2008a). Each action alternative meets the purpose and need and responds to the issues described in section 2.1.1.

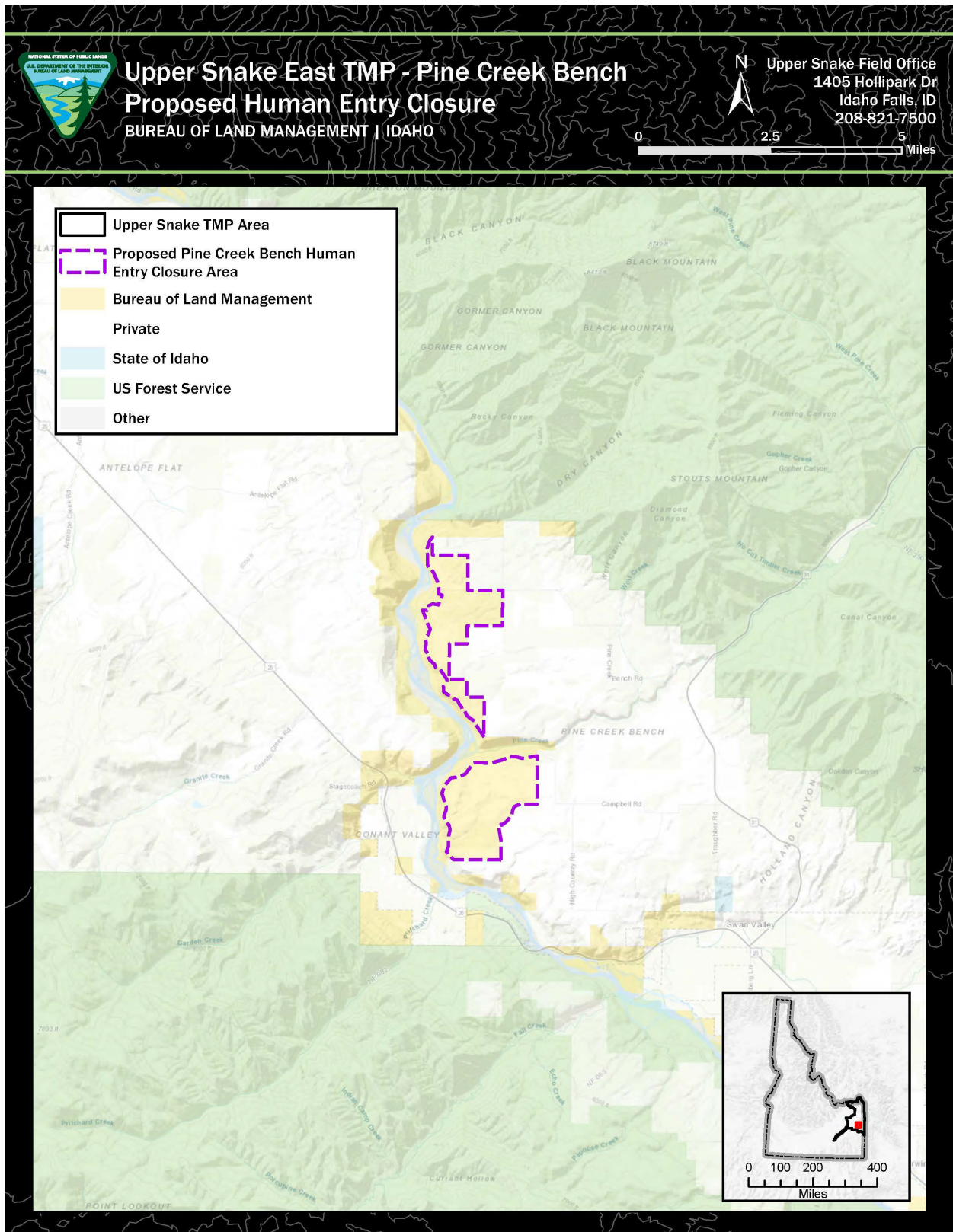
- **Alternative Themes:** The alternatives in Table 2-3 below, were developed as themes, reflecting issues that emerged through internal and external scoping. The themes are as follows:
- **Alternative A:** Alternative A represents no action/continuation of current management for travel on the BLM-managed lands within the TMA. This alternative serves as the baseline against which potential effects from any of the action alternatives B-D can be compared.
- **Alternative B:** Alternative B provides for lower levels of motorized use opportunities while emphasizing more natural and cultural resource protections than Alternatives C or D.
- **Alternative C:** Alternative C represents a variety of route designations which resolve resource and access needs in a blended manner while accommodating a wider variety of the BLM’s programs and priorities than Alternative B. This alternative also includes seasonal human entry closures for three locations where no entry is allowed in these areas including motorized and non-motorized activities (see Table 2-2, Figure 2-1, Figure 2-2, and Figure 2-3) and two closure areas where BLM restricts mode of travel (Table 2-3) to reduce conflict between big game and waterfowl.

Table 2-2: Proposed Human Closure Areas

| Location | Closure Date ¹ | Purpose | Acres |
|------------------|----------------------------|----------|-------|
| Pine Creek Bench | Jan 1st to Sunrise May 1st | Big Game | 1,647 |
| Stinking Springs | Dec 1st to Sunrise May 1st | Big Game | 3,848 |
| Teton River | Dec 1st to Sunrise May 1st | Big Game | 3,174 |

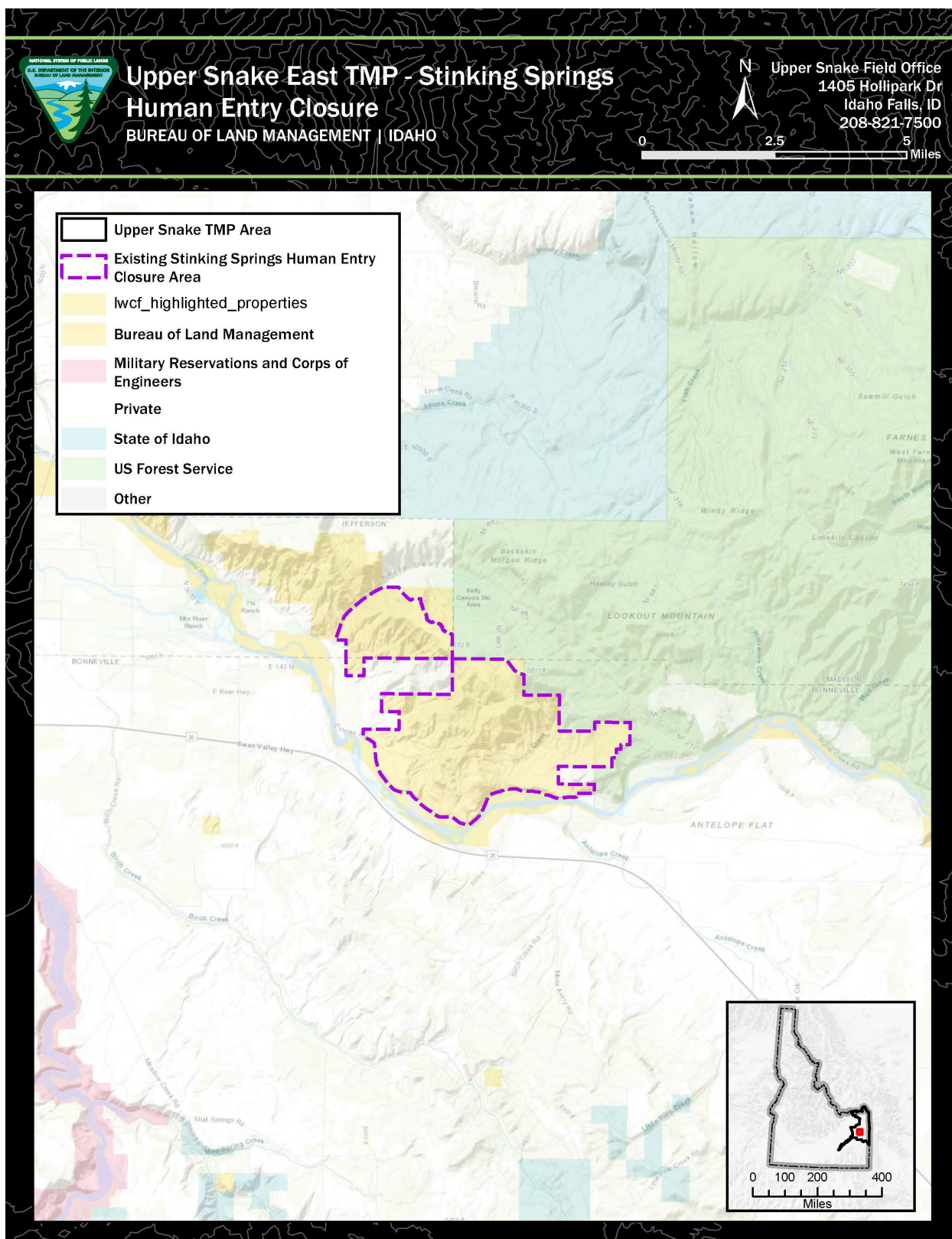
¹ Closure dates may change depending on winter severity in coordination with Idaho Department of Fish and Game

1 Figure 2-1: Alternative C Human Closure- Pine Creek Bench



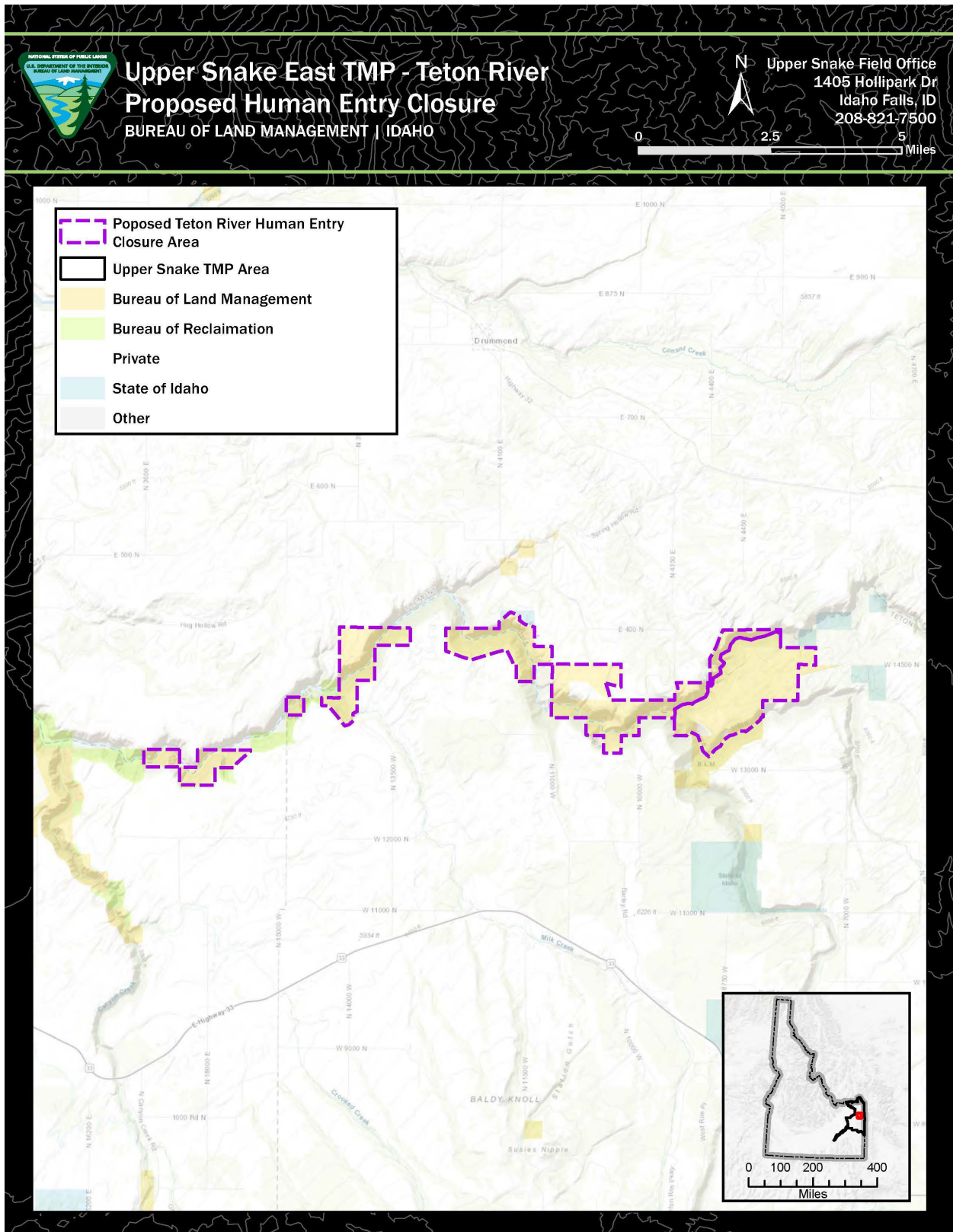
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1 Figure 2-2: Alternative C Human Closure Stinking Springs



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1 Figure 2-3: Alternative C Human Closure-Teton River



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1 **Table 2-3: Alternative C Seasonal Restrictions for Modes of Travel**

| Location | Closure Date ¹ | Purpose | Restriction |
|----------------------------|----------------------------|-----------|---|
| Deer Park | Feb 1st to Mar 15th | Waterfowl | No cross-country non-motorized and motorized travel, except on designated routes. |
| Teton Basin east of Victor | Dec 1st to Sunrise May 1st | Big Game | No cross-country motorized travel except on designated routes. |

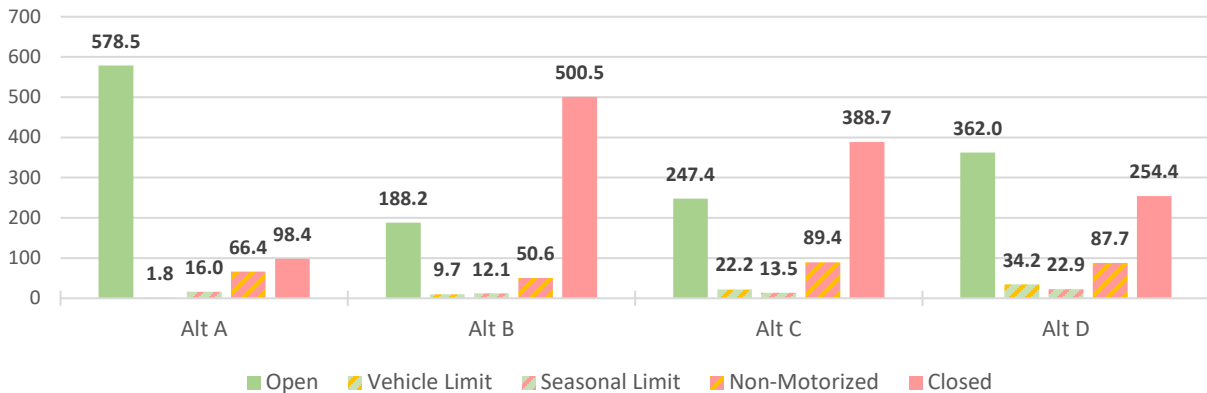
2 • ¹ Closure dates may change depending on winter severity in coordination with Idaho Department of Fish and Game

- 3 • **Alternative D:** Alternative D emphasizes an expanded range of travel route use opportunities as
 4 compared to Alternatives B and C while still providing required protections for natural and cultural
 5 resources.

6 The IDT evaluated existing travel routes on BLM public lands within the TMA during several formal route
 7 evaluation sessions held between 2016 and 2022, creating a preliminary range of alternative travel route
 8 networks. The evaluation and development of each alternative network was informed by the designation
 9 criteria at 43 CFR 8342.1, the issues identified through internal and external scoping, the 2015 GRSG
 10 ARMPA, management opportunities and consideration in the 2009 AMS, and the 1985 Medicine Lodge RMP.
 11 The holistic analysis of these evaluated routes, through their organization in action alternatives, is the crucial
 12 step to informing a decision on what proposed route designations become the travel network adopted in the
 13 TMP.

14 Each of the action alternative networks B-D displayed below in Figure 2.1 meets the purpose and need,
 15 conforms to the management direction and policies noted in Section 1.5, and responds to the issues in Table
 16 2.2.

17 **Figure 2-4: Miles of Evaluated Routes in the TMA by Designation and Alternative**



18
 19 **2.1.3.1 Acres of Disturbance from Proposed Construction**

20 Each of the action alternatives propose the construction of new routes in the TMA. Table 2.3, below, shows the
 21 acres of disturbance overall for the construction of new routes proposed under each action alternative. The
 22 disturbance from the proposed new construction is disclosed in effects analysis where appropriate throughout
 23 Chapter 3.

24 Acres of short-term disturbance from construction of proposed new routes are based on average disturbance
 25 width of a given route type multiplied by the total length for the specific route type (i.e., primitive road or
 26 single-track trail). Estimated construction disturbance widths for new travel route corridors for specific route
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1 types during the first two years following construction includes the route travel width plus an additional
 2 allowance on either side of the route to account for backslope and fill slope disturbance. Estimated
 3 construction width for new routes are as follows:

- 4 • Road width disturbance = travel width of 10 feet + average slope disturbance of 4 feet.
- 5 • Single-track route width disturbance = travel width of 2 feet + slope disturbance of 4 feet.
- 6 • Acres of long-term disturbance from construction of proposed new routes are based on average travel
 7 width of a given route type multiplied by the total length for the specific route type (i.e., primitive
 8 road or single-track trail).

9 **Table 2-4: Acres of Disturbance from Proposed Construction**

| Acres of Disturbance | Designation | Alt B Short-Term | Alt B Long-Term | Alt C Short-Term | Alt C Long-Term | Alt D Short-Term | Alt D Long-Term |
|----------------------|--|------------------|-----------------|------------------|-----------------|------------------|-----------------|
| | Open to all use (OHV-Open) | - | - | - | 0.5 | 0.5 | 1.7 |
| | Limited by seasonal restrictions (OHV-Limited) | - | 0.1 | 0.1 | 0.1 | 0.1 | - |
| | Limited to authorized users (OHV-Closed) | - | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 |
| | Limited to Ebikes & Non-Motorized use (OHV-Closed) | - | - | - | 0.7 | 0.7 | 0.7 |
| | Limited to non-motorized use (OHV-Closed) | - | 2.7 | 2.7 | 21.2 | 21.2 | 25.1 |
| | Unavailable (OHV-Closed) | 27.6 | 24.6 | -3.0 | 5.0 | -22.6 | - |

10 **2.1.4 R.S. 2477 Assertions**

11 The State of Idaho and counties may have rights to existing roads or routes within the TMA pursuant to
 12 Revised Statute (R.S.) 2477, Act of July 26, 1866, 14 Stat. 253, codified at 43 U.S.C. § 932. This travel
 13 planning effort and resulting TMP is not intended to provide any evidence bearing on or to address the validity
 14 of any asserted R.S. 2477 right-of-way and does not adjudicate, analyze, or otherwise determine the validity of
 15 any asserted right-of-way. R.S. 2477 assertions are validated (or invalidated) through a process that is entirely
 16 separate from BLM travel planning efforts. Consequently, this planning effort considers no R.S. 2477
 17 assertions or evidence and has no effect on any legal rights relating to asserted R.S. 2477 rights-of-way. At
 18 such time as administrative or judicial determinations are made in regard to asserted R.S. 2477 rights-of-way,
 19 the BLM will adjust its TMP accordingly.

20 **2.2 Implementation Actions Common to all Alternatives**

21 **2.2.1 Overview**

22 The implementation actions discussed below are common to all the TMP alternatives described above. These
 23 routine actions are described in more detail in the TMP Implementation Guide. Potential effects from routine
 24 actions are discussed in Chapter 3. Should an alternative propose new route development, the BLM identifies
 25 the new route’s corridor in this environmental assessment. However, site specific conditions, such as
 26 topography, will dictate the exact location of the route and may slightly differ from the corridor shown in this
 27 EA.

1 2.2.2 Sign Installation

2 The TMA travel route network may be signed to identify and direct users to facilities and routes, and inform
3 users of locations, special conditions, and limitations; however, regardless of signing, travel route designations
4 will take effect in conjunction with the approved TMP. Sign installations result in ground disturbance (post
5 hole excavation, minor grading) and may involve minor vegetation removal. Sign placement would be done in
6 previously disturbed areas where possible but may require disturbance in previously undisturbed areas along
7 designated travel routes. Since such sign installation is usually Categorical Excluded (43 CFR 46.210(G)(2)),
8 effects in these undisturbed areas along designated routes would not be significant.

9 2.2.3 Routine Facility and Route Maintenance

10 Routine maintenance of facilities and routes includes upkeep, repairs, blading, and cleaning of drainage
11 structures (rolling dips and culverts on roads and trails).

12 2.2.4 Closure and Reclamation of Travel Routes

13 Travel routes may be physically closed and reclaimed through a variety of methods as described below:

- 14 • Closed routes may be allowed to revegetate naturally.
- 15 • Signs or barriers (e.g., boulders, fences and gates, berms, vegetation) may be placed/installed at
16 entrances to physically close routes.
- 17 • Routes may be physically ripped or scarified using heavy equipment and surfaces revegetated through
18 seeding or planting.
- 19 • Some routes may be graded and recontoured using heavy equipment to restore natural slope and blend
20 in with adjacent ground contours.
- 21 • In sandy areas and washes, tracks may be raked out so there is no evidence of vehicle use.
- 22 • As with maintenance activities, ground disturbance may extend into areas not previously disturbed.
- 23 • Mulching may be used to obscure closed routes or protect disturbed surfaces.

24 2.2.5 Best Management Practices and Standard Operating Procedures

25 Implementation activities with all alternatives are subject to Best Management Practices (BMPs) and Standard
26 Operating Procedures (SOPs). A list of BMPs and SOPs can be found in the Implementation Guide.

27

3 Affected Environment and Environmental Effects

3.1 Overview

3.1.1 Introduction and General Setting

This chapter describes the current resource conditions and trends of travel route and recreational use relevant to the scoping issues presented in section 2.1.1. It also analyzes the effects that implementation of any of the alternative route networks would have on the TMA's resources, resource uses, and social and economic values. The affected environment is described for each resource or resource use topic and is the same for all alternatives. For an overview of the TMA boundaries, see Section 1.4. Appendix E lists all relevant resources/uses for which issues are analyzed and provides rationales for resources/uses not analyzed.

Implementation-level decisions associated with designating routes or applying other route use limitations must comply with 43 CFR 8342.1. This analysis and the associated route evaluation reports seek to demonstrate this compliance by describing measures taken to minimize travel and related recreational use damage, harassment, disruption, and conflict with various resources. The minimization of these impacts means to limit the degree or magnitude of the action and its implementation (BLM MS 1626).

3.1.2 Effects Analysis Definitions

The analysis that follows—unless otherwise noted—focuses on the issues from scoping and concerns associated with potential effects on relevant TMA resources and resource uses. For definitions of “effects,” see the BLM NEPA Handbook H-1790-1 (BLM 2008a). Analyzing these effects provides a useful comparison between each of the alternative travel network's proposed designations.

In accordance with 40 CFR 1508.1(g),

Effects or impacts means changes to the human environment from the proposed action or alternatives that are reasonably foreseeable and include the following:

Direct effects, which are caused by the action and occur at the same time and place.

Indirect effects, which are caused by the action and are later in time or farther removed in distance but are still reasonably foreseeable. Indirect effects may include growth inducing effects and other effects related to induced changes in the pattern of land use, population density or growth rate, and related effects on air and water and other natural systems, including ecosystems.

Cumulative effects, which are effects on the environment that result from the incremental effects of the action when added to the effects of other past, present, and reasonably foreseeable actions regardless of what agency (Federal or non-Federal) or person undertakes such other actions. Cumulative effects can result from individually minor but collectively significant actions taking place over a period of time. Effects include ecological (such as the effects on natural resources and on the components, structures, and functioning of affected ecosystems), aesthetic, historic, cultural, economic, social, or health, whether direct, indirect, or cumulative. Effects may also include those resulting from actions which may have both beneficial and detrimental effects, even if on balance the agency believes that the effects will be beneficial.

In addition, and in accordance with 40 CFR 1508.1(s) and BLM Manual MS-1794:

- 1 • Mitigation means measures that avoid, minimize, or compensate for effects caused by a proposed
2 action or alternatives as described in an environmental document or record of decision and that have a
3 nexus to those effects. While NEPA requires consideration of mitigation, it does not mandate the form
4 or adoption of any mitigation. Mitigation includes:
5 1) Avoiding the impact altogether by not taking a certain action or parts of an action.
6 2) Minimizing impacts by limiting the degree or magnitude of the action and its implementation.
7 3) Rectifying the impact by repairing, rehabilitating, or restoring the affected environment.
8 4) Reducing or eliminating the impact over time by preservation and maintenance operations during
9 the life of the action.
10 5) Compensating for the impact by replacing or providing substitute resources or environments
11 • Monitoring: Documentation of TMP effectiveness.

12 Direct, indirect, and cumulative effects are disclosed in this chapter. Additional details on design features,
13 mitigation, and monitoring may be found in Sections 4, 5, and Appendix B of the TMP Implementation Guide,
14 and in the individual route reports.

15 3.1.3 General Assumptions

16 The following general assumptions are applied in analysis of each of the alternative travel route network's
17 potential effects on the TMA environment:

- 18 • "Evaluated routes" refers to the routes within the TMA subject to the evaluation process that were
19 considered for designation as a part of this TMP process.
- 20 • Year-round OHV and non-motorized recreation is expected to increase in and around the TMA
21 independent of the network alternative selected for the TMP.
- 22 • Snowmobiles are OHVs, so OHV route designations in the Upper Snake East TMP apply to
23 snowmobile use as well.
- 24 • For Alternatives B-D, the designation of a comprehensive route network that accounts for all
25 evaluated routes is anticipated to provide enhanced predictability and clarity for users along with a
26 variety of OHV opportunities and experiences that could help reduce user inclination to travel off
27 OHV-Open and OHV-Limited routes (GAO 2009).
- 28 • Under Alternatives B-D, maintenance, mitigation, and monitoring of routes will be done in
29 accordance with the TMP Implementation Guide. Details and examples of monitoring, best
30 management practices (BMPs), and mitigation may be found in Sections 3, 4, 5, and 6 and Appendix
31 B of the TMP Implementation Guide.
- 32 • Implementation of the Alternatives B-D referenced in this document and detailed in the TMP
33 Implementation Guide is subject to available funding and resources. For the purposes of this EA, it is
34 assumed that funding and resources would be available for implementation of the TMP.
- 35 • Impacts from illegal OHV-related activities are not addressed in the analysis.
- 36 • Routes that are designated as limited to non-motorized use and OHV-Closed would become part of the
37 TMA's overall travel network. Other travel routes designated as OHV-Closed would be earmarked for
38 decommissioning and reclamation and allowed to reclaim naturally or be actively reclaimed, unless
39 they are to remain available for administrative or authorized uses (e.g., access to range facilities or
40 communication sites).

41 3.1.4 General Effects Analysis Methodology

42 In this chapter, the following methodologies are applied to analyze the alternative travel networks' potential
43 effects on resource/use topics:

- 1 • GIS data and resource/use data collected during route evaluation are the basis for disclosing the
2 alternative route networks' potential effects on issues associated with particular resource/use topics.
3 Data in tables indicate how many miles and/or numbers of routes of a particular designation under
4 each alternative are likely to affect resources or uses associated with certain issues and impact analysis
5 questions. These tables are used to compare effects of the alternatives. In many cases, the potential for
6 effects is estimated by comparing percentages or miles of routes of a designation with the total miles
7 or numbers of routes associated with a particular resource or resource use. In other cases, acres are
8 used to compare the amount of habitat affected. Tables throughout Chapter 3 present these
9 comparisons of potential effects. Routes and miles are considered associated with a resource when
10 they cross over it (e.g., species habitat polygons), are within a defined proximity distance of it (e.g.,
11 within ½ mile), or are otherwise noted as being associated in route reports. Proximity distances are
12 based on the professional knowledge of the USFO resource specialists unless otherwise stated.
- 13 • During route evaluations, the field office IDT considered route locations and characteristics, and
14 explored alternative designations for avoiding, minimizing, or mitigating project effects to minimize
15 damage, disruption, and conflict with various resources and among users.
- 16 • During route evaluation, mitigation measures were considered and documented where appropriate and
17 can be found on the route reports for routes with the designations of "Open with management" or
18 "Limited with management." Mitigation measures may include such actions as gate installation,
19 parking area creation, or monitoring for cultural resource sites or recreational use. Mitigation
20 measures would help reduce the detrimental effects of the alternative travel networks on many of the
21 TMA's natural and cultural resources, and monitoring may be applied to evaluate mitigation
22 effectiveness and inform adaptive management.
- 23 • For some resource/use topics, specific methodologies were used to determine effects. These
24 methodologies are described in their respective resource/use sections.
- 25 • Mileages, percentages, acreages, and other quantities used in this analysis are approximate projections
26 for comparison and analytical purposes only; they do not always reflect exact measurements or precise
27 calculations. Table mileages and percentages may not total equally in some instances due to rounding.
- 28 • Although the following effects analyses are presented in the context of TMA-wide alternative travel
29 route networks, each individual route, including new routes that are proposed for construction, within
30 a given alternative network has been systematically and carefully evaluated to ensure that the
31 proposed designation will help to reduce OHV-related effects on the TMA's natural resources and
32 resource uses as well as use conflicts where they occur. Each individual route's potential to reduce
33 effects is documented in the route reports (Appendix F).
- 34 • Full rehabilitation of new disturbance resulting from construction of proposed new routes is
35 anticipated to take at least two growing seasons, following which long-term effects along the route
36 would occur.
- 37 ○ Acres of short-term disturbance from construction of proposed new routes are based on
38 average disturbance width of a given route type multiplied by the total length for the specific
39 route type (i.e., primitive road or single-track trail). Estimated construction disturbance
40 widths for new travel route corridors for specific route types during the first two years
41 following construction includes the route travel width plus an additional allowance on either
42 side of the route to account for backslope and fill slope disturbance. Estimated construction
43 width for new routes are as follows:
- 44 ■ Road width disturbance = travel width of 10 feet + average slope disturbance of 4
45 feet.
- 46 ■ Single-track route width disturbance = travel width of 2 feet + slope disturbance of 4
47 feet.

- Acres of long-term disturbance from construction of proposed new routes are based on average travel width of a given route type multiplied by the total length for the specific route type (i.e., primitive road or single-track trail).

3.2 Issue 1: Travel network effects on the TMA’s natural and human environment

3.2.1 Soils, Vegetation (Including Threatened, Endangered, and Sensitive Plants and Invasive and Non-Native Species), and Rangeland Health

How would the designated travel route network impact soils, native vegetation and invasive plants/noxious weeds, and special status plants in the TMA?

3.2.1.1 Affected Environment

3.2.1.1.1 Soil Resources

In general, TMA soils are deeper on level or rolling terrain and shallower on steeper slopes, and rock outcrops can be found on steeper slopes and gently sloping basalt lava flows. Erosion has occurred in localized areas of the TMA as a result of natural causes such as wind and water and human-influenced causes such as OHV use, livestock grazing, fire suppression activities, and mining activities. These factors have induced soil loss and gain and changes in productivity. Overall, less than 1% of BLM-administered public lands in the USFO do not meet Standard 1 (Watersheds) of the Idaho Standards for Rangeland Health. (BLM 2009)

Soils within the TMA vary based on topography, elevation, parent material, and time. Soils tend to be relatively stable because of the cool desert climate. Soils in much of the TMA are classified as mollisols, which are generally found in grasslands, shrub-steppe, mountain shrubland, and along riparian–wetland zones and support many vegetation classes. These soils are neutral to alkaline in pH (i.e., 7 or higher pH). Mollisols are found in a variety of precipitation zones, usually greater than 13 in. As a result of precipitation, organic matter accumulates and creates a relatively thick, dark, organic-rich surface. These soils are very productive in comparison to the other TMA soil types and are subject to water erosion and soil compaction when moist. A few relatively large areas in the central and northern portions of the TMA have soils classified as inceptisols, which are young soils that tend to exhibit thick, dark soil horizons on fairly stable mountain slopes. Montane inceptisols are extremely susceptible to water erosion in areas of sparse or no vegetation. The TMA also has soils classified as alfisols along some narrow stretches—particularly a large stretch in the northeast portion—at higher elevations that are cooler and receive more precipitation. Alfisols are acidic (i.e., lower than 7 pH), forested soils that support several vegetation classes. High leaching rates in these soils reduce surface organic matter and soil productivity, and alfisol surfaces are subject to water erosion and soil compaction when moist. The northeast portion of the TMA, east of Island Park, is predominantly comprised of andisols, which form mostly in volcanic-released material such as ash, pumice, cinders, and lava and support forest-type vegetation classes. These soils have a characteristic layer of volcanic ash or pumice, 14 in. to several feet thick, over buried soil layers. Andisols and andisol transitions to other soils are among the most productive of western–montane forest soils. (BLM 2009)

The TMA includes a substantial area of cool, high-elevation desert that supports many microbiotic soil crust (MSC) communities. MSCs are diverse and are formed by small living communities of lichen, cyanobacteria, algae, and moss and their by-products bound together by organic materials. These soil crusts stabilize the surface, protecting it from wind and water erosion. They aid infiltration of water by increasing surface roughness, and they reduce runoff and increase water storage for plants. In semiarid systems, microbiotic crusts can provide a significant amount of nitrogen for plant growth (BLM 2009). In areas where MSCs have been reduced, invasive species such as cheatgrass (*Bromus tectorum*) have gained a foothold in the native plant communities, increasing the threat of wildfire and habitat loss.

1 Within the TMA, most erodible soil areas on BLM lands are located southeast of Idaho Falls. A total of 100.3
 2 miles of evaluated routes within the TMA, 14% of the evaluated network, are in areas with erodible soils.
 3 Additionally, 64 routes in the TMA (9% of the evaluated routes) are associated with route proliferation issues.

4 **3.2.1.1.2 Native Vegetation, Invasive and Non-Native Species, and Rangeland Health**

5 Existing vegetative cover across BLM lands within the TMA vary from alpine and subalpine environments at
 6 higher elevations to plateaus and rolling plains at lower elevations. The TMA is primarily evergreen semi-
 7 desert shrubland with evergreen forest at some higher elevations. Sagebrush communities in the TMA are key
 8 to greater sage-grouse and winter range species, and native vegetation in the area provides forage for livestock
 9 grazing as well as habitat for wildlife and serves a major role in the hydrologic cycle as an interface between
 10 the area’s soils and the atmosphere. Standard 4 (Native Plant Communities) of the Idaho Standards for
 11 Rangeland Health and Guidelines for Livestock Grazing Management stipulates, “Healthy, productive, and
 12 diverse native animal habitat and populations of native plants are maintained or promoted as appropriate to soil
 13 type, climate, and landform to provide for proper nutrient cycling, hydrologic cycling, and energy flow” (BLM
 14 1997). Table 3.1, below, shows the miles of evaluated routes in the TMA’s six primary existing vegetation
 15 cover types, which together contain 92% of the evaluated route miles within the TMA.

16 **Table 3-1: Miles of Evaluated Routes in Native Plant Communities**

| Biome | BLM Acres | Miles of Evaluated Routes |
|--|-----------|---------------------------|
| Sagebrush Shrubland | 77,542 | 508.6 |
| Evergreen Montane Forest | 15,716 | 71.2 |
| Bedrock, Scree, Cliffs and Canyons | 9,944 | 47.2 |
| Deciduous Riparian Woodland | 4,686 | 27.3 |
| Mixed Evergreen Deciduous Montane Forest | 4,312 | 23.3 |
| Herbaceous Wetland | 2,615 | 21.6 |

17 The presence of noxious weeds and invasive species can be used as indicators of healthy ecosystems as their
 18 presence is often related to disturbances and loss of native species in those systems. A primary invasive species
 19 in the TMA is cheatgrass. Noxious weed species that are found in the area include leafy spurge, Russian
 20 knapweed, black henbane, musk thistle, and Canada thistle. OHV and recreation use are primary contributors
 21 to the spread of invasive species, which pose a significant threat to vegetation diversity. Encroachment of
 22 noxious and invasive species presents a problem both along river corridors as well in large areas of uplands
 23 and rangelands. Travel routes can create corridors where invasive species and noxious weeds can be
 24 introduced or spread throughout connecting routes. For more information on invasive vegetation and noxious
 25 weeds, see pages 2-55 through 2-66 of BLM 2009. Noxious weeds are also problematic in riparian areas. For
 26 more on travel-related effects for riparian resources, see Section 3.2.2. Within the TMA, 67.2 miles of
 27 evaluated routes on BLM lands are in areas with noxious weeds and invasive species.

28 **3.2.1.1.3 Special Status Plants**

29 The TMA contains one ESA-listed plant species:

- 30 • **Ute ladies’-tresses (*Spiranthes diluvialis*) – Threatened:** Ute ladies’-tresses, listed as threatened on
 31 January 17, 1992 (57 FR 2048), is a perennial orchid found in wetlands including along perennial
 32 streams and rivers, in groundwater-fed meadows, and along human-created wetland systems (Fertig et
 33 al. 2005). This species occurs exclusively in mesic soils and riparian areas. It is a conservation
 34 concern, but widespread; its range includes Colorado, Nevada, Utah, Idaho, Montana, Nebraska,
 35 Washington, Wyoming, and British Columbia. Its small size and scattered distribution make it
 36 vulnerable to the effects of habitat fragmentation and overall decline of suitable habitat (USFWS

1 1995). Threats include habitat loss, recreation-associated impacts, haying/mowing, livestock grazing,
2 hydrology change, vegetation succession, natural herbivory (e.g., by voles), loss of pollinators, and
3 drought (Fertig et al. 2005). Habitat for Ute ladies'-tresses includes sub-irrigated, alluvial soils along
4 streams and rivers and their floodplains, including abandoned river channels, wet meadows, and open
5 seepy areas (BLM 2009). Within the TMA, habitat for the species can be found along the Snake River
6 corridor.

7 The TMA contains the following Idaho BLM Sensitive plant species:

- 8 • **False mountain willow (*Salix pseudomonticola*) – BLM Type 3 (Range-wide or State-wide**
9 **Imperiled—Moderate Endangerment):** False mountain willow is a shrub whose associated habitat
10 includes mesic to moist fens, forests, and floodplains in mountains (BLM 2009, BLM 2019). This
11 species occurs on BLM lands in the Henry's Lake area.
- 12 • **Giant helleborine (*Epipactis gigantea*) – BLM Type 3 (Range-wide or State-wide Imperiled—**
13 **Moderate Endangerment):** Giant helleborine is an orchid that can be found in moist areas along
14 stream banks, lake margins, seeps, and warm calcareous springs (BLM 2009, BLM 2019). This
15 species occurs along the Snake River at locations north and east of Poplar.
- 16 • **Hoary Willow (*Salix candida*) – BLM Type 4 (Species of Concern):** Hoary willow is a species of
17 shrub that ranges from Labrador to Alaska and south to the Great Lakes states, South Dakota,
18 Colorado, and Idaho. Associated habitat includes bogs, marshes, seepage areas, and on anchored
19 floating mats at the edges of fens and ponds (BLM 2009, NSE 2022). This species occurs along the
20 east shore of Henry's Lake, and in the Ingalls Creek and Woods Creek areas.
- 21 • **Rush aster, boreal aster (*Symphyotrichum boreale*) – BLM Type 4 (Species of Concern):** Rush
22 aster is a long-lived perennial herb species whose range includes Canada and the northern United
23 States. Associated habitat for rush aster includes aquatic riparian areas (BLM 2009, BLM 2019). In
24 the TMA, locations include near the Henry's Lake and Driggs areas.
- 25 • **Vanilla sweet grass (*Hierochloe odorata*) – BLM Type 2 (Rangewide/Globally Imperiled**
26 **Species—High Endangerment):** Vanilla sweet grass is a native perennial grass that usually inhabits
27 moist ground on shores (fresh or brackish), meadows, and low prairies, at the edges of woods, bogs,
28 and marshes. Normally, it is not found in pure stands, rather it is found among other grasses and
29 shrubs in mid-successional communities (USDA-NRCS 2010). This species is found in the TMA
30 along the Snake River south of Swan Valley.
- 31 • **White spruce (*Picea glauca*) – BLM Type 4 (Species of Concern):** This species is widespread and
32 abundant across boreal North America. There are no known substantial threats to the species.
33 Associated habitat varies from swamps and riverbanks to mountain slopes (BLM 2009, BLM 2019,
34 NSE 2022). It is known to occur on BLM lands in the Henry's Lake area.
- 35 • **Yellow springbeauty (*Claytonia multiscapa* var. *flava*) – BLM Type 4 (Species of Concern):**
36 Yellow springbeauty is a small flowering herb that occurs in gently sloping sandy alluvium along the
37 northern shore of Henry's Lake in the transition zone between wet meadows and uplands (Flora of
38 North America 2020).
- 39 • **Yellowstone draba (*Draba incerta*) – BLM Type 2 (Rangewide/Globally Imperiled Species—**
40 **High Endangerment):** Yellowstone draba is a small plant with cushions of dark green, pointed
41 leaves, under short stems of bright yellow flowers that grows in gravelly areas and rock outcrops
42 (Flora of North America 2022). This species occurs in the vicinity of the Henry's Lake Mountains at
43 the northern end of the TMA.

1

Table 3-2: Miles of Evaluated Routes in or Proximate to Special Status Plant Habitats

| Species | Status | BLM Acres | Miles of Evaluated Routes |
|-----------------------|------------|-----------|---------------------------|
| Ute ladies'-tresses | Threatened | 117 | 0.6 |
| False mountain willow | BLM Type 3 | 343 | 1.7 |
| Giant helleborine | BLM Type 3 | 8 | 0.4 |
| Hoary willow | BLM Type 4 | 0 | 0.0 |
| Rush/Boreal aster | BLM Type 4 | 314 | 1.7 |
| Sweet grass | BLM Type 2 | 3 | 0.0 |
| White spruce | BLM Type 4 | 3 | 0.0 |
| Yellow springbeauty | BLM Type 4 | 0 | 0.0 |
| Yellowstone draba | BLM Type 2 | 586 | 2.3 |

2 3.2.1.2 Environmental Effects

3 3.2.1.2.1 Direct or Indirect Effects Common to All Alternatives

4 Effects on soils and native vegetation from travel and recreation activities such as camping, exploring, shed
5 hunting, hunting, OHV use, equestrian use, etc. are often adverse and are closely interrelated as adverse effects
6 on one of these resources can have a subsequent effect on the other (e.g., soil impacts can result vegetation
7 impacts and vice versa). OHV-related direct effects on soils can include compaction and rutting while indirect
8 effects include displacement and soil loss (i.e., erosion during runoff periods or high precipitation events).
9 There are primarily two types of disturbances that impact MSCs, natural occurrences and human-influenced.
10 These are not well defined, but at their extremes, wind and rain disturbance may be viewed as natural
11 disturbances. Human-influenced disturbance can result from OHV, hiking, or livestock trampling on crusts.
12 MSCs are susceptible to damage and destruction from surface-disturbing activity especially during their early
13 development. When the crust is churned under (i.e., creation of a trail or vehicle path) or buried, MSCs have
14 little chance of recovering the site once the top of the soil has been removed. As such, the condition of MSCs
15 reflects the level of physical disturbance in a given area (Belnap 1995).

16 Recreation and travel-related direct effects on native vegetation and plants include trampling, crushing, and
17 loss of vegetation. Dust from concentrated OHV use can cover nearby vegetation and result in reduced plant
18 vigor and increased plant mortality due to reduced photosynthetic capacity of leaves. Travel network
19 alternatives that close more miles to OHV travel would provide higher levels of protection to area vegetation
20 and plants from the reduction of OHV use and associated activities. Travel routes can also lead to the
21 introduction and spread of invasive plants and noxious weeds as vehicle tires and undercarriages can carry
22 plant seeds and serve as vectors. Resulting weed infestations can out-compete native vegetation for available
23 nutrients and disrupt proper ecosystem functions. However, certain types of travel route designations (e.g.,
24 OHV-Closed or OHV-Limited), by eliminating or limiting OHV (i.e., public motorized) travel, can limit or
25 reduce the spread of invasive and noxious plants. Travel routes also provide beneficial access for monitoring
26 and treatment of existing areas of invasive species and weeds.

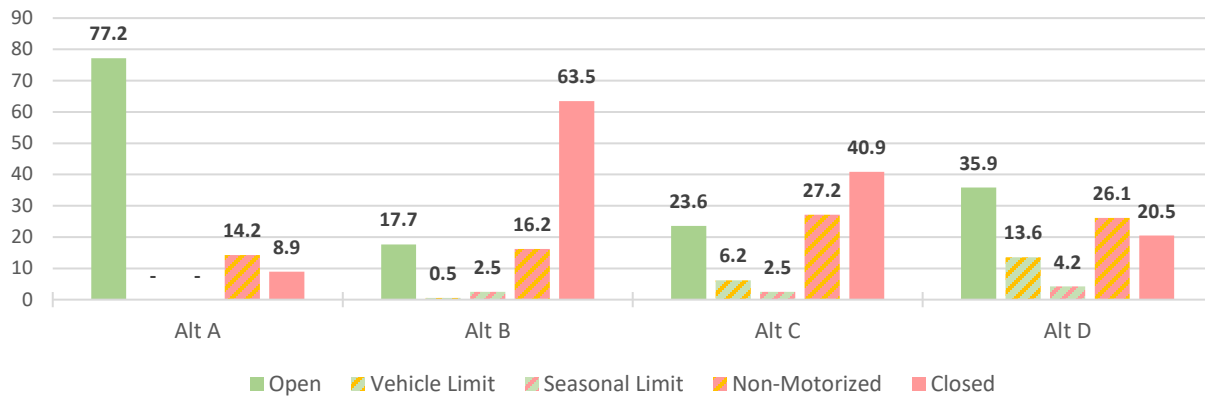
27 New routes and trails proposed for construction would add direct short-term (2-year) effects that include native
28 vegetation removal and associated soil disturbance as well as increased susceptibility to the spread and
29 establishment of noxious weeds and invasive species. The area of disturbance would decrease as vegetation is
30 established on backslope and fill-slope portions of the routes. Some weedy and invasive species would likely
31 colonize in freshly exposed soils following construction. Full rehabilitation using approved plant species
32 would take at least two growing seasons, following which long-term types of effects along these routes and
33 trails would occur as noted above.

1 Implementation activities that could affect soils and native vegetation include installing new information
 2 kiosks and signs, installation of vault toilets, road, trail and parking area maintenance or improvements, route
 3 reclamation (including ripping the ground and planting seed, grading/recontouring), and installing fencing or
 4 barriers. Ground disturbance, loss of vegetation, and weed and invasive plant growth from new disturbance
 5 (e.g., kiosk installation) would be localized and temporary, as the application of best management practices
 6 (BMPs) in these areas such as seeding and planting would accelerate stabilization and reclamation.

7 **3.2.1.2.2 Impact Indicators**

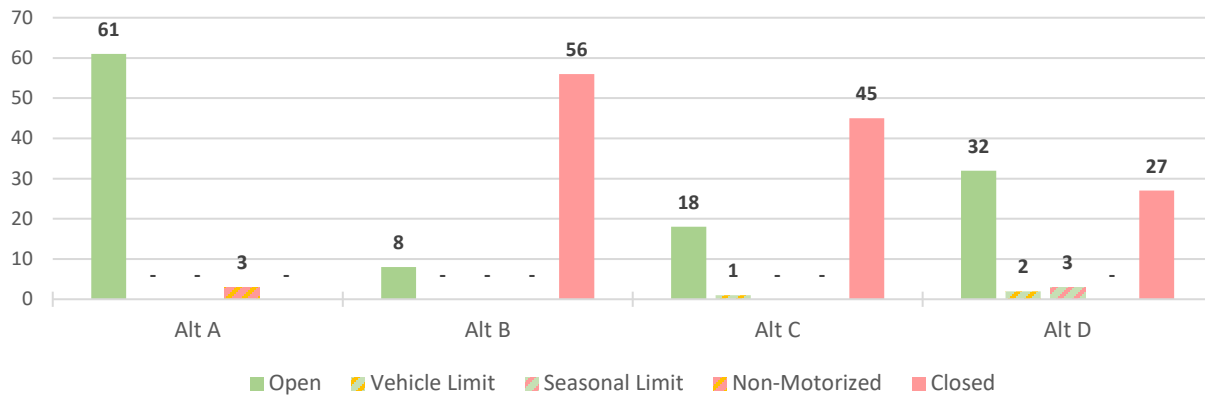
8 The figures below inform the impact analysis that follows for each alternative. These figures serve as
 9 indicators for potential effects on resources from the Alternative networks as described above and are provided
 10 to more easily compare the action alternatives (B-D) are to the baseline, Alternative A. More detailed data
 11 tables used to develop the figures may be found in Appendix C. **Note: Because no routes are located within**
 12 **their habitats, the BLM Sensitive plant species hoary willow, vanilla sweet grass, white spruce, and**
 13 **yellow springbeauty are not included below.**

14 **Figure 3-1: Miles of Evaluated Routes in Erosive Soils**



15

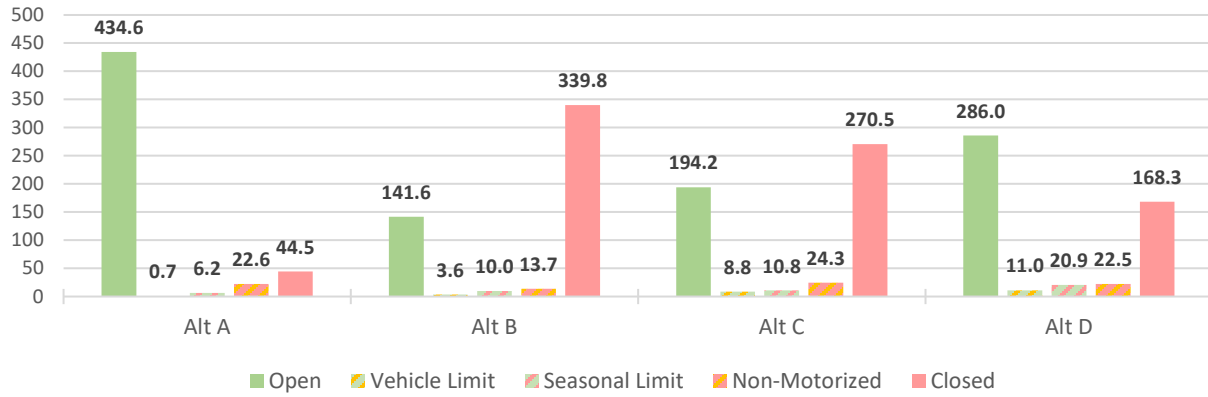
16 **Figure 3-2: Number of Evaluated Routes Associated with Route Proliferation and Potential Impacts on MSCs**



17

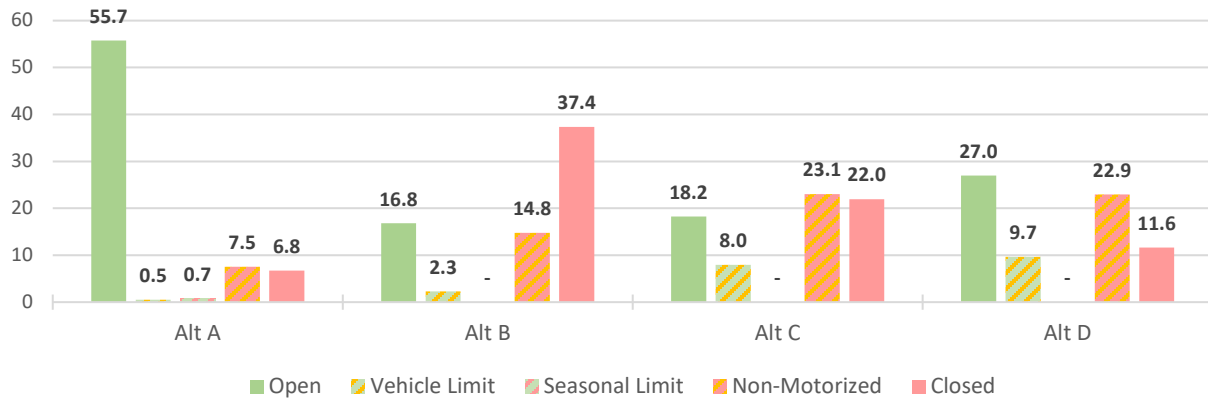
18

1 **Figure 3-3: Miles of Evaluated Routes in Sagebrush Shrubland**



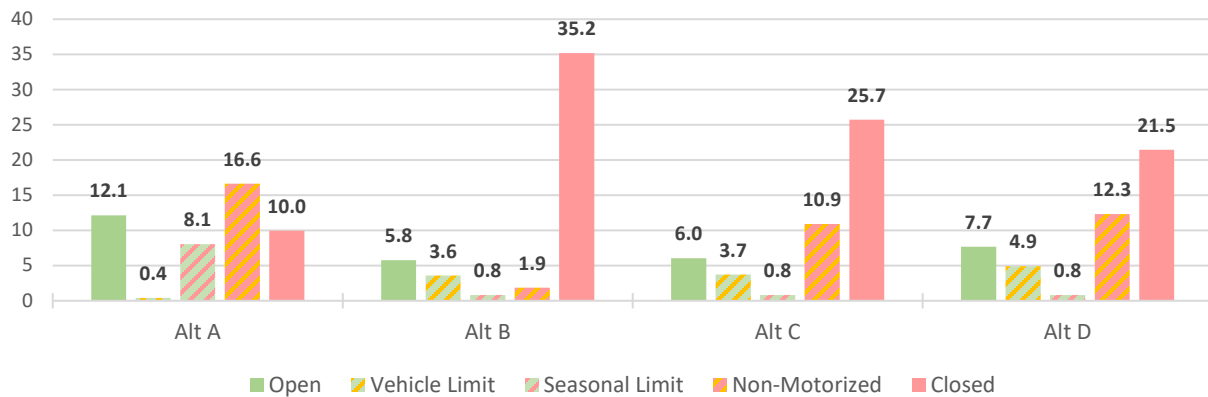
2

3 **Figure 3-4: Miles of Evaluated Routes in Evergreen Montane Forest**



4

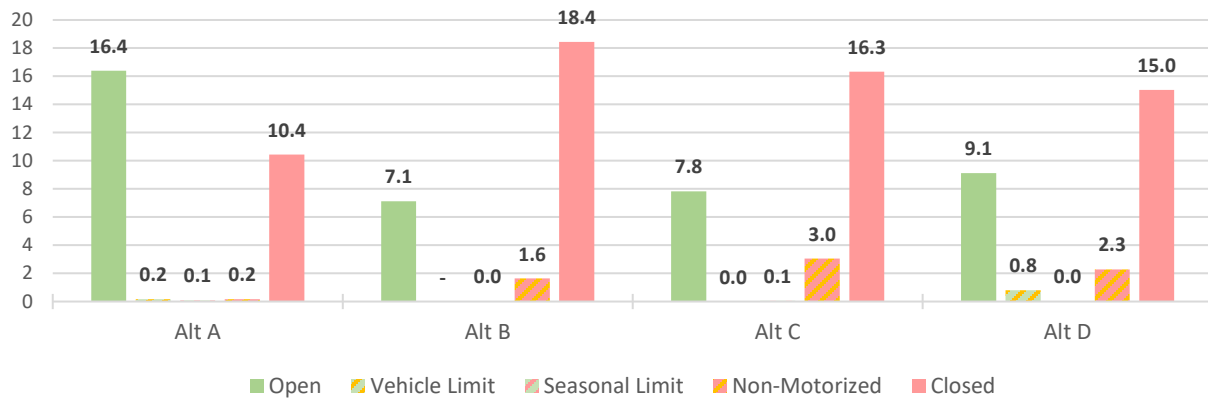
5 **Figure 3-5: Miles of Evaluated Routes in Bedrock, Scree, Cliffs and Canyons**



6

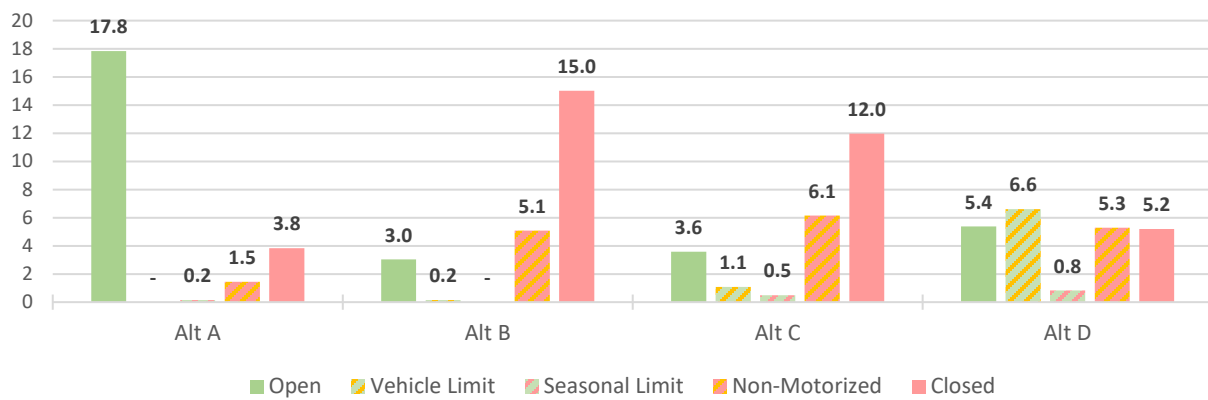
7

1 **Figure 3-6: Miles of Evaluated Routes in Deciduous Riparian Woodland**



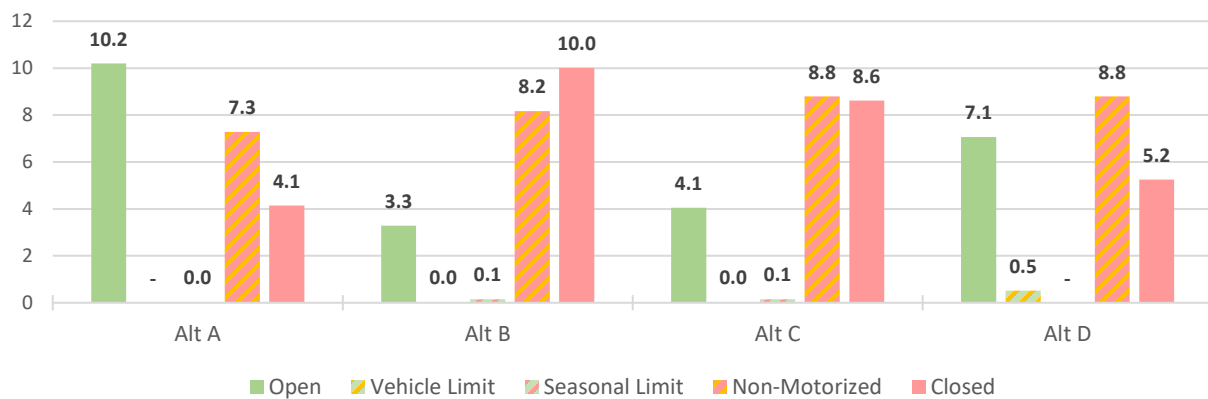
2

3 **Figure 3-7: Miles of Evaluated Routes in Mixed Evergreen Deciduous Montane Forest**



4

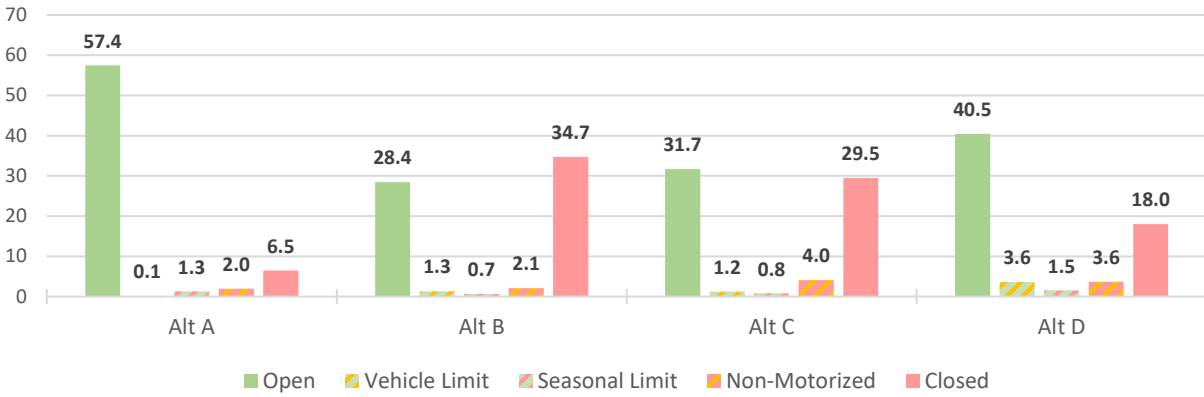
5 **Figure 3-8: Miles of Evaluated Routes in Herbaceous Wetland**



6

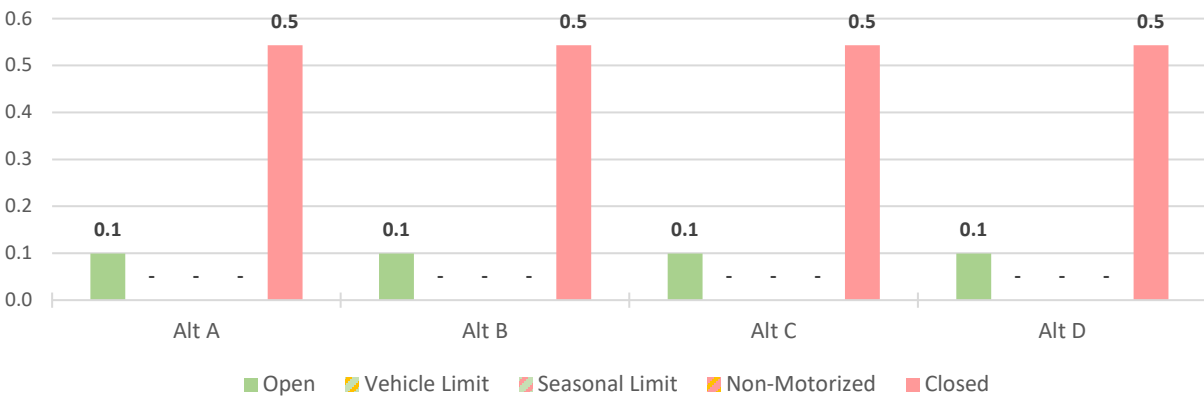
7

1 **Figure 3-9: Miles of Evaluated Routes in Areas of Noxious Weeds and Invasive Plants**



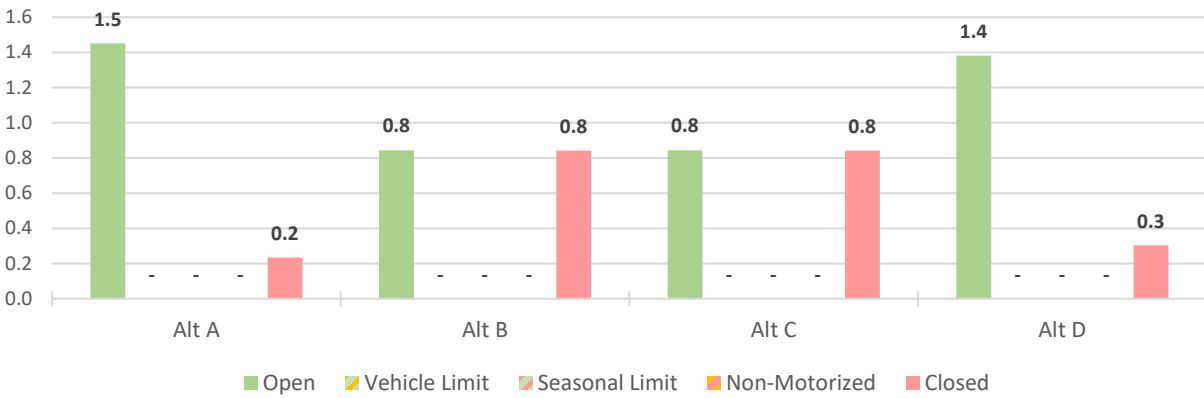
2

3 **Figure 3-10: Miles of Evaluated Routes in Ute Ladies'-Tresses Habitat**



4

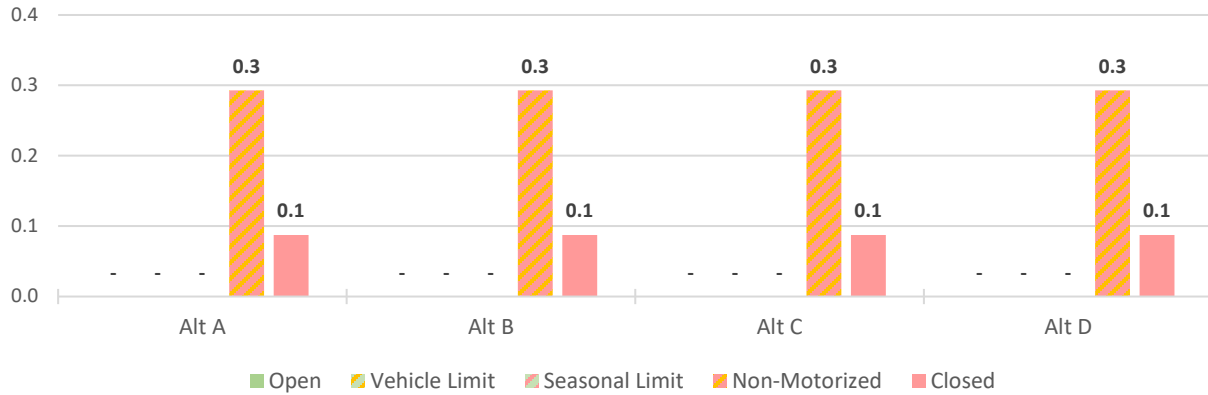
5 **Figure 3-11: Miles of Evaluated Routes in False Mountain Willow Habitat**



6

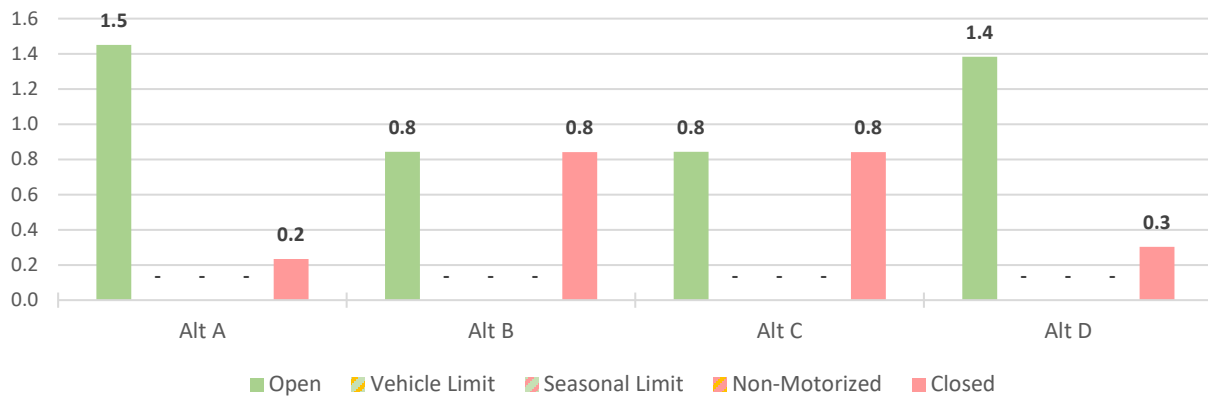
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1 **Figure 3-12: Miles of Evaluated Routes in Giant Helleborine Habitat**



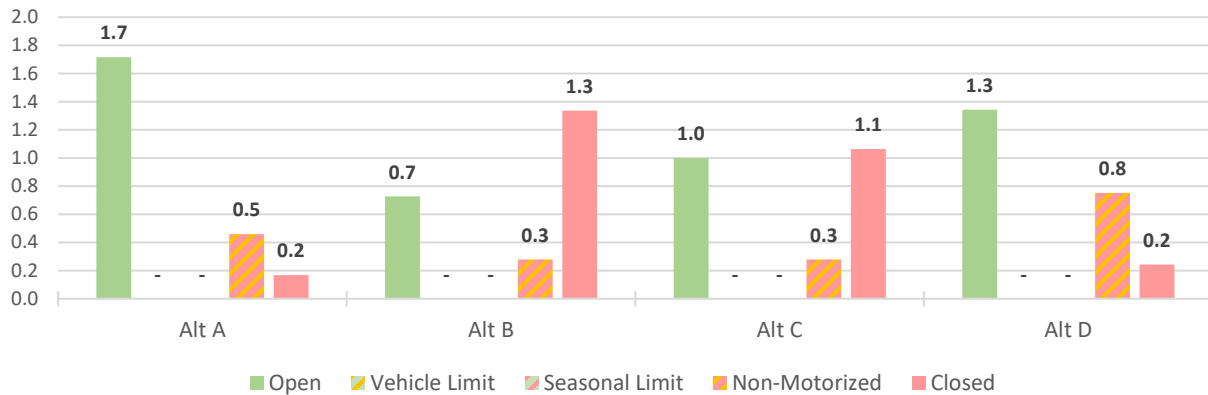
2

3 **Figure 3-13: Miles of Evaluated Routes in Rush Aster Habitat**



4

5 **Figure 3-14: Miles of Evaluated Routes in Yellowstone Draba Habitat**



6

7 **3.2.1.2.3 Alternative A (Current Management)**

8 Under Alternative A, 77% of the 100.3 miles of evaluated travel routes in erodible soils would remain open to
 9 public OHV use, 14% would remain limited to non-motorized use, and 9% would remain closed. Of the 64
 10 routes associated with off-route proliferation (e.g., route density) issues and potential impacts on MSCs, 61
 11 would remain open to OHV use and 3 would remain limited to non-motorized use.

1 Approximately 508.6 miles of evaluated routes (69% of the TMA's miles) are contained within the native
2 sagebrush shrubland biome. Under Alternative A, 87% of these miles would remain available for OHV use,
3 7% would remain available to authorized and non-motorized users, and 6% would remain closed. In the
4 TMA's other primary biomes, open-OHV use would range from 44% of route miles in bedrock, scree, cliffs,
5 and canyons to 80% of the miles in native evergreen montane forest. Miles of permanent closures and
6 reclamation in these other primary biomes would range from less than 1% in mixed evergreen deciduous forest
7 to 29% of the miles in deciduous riparian woodlands.

8 Approximately 67.3 miles of evaluated routes (9% of the TMA's total) are in areas of noxious weeds and
9 invasive plants; of those miles, 87% would remain available for OHV use, 3% would remain limited to non-
10 motorized or e-bike use, and 10% would remain closed.

11 Just 0.6 miles of evaluated routes are in habitat for the threatened Ute ladies'-tresses habitat (Figure 3.10). Of
12 these, under Alternative A, 0.1 miles would remain open to OHV use and 0.5 miles would be closed to OHV
13 use (but would remain available to authorized users).

14 In false mountain willow habitat, of the 1.7 miles of evaluated routes, 1.5 miles would remain open to OHV
15 use and 0.2 miles would remain closed. In giant helleborine habitat, 0.3 evaluated route miles would be limited
16 to non-motorized use and 0.1 miles would remain closed. In rush aster habitat, of the 1.7 miles of evaluated
17 routes, 1.5 miles would remain open to OHV use and 0.2 miles would remain closed. And in Yellowstone
18 draba habitat, of the 2.3 miles of evaluated routes, 1.7 miles would remain open to OHV use, 0.5 miles would
19 remain limited to non-motorized use, and 0.2 miles would be closed.

20 Under Alternative A, impacts to soils and native vegetation, including special status species plants, from
21 ongoing OHV use would reflect a continuation of current management. Potential impacts to soils on routes or
22 route segments that receive OHV use are rutting and displacement where such use occurs during wet periods
23 when native surface soils are saturated, or where OHVs travel at higher speeds, and spin tires at higher rpms to
24 avoid losing traction. In areas of severe rutting or potholing, braiding is likely to occur where vehicles travel to
25 circumvent the ruts, exposing more soil to effects of wind and water erosion. Absent a designated travel
26 network to direct users to designated routes and a more diverse network that could reduce user inclination to
27 travel off-route, route proliferation (i.e., illegal off-route use that creates new routes) could occur and lead to
28 damage to MSCs, more vegetation loss, soil compaction, wind and water erosion, and increased susceptibility
29 to weed spread and infestation. Given the miles of evaluated routes in erodible soils, native vegetation
30 communities, and areas of noxious weeds and invasive species that would be open most of the year, there is a
31 relatively high potential for ongoing and increased impacts to soils and vegetation, including special status
32 species plants.

33 3.2.1.2.4 *Alternative B (Natural Resource Emphasis)*

34 Under Alternative B, 20.7 miles of evaluated routes in erosive soils would be designated for OHV use (OHV-
35 Open or OHV-Limited), a 73% reduction compared to Alternative A. Of the routes associated with
36 proliferation issues and potential impacts to MSCs, 8 would be designated for OHV use, an 87% reduction
37 from Alternative A. Of the 79.6 miles of evaluated routes in erosive soils that would be closed to public OHV
38 use, 6.7 miles would be designated for authorized users only (e.g., livestock grazing permittees), 16.2 miles for
39 non-motorized use, and the rest would be decommissioned and earmarked for reclamation. Under this
40 alternative, approximately 2.1 miles of non-motorized single-track trail would be constructed within areas of
41 erosive soils; this proposed trail construction would result in acres of short-term and long-term soil disturbance
42 as disclosed below in Table 3.3.

43

44

1 **Table 3-3: Acres of Disturbance from Proposed New Trail Construction in Erosive Soils Under Alternative B**

| | Designation | Acres of Short-Term | Acres of Long-Term |
|---------------|---|---------------------|--------------------|
| Erosive Soils | Limited to non-motorized use (OHV-Closed) | 1.55 | 0.52 |

2 Within the TMA’s primary native sagebrush shrubland vegetation community, Alternative B would result in a
 3 reduction of open-OHV miles of 65% as compared to Alternative A. Reductions in the other native vegetation
 4 communities would range from 51% in bedrock, scree, cliffs, and canyons to 82% in mixed evergreen
 5 deciduous montane forest. Alternative B would result in substantial increases of permanently closed routes
 6 earmarked for decommissioning and reclamation in all of the primary vegetation communities as compared to
 7 Alternative A. In native sagebrush shrublands alone, which contain 69% of the TMA’s routes, Alternative B
 8 would see a nearly 9-fold increase over Alternative A in permanently closed routes earmarked for reclamation.

9 Within the TMA’s primary vegetation communities, some non-motorized trail would be constructed, resulting
 10 in short- and long-term acres of disturbance as disclosed below. (Only those vegetation communities that
 11 would be affected are included in Table 3.4 below.)

12 **Table 3-4: Acres of Disturbance from Proposed New Route and Trail Construction in Primary Native**
 13 **Vegetation Communities Under Alternative B**

| | Designation | Acres of Short-Term | Acres of Long-Term |
|--|---|---------------------|--------------------|
| Sagebrush Shrubland | Limited to authorized users (OHV-Closed) | 0.37 | 0.26 |
| | Limited to non-motorized use (OHV-Closed) | 0.24 | 0.08 |
| Evergreen Montane Forest | Limited to non-motorized use (OHV-Closed) | 0.84 | 0.28 |
| Mixed Evergreen Deciduous Montane Forest | Limited to non-motorized use (OHV-Closed) | 0.90 | 0.30 |

14 In areas of noxious weeds and invasive plants, 30.4 miles of evaluated routes would be designated for OHV
 15 use under Alternative B, a 48% reduction compared to Alternative A. Of the 36.8 miles of evaluated routes that
 16 would be OHV-closed, 2.1 miles would be designated for non-motorized use and 7.6 miles for authorized
 17 users only; the rest would be decommissioned and earmarked for reclamation. This alternative proposes the
 18 construction of 0.2 miles of new non-motorized trail in areas of noxious weeds and invasive plants, resulting in
 19 the acres of short- and long-term disturbance displayed in Table 3.5, below.

20 **Table 3-5: Acres of Disturbance from Proposed New Trail Construction in Areas of Noxious Weeds and**
 21 **Invasive Plants Under Alternative B**

| | Designation | Acres of Short-Term | Acres of Long-Term |
|---------------------------|---|---------------------|--------------------|
| Invasive or Noxious Weeds | Limited to non-motorized use (OHV-Closed) | 0.17 | 0.06 |

22 Under Alternative B, like Alternative A, 0.1 miles of evaluated routes in or proximate to Ute ladies’-tresses
 23 habitat would be designated OHV-Open and 0.5 miles would be OHV-Closed; there are no newly proposed
 24 routes in Ute ladies’-tresses habitat.

1 In false mountain willow habitat, 0.8 miles of evaluated routes would be designated OHV-Open under
 2 Alternative B, a 47% reduction compared to Alternative A. In giant helleborine habitat, zero miles would be
 3 designated for OHV use; of the OHV-Closed routes, 0.3 miles would be limited to non-mechanized use and
 4 0.1 miles would be decommissioned and earmarked for reclamation. In rush aster habitat, 0.8 miles would be
 5 designated OHV-Open, a 47% reduction compared to Alternative A; of the OHV-Closed miles, 0.5 miles
 6 would remain available for authorized use only while 0.3 miles would be decommissioned and earmarked for
 7 reclamation. And in Yellowstone draba habitat, 0.7 miles of evaluated routes would be designated for OHV
 8 use, a 59% reduction compared to Alternative A; of the OHV-Closed routes, 0.3 miles would be limited to
 9 non-motorized use, 0.2 miles to authorized users only, and the rest would be decommissioned and earmarked
 10 for reclamation. No new route or trail construction is proposed in special status plant habitats under any
 11 alternative.

12 With the reductions in motorized access as compared to Alternative A, Alternative B would reduce potential
 13 long-term route and use-related adverse effects noted above to soils and vegetation while also reducing
 14 susceptibility to weed spread and infestation. Overall, Alternative B would have the lowest potential for
 15 impacts on soil and vegetation, including special status plants, as compared to the other alternatives.

16 *3.2.1.2.5 Alternative C (Multiple Use Emphasis)*

17 Under Alternative C, 32.3 miles of evaluated routes in erosive soils would be designated for OHV use, a 58%
 18 reduction compared to Alternative A. Of the routes associated with proliferation issues and potential impacts to
 19 MSCs, 19 would be designated for OHV use, a 69% reduction from Alternative A. Of the 68.0 miles of
 20 evaluated routes in erosive soils that would be closed to public OHV use, 12.5 miles would remain available
 21 for authorized users only (e.g., livestock grazing permittees), 27.2 miles for non-motorized use, and the rest
 22 would be permanently closed and earmarked for decommissioning and reclamation. Under this alternative,
 23 approximately 8.1 miles of non-motorized single-track trail would be constructed within areas of erosive soils;
 24 this proposed trail construction would result in acres of short-term and long-term soil disturbance as disclosed
 25 below in Table 3.6.

26 **Table 3-6: Acres of Disturbance from Proposed New Trail Construction in Erosive Soils Under Alternative C**

| | Designation | Acres of Short-Term | Acres of Long-Term |
|---------------|---|---------------------|--------------------|
| Erosive Soils | Limited to non-motorized use (OHV-Closed) | 5.89 | 1.96 |

27 Within the TMA’s primary native sagebrush shrubland vegetation community, Alternative C would result in a
 28 reduction of open-OHV miles of 52% as compared to Alternative A. Reductions in the other native vegetation
 29 communities would range from 49% in bedrock, scree, cliffs, and canyons to 71% in mixed evergreen
 30 deciduous montane forest. Alternative C would result in substantial increases of permanently closed routes
 31 earmarked for decommissioning and reclamation all but one of the primary vegetation communities as
 32 compared to Alternative A; deciduous riparian woodland would see only a 25% increase as compared to
 33 Alternative A. In native sagebrush shrublands, which contains most of the existing OHV routes, Alternative C
 34 would result in a 5 ½ -fold increase over Alternative A in permanently closed routes earmarked for
 35 decommissioning and reclamation.

36 Within the primary native vegetation communities, some non-motorized trail would be constructed under this
 37 alternative, resulting in acres of disturbance as disclosed below in Table 3.7. (Only those vegetation
 38 communities that would be affected are included below.)

39

1 **Table 3-7: Acres of Disturbance from Proposed New Route and Trail Construction in Primary Vegetation**
 2 **Communities Under Alternative C**

| | Designation | Acres of Short-Term | Acres of Long-Term |
|--|---|---------------------|--------------------|
| Sagebrush Shrubland | Open to all use (OHV-Open) | 0.22 | 0.07 |
| | Limited to authorized users (OHV-Closed) | 0.37 | 0.26 |
| | Limited to non-motorized use (OHV-Closed) | 2.91 | 1.01 |
| Evergreen Montane Forest | Limited to non-motorized use (OHV-Closed) | 3.80 | 1.27 |
| Bedrock, Scree, Cliffs and Canyons | Limited to non-motorized use (OHV-Closed) | 4.41 | 1.87 |
| Mixed Evergreen Deciduous Montane Forest | Limited to non-motorized use (OHV-Closed) | 2.34 | 0.78 |

3 In areas of noxious weeds and invasive plants, 33.7 miles of evaluated routes would be designated for OHV
 4 use under Alternative C, a 43% reduction compared to Alternative A. Of the 33.5 miles of evaluated routes that
 5 would be OHV-closed, 4.0 miles would be designated for non-motorized use and 9.3 miles for authorized
 6 users only; the rest would be decommissioned and earmarked for reclamation. This alternative proposes the
 7 construction of 1.3 miles of new non-motorized single-track trail in areas of noxious weeds and invasive
 8 plants, resulting in acres of short- and long-term disturbance displayed in Table 3.8.

9 **Table 3-8: Acres of Disturbance from Proposed New Trail Construction in Areas of Noxious Weeds and**
 10 **Invasive Plants Under Alternative C**

| | Designation | Acres of Short-Term | Acres of Long-Term |
|---------------------------|---|---------------------|--------------------|
| Invasive or Noxious Weeds | Limited to non-motorized use (OHV-Closed) | 0.93 | 0.31 |

11 Under Alternative C, like Alternatives A and B, 0.1 miles of evaluated routes in or proximate to Ute ladies'-
 12 tresses habitat would be designated OHV-Open and 0.5 miles would be limited to authorized users but OHV-
 13 Closed; there are no newly proposed routes in Ute ladies'-tresses habitat.

14 In false mountain willow and rush aster habitats, like Alternative B, there would be reductions of 42% in
 15 OHV-open route designations compared to Alternative A. In giant helleborine habitat, there would be no
 16 changes in designations from Alternative A. And in Yellowstone draba habitat, 1.0 miles of evaluated routes
 17 would be designated for OHV use, a 41% reduction compared to Alternative A; of the OHV-Closed routes,
 18 like Alternative B, 0.3 miles would be limited to non-motorized use, 0.2 miles to authorized users only, and the
 19 rest would be decommissioned and earmarked for reclamation. No new route or trail construction is proposed
 20 in special status plant habitats under any alternative.

21 With the reductions in motorized access as compared to Alternative A, Alternative C would reduce potential
 22 long-term route and use-related adverse effects noted above to soils and vegetation while reducing
 23 susceptibility to weed spread and infestation. Overall, Alternative C would have lower potential for impacts on

1 soil and vegetation, including special status plants, as compared to Alternatives A and D but higher potential
2 than Alternative B.

3 *3.2.1.2.6 Alternative D (Access Emphasis)*

4 Under Alternative D, 53.7 miles of evaluated routes in erosive soils would be designated for OHV use, a 30%
5 reduction compared to Alternative A. Of the routes associated with proliferation issues and potential impacts to
6 MSCs, 37 would be designated for OHV use, a 39% reduction from Alternative A. Of the 46.6 miles of
7 evaluated routes in erosive soils that would be closed to public OHV use, 13.7 miles would be designated for
8 authorized users only (e.g., livestock grazing permittees), 26.1 miles for non-motorized use, and the rest would
9 be decommissioned and earmarked for reclamation. Under this alternative, approximately 8.6 miles of non-
10 motorized single-track trail would be constructed within areas of erosive soils; this proposed trail construction
11 would result in acres of short-term and long-term soil disturbance as disclosed below in Table 3.9.

12 **Table 3-9: Acres of Disturbance from Proposed New Trail Construction in Erosive Soils Under Alternative D**

| | Designation | Acres of Short-Term | Acres of Long-Term |
|---------------|---|---------------------|--------------------|
| Erosive Soils | Limited to non-motorized use (OHV-Closed) | 6.28 | 2.09 |

13 Within the TMA's primary native sagebrush shrubland vegetation community, Alternative D would result in a
14 reduction of open-OHV miles of 28% as compared to Alternative A. Reductions in the other native vegetation
15 communities would range from 25% in herbaceous wetland to 41% in deciduous riparian woodland.

16 Alternative D would result in increases of permanently closed routes earmarked for decommissioning and
17 reclamation in all but one of the primary vegetation communities as compared to Alternative A; deciduous
18 riparian woodland would see a slight (4%) decrease as compared to Alternative A. In native sagebrush
19 shrublands, which contains most of the existing OHV routes, Alternative D would result in nearly a 2 ½-fold
20 increase over Alternative A in permanently closed routes earmarked for decommissioning and reclamation.

21 Within these primary vegetation communities, some non-motorized trail would be constructed under this
22 alternative, resulting in short- and long-term acres of disturbance as disclosed in Table 3.10. (Only those
23 vegetation communities that would be affected are included below.)

24

1 **Table 3-10: Acres of Disturbance from Proposed New Route and Trail Construction in Primary Native**
 2 **Vegetation Communities Under Alternative D**

| | Designation | Acres of Short-Term | Acres of Long-Term |
|--|---|---------------------|--------------------|
| Sagebrush Shrubland | Open to all use (OHV-Open) | 0.85 | 0.28 |
| | Limited to authorized users (OHV-Closed) | 0.37 | 0.26 |
| | Limited to non-motorized use (OHV-Closed) | 2.96 | 1.02 |
| Evergreen Montane Forest | Limited to non-motorized use (OHV-Closed) | 3.80 | 1.27 |
| Bedrock, Scree, Cliffs and Canyons | Limited to non-motorized use (OHV-Closed) | 5.17 | 2.45 |
| Mixed Evergreen Deciduous Montane Forest | Limited to non-motorized use (OHV-Closed) | 2.73 | 0.91 |
| Herbaceous Wetland | Open to all use (OHV-Open) | 0.14 | 0.05 |

3 In areas of noxious weeds and invasive plants, 45.6 miles of evaluated routes would be designated for OHV
 4 use under Alternative D, a 22% reduction compared to Alternative A. Of the 21.6 miles of evaluated routes
 5 that would be OHV-Closed, 3.6 miles would be designated for non-motorized use and 7.0 miles for authorized
 6 users only; the rest would be decommissioned and earmarked for reclamation. This alternative proposes the
 7 construction of 1.3 miles of new non-motorized single-track trail in areas of noxious weeds and invasive
 8 plants, resulting in the acres of short- and long-term disturbance displayed in Table 3.11.

9 **Table 3-11: Acres of Disturbance from Proposed New Trail Construction in Areas of Noxious Weeds and**
 10 **Invasive Plants Under Alternative D**

| | Designation | Acres of Short-Term | Acres of Long-Term |
|---------------------------|---|---------------------|--------------------|
| Invasive or Noxious Weeds | Limited to non-motorized use (OHV-Closed) | 0.94 | 0.31 |

11 Under Alternative D, the 0.1 miles of evaluated routes in Ute ladies'-tresses habitat would be designated OHV-
 12 Open and 0.5 miles would be limited to authorized users but OHV-Closed (Limited to authorized users), the
 13 same as in Alternative A and the other action alternatives; there are no newly proposed routes in Ute ladies'-
 14 tresses habitat.

15 In false mountain willow and rush aster habitats, there would be 7% reductions in OHV-Open designated miles
 16 (0.1 miles each) compared to Alternative A. In giant helleborine habitat, there would be no changes in
 17 designations from Alternative A. And in Yellowstone draba habitat, 1.3 miles of evaluated routes would be
 18 designated for OHV use, a 24% reduction compared to Alternative A; of the OHV-Closed routes, 0.8 miles
 19 would be limited to non-motorized use, and the rest would be decommissioned and earmarked for reclamation.
 20 No new route or trail construction is proposed in special status plant habitats under any alternative.

21 With the reductions in motorized access as compared to Alternative A, Alternative D would reduce potential
 22 long-term route and use-related adverse effects noted above to soils and vegetation while reducing

1 susceptibility to weed spread and infestation. Overall, Alternative D would have higher potential for impacts
2 on soil and vegetation, including special status plants, as compared to Alternatives B and C but less than
3 Alternative A.

4 3.2.2 Aquatic Resources

5 *How would the designated travel route network impact aquatic resources in the TMA?*

6 3.2.2.1 Affected Environment

7 This section covers surface and ground water resources, water quality, riparian and wetlands resources, and
8 fisheries.

9 The BLM is the designated nonpoint source management agency for water resources on the lands under its
10 management. As such, the BLM's goals are to maintain or improve surface and ground water consistent with
11 state and federal water quality standards, minimize harmful consequences of activities that result in nonpoint
12 source pollution, and inventory, monitor and evaluate water quality data necessary for the proper management
13 of public lands. The BLM also coordinates water quality programs with the local, state, and federal agencies,
14 affected public land users, adjoining landowners, and other affected interests (BLM MOU ID-08-02, January
15 15, 2008).

16 Travel routes are considered sources of nonpoint pollution regarding water quality, and travel route designation
17 decisions need to ensure that water quality, surface and groundwater resources, riparian areas, and fisheries are
18 not diminished as a result of the designations. Travel routes and their associated uses can contribute to water
19 quality degradation, affecting beneficial uses of lakes and streams such as agricultural water supply, cold water
20 aquatic life, salmonid spawning, domestic water supply, industrial water supply, primary and secondary
21 contact recreation, and wildlife habitat. The beneficial use depends upon its actual use, the ability of the water
22 to support a non-existing use either now or in the near future, and the basic goal of the CWA that all waters
23 support aquatic life and recreation where attainable. (Idaho DEQ 2018/2020 Integrated Report)

24 Water quality in the TMA is assessed and monitored in accordance with the Clean Water Act (CWA), which
25 requires each state to submit a biennial report on the quality of their surface waters, and to identify and
26 prioritize those waters that are impaired and need an improvement plan. As the state agency responsible for
27 implementing the CWA in Idaho, the Idaho Department of Environmental Quality (DEQ) fulfills these
28 reporting requirements by submitting a biennial Integrated Report. The latest biennial report, the 2018/2020
29 Integrated Report, was developed in compliance with §§305(b), 314, and 303(d) of the CWA, and incorporates
30 DEQ data and other readily available data collected within the prior 5 years (2014–2018). The report provides
31 background information on the state's water resources, including DEQ's water pollution control program and
32 special concerns affecting water quality; an overview of DEQ's surface water monitoring and assessment
33 program, including attainment status results for all state surface waters and a discussion about public health
34 issues; an overview of Idaho's ground water monitoring and assessment efforts; and a summary of public
35 participation in the development of the Integrated Report (Idaho DEQ 2018/2020 Integrated Report). Waters
36 that do not meet applicable water quality standards for one or more beneficial uses due to pollutants and for
37 which a water quality improvement plan is needed (called a TMDL, total maximum daily load) make up the
38 303(d) list. Within the TMA, 120.4 miles of evaluated routes are within 300 feet of 303(d)-listed streams.

39 Riparian areas are a form of wetland transition between permanently saturated wetlands and upland areas.
40 Riparian ecosystems are defined as areas of land directly influenced by permanent (surface or subsurface)
41 water. They have visible vegetation or physical characteristics reflective of permanent water influence.
42 Lakeshores and streambanks with perennial water are typical riparian areas. They include wetlands and those
43 portions of floodplains and valley bottoms that support riparian vegetation (Meehan 1991). Excluded are such
44 sites as ephemeral streams or washes that do not exhibit the presence of hydric vegetation (BLM 1991b).
45 However, it is important to note that an ephemeral stream is one that flows only in direct response to
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1 precipitation and whose channel is always above the water table. Other intermittent or ephemeral streams
 2 which do not currently exhibit riparian characteristics may in fact be connected to a water table and could
 3 potentially develop riparian attributes with management changes. Riparian areas provide many benefits within
 4 the TMA, including filtering and purifying water, reducing sediment loads and enhancing soil stability,
 5 contributing to groundwater recharge, dissipating high-energy flows (floods), and supporting greater
 6 biodiversity. Riparian areas—occurring on streambanks and floodplains, at springs, seeps, potholes, wet
 7 meadows, sloughs, marshes, swamps, and bogs—are all important resources for aquatic organisms, wildlife,
 8 grazing, and recreation. Healthy and productive riparian areas provide water, food, cover, and travel lanes for
 9 many aquatic and terrestrial wildlife species, some of which are obligate to the riparian area and not found in
 10 dryer upland areas. Native riparian plants and their root systems contribute to improved water quality and
 11 quantity by holding soils in place while filtering sediments, increasing ground water recharge, and protecting
 12 streambanks. Riparian areas offer value to the general public by providing opportunities for a wide variety of
 13 recreation activities and aesthetic attributes. However, riparian ecosystems are fragile resources that are among
 14 the first indicators of impacts from disturbance. Within the TMA are 11,265 acres of BLM lands in or within
 15 300 feet of riparian habitat; there are 65.3 miles of evaluated routes in these areas on BLM lands.

16 Perennial streams, lakes and reservoirs in the TMA support fisheries resources, comprised of varying
 17 assemblages of native and non-native sportfish and native and non-native non-game fish species (Sigler and
 18 Zaroban 2018). Common native sportfish include mountain whitefish and Yellowstone cutthroat trout.
 19 Commonly occurring non-native sportfish include brown, brook and rainbow trout along with warm water
 20 species like yellow perch and smallmouth bass. Several commonly occurring native non-game species include
 21 sculpin, Utah sucker, redbelt shiner and speckled dace. There are no ESA-listed fish species or designated
 22 critical fish habitat within the TMA. The Yellowstone cutthroat trout (YCT), a BLM Sensitive species (BLM
 23 2022) that currently occupies about 43% of its historical range (IDFG 2007a), is regarded as a regional
 24 conservation priority and is widely distributed in the TMA (Rangewide Yellowstone Cutthroat Trout
 25 Conservation Team 2009). In addition to occurring in major river systems of the Upper Snake River Basin,
 26 they are also present in numerous smaller tributaries. The green sucker (a.k.a. bluehead sucker), a BLM
 27 Sensitive species (BLM 2022), also occurs in the TMA. Most currently known green sucker occupied habitat
 28 occurs in mainstem river reaches of the Teton, Henrys Fork, South Fork and mainstem Snake Rivers. Fisheries
 29 resources may be impacted by roads in close proximity to rivers, streams, and lacustrine habitats. Routes
 30 which cross streams and rivers can also impact habitat and fish passage.

31 **Table 3-12: Watersheds in the TMA Supporting BLM Sensitive Fish¹**

| HUC10 | Acres | Miles of YCT Streams | HUC10 | Acres | Miles of YCT Streams |
|----------------------------|---------|----------------------|------------------------|---------|----------------------|
| American Falls Reservoir | 48,478 | 43.5 | Menan Butte | 15,537 | - |
| Antelope Creek-Snake River | 94,788 | 59.1 | Milk Creek-Teton River | 60,728 | 23.0 |
| Badger Creek-Teton River | 90,102 | 77.8 | Moody Creek | 65,938 | 50.0 |
| Bear Creek | 53,740 | 39.5 | Oakland Valley | 1,118 | - |
| Big Elk Creek | 15,043 | 8.9 | Outlet Willow Creek | 136,811 | 54.5 |
| Birch Creek-Snake River | 106,610 | 32.6 | Palisades Creek | 38,522 | 30.1 |
| Bitch Creek | 31,371 | 54.4 | Pine Creek | 46,506 | 28.8 |

¹ Data Source: MFWP 2019

| | | |
|-----------------------------------|---------|-------|
| Boundary Creek | 9,125 | 32.3 |
| Buffalo River-Henrys Fork | 148,231 | 8.6 |
| Camas Creek | 10,454 | - |
| Canyon Creek | 82,834 | 51.3 |
| City of Aberdeen | 2,939 | - |
| City of Shelley-Snake River | 50,288 | 74.4 |
| Fall Creek | 49,803 | 37.2 |
| Grays Lake Outlet | 49,445 | 76.1 |
| Headwaters Camas Creek | 138,582 | 8.3 |
| Headwaters Willow Creek | 15,990 | 73.3 |
| Henrys Lake-Henrys Fork | 109,587 | 59.1 |
| Indian Creek-Snake River | 48,288 | 34.0 |
| Island Park Reservoir-Henrys Fork | 140,187 | 13.2 |
| Juniper Buttes | 3,907 | - |
| Kettle Butte | 1,070 | - |
| Lower Blackfoot River | 2,595 | 66.7 |
| Lower Fall River | 98,056 | 99.4 |
| Lower Salt River | 16,104 | 149.1 |
| Lyons Creek-Snake River | 38,746 | 25.7 |
| McCoy Creek | 12,968 | 46.9 |

| | | |
|-------------------------------------|---------|-------|
| Rattlesnake Creek-Henrys Fork | 44,674 | 11.0 |
| Rising River-Watson Slough | 10,408 | - |
| Robinson Creek | 75,003 | 26.0 |
| Ross Fork | 0 | 8.4 |
| Ryegrass Flat-High Line Canal | 1,381 | - |
| Sand Creek | 75,752 | - |
| Sand Creek-Henrys Fork | 176,581 | 55.0 |
| Sheridan Creek | 55,499 | 1.0 |
| Snake River-Fall Creek | 509 | 200.8 |
| Snake River-Snake River | 112,707 | 70.8 |
| South Teton River-Teton River | 78,466 | 48.1 |
| Spring Creek-Snake River | 40,362 | 20.5 |
| Teton Basin-Teton River | 63,116 | 52.4 |
| Town of Springfield-Danielson Creek | 843 | - |
| Town of Sterling-Big Fill Reservoir | 997 | - |
| Trail Creek-Teton River | 63,071 | 46.5 |
| Upper Beaver Creek | 23,981 | 15.7 |
| Upper Fall River | 6,351 | 58.6 |
| Warm River | 112,366 | 0.6 |

1 3.2.2.2 Environmental Effects

2 3.2.2.2.1 Direct or Indirect Effects Common to All Alternatives

3 Travel routes can serve as a conduit for sediment transport (indirect) into intermittent or perennial drainages
4 and riparian areas during runoff events (i.e., rainfall and snowmelt), and because route surfaces are compacted,
5 runoff and sediment transport can be accelerated. Unimproved route crossings of streams (e.g., fords) can
6 directly impact water quality and fish habitat quality through the addition of fine sediment, channel widening,
7 channel avulsions, or by routing stream flows down the road and reducing instream flows. Fords can also
8 impact spawning habitat or redds near road crossings. Roads which closely parallel streams also impact habitat
9 when maintenance (e.g., road grading) introduces sediment, results in streamside vegetation removal and shade
10 reductions, confines lateral migration of the channel, or necessitates emergency stabilization.

11 Poorly located roads and trails in highly erosive soil and steep slope areas (i.e., slopes >20 percent) that are
12 proximate to, leading to, or crossing drainages can result in higher amounts of sediment travel and deposition
13 in water bodies and riparian areas during storms and runoff events. Indicators are rills and gullies leading to
14 and from travel routes and draining into existing perennial or intermittent streams or riparian areas, and
15 declining riparian zone vegetation health, diversity, density, and vigor. Surface disturbances from motorized
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1 travel and stream-side road grading can also remove soil-stabilizing agents, such as vegetative cover, soil
2 crusts, and woody debris. Loss of one or more of these agents increases potential erosion and sediment
3 transport into water bodies and riparian areas, contributing to degradation of water quality and fish habitat.
4 Crossing structures which prevent upstream aquatic organism passage (AOP) can also entrain fish or other
5 aquatic organisms in unsuitable or seasonally unsuitable habitats preventing access to spawning or rearing
6 habitat, perennial flow refugia, or cold water refugia, especially important to salmonids and during drought
7 conditions. Fords, perched culverts, undersized culverts, or culverts/crossings can affect stream simulation
8 through the structure and prevent aquatic organism passage. In some instances, existing barriers associated
9 with road crossings may isolate invasive or non-native competitor species from native aquatic species
10 populations. For example, non-native trout may be isolated from native YCT by an impassable crossing
11 structure. Careful consideration and coordination with fisheries resource management partners such as IDFG
12 and USFS would be undertaken when evaluating the cost-benefits of implementing crossing replacement for
13 AOP.

14 New trails proposed for construction would add direct short-term (2-year) effects that include removal of soil-
15 stabilizing agents, such as vegetative cover, soil crusts, and woody debris, potentially increasing erosion and
16 sediment transport into water bodies and riparian areas. Full rehabilitation of these areas of new disturbance
17 using approved plant species would take at least two growing seasons, following which long-term types of
18 effects along these routes and trails on aquatic resources would occur as noted above.

19 TMP implementation activities that could affect water quality, riparian areas, and wetlands include ground-
20 disturbing activities such as road maintenance, ripping and seeding of closed routes, and sign placement
21 (scraping away vegetation and digging post holes). These activities could contribute to short-term
22 sedimentation and impairment by increasing the amount of soil and other materials transported into waterways.
23 However, many of these effects are likely to be temporary because not all implementation actions would occur
24 on a regular basis, and disturbed areas are expected to revegetate. Some of the activities listed above and other
25 implementation activities would have a positive effect on water resources. For example, sign placement could
26 encourage managed travel on stable designated routes less disruptive to waterways, drainage structures
27 installed at appropriate intervals and locations could help minimize road-related erosion and sediment transport
28 into waterways and seeding and planting closed routes could help reestablish native vegetation communities,
29 thereby improving soils' resiliency to water impairment-related erosion.

30 The following assumptions and methodologies were applied in this analysis of potential effects on aquatic
31 resources from the alternative travel route network designations:

32 Appendix A. A well-planned travel route network would help conserve and protect the
33 public land water resources of the TMA by restricting public OHV use to designated
34 routes.

35 Appendix B. Under all alternatives routes which bisect or closely parallel waterbodies
36 would accelerate streambank erosion-sedimentation and compact soils leading to
37 accelerated erosion.

38 Appendix C. Travel/use of unimproved stream crossings (fords without any
39 stabilization, hardening or grade control) incrementally degrade the approaching
40 streambanks, mobilize sediment, cause bursts of turbidity and water quality impacts.

41 Appendix D. Travel network alternatives that close more miles to motorized travel across or in
42 close proximity to aquatic habitats would provide higher levels of protection from surface
43 disturbances and, indirectly help reduce and minimize effects to aquatic resources and
44 water quality.

Appendix E. Impacts to aquatic resources would be reduced and minimized by applying best management practices (BMPs) for operation and maintenance of all routes designated for motorized and non-motorized use.

3.2.2.2.2 Impact Indicators

The miles of routes within 300 feet of 303(d)-listed streams, the number of stream crossings in BLM Sensitive fish² habitat, the miles of evaluated routes within 50 feet of BLM Sensitive fish habitat, the miles within 300 feet of BLM Sensitive fish habitat, and the miles of routes in riparian/wetland habitat are all indicators of each alternative’s potential impact to aquatic resources in the TMA, as described above. This data is illustrated in Figure 3.15 – Figure 3.19 to compare the action alternatives (B-D) to the baseline, Alternative A. More detailed data tables may be found in Appendix C.

Figure 3-15: Miles of Routes within 300 Feet of 303(d)-Listed Streams

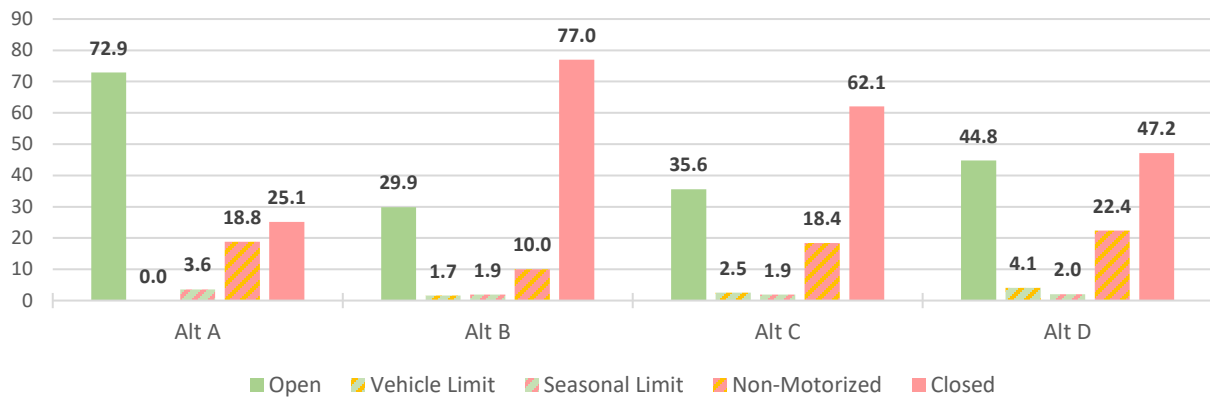
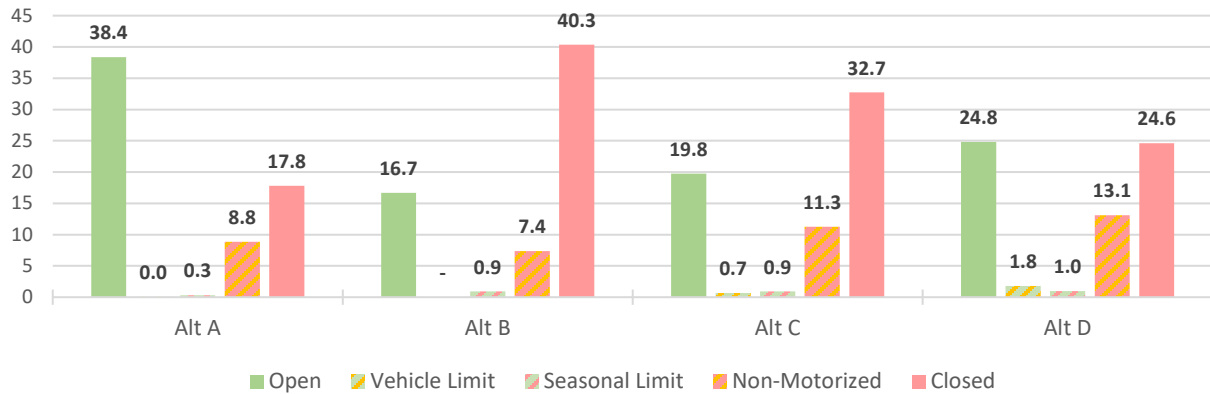
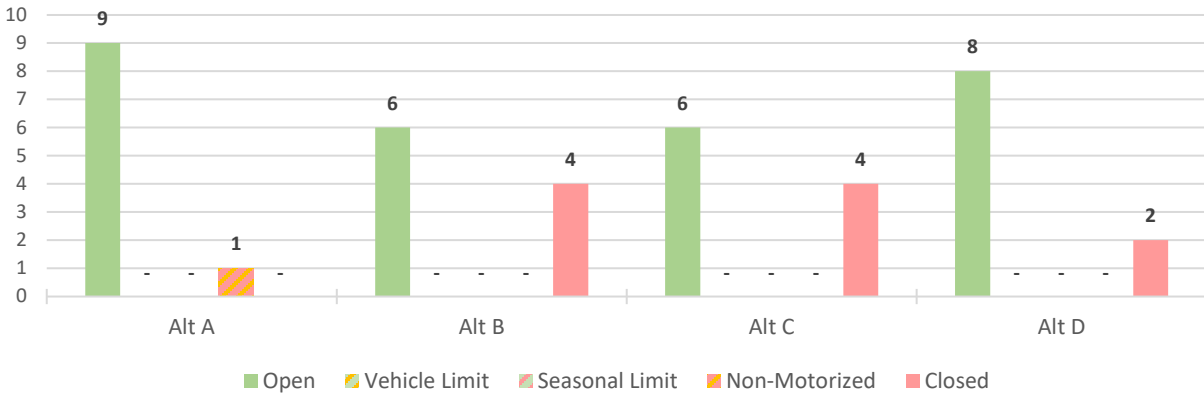


Figure 3-16: Miles of Evaluated Routes in or within 300 Feet of Riparian Areas



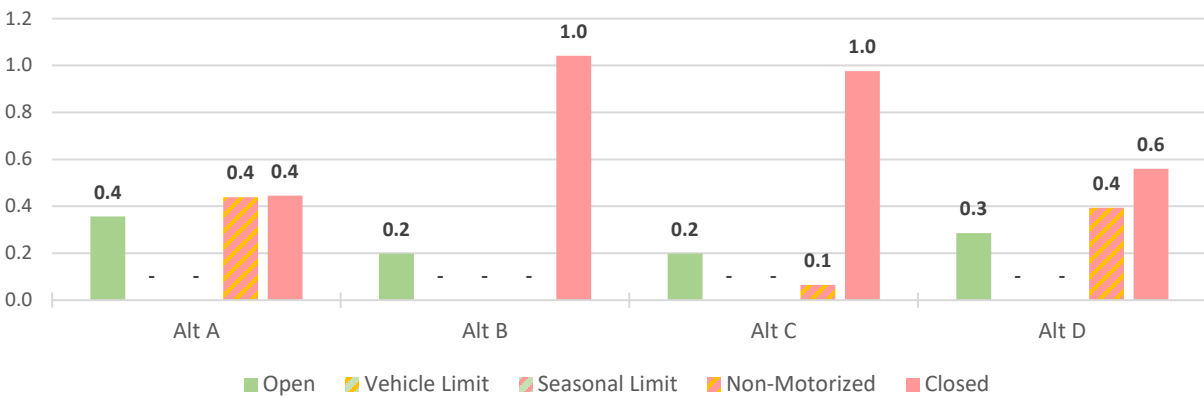
² Because where green sucker are present primarily in larger rivers of the Upper Snake River Basin, they generally co-occur with YCT in the TMA, and thus will be analyzed together.

1 **Figure 3-17: Number of Stream Crossings³ in BLM Sensitive Fish Habitat**



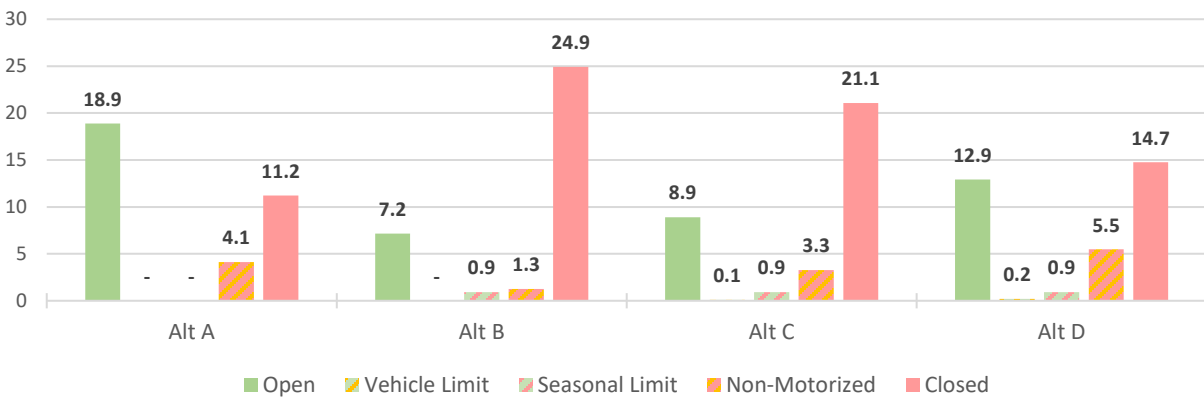
2

3 **Figure 3-18: Miles of Evaluated Routes in or within 50 Feet of BLM Sensitive Fish Habitat**



4

5 **Figure 3-19: Miles of Evaluated Routes in or within 300 Feet of BLM Sensitive Fish Habitat**



6

³ Stream crossings identified during route evaluations in the TMA consist of 4 bridges, 3 fords, and 3 culverts.

1 3.2.2.2.3 *Alternative A (Current Management)*

2 Currently, of the 120.4 miles of evaluated routes within 300 feet of 303(d)-listed streams, 64% are available
 3 for public OHV use, 16% are limited to non-motorized use, and 5% are limited to authorized users only. Of the
 4 65.3 miles of evaluated routes in or proximate to riparian or wetland areas, 59% are available for OHV use,
 5 13% are limited to non-motorized use, and 8% are limited to authorized users only.

6 Under current management, 9 of the 10 stream crossings in BLM Sensitive fish habitat are available for OHV
 7 use and the other route is limited to non-motorized use. To the knowledge of the BLM, 2 of these culverts are
 8 currently impediments or barriers to AOP (Tex Creek and Howard Creek; the BLM is currently in discussion
 9 with IDFG about removing the barrier at the Tex Creek crossing). Of the 1.2 miles of evaluated routes that are
 10 within 50 feet of BLM Sensitive fish habitat, 0.4 miles are available for OHV use and 0.4 miles are limited to
 11 non-motorized use. Of the 34.2 miles of evaluated routes that are within 300 feet of BLM Sensitive fish
 12 habitat, 55% are available for OHV use, 12% for non-motorized use, and 6% are limited to authorized use
 13 only.

14 Existing travel routes intercept runoff and their compacted soils can accelerate runoff and sediment travel into
 15 nearby streams and riparian areas. OHV, non-motorized, and associated human use (i.e., camping, exploring,
 16 etc.) on routes crossing or proximate to streams and riparian areas contributes to erosion, sedimentation, and
 17 loss of important streamside and riparian vegetative cover. Subsequent sediment travel and deposition in
 18 streams and riparian areas leads to degradation of water quality and fish habitat. Given the number of routes in
 19 the current network that cross or are proximate to streams and riparian areas and remain open to OHV and non-
 20 motorized use, Alternative A has a relatively high likelihood for ongoing travel route-related impacts to these
 21 streams, riparian-area health, water quality, and fish habitat.

22 3.2.2.2.4 *Alternative B (Natural Resource Emphasis)*

23 Under Alternative B, 33.5 miles of evaluated routes proximate to 303(d)-listed streams would be designated
 24 for OHV use, a 56% reduction compared to Alternative A, and 10.0 miles would be limited to non-motorized
 25 use, a 47% reduction from Alternative A. Of the routes limited to non-motorized use, 0.3 miles would be
 26 newly constructed single-track, resulting in acres of disturbance shown below in Table 3.13.

27 **Table 3-13: Acres of Disturbance from Proposed New Trail Construction Within 300 Feet of 303(d)-Listed**
 28 **Streams Under Alternative B**

| | Designation | Acres of Short-Term | Acres of Long-Term |
|-----------------------|---|---------------------|--------------------|
| 303(d)-Listed Streams | Limited to non-motorized use (OHV-Closed) | 0.21 | 0.07 |

29 Within 300 feet of riparian areas, Alternative B would designate 17.6 miles of evaluated routes for OHV use, a
 30 55% reduction compared to Alternative A. Of the routes in riparian areas that would be closed to OHV use, 7.4
 31 miles would be designated for non-motorized use, a 16% reduction from Alternative A, and 24.5 miles would
 32 be decommissioned and reclaimed. Alternative B proposes 0.3 miles of new non-motorized single-track trail
 33 for construction within riparian areas, resulting in the acres of disturbance shown in Table 3.14.

34 **Table 3-14: Acres of Disturbance from Proposed New Trail Construction Within 300 Feet of Riparian Areas**
 35 **Under Alternative B**

| | Designation | Acres of Short-Term | Acres of Long-Term |
|----------|---|---------------------|--------------------|
| Riparian | Limited to non-motorized use (OHV-Closed) | 0.21 | 0.07 |

1 Under Alternative B, routes designated for OHV use would cross streams in BLM Sensitive fish habitat at 6
 2 locations, a reduction of 2 crossings compared to Alternative A; of the 6, 4 are bridges and 2 are culverts
 3 (which are considered barriers on Tex Creek and Howard Creek). Alternative B would close the single non-
 4 motorized route crossing a BLM Sensitive fish stream at a ford. Of the 4 crossings closed to the public under
 5 this alternative, 3 would remain available for authorized use only and 1, a ford, would be decommissioned and
 6 earmarked for reclamation. No new routes crossing streams are proposed for construction. Within 50 feet of
 7 BLM Sensitive fish habitat, Alternative B would designate 0.2 miles of evaluated routes for OHV use, a
 8 decrease of 0.2 miles from Alternative A; 0.6 miles would be closed and earmarked for reclamation.
 9 Alternative B does not propose any new routes for construction within 50 feet of BLM Sensitive fish habitat.
 10 Of the evaluated routes within 300 feet of BLM Sensitive fish habitat, Alternative B would designate 8.1 miles
 11 for OHV use, a 57% reduction compared to Alternative A; of the routes that would be closed to OHV use, 1.3
 12 miles would be designated for non-motorized use, a 68% reduction from Alternative A, and 14.8 miles would
 13 be decommissioned and earmarked for reclamation. Alternative B proposes construction of 0.2 miles of new
 14 non-motorized single-track trail within 300 feet of BLM Sensitive fish habitat, which would result in the acres
 15 of disturbance shown in Table 3.15.

16 **Table 3-15: Acres of Disturbance from Proposed New Trail Construction Within 300 Feet of BLM Sensitive**
 17 **Fish Habitat Under Alternative B**

| | Designation | Acres of Short-Term | Acres of Long-Term |
|-----------------------------|---|---------------------|--------------------|
| YCT Habitat (Within 300 ft) | Limited to non-motorized use (OHV-Closed) | 0.13 | 0.04 |

18 Despite the effects associated with construction of the new non-motorized single-track trails, Alternative B,
 19 with the fewest miles of routes crossing or near streams or riparian areas, would have the lowest potential for
 20 long-term adverse impacts to water quality and fish and aquatic habitat compared to the other alternatives.

21 *3.2.2.2.5 Alternative C (Multiple Use Emphasis)*

22 Under Alternative C, 40.0 miles of evaluated routes proximate to 303(d)-listed streams would be designated
 23 for OHV use, a 48% reduction compared to Alternative A, and 18.4 miles would be limited to non-motorized
 24 use, a 2% reduction from Alternative A. Of the routes open to all use, 0.2 miles would be newly constructed,
 25 and of the routes limited to non-motorized use, 3.4 miles would be newly constructed single-track., resulting in
 26 the acres of disturbance shown in Table 3.16.

27 **Table 3-16: Acres of Disturbance from Proposed New Route and Trail Construction Within 300 Feet of**
 28 **303(d)-Listed Streams Under Alternative C**

| | Designation | Acres of Short-Term | Acres of Long-Term |
|-----------------------|---|---------------------|--------------------|
| 303(d)-Listed Streams | Open to all use (OHV-Open) | 0.15 | 0.05 |
| | Limited to non-motorized use (OHV-Closed) | 2.95 | 1.31 |

29 Within 300 feet of riparian areas, Alternative C would designate 21.4 miles of evaluated routes for OHV use, a
 30 45% reduction compared to Alternative A. Of the routes in riparian areas that would be closed to OHV use,
 31 11.3 miles would be designated for non-motorized use, a 28% increase from Alternative A, and 16.3 miles
 32 would be decommissioned and reclaimed. Alternative C proposes 0.2 miles of newly constructed routes open
 33 to all use and 1.8 miles of new non-motorized single-track trails, resulting in the acres of disturbance in
 34 riparian areas shown in Table 3.17.

1 **Table 3-17: Acres of Disturbance from Proposed New Route and Trail Construction Within 300 Feet of**
 2 **Riparian Areas Under Alternative C**

| | Designation | Acres of Short-Term | Acres of Long-Term |
|----------------|---|---------------------|--------------------|
| Riparian Areas | Open to all use (OHV-Open) | 0.15 | 0.05 |
| | Limited to non-motorized use (OHV-Closed) | 1.27 | 0.42 |

3 Under Alternative C, routes designated for OHV use would cross streams in BLM Sensitive fish habitat at the
 4 same locations as in Alternative B, and, like Alternative B, no new routes are proposed that would include
 5 stream crossings. Within 50 feet of BLM Sensitive fish habitat, Alternative C would designate 0.2 miles of
 6 evaluated routes for OHV use, a decrease of 0.2 miles from Alternative A; of the routes that would be closed to
 7 OHV use, 0.1 miles would be designated for non-motorized use, a 75% reduction from Alternative A, and 0.6
 8 miles would be decommissioned and earmarked for reclamation. Alternative C proposes construction of 0.04
 9 miles of new non-motorized single-track trail within 50 feet of BLM Sensitive fish habitat, which would result
 10 in acres of disturbance as disclosed in Table 3.18, below. Of the evaluated routes within 300 feet of BLM
 11 Sensitive fish habitat, Alternative C would designate 9.9 miles for OHV use, a 48% reduction compared to
 12 Alternative A; of the routes that would be closed to OHV use, 3.3 miles would be designated for non-
 13 motorized use, a 20% reduction from Alternative A, and 11.2 miles would be decommissioned and earmarked
 14 for reclamation. Alternative C proposes 0.2 miles of new routes open to all use and 1.3 miles of new non-
 15 motorized single-track trail within 300 feet of BLM Sensitive fish habitat, resulting in acres of disturbance
 16 shown in Table 3.18.

17 **Table 3-18: Acres of Disturbance from Proposed New Route and Trail Construction Proximate to BLM**
 18 **Sensitive fish Habitat Under Alternative C**

| | Designation | Acres of Short-Term | Acres of Long-Term |
|-------------------------------|---|---------------------|--------------------|
| YCT Habitat (Within 50 Feet) | Limited to non-motorized use (OHV-Closed) | 0.03 | 0.01 |
| YCT Habitat (Within 300 Feet) | Open to all use (OHV-Open) | 0.12 | 0.04 |
| | Limited to non-motorized use (OHV-Closed) | 0.94 | 0.31 |

19 Despite the short-term effects associated with construction of new OHV routes and non-motorized single-track
 20 trails, Alternative C, with fewer miles crossing or near streams and riparian areas than Alternatives A and D,
 21 would have lower potential for long-term adverse impacts to water quality and fish and aquatic habitat, but
 22 higher potential than Alternative B.

23 **3.2.2.2.6 Alternative D (Access Emphasis)**

24 Under Alternative D, 50.9 miles of evaluated routes proximate to 303(d)-listed streams would be designated
 25 for OHV use, a 33% reduction compared to Alternative A, and 22.4 miles would be limited to non-motorized
 26 use, a 19% increase from Alternative A. Of the routes open to all use, 0.3 miles would be newly constructed,
 27 and of the routes limited to non-motorized use, 3.4 miles would be newly constructed, resulting in acres of
 28 disturbance as shown in Table 3.19.

29

1 **Table 3-19: Acres of Disturbance from Proposed New Route and Trail Construction Within 300 Feet of**
 2 **303(d)-Listed Streams Under Alternative D**

| | Designation | Acres of Short-Term | Acres of Long-Term |
|-----------------------|---|---------------------|--------------------|
| 303(d)-Listed Streams | Open to all use (OHV-Open) | 0.25 | 0.08 |
| | Limited to non-motorized use (OHV-Closed) | 6.82 | 2.60 |

3 Within 300 feet of riparian areas, Alternative D would designate 27.6 miles of evaluated routes for OHV use, a
 4 29% reduction compared to Alternative A. Of the routes in riparian areas that would be closed to OHV use,
 5 13.1 miles would be designated for non-motorized use, a 49% increase from Alternative A, and 10.9 miles
 6 would be decommissioned and reclaimed. Alternative D proposes 0.3 miles of new routes open to all use and
 7 4.3 miles of new non-motorized single-track trail for construction within 300 feet of riparian areas, resulting in
 8 acres of disturbance as shown in Table 3.20.

9 **Table 3-20: Acres of Disturbance from Proposed New Route and Trail Construction within 300 Feet of**
 10 **Riparian Areas Under Alternative D**

| | Designation | Acres of Short-Term | Acres of Long-Term |
|----------------|---|---------------------|--------------------|
| Riparian Areas | Open to all use (OHV-Open) | 0.25 | 0.08 |
| | Limited to non-motorized use (OHV-Closed) | 3.16 | 1.05 |

11 Under Alternative D, routes designated for OHV use would cross streams in BLM Sensitive fish habitat at 8
 12 locations, a reduction of 1 crossing compared to Alternative A; of the 8, 4 are bridges, 3 are culverts (including
 13 those identified as barriers on Tex Creek and Howard Creek), and 1 is a ford. Of the 2 crossings that would be
 14 closed to the public under this alternative, 1 would remain available for authorized use only and 1, a ford,
 15 would be decommissioned and earmarked for reclamation. No new routes crossing streams are proposed for
 16 construction. Within 50 feet of BLM Sensitive fish habitat, Alternative D would designate 0.3 miles of
 17 evaluated routes for OHV use, a decrease of 0.1 miles from Alternative A; of the routes that would be closed to
 18 OHV use, 0.4 miles would be designated for non-motorized use, a slight reduction from Alternative A, and 0.5
 19 miles would be decommissioned and earmarked for reclamation. Alternative D proposes construction of 0.4
 20 miles of new non-motorized single-track trail within 50 feet of BLM Sensitive fish habitat, which would result
 21 in acres of disturbance as disclosed in Table 3.21, below. Of the evaluated routes within 300 feet of BLM
 22 Sensitive fish habitat, Alternative D would designate 14.0 miles for OHV use, a 26% reduction compared to
 23 Alternative A; of the routes that would be closed to OHV use, 5.5 miles would be designated for non-
 24 motorized use, a 34% increase from Alternative A, and 7.6 miles would be decommissioned and earmarked for
 25 reclamation. Alternative D proposes construction of 0.2 miles of new routes open to all use and 3.7 miles of
 26 new non-motorized single-track trail within 300 feet of BLM Sensitive fish habitat, which would result in
 27 acres of disturbance as shown in Table 3.21.

28

1 **Table 3-21: Acres of Disturbance from Proposed New Route and Trail Construction Proximate to BLM**
 2 **Sensitive fish Habitat Under Alternative D**

| | Designation | Acres of Short-Term | Acres of Long-Term |
|-------------------------------|---|---------------------|--------------------|
| YCT Habitat (Within 50 Feet) | Limited to non-motorized use (OHV-Closed) | 0.27 | 0.09 |
| YCT Habitat (Within 300 Feet) | Open to all use (OHV-Open) | 0.14 | 0.05 |
| | Limited to non-motorized use (OHV-Closed) | 2.72 | 0.91 |

3 Despite the short-term effects associated with construction of new OHV routes and non-motorized single-track
 4 trails, Alternative D, with fewer miles crossing or near stream and riparian areas than Alternative A, would
 5 have lower potential for long-term adverse impacts to water quality and fish and aquatic habitat, but higher
 6 potential for effects than Alternatives B and C.

7 **3.2.3 Wildlife: Special Status Species**

8 *How would the designated travel route network impact special status wildlife in the TMA?*

9 **3.2.3.1 Affected Environment**

10 **3.2.3.1.1 ESA-Listed Wildlife Species**

11 The wildlife species below are listed as Threatened or Endangered under the ESA and have the potential to
 12 occur in the TMA. See Table 3.24, below, for species habitat acreage within the TMA and miles of evaluated
 13 routes within each habitat.

- 14 • **Canada lynx (*Lynx canadensis*) – Threatened:** The Canada lynx was listed as threatened on March
 15 24, 2000 (65 FR 16052 16086). Critical habitat was designated on November 9, 2006, though no
 16 critical habitat is located in the TMA. Lynx inhabit boreal and montane areas comprised mainly of
 17 coniferous or mixed forest accompanied by thick undergrowth. They may also use other habitats (open
 18 forests, rocky regions, tundra, etc.) to pursue prey when it is plentiful. Dens are typically in hollow
 19 trees, thick brush, or under stumps. Snowshoe hares (*Lepus americanus*) are a major lynx food source,
 20 and limitations on snowshoe hair winter habitat may also impact lynx. Habitat has been lost due to
 21 suppression of forest fires and ecological succession to habitats that no longer support snowshoe hare
 22 and lynx. Fragmentation, due to forestry, agriculture, and roads, and the subsequent isolation of
 23 suitable habitat is also a concern. Travel routes cause habitat fragmentation and allow increased
 24 human access into lynx habitat; this may increase lynx mortality by facilitating incidental harvest in
 25 the course of legal trapping. Increased winter recreation (snowmobiles, ski area development) may be
 26 causing displacement or incidental mortality of lynx. Habitat changes and increased access into lynx
 27 habitats has resulted in increased competition and displacement of lynx by bobcat and coyote in some
 28 areas (NSE 2022). Lynx occurrences have been documented adjacent to the project area on USFS
 29 lands and lynx may use BLM lands in the TMA as transitional habitat. The area of interest (AOI) for
 30 lynx includes 6,395 acres on BLM lands within the TMA.
- 31 • **Grizzly bear (*Ursus arctos horribilis*) – Threatened:** The grizzly bear was listed as threatened on
 32 July 28, 1975 (40 FR 31734 31736). Grizzly bears are opportunistic omnivores that adapt to a wide
 33 range of habitats, though they are typically found in areas isolated from human encroachment (their
 34 available habitat is largely determined by human activities) in evergreen forest, vegetated rock, and
 35 riparian cover types. Grizzlies need food, seasonal foraging habitat, denning habitat, and security in an
 36 area of sufficient size for survival. Historically, grizzly bear populations survived in areas with large

expanses of secure habitat and where frequencies of human contact were low. Fragmentation from roads, logging, OHV use, and surrounding recreational development reduce quality habitat (BLM 2009, IGBC 2016). IGBC identifies managing motorized access to meet the objectives of minimizing human interaction and potential grizzly bear mortality; minimizing displacement from important habitats; minimizing habituation to humans; and providing relatively secure habitat where energetic requirements can be met. IGBC also states that “the management of human use levels through access route management is one of the most powerful tools available to balance the needs of grizzly bears with the needs and activities of humans” (2016). In the TMA, grizzly bears are part of the Greater Yellowstone population. Northeast portions of the TMA are located in the Grizzly Bear Primary Conservation Area (PCA). The PCA is defined as “a secure area for grizzly bears, with population and habitat conditions maintained to ensure a recovered population is maintained for the foreseeable future and to allow bears to continue to expand outside the PCA” (IGBC 2016). The PCA has provided the vast majority of habitat for the Greater Yellowstone population.

- Yellow-billed cuckoo (*Coccyzus americanus occidentalis*) – Threatened:** The western yellow-billed cuckoo was listed as threatened on October 3, 2014 (79 FR 59991 60038). Critical habitat was designated on April 21, 2021 (86 FR 20798 21005) and includes 298,845 acres in Arizona, California, Colorado, Idaho, New Mexico, Texas, and Utah. The yellow-billed cuckoo is migratory with a broad distribution. It is a riparian obligate species found intermittently throughout the western United States that nests in low to moderate elevation deciduous riparian woodlands (USFWS 2015). They are most commonly associated with cottonwood-willow-dominated vegetation cover. Nesting often takes place in willows along streams and rivers, with nearby cottonwoods serving as foraging sites. Threats to the species include riparian habitat loss associated with disruption of hydrological processes; livestock overgrazing; development activities and extractive uses; expansion of nonnative vegetation; and uncontrolled wildfire (79 FR 48547 48652). The cuckoo may occur throughout riparian regions in the TMA (riparian area details are available in Section 3.2.2 of this EA) and portions of the Snake River corridor within the TMA have been designated as critical habitat.

Table 3-22: Acres of ESA-Listed Wildlife Species Habitats and Miles of Evaluated Routes within Habitats

| ESA-Listed Wildlife Habitats | BLM Acres | Miles |
|--|-----------|-------|
| Canada lynx area of interest (AOI) | 6,395 | 39.3 |
| Grizzly bear habitat | 63,990 | 340.1 |
| Yellow-billed cuckoo designated critical habitat | 8,965 | 44.5 |

3.2.3.1.2 BLM Special Status Wildlife Species

There are several animals inhabiting the TMA that are classified as Type 2 Idaho BLM Sensitive Species. BLM Type 2 animal species are those for which there is information that a species has recently undergone, is undergoing, or is predicted to undergo a downward trend such that the viability of the species or a distinct population segment of the species is at risk across all or a significant portion of the species range; or the species depends on ecological refugia or specialized or unique habitats on BLM-administered lands, and there is evidence that such areas are threatened with alteration such that the continued viability of the species in that area would be at risk. Type 2 species also include USFWS Proposed and Candidate species, ESA species delisted during the past 5 years, ESA Experimental Non-essential species, and ESA Proposed Critical Habitat.

Table 3.23, below, presents special status wildlife species for the USFO and indicates whether each species has the potential to occur in the TMA and is considered for detailed analysis that follows.

Table 3-23: Special Status Wildlife Species

| Species | Management Status | Potential to Occur in TMA? | Considered for Detailed Analysis? | Notes/Habitat |
|--|-------------------|----------------------------|-----------------------------------|--|
| Amphibians | | | | |
| Northern Leopard Frog (<i>Lithobates pipiens</i>) | BLM Sensitive | Yes | No | |
| Western Toad (<i>Anaxyrus boreas</i>) | BLM Sensitive | Yes | No | |
| Birds | | | | |
| Yellow-Billed Cuckoo (<i>Coccyzus americanus</i>) | Threatened | Yes | Yes | Migratory with a broad distribution. Nesting often takes place in willows along streams and rivers, with nearby cottonwoods serving as foraging sites; the cuckoo may occur throughout riparian regions in the TMA and portions of the Snake River corridor within the TMA have been designated as critical habitat. |
| Bald Eagle (<i>Haliaeetus leucocephalus</i>) | BLM Sensitive | Yes | Yes | Suitable habitat includes nesting structures, foraging perches, resting perches, and safety from disturbance. |
| Black-Throated Sparrow (<i>Amphispiza bilineata</i>) | BLM Sensitive | Yes | No | |

| Species | Management Status | Potential to Occur in TMA? | Considered for Detailed Analysis? | Notes/Habitat |
|---|-------------------|----------------------------|-----------------------------------|---|
| Burrowing Owl (<i>Athene cunicularia</i>) | BLM Sensitive | Yes | No | Nests in treeless areas within grassland, shrub-steppe, and desert habitats. |
| Columbian Sharp-Tailed Grouse (<i>Tympanuchus phasianellus columbianus</i>) | BLM Sensitive | Yes | Yes | Dense herbaceous cover and mountain shrub patches characterize Columbian sharp-tailed grouse habitat in the Idaho Falls District Office. |
| Ferruginous Hawk (<i>Buteo regalis</i>) | BLM Sensitive | Yes | Yes | Primarily found in the Snake River Plain; however, it is distributed all throughout southern Idaho. |
| Flammulated Owl (<i>Psiloscops flammeolus</i>) | BLM Sensitive | Yes | No | Within the TMA, flammulated owl nests are found in forested areas, largely on USFS lands. Because there are no evaluated routes within ¼ mile of nests, the flammulated owl will not be analyzed in detail. |

| Species | Management Status | Potential to Occur in TMA? | Considered for Detailed Analysis? | Notes/Habitat |
|--|-------------------|----------------------------|-----------------------------------|---|
| Golden Eagle (<i>Aquila chrysaetos</i>) | BLM Sensitive | Yes | No | Nests primarily in mountainous or hilly terrain, canyons, and rocky outcrops within shrub-steppe, grasslands, and woodland edges. |
| Grasshopper Sparrow (<i>Ammodramus savannarum</i>) | BLM Sensitive | Yes | No | |
| Greater Sage-Grouse (<i>Centrocercus urophasianus</i>) | BLM Sensitive | Yes | Yes | The TMA has PHMA, GHMA, and IHMA on BLM lands. |
| Green-Tailed Towhee (<i>Pipilo chlorurus</i>) | BLM Sensitive | Yes | No | |
| Lewis's Woodpecker (<i>Melanerpes lewis</i>) | BLM Sensitive | Yes | No | |
| Loggerhead Shrike (<i>Lanius ludovicianus</i>) | BLM Sensitive | Yes | No | Nest in shrubs or small trees within a variety of habitats including prairies, pastures, and shrub-steppe deserts. |
| Long-Billed Curlew (<i>Numenius americanus</i>) | BLM Sensitive | Yes | No | |
| Northern Goshawk (<i>Accipiter gentilis</i>) | BLM Sensitive | Yes | No | Old growth conifer/mix. |
| Olive-Sided Flycatcher (<i>Contopus cooperi</i>) | BLM Sensitive | Yes | No | |

| Species | Management Status | Potential to Occur in TMA? | Considered for Detailed Analysis? | Notes/Habitat |
|---|-------------------|----------------------------|-----------------------------------|--|
| Pinyon Jay (<i>Gymnorhinus cyanocephalus</i>) | BLM Sensitive | Yes | No | |
| Sage Thrasher (<i>Oreoscoptes montanus</i>) | BLM Sensitive | Yes | No | Sagebrush obligate species. Nests exclusively in sagebrush-steppe habitats, particularly large expanses of continuous sagebrush cover |
| Sagebrush Sparrow (<i>Artemisospiza nevadensis</i>) | BLM Sensitive | Yes | No | Sagebrush obligate species. Nests exclusively in sagebrush-steppe habitats, particularly large expanses of continuous sagebrush cover. |
| Short-Eared Owl (<i>Asio flammeus</i>) | BLM Sensitive | Yes | No | Nests on ground within shrub-steppe, grasslands, agricultural areas, and other open habitat types. |
| Trumpeter Swan (<i>Cygnus buccinator</i>) | BLM Sensitive | Yes | No | Lakes and large ponds. |
| Virginia's Warbler (<i>Leiothlypis virginiae</i>) | BLM Sensitive | Yes | No | |
| Willow Flycatcher (<i>Empidonax traillii</i>) | BLM Sensitive | Yes | No | |
| Fish | | | | |
| Bull Trout (<i>Salvelinus confluentus</i>) | Threatened | No | No | |

| Species | Management Status | Potential to Occur in TMA? | Considered for Detailed Analysis? | Notes/Habitat |
|--|--------------------------|----------------------------|-----------------------------------|--|
| Bluehead Sucker/Green Sucker (<i>Catostomus discobolus</i>) | BLM Sensitive | Yes | Yes | Taxonomic split with green sucker is pending. Widely distributed in the TMA; generally occurs alongside Yellowstone cutthroat trout. |
| Yellowstone Cutthroat Trout (<i>Oncorhynchus clarkii bouvieri</i>) | BLM Sensitive | Yes | Yes | Regional conservation priority. Widely distributed in the TMA. |
| Invertebrates | | | | |
| Ashy Pebblesnail (<i>Fluminicola fuscus</i>) | BLM Sensitive | Yes | No | |
| Blind Cave Leiodid Beetle (<i>Glacivicola bathysciodes</i>) | BLM Sensitive | Yes | No | |
| California Floater (<i>Anodonta californiensis</i>) | BLM Sensitive | Yes | No | |
| Idaho Point-Headed Grasshopper (<i>Acrolophitus pulchellus</i>) | BLM Sensitive | Yes | No | |
| Monarch Butterfly (<i>Danaus plexippus</i>) | Candidate, BLM Sensitive | Yes | No | |
| St. Anthony Sand Dunes Tiger Beetle (<i>Cicindela arenicola</i>) | BLM Sensitive | Yes | No | |
| Suckley's Cuckoo Bumble Bee (<i>Bombus suckleyi</i>) | BLM Sensitive | Yes | No | |

| Species | Management Status | Potential to Occur in TMA? | Considered for Detailed Analysis? | Notes/Habitat |
|---|-------------------|----------------------------|-----------------------------------|---|
| Western Bumble Bee (<i>Bombus occidentalis</i>) | BLM Sensitive | Yes | No | |
| Mammals | | | | |
| Canada Lynx (<i>Lynx canadensis</i>) | Threatened | Yes | Yes | Lynx occurrences have been documented adjacent to the project area on USFS lands and lynx may use BLM lands in the TMA as transitional habitat. |
| Grizzly Bear (<i>Ursus arctos horribilis</i>) | Threatened | Yes. Present in TMA. | Yes | Grizzlies are present in the TMA and portions of the TMA are located in the Grizzly Bear Primary Conservation Area. |
| Big Brown Bat (<i>Eptesicus fuscus</i>) | BLM Sensitive | Yes | No | |
| Bighorn Sheep (<i>Ovis canadensis</i>) Rocky Mountain and California | BLM Sensitive | Yes | No | Alpine meadows, mountain slopes, and foothills. |
| Fisher (<i>Pekania pennanti</i>) | BLM Sensitive | Yes | No | Mature forest |
| Gray Wolf (<i>Canis lupus</i>) | BLM Sensitive | Yes | No | Habitat generalists, ranging from thick forested mountain slopes to open grasslands. |
| Hoary Bat (<i>Lasiurus cinereus</i>) | BLM Sensitive | Yes | No | |

| Species | Management Status | Potential to Occur in TMA? | Considered for Detailed Analysis? | Notes/Habitat |
|---|-------------------|----------------------------|-----------------------------------|--|
| Little Brown Myotis (<i>Myotis lucifugus</i>) | BLM Sensitive | Yes | No | Typically associated with forested habitats, but also forage within shrub-steppe and other open habitats. |
| Long-Eared Myotis (<i>Myotis evotis</i>) | BLM Sensitive | Yes | No | |
| Long-Legged Myotis (<i>Myotis volans</i>) | BLM Sensitive | Yes | No | |
| Pallid Bat (<i>Antrozous pallidus</i>) | BLM Sensitive | Yes | No | |
| Pygmy Rabbit (<i>Brachylagus idahoensis</i>) | BLM Sensitive | Yes | No | Sagebrush obligate species. Inhabit dense, tall stands of big sagebrush and create extensive burrow systems. |
| Silver-Haired Bat (<i>Lasionycteris noctivagans</i>) | BLM Sensitive | Yes | No | |
| Spotted Bat (<i>Euderma maculatum</i>) | BLM Sensitive | Yes | No | Caves, cliffs. |
| Townsend's Big-Eared Bat (<i>Corynorhinus townsendii</i>) | BLM Sensitive | Yes | No | Forages in shrub-steppe, forest edges, and open fields. Hibernation and maternity roosting typically occurs in caves or mines. |

| Species | Management Status | Potential to Occur in TMA? | Considered for Detailed Analysis? | Notes/Habitat |
|---|-------------------|----------------------------|-----------------------------------|--|
| Western Small-Footed Myotis (<i>Myotis ciliolabrum</i>) | BLM Sensitive | Yes | No | Forages in shrub-steppe, forest edges, and open fields. Hibernation and maternity roosting typically occurs in caves or mines. |
| Wolverine (<i>Gulo gulo</i>) | BLM Sensitive | Yes | No | Recorded occurrences within the project area mainly occur on adjacent USFS lands in subalpine coniferous habitats. Lands within the TMA serve as transitional range. |
| Yuma Myotis (<i>Myotis yumanensis</i>) | BLM Sensitive | Yes | No | |

1

2 **Table 3-24: Acres of BLM Sensitive Wildlife Species Habitats and Miles of Evaluated Routes Within Habitats**

| BLM Sensitive Wildlife Habitats | Prox. Distance | BLM Acres | Miles of Evaluated Routes |
|------------------------------------|----------------|-----------|---------------------------|
| Bald eagle nests | 1 mile | 11,201 | 51.4 |
| Columbian sharp-tailed grouse leks | ¼ mile | 697 | 1.2 |
| Ferruginous hawk nests | 1 mile | 1,008 | 7.7 |
| Greater sage-grouse leks | ¼ mile | 739 | 5.4 |
| Greater sage-grouse PHMA | - | 2,837 | 28.8 |
| Greater sage-grouse GHMA | - | 15,649 | 89.5 |
| Greater sage-grouse IHMA | - | 54,475 | 327.0 |

3 Note: there is no route-related habitat data available for wolverine so it is not included in the quantitative
 4 analysis of the alternative networks, but it can be assumed that alternatives with more route closures and
 5 reclamation would have reduced impacts on wolverine.

1 3.2.3.2 Environmental Effects

2 3.2.3.2.1 *Direct or Indirect Effects Common to All Alternatives*

3 OHV and recreation use have been shown to have adverse effects on ESA-listed and BLM sensitive wildlife
4 species and their habitats. Such effects as direct mortality from encounters with OHVs or recreational shooting
5 that results in deliberate targeting of animals can occur. Recreation users traveling off designated routes (e.g.,
6 by foot, OHV, horse) can lead to the alteration or destruction of foraging, burrowing, or nesting habitats or
7 disturbance to sensitive wildlife using the area. Because of this, travel routes adjacent to nesting, burrowing, or
8 riparian areas are of particular concern. Even when users remain on established routes or previously disturbed
9 areas, disturbance from other access-related recreation uses can cause behavioral changes resulting in flight
10 and vigilance, and disruption or displacement of breeding, nesting, and foraging activities (Ouren et al. 2007,
11 Brooks and Lair 2005).

12 An example of an indirect impact from OHV and recreation use that can alter behavior is the noise produced,
13 which can negatively impact birds by affecting nest-site selection or masking biologically important sounds,
14 including mating calls or predator and prey sounds (Ortega 2012). Many animal species also respond to human
15 presence in the same manner they respond to predator presence. This results in increased expenditures of time
16 and energy towards avoiding humans and decreased expenditures of time and energy towards beneficial
17 activities like foraging or caring for young. These behavioral changes can cause declines in abundance and
18 occupancy, reduced reproductive success, and altered species richness and community composition (Larson et
19 al. 2016). Other indirect effects include habitat fragmentation from road networks or other development, loss
20 of woody habitat from firewood cutting, loss of hydrologic function in riparian areas from travel route
21 compaction, and the introduction of noxious weeds and invasive species (from OHV and recreation-related soil
22 disturbance), which can outcompete native vegetation used for foraging, security and thermal cover, nesting,
23 etc.

24 OHV routes and access-related recreational uses can be detrimental to special status animals and their habitats
25 in all alternatives. However, in general, routes closed to OHV travel would help minimize effects to special
26 status animals by reducing access and associated human uses and disturbances. Also, more diverse networks
27 that provide for unique OHV or access-related user opportunities can help reduce the inclination for users to
28 travel off-route or off-site. Authorized access that limits OHV use to authorized users only can be beneficial to
29 special status animals by reducing the frequency and volume of use and associated disturbance, while still
30 providing access for resource management activities.

31 TMP implementation activities that could affect wildlife and their habitats include preparation of new maps
32 and brochures that would benefit wildlife and wildlife habitat by helping to direct and keep users on designated
33 routes. Installation of new information kiosks and signs; road, trail and parking area maintenance or
34 improvements; route reclamation, including ripping the ground and planting seed, grading/recontouring; and
35 installation of fencing or barriers could result in some minor habitat or behavioral disturbance. The removal of
36 vegetation due to actions described above may impact wildlife by reducing the amount of habitat that could
37 otherwise be available as potential cover, foraging, and/or nesting habitat. Although some habitat may be
38 removed or disturbed as a result of these actions, it is expected that the reduction of habitat would be localized
39 and temporary. Areas disturbed would be reseeded, treated, and monitored for weeds; recovery of herbaceous
40 vegetation and some brush within a 5-year period is expected. In the case of route reclamation, wildlife habitat
41 within the footprint of these areas will be gained. As areas naturally revegetate, habitat conditions would be
42 expected to improve due to increased availability of features such as cover and food sources.

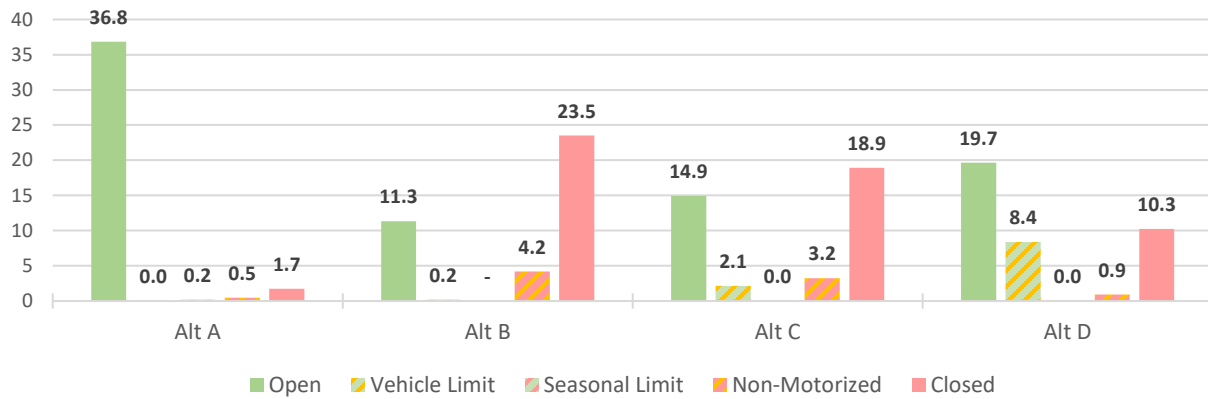
43 3.2.3.2.2 *Impact Indicators*

44 Indicators of the potential route impacts described above on special status wildlife species include the miles of
45 routes in each species habitat. The figures below show the miles of evaluated routes in each alternative

1 network that are in special status species habitats to compare the action alternatives (B-D) to the baseline,
 2 Alternative A. More detailed data tables may be found in Appendix C.

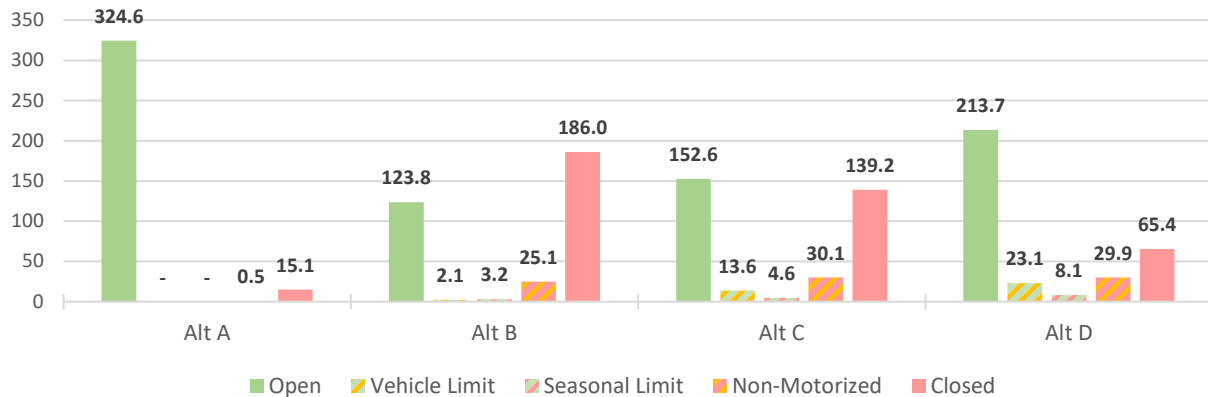
3 *It is important to note that routes proposed for new construction are in areas that, compared to many user-
 4 created routes that currently exist, can be more effectively maintained and managed to mitigate impacts from
 5 the routes and their use. Overall, the action alternatives would result in a net decrease in miles of routes
 6 available for use.*

7 **Figure 3-20: Miles of Evaluated Routes in Canada Lynx Area of Interest**



8

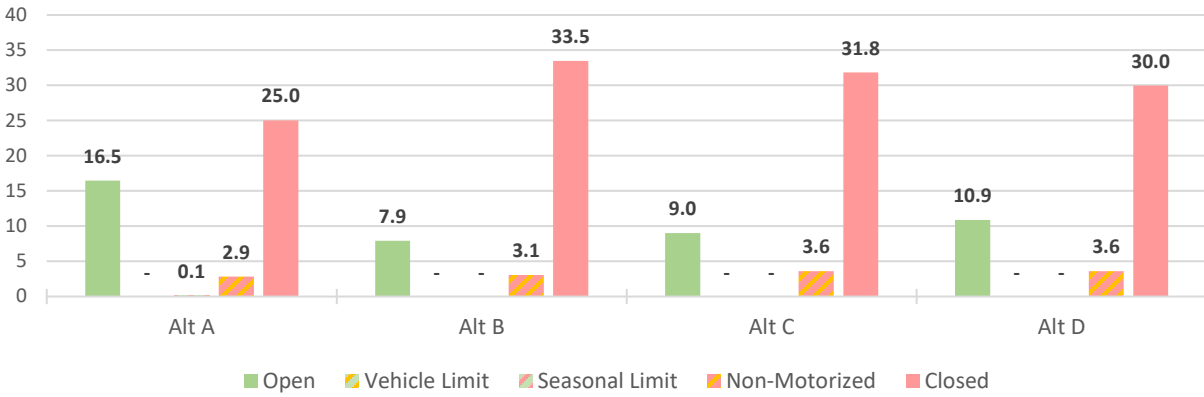
9 **Figure 3-21: Miles of Evaluated Routes in Grizzly Bear Current Range**



10

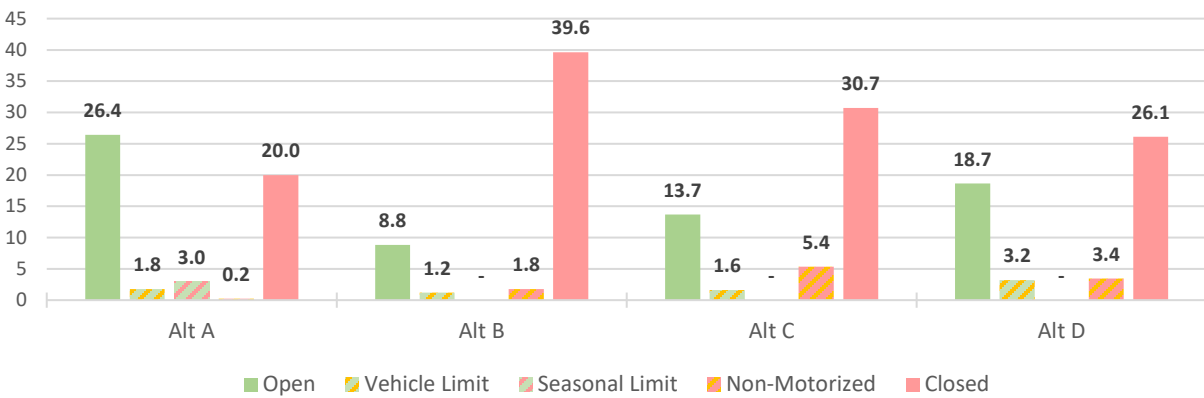
11

1 **Figure 3-22: Miles of Evaluated Routes in Yellow-Billed Cuckoo Designated Critical Habitat**



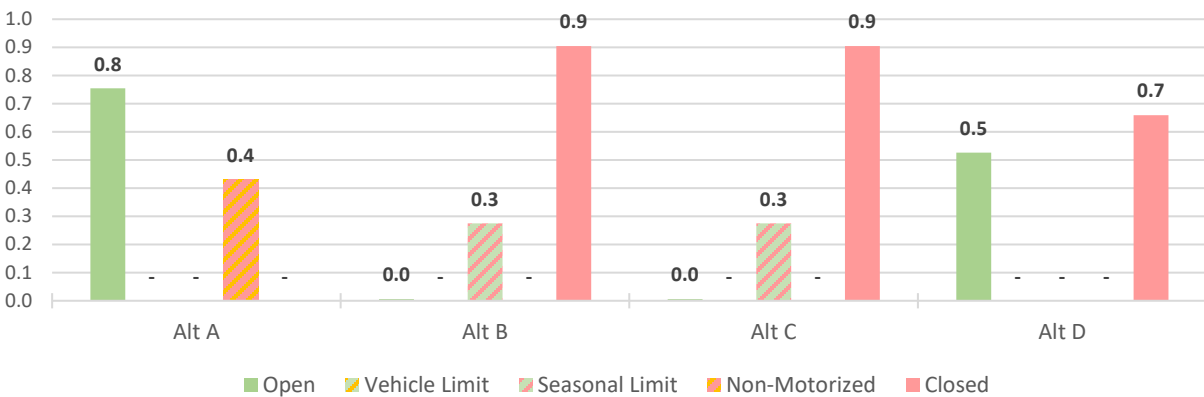
2

3 **Figure 3-23: Miles of Evaluated Routes Within 1 Mile of Bald Eagle Nests**



4

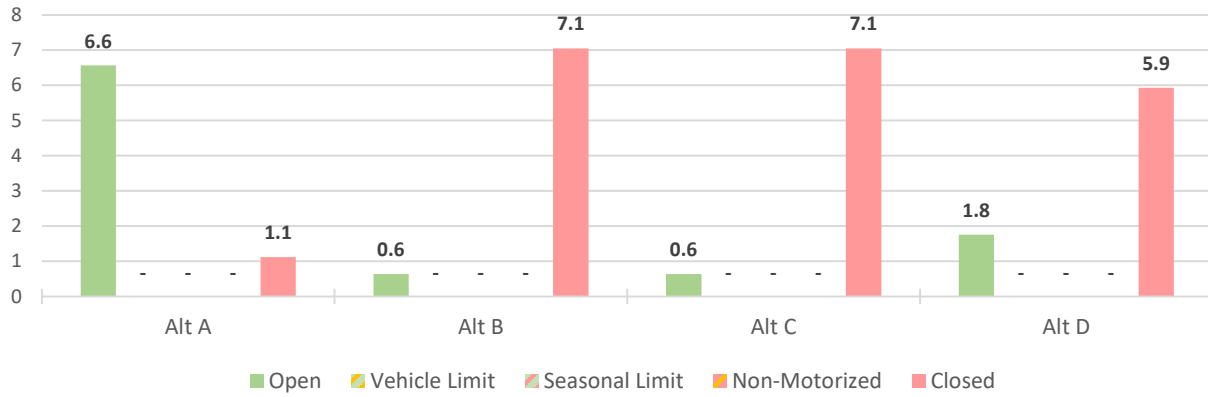
5 **Figure 3-24: Miles of Evaluated Routes Within 1/4 Mile of Columbian Sharp-Tailed Grouse Lek**



6

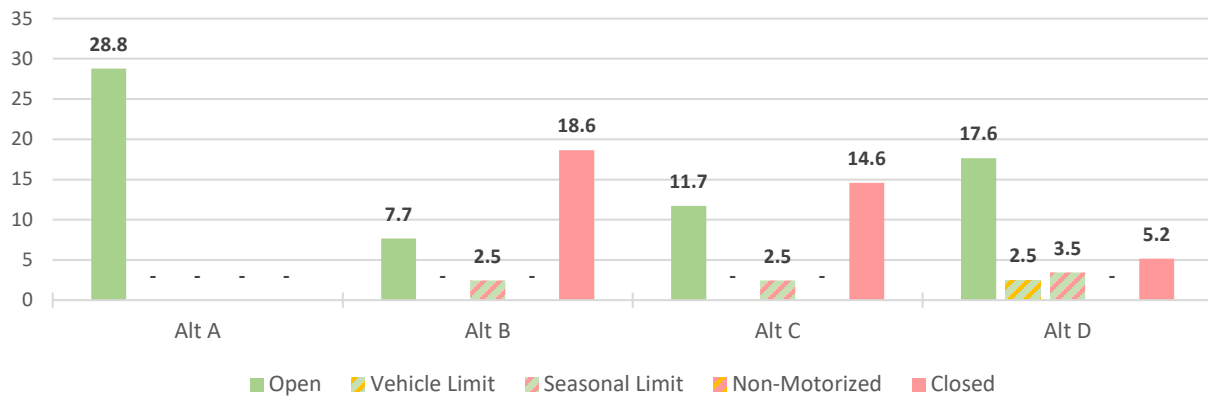
7

1 **Figure 3-25: Miles of Evaluated Routes Within 1 Mile of Ferruginous Hawk Nests**



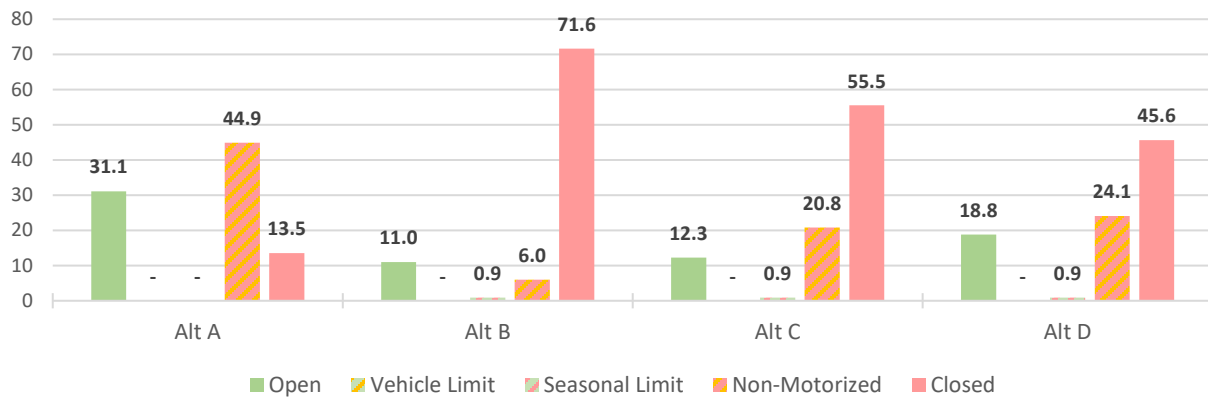
2

3 **Figure 3-26: Miles of Evaluated Routes in Greater Sage-Grouse PHMA**



4

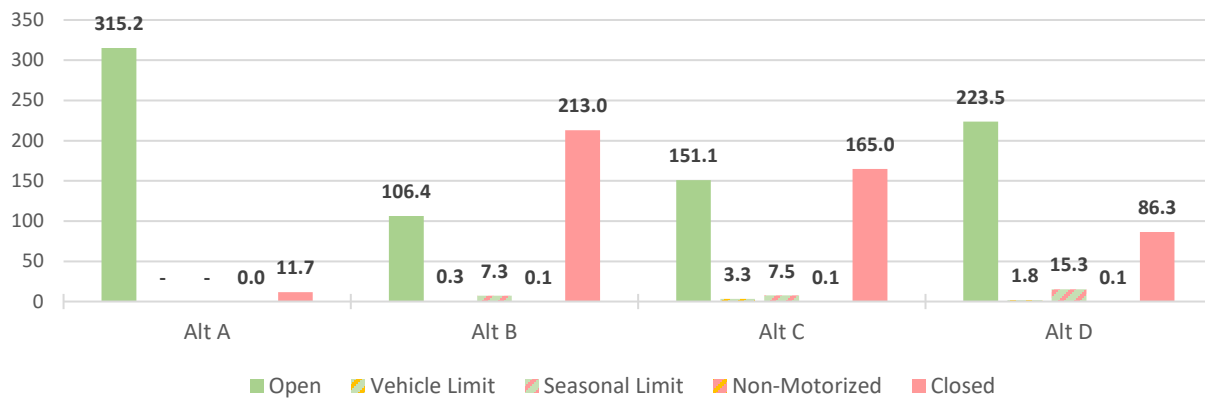
5 **Figure 3-27: Miles of Evaluated Routes in Greater Sage-Grouse GHMA**



6

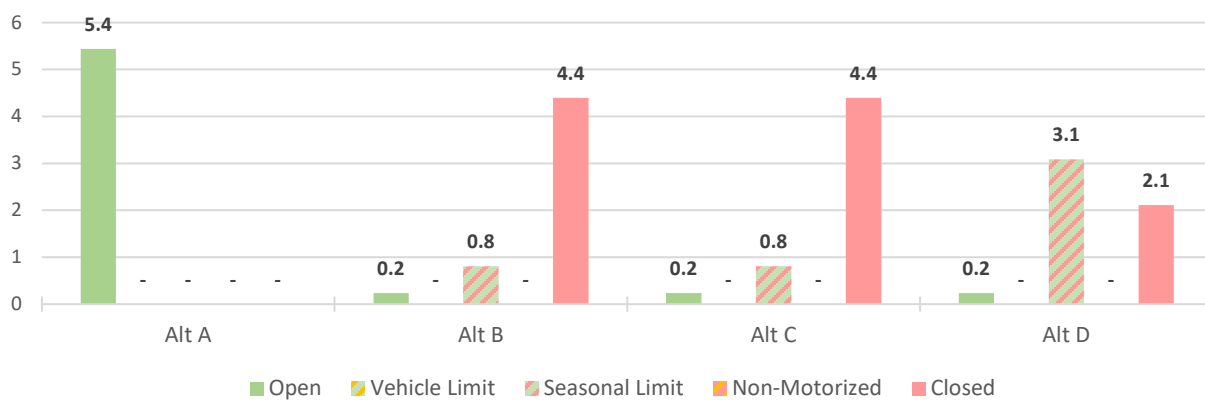
7

1 **Figure 3-28: Miles of Evaluated Routes in Greater Sage-Grouse IHMA**



2

3 **Figure 3-29: Miles of Evaluated Routes Within 1/4 Mile of Greater Sage-Grouse Leaks**



4

5 **3.2.3.2.3 Alternative A (Current Management)**

6 For ESA-listed wildlife species, under Alternative A, 94% of the 39.3 evaluated network miles in the lynx AOI
 7 are available for OHV use, 1% (0.5 miles) are non-motorized trails, and the rest are closed to public OHV use.
 8 In grizzly bear habitat, 96% of the 340.1 evaluated network miles are available for OHV use, less than 1% are
 9 limited to non-motorized use, and the rest are closed to public OHV use. In yellow-billed cuckoo designated
 10 critical habitat, 37% of the 44.5 evaluated network miles are available for OHV use, 7% are limited to non-
 11 motorized use, and the rest are closed to public OHV use.

12 In BLM Sensitive wildlife habitats, under Alternative A, 61% of the 51.4 evaluated network miles within 1
 13 mile of bald eagle nests would remain available for OHV use, less than 1% limited to non-motorized use, 23%
 14 limited to authorized use only, and the rest would remain closed. Of the 1.2 evaluated miles proximate to
 15 Columbian sharp-tailed grouse leks, 0.8 miles would remain available for OHV use and the rest would remain
 16 limited to non-motorized use. Of the 7.7 miles of evaluated routes proximate to ferruginous hawk nests, 86%
 17 are available for OHV use and the rest are closed. Within PHMA for GRSG, all 28.8 miles of evaluated routes
 18 are currently open to OHV use with no restrictions; within GHMA, 35% of the 89.5 miles of evaluated routes
 19 are currently open to OHV use and 50% are limited to non-motorized use, 2% are limited to authorized users
 20 only, and the rest are closed; within IHMA, 96% are open to OHV use, 0.04 miles are limited to non-
 21 motorized use, and the rest are closed. All 5.4 miles of evaluated routes proximate to GRSG leks would remain
 22 open to OHV use.

1 Overall, the Alternative A travel network would reflect a continuation of current management. With the
 2 highest number of routes and miles open to public OHV use, it would have the highest potential for the types
 3 of adverse route-related impacts discussed above (e.g., disturbance, displacement, mortality or injury, loss of
 4 foraging, loss of cover and breeding habitat, avoidance, and fragmentation) to listed and sensitive species of
 5 any of the route network alternatives.

6 *3.2.3.2.4 Alternative B (Natural Resource Emphasis)*

7 Under Alternative B, the miles of evaluated routes designated for OHV use (OHV-Open or OHV-Limited) in
 8 or proximate to habitats for ESA-listed wildlife species would be reduced by 69% in Canada lynx AOI, 60% in
 9 grizzly bear habitat, and 52% in yellow-billed cuckoo designated critical habitat. For non-motorized use within
 10 ESA-listed wildlife species habitats, Alternative B would designate 4.2 miles in lynx AOI, a 3.7-mile increase
 11 from Alternative A; 25.1 miles in grizzly bear habitat, a 24.6-mile increase from Alternative A; and 3.1 miles
 12 in yellow-billed cuckoo designated critical habitat, a 0.2-mile increase from Alternative A. After accounting
 13 for routes limited to authorized users, Alternative B proposes to close and earmark for decommissioning and
 14 reclamation 53% of the existing miles in lynx AOI, 44% of the existing miles in grizzly bear habitat, and 38%
 15 of the existing miles in yellow-billed cuckoo designated critical habitat. Alternative B does not propose any
 16 new route construction in lynx AOI or in yellow-billed cuckoo designated critical habitat. In grizzly bear
 17 habitat, Alternative B proposes 0.1 miles of new route construction limited by seasonal restrictions, 0.2 miles
 18 limited to authorized users only, and 2.7 miles limited to non-motorized use; this new route and trail
 19 development would result in acres of disturbance as shown in Table 3.25.

20 **Table 3-25: Acres of Disturbance from Proposed New Route and Trail Construction in Grizzly Bear Habitat**
 21 **Under Alternative B**

| | Designation | Acres of Short-Term | Acres of Long-Term |
|----------------------|--|---------------------|--------------------|
| Grizzly Bear Habitat | Limited by seasonal restrictions (OHV-Limited) | 0.06 | 0.02 |
| | Limited to authorized users (OHV-Closed) | 0.38 | 0.27 |
| | Limited to non-motorized use (OHV-Closed) | 2.00 | 0.67 |

22 The miles of evaluated routes **designated for OHV use** in or proximate to BLM Sensitive wildlife species
 23 habitats under this alternative would see reductions ranging from 62% for Columbian sharp-tailed leks to 91%
 24 for ferruginous hawk nests. Of the evaluated routes proposed for OHV use proximate to GRSG leks under this
 25 alternative, all but one route would have timing restrictions to help protect GRSG during lekking season; the
 26 only exception is Rick’s Pasture Road, administered by IDFG. For **non-motorized use** within BLM Sensitive
 27 wildlife species habitats, Alternative B would result in reductions for Columbian sharp-tailed grouse leks (-0.4
 28 miles) and GRSG GHMA (-38.9 miles); no change for ferruginous hawk nests, GRSG PHMA, or GRSG leks;
 29 and increases for bald eagle nests (+1.6 miles) and GRSG IHMA (+0.1 miles). After accounting for routes that
 30 would be limited to authorized users only, Alternative B proposes **to close and reclaim** existing miles in these
 31 habitats ranging from 42% (proximate to bald eagle nests) to 78% (proximate to GRSG leks). Alternative B
 32 **proposes the construction** of 0.1 miles of new non-motorized single-track trail within 1 mile of bald eagle
 33 nests that would result in acres of disturbance as shown in Table 3.26. Alternative B does not propose new
 34 route construction in or proximate to other BLM Sensitive wildlife species habitats.

35

1 **Table 3-26: Acres of Disturbance from Proposed New Trail Construction in BLM Sensitive Wildlife Species**
 2 **Habitats Under Alternative B**

| | Designation | Acres of Short-Term | Acres of Long-Term |
|----------------------------------|---|---------------------|--------------------|
| Bald Eagle Nests (Within 1 Mile) | Limited to non-motorized use (OHV-Closed) | 0.08 | 0.03 |

3 Of the routes and miles in or near special status wildlife species habitats that are closed in this alternative, most
 4 would be permanently closed and earmarked for reclamation; there would be increases in routes designated for
 5 authorized use only compared to Alternative A. Overall, the substantial reductions in miles designated for
 6 OHV use under Alternative B in special status species habitat would result in a reduction in potential adverse
 7 impacts to ESA-listed and BLM Sensitive wildlife species compared to Alternative A.

8 *3.2.3.2.5 Alternative C (Multiple Use Emphasis)*

9 Under Alternative C, the miles of evaluated routes designated for OHV use (OHV-Open or OHV-Limited) in
 10 habitats for ESA-listed wildlife species would be reduced by 54% in Canada lynx AOI, 47% in grizzly bear
 11 habitat, and 46% in yellow-billed cuckoo designated critical habitat. For non-motorized use within ESA-listed
 12 species habitats, Alternative C would designate 3.2 miles in lynx AOI, a 2.7-mile increase from Alternative A;
 13 30.1 miles in grizzly bear habitat, a 29.6-mile increase from Alternative A; and 3.6 miles in yellow-billed
 14 cuckoo designated critical habitat, a 0.7-mile increase from Alternative A. After accounting for routes limited
 15 to authorized users, Alternative C proposes to close and earmark for decommissioning and reclamation 38% of
 16 the existing miles in lynx AOI, 29% of the existing miles in grizzly bear habitat, and 30% of the existing miles
 17 in yellow-billed cuckoo designated critical habitat. Alternative C does not propose any new route construction
 18 in yellow-billed cuckoo designated critical habitat. In lynx AOI, Alternative C proposes 0.2 miles of new route
 19 construction that would be open to all use, and in grizzly bear habitat, Alternative C proposes 0.2 miles of new
 20 route construction that would be open to all use, 0.1 miles limited by seasonal restrictions, 0.2 miles limited to
 21 authorized users only, and 8.9 miles limited to non-motorized use; this new route and trail development would
 22 result in acres of disturbance as shown in Table 3.27.

23 **Table 3-27: Acres of Disturbance from Proposed New Route and Trail Construction in ESA-Listed Wildlife**
 24 **Species Habitats Under Alternative C**

| | Designation | Acres of Short-Term | Acres of Long-Term |
|----------------------|--|---------------------|--------------------|
| Canada Lynx AOI | Open to all use (OHV-Open) | 0.12 | 0.04 |
| Grizzly Bear Habitat | Open to all use (OHV-Open) | 0.12 | 0.04 |
| | Limited by seasonal restrictions (OHV-Limited) | 0.06 | 0.02 |
| | Limited to authorized users (OHV-Closed) | 0.38 | 0.27 |
| | Limited to non-motorized use (OHV-Closed) | 6.45 | 2.15 |

25 Alternative C would reduce miles of evaluated routes **designated for OHV use** in or proximate to BLM
 26 Sensitive wildlife species habitats ranging from 49% in GRSG IHMA to 90% for ferruginous hawk nests. Of
 27 the evaluated routes proposed for OHV use proximate to GRSG leks under this alternative, all but one route
 28 would have timing restrictions to help protect GRSG during lekking season; the only exception is Rick's
 29 Pasture Road, administered by IDFG. For **non-motorized use** within BLM Sensitive wildlife species habitats,
 East Travel Management Plan Environmental Assessment

1 Alternative C would see reductions for Columbian sharp-tailed grouse leks (-0.4 miles) and GRSG GHMA (-
 2 24.1 miles); no change for ferruginous hawk nests, GRSG PHMA, or GRSG leks; and increases for bald eagle
 3 nests (+5.2 miles) and GRSG IHMA (+0.1 miles). After accounting for routes that would be limited to
 4 authorized users only, Alternative C proposes **to close and reclaim** existing miles in these habitats ranging
 5 from 19% proximate to bald eagle nests to 76% proximate to GRSG leks. Alternative C **proposes the**
 6 **construction** of 0.1 miles of new routes that would be open to all use and 0.2 miles of new non-motorized
 7 single-track trail within 1 mile of bald eagle nests. In GRSG GHMA, Alternative C proposes 5.6 miles of new
 8 non-motorized single-track trail. This new construction would result in acres of disturbance within these
 9 habitats as shown in Table 3.28. Alternative C does not propose new route construction in or proximate to
 10 other BLM Sensitive wildlife habitats.

11 **Table 3-28: Acres of Disturbance from Proposed New Route and Trail Construction in BLM Sensitive**
 12 **Wildlife Species Habitats Under Alternative C**

| | Designation | Acres of Short-Term | Acres of Long-Term |
|-------------------------------------|--|---------------------|--------------------|
| Bald Eagle Nests (Within 1 Mile) | Open to all use (OHV-Open) | 0.07 | 0.02 |
| | Limited to non-motorized use (OHV-Closed) | 0.29 | 0.18 |
| Greater Sage-Grouse GHMA | Limited to non-motorized use (OHV-Closed) | 4.08 | 1.36 |

13 Of the routes and miles in or near special status wildlife species habitat that are closed in this alternative, most
 14 would be decommissioned and earmarked for reclamation while this alternative would also see increases in
 15 routes designated for authorized use only compared to Alternative A. Overall, the relatively substantial
 16 reductions in miles designated for OHV use under Alternative C in special status species habitat would result
 17 in lower potential for adverse impacts to ESA-listed and BLM Sensitive species compared to Alternative A but
 18 higher potential than Alternative B.

19 *3.2.3.2.6 Alternative D (Access Emphasis)*

20 Under Alternative D, the miles of evaluated routes designated for OHV use (OHV-Open or OHV-Limited) in
 21 or proximate to habitats for ESA-listed wildlife species would be reduced by 25% in Canada lynx AOI, 25% in
 22 grizzly bear habitat, and 35% in yellow-billed cuckoo designated critical habitat. For non-motorized use within
 23 ESA-listed species habitats, Alternative D would designate 0.9 miles in lynx AOI, a 0.4-mile increase from
 24 Alternative A; 29.9 miles in grizzly bear habitat, a 29.4-mile increase from Alternative A; and 3.6 miles in
 25 yellow-billed cuckoo designated critical habitat, a 0.7-mile increase from Alternative A. After accounting for
 26 routes limited to authorized users, Alternative D proposes to close and earmark for decommissioning and
 27 reclamation 16% of the existing miles in lynx AOI, 11% of the existing miles in grizzly bear habitat, and 22%
 28 of the existing miles in yellow-billed cuckoo designated critical habitat. Alternative D does not propose any
 29 new route construction in yellow-billed cuckoo designated critical habitat. In lynx AOI, Alternative D
 30 proposes 0.4 miles of new route construction that would be open to all use, and in grizzly bear habitat, this
 31 alternative proposes 1.4 miles of new route construction that would be open to all use, 0.2 miles limited to
 32 authorized users only, and 9.4 miles limited to non-motorized use; this new route and trail development would
 33 result in acres of disturbance as shown in Table 3.29.

34

1 **Table 3-29: Acres of Disturbance from Proposed New Route and Trail Construction in ESA-Listed Wildlife**
 2 **Species Habitats Under Alternative D**

| | Designation | Acres of Short-Term | Acres of Long-Term |
|----------------------|---|---------------------|--------------------|
| Canada Lynx AOI | Open to all use (OHV-Open) | 0.26 | 0.09 |
| Grizzly Bear Habitat | Open to all use (OHV-Open) | 1.00 | 0.33 |
| | Limited to authorized users (OHV-Closed) | 0.38 | 0.27 |
| | Limited to non-motorized use (OHV-Closed) | 6.85 | 2.28 |

3 Alternative D would reduce miles of evaluated routes **designated for OHV use** in or proximate to BLM
 4 Sensitive wildlife species habitats ranging from 18% in GRSG PHMA to 73% for ferruginous hawk nests. Of
 5 the evaluated routes proposed for OHV use proximate to GRSG leks under this alternative, all but one route
 6 would have timing restrictions to help protect GRSG during lekking season; the only exception is Rick’s
 7 Pasture Road, administered by IDFG. For **non-motorized use** within BLM Sensitive wildlife species habitats,
 8 Alternative D would see reductions for Columbian sharp-tailed grouse leks (-0.4 miles) and GRSG GHMA (-
 9 20.8 miles); no change for ferruginous hawk nests, GRSG PHMA, or GRSG leks; and increases for bald eagle
 10 nests (+3.2 miles) and GRSG IHMA (+0.1 miles). After accounting for routes that would be limited to
 11 authorized users only, Alternative D proposes **to close and reclaim** existing miles in these habitats ranging
 12 from 3% in GRSG PHMA to 52% of the miles proximate to Columbian sharp-tailed grouse leks. Alternative D
 13 **proposes the construction** of 0.1 miles of new routes that would be open to all use and 0.2 miles of new non-
 14 motorized single-track trail within 1 mile of bald eagle nests. Alternative D proposes 8.9 miles of new non-
 15 motorized single-track trail in GRSG GHMA, and 0.9 miles of new routes open to all use in IHMA. This new
 16 construction would result in acres of disturbance within these habitats as shown in Table 3.30. Alternative D
 17 does not propose new route construction in or proximate to other BLM Sensitive wildlife species habitats.

18 **Table 3-30: Acres of Disturbance from Proposed New Route and Trail Construction in BLM Sensitive**
 19 **Wildlife Species Habitats Under Alternative D**

| | Designation | Acres of Short-Term | Acres of Long-Term |
|-------------------------------------|---|---------------------|--------------------|
| Bald Eagle Nests (Within 1 Mile) | Open to all use (OHV-Open) | 0.07 | 0.02 |
| | Limited to non-motorized use (OHV-Closed) | 0.29 | 0.18 |
| Greater Sage-Grouse GHMA | Limited to non-motorized use (OHV-Closed) | 6.50 | 2.17 |
| Greater Sage-Grouse IHMA | Open to all use (OHV-Open) | 0.69 | 0.23 |

20 Overall, given the reductions in miles designated for OHV use in special status wildlife species habitat under
 21 Alternative D, the potential for adverse effects in or near these habitats would be somewhat lower than
 22 Alternative A; however, potential effects would be higher as compared to Alternatives B and C.

1 3.2.4 Wildlife: General Wildlife and Migratory Birds, Including Raptors

2 *How would the designated travel route network impact general wildlife and migratory birds, including raptors*
3 *in the TMA?*

4 3.2.4.1 Affected Environment

5 The TMA provides habitat for a variety of big game and other general wildlife species. Although the BLM is
6 responsible for managing and protecting *wildlife habitat* on the public lands within the TMA, the Idaho
7 Department of Fish and Game (IDFG) retains management responsibility for *wildlife*. The Idaho Fish and
8 Game Commission is responsible for promulgating rules governing the taking of wildlife species and the
9 classification and protection of all wildlife within the State of Idaho. These rules are cited in full as IDAPA
10 13.01.06.000, et seq., Rules of the Idaho Fish and Game Commission, IDAPA 13.01.06, "Rules Governing
11 Classification and Protection of Wildlife."

12 Planning and management of wildlife habitat in the TMA emphasizes ecosystem management (BLM 2009).
13 Not all wildlife, wildlife habitat, and potential effects on these resources are discussed below; rather, those that
14 are considered priority species—defined as having high economic, recreational, social, esthetic, or scientific
15 values—and were identified as issues in scoping are considered for detailed analysis. Management approaches
16 are guided by the needs of priority wildlife species. Priority species are defined as “those having high
17 economic, recreational, social, esthetic, or scientific values (e.g., game species such as deer, elk, moose, upland
18 game birds)” (BLM 2009). In 2018 the Secretary of the U. S. Department of Interior (DOI) signed Secretarial
19 Order 3362, directing DOI staff to focus efforts on identification and protection of big-game winter range and
20 migration corridor habitat in coordination with state wildlife management agencies (DOI 2018). See Table
21 3.32, below, for species habitat acreage within the TMA and miles of evaluated routes within each habitat.

22 3.2.4.1.1 *Big Game Wildlife Species*

23 The following priority management big game wildlife species will be analyzed in this EA:

- 24 • **Mule deer (*Odocoileus hemionus*):** Mule deer habitat in Idaho is extremely diverse and variable, with
25 wide gradients in elevation (710-12,662 ft), annual precipitation (6-104 inches), and temperature
26 (fluctuations of more than 120 degrees). Because of this, vegetation types vary as well. The current
27 Idaho Mule Deer Management Plan states, “Maintaining intact productive habitats on summer range,
28 winter range, and migratory pathways is paramount for ensuring long-term sustainability of Idaho’s
29 mule deer herds” (IDFG 2019b). Mule deer summer range is generally at higher elevations in
30 mountain sagebrush. The TMA is particularly important for crucial winter habitat, as mule deer
31 migrate to winter at lower elevations on open, south aspects of mountain and basin big sage cover
32 types. Migratory habitat, which links summer and winter ranges, is a priority, as emphasized in 2018
33 in Department of Interior Secretarial Order 3362 and 2020 Idaho Action Plan (BLM 2009, IDFG
34 2019b, IDFG 2019c).
- 35 • **Pronghorn Antelope (*Antilocapra americana*):** Except for the SRMA, much of the TMA contains
36 broad blocks of crucial seasonal, crucial winter and occupied habitat for pronghorn. A small block of
37 crucial seasonal habitat lies at the extreme northeastern leg of the SRMA. According to the IDFG,
38 populations of pronghorn are currently below desired levels, and the numbers of fawns for every 100
39 does have been declining since 1979 in the Birch Creek and Medicine Lodge areas of the USFO,
40 according to IDFG surveys (IDFG 2007b). Pronghorn herds use productive summer habitat east of
41 Interstate-15, but traditional winter ranges have been blocked by the interstate making management
42 difficult. Protecting migration routes between summer and winter ranges is important to the continued
43 viability of pronghorn herds (BLM 2009).

- 1 • **Rocky Mountain elk (*Cervus canadensis*):** While elk populations remain relatively high, the
2 increasing pressure on them also increases the importance of habitat management. Elk are habitat
3 generalists, occupying a variety of habitats from mountain to low desert, tending toward alpine
4 meadows during the summer and valleys in the winter. They have a preference for aspen habitats for
5 forage and cover. Natural phenomena such as wildland fire and drought can alter elk habitat, as can
6 human-caused impacts such as human development, energy development, and introduction and spread
7 of invasive plants and noxious weeds. Elk habitat and migration corridors are impacted by
8 urbanization, road construction, OHV use, and energy development. Elk exhibit “high fidelity” to their
9 home range but may abandon it if excessively disturbed. The Nine-Mile Knoll ACEC, designated in
10 the 1985 Medicine Lodge RMP for wintering elk, continues to play an important role in providing
11 crucial winter habitat in the Sand Creek Desert area for one of the largest groups of wintering elk in
12 the state. (BLM 2009, IDFG 2014a, NSE 2022)
- 13 • **Shiras Moose (*Alces alces shirasi*):** The USFO has one of the largest desert wintering moose
14 populations in North America because of its unique topography and habitat types (i.e., mountains,
15 valleys, shrubsteppe, and riparian). Based on age structure and antler quality, the quality of the moose
16 population in the area is extremely high. The SRMA contains crucial moose winter range, overlapping
17 with much of the SRMA deer and elk winter range. (BLM 2009, IDFG 2019a),

18 3.2.4.1.2 *Migratory Birds, Including Raptors*

19 This section provides general discussion of migratory bird occurrence and habitat use within the TMA;
20 however, listing all the migratory birds that use the area would result in an exhaustive list. Those migratory
21 species that are of particular concern are noted below as Birds of Conservation Concern. Bird species within
22 the TMA that are classified as Type 2 Idaho BLM Sensitive Wildlife Species are included above in Section
23 3.2.3.

24 Migratory birds, which include several species of waterfowl, shorebirds, songbirds, and raptors, use the TMA
25 for foraging, roosting, migration stopover, and nesting. Raptors are widely accepted to be indicator species of
26 environmental health because of their position at the top of food chains. Romin and Muck state, “Each raptor
27 nest, its offspring, and supporting habitats are considered important to the long-term viability of raptor
28 populations and are vulnerable to disturbance by many human activities” (USFWS 2002). Migratory birds
29 occur throughout the TMA. In particular, riparian habitats of small streams (shrub riparian) as well as larger
30 riparian forests of the Snake River in the area support an abundance and diversity of birds, providing nesting
31 and stopover habitat as well as migration corridors. Sagebrush habitat provides breeding and nesting habitat for
32 sagebrush obligate species such as sage thrasher (*Oreoscoptes montanus*) and sagebrush sparrow (*Amphispiza*
33 *belli*). Other breeding and nesting habitat for migratory birds may include lava tubes, rocky outcrops, and
34 grassland meadows. (BLM 2009, USFWS 2002)

35 Migratory birds may occur throughout the TMA. The BLM has more specific data for golden eagle (*Aquila*
36 *chrysaetos*) nests, as reflected below in Table 3.32. Migratory birds within the TMA that are listed as Birds of
37 Conservation Concern (BCC) in the USFWS IPaC report include the following:

1 **Table 3-31: Birds of Conservation Concern in the TMA**

| Common Name | Scientific Name | Level of Concern ⁴ |
|------------------------|-----------------------------------|-------------------------------|
| Bald Eagle | <i>Haliaeetus leucocephalus</i> | Non-BCC Vulnerable |
| Black Rosy-finch | <i>Leucosticte atrata</i> | BCC Rangewide (CON) |
| Black Tern | <i>Chlidonias niger</i> | BCC Rangewide (CON) |
| Bobolink | <i>Dolichonyx oryzivorus</i> | BCC Rangewide (CON) |
| Cassin's Finch | <i>Carpodacus cassinii</i> | BCC Rangewide (CON) |
| Clark's Grebe | <i>Aechmophorus clarkii</i> | BCC Rangewide (CON) |
| Evening Grosbeak | <i>Coccothraustes vespertinus</i> | BCC Rangewide (CON) |
| Franklin's Gull | <i>Leucophaeus pipixcan</i> | BCC Rangewide (CON) |
| Golden Eagle | <i>Aquila chrysaetos</i> | Non-BCC Vulnerable |
| Lesser Yellowlegs | <i>Tringa flavipes</i> | BCC Rangewide (CON) |
| Lewis's Woodpecker | <i>Melanerpes lewis</i> | BCC Rangewide (CON) |
| Long-eared Owl | <i>Asio otus</i> | BCC Rangewide (CON) |
| Marbled Godwit | <i>Limosa fedoa</i> | BCC Rangewide (CON) |
| Olive-sided Flycatcher | <i>Contopus cooperi</i> | BCC Rangewide (CON) |
| Pinyon Jay | <i>Gymnorhinus cyanocephalus</i> | BCC Rangewide (CON) |
| Rufous Hummingbird | <i>Selasphorus rufus</i> | BCC Rangewide (CON) |
| Sage Thrasher | <i>Oreoscoptes montanus</i> | BCC - BCR |
| Virginia's Warbler | <i>Vermivora virginiae</i> | BCC Rangewide (CON) |
| Willet | <i>Tringa semipalmata</i> | BCC Rangewide (CON) |

2 **Table 3-32: Acres of General Wildlife and Migratory Bird Habitat and Miles of Evaluated Routes in or**
 3 **Proximate to Habitat**

| Habitat | BLM Acres | Miles of Evaluated Routes |
|-------------------------------------|-----------|---------------------------|
| Elk crucial habitat | 98,045 | 578.7 |
| Moose crucial habitat | 37,054 | 202.4 |
| Mule Deer crucial habitat | 37,935 | 215.0 |
| Pronghorn Antelope crucial habitat | 2,399 | 15.2 |
| White-tailed deer crucial habitat | 12,232 | 83.8 |
| Migratory bird habitat (entire TMA) | 126,378 | 761.2 |
| Golden Eagle nests (within 1 mile) | 2,983 | 26.1 |

⁴ **BCC – BCR:** This is a Bird of Conservation Concern (BCC) only in particular Bird Conservation Regions (BCRs) in the continental USA.

BCC Rangewide (CON): This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska.

Non-BCC Vulnerable: This is not a Bird of Conservation Concern (BCC) in this area, but warrants attention because of the Eagle Act or for potential susceptibilities in offshore areas from certain types of development or activities.

1 3.2.4.2 Environmental Effects

2 3.2.4.2.1 Direct or Indirect Effects Common to All Alternatives

3 Potential effects that the use of the alternative route networks may have on general wildlife and migratory birds
4 are consistent with the impacts outlined in greater detail within the section on special status animals (section
5 3.2.3). The nature and type of impacts on big game and their habitats from recreation and OHV uses can
6 include habitat avoidance and abandonment, interference of daily movement and foraging, increased physical
7 or physiological stress that can result in decreased health and parturition, and direct vehicle encounters
8 resulting in injury or mortality (Ouren et al. 2007, Ortega 2012). Recreational disturbance from motorized and
9 non-motorized activities (e.g., mountain bike, horse, foot) affects big game behavior by increasing travel time
10 and decreasing feeding and resting time (Naylor et al. 2009). Avoidance of human disturbance can also cause
11 indirect habitat loss and impair forage availability (Dwinnell et al. 2019). Species avoidance is strongest for
12 mountain biking and motorized vehicles (Naidoo and Burton 2020). Studies measuring the responses of deer
13 and elk to OHV use generally conclude that deer are less affected by recreational use than elk. A study at the
14 Starkey Experimental Forest and Range in northeastern Oregon determined elk exhibited greater movement
15 rates than deer in response to ATV riding, mountain biking, horseback riding and hiking (Wisdom et al. 2004).
16 Another study at Starkey revealed that mule deer in general selected areas closer to roads with varying traffic
17 levels than elk (Wisdom et al. 2005). Deer may possibly be seeking dense cover rather than fleeing from the
18 disturbance as elk do. Big game animals that are fleeing from recreational activity are adversely affected by the
19 loss of foraging opportunities and increased energy expenditure, resulting in reduction of fat reserves for
20 winter survival. While mule deer show lower movement rates than elk, OHV usage disturbs them from
21 foraging activities that help them build adequate fat reserves for winter survival (Wisdom et al. 2005).

22 These impacts can escalate seasonally during sensitive birthing, rearing, and breeding seasons and during
23 extreme weather regimes such as drought, extreme heat or cold, or heavy snowfall. Route proliferation, habitat
24 loss and fragmentation are indirect impacts resulting from recreation and travel-related surface disturbances
25 from motorized and non-motorized vehicle travel. Such use can result in:

- 26 • Soil erosion and direct loss of important foraging, breeding, and security cover habitat.
- 27 • Surface disturbances that promote growth and spread of invasive plants and noxious weed into native
28 vegetative communities, reducing habitat quality, foraging availability, and thermal and security
29 cover.
- 30 • Dusting of crucial native vegetative habitat resulting in plant mortality, and subsequent reduction of
31 habitat quality, foraging availability, and thermal and security cover.
- 32 • Invasive plants and noxious weed establishment in disturbed areas which in turn increases the
33 potential and frequency for wildland fire.

34 The potential for direct and indirect adverse impacts on big game from recreation and OHV use can be
35 estimated by comparing public OHV access and related recreation use in terms of number of routes in or near
36 big game habitats. Conversely, a designated travel route network can also provide access for beneficial
37 resource management activities such as vegetation monitoring, wildlife monitoring, wildlife habitat
38 improvement projects, interpretive projects, hunting and legal game retrieval, invasive species treatment, and
39 wildland fire suppression. Hunting and game retrieval access serves to support IDFG management efforts
40 where hunting is used as a management tool to control populations of big game species.

41 The nature and type of impacts on migratory birds, including raptors, and their habitat suitability from travel
42 route designations and route-related uses include disturbance, mortality or injury from collision, and trampling
43 or damage of brooding, nesting, foraging, and cover habitat. Travel route use can also cause disturbance or
44 interference with courtship, nesting, brood-rearing, or fledging activities. Because of sensitivity and fidelity to
45 nest territory, abandonment of nest sites due to nearby human disturbances is of particular concern. Habitat-

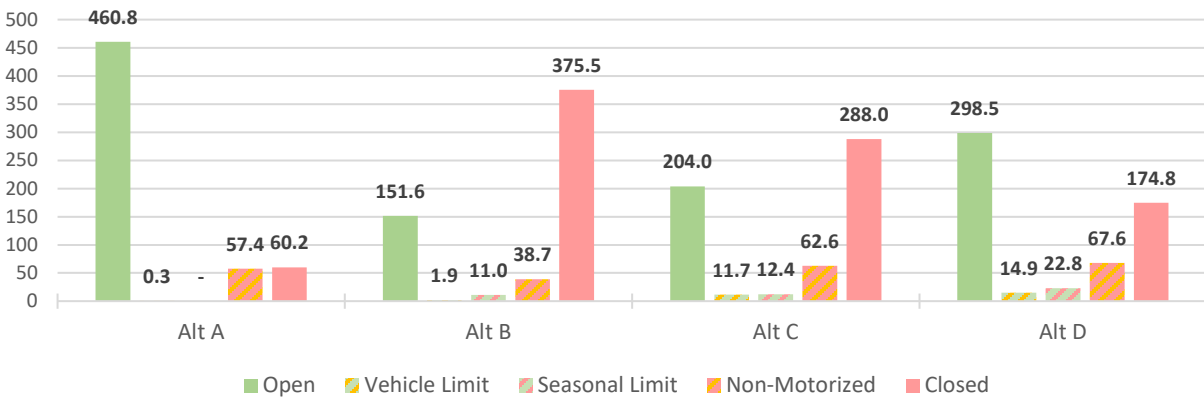
1 associated indirect risk factors of travel routes and related use include damage, loss, or fragmentation through
 2 isolation of habitats, establishment or spread of invasive weeds, and increased wildfire potential. Indirect
 3 effects also include altering or influencing of prey species (e.g., rodents, lizards, snakes) behavior as a result of
 4 disturbance to cover vegetation (USFWS 2002).

5 TMP implementation activities that could affect wildlife and their habitats include preparation of new maps
 6 and brochures that would benefit wildlife and wildlife habitat by helping to direct and keep users on designated
 7 routes. Installation of new information kiosks and signs; road, trail and parking area maintenance or
 8 improvements; route reclamation, including ripping the ground and planting seed, grading/recontouring; and
 9 installation of fencing or barriers could result in some minor habitat or behavioral disturbance; however, such
 10 disturbance(s) would be localized and temporary, and end once the activity is completed.

11 **3.2.4.2.2 Impact Indicators**

12 The wildlife analysis below focuses on elk, golden eagle, moose, mule deer, pronghorn, and white-tailed deer,
 13 but identified impacts will have similar consequences to other wildlife species that inhabit the area. Indicators
 14 of potential OHV route impacts on the general wildlife species in the TMA include the miles of routes in the
 15 various species habitats. The figures below show the miles of evaluated routes in each alternative network that
 16 are in the various species habitats to compare the action alternatives (B-D) to the baseline, Alternative A. More
 17 detailed data tables used to develop the figures may be found in Appendix C. Note: Migratory birds have the
 18 potential to occur throughout the TMA, so the boundaries of the TMA are considered as habitat for analysis
 19 purposes here.

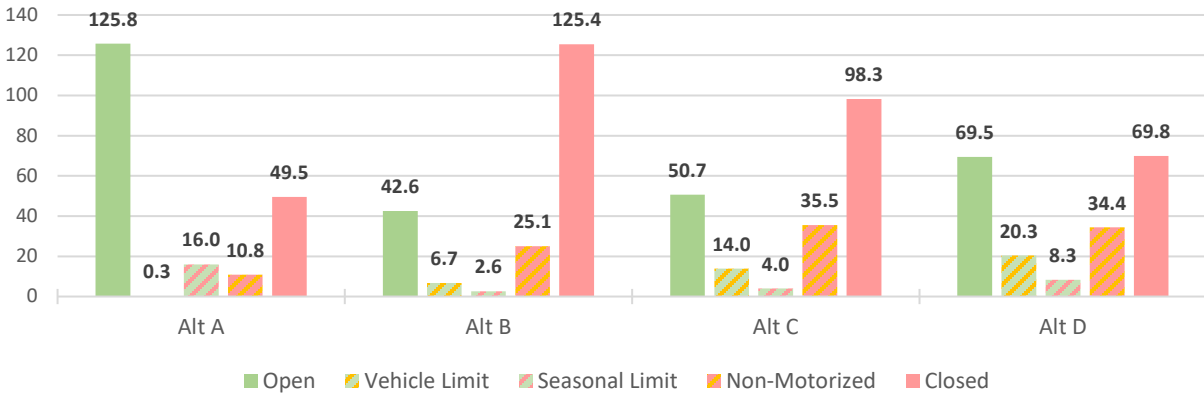
20 **Figure 3-30: Miles of Evaluated Routes in Elk Crucial Habitat**



21

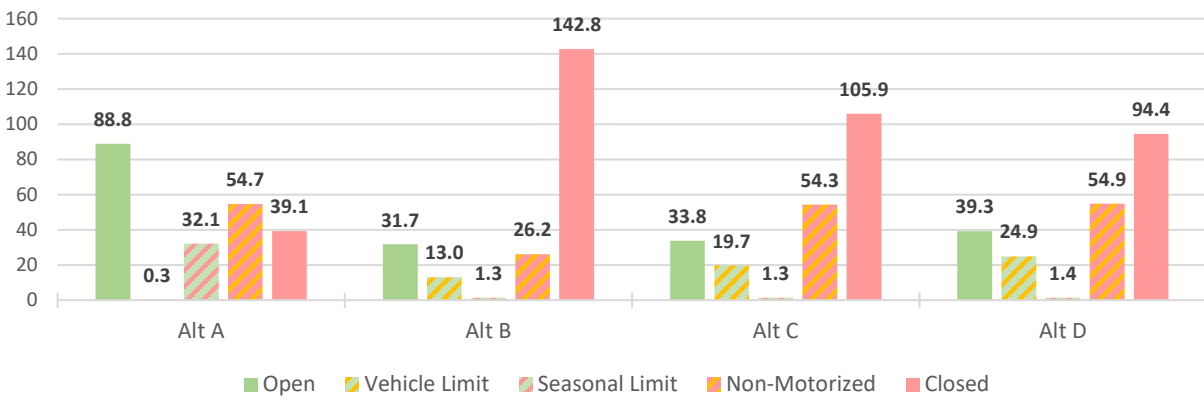
22

1 **Figure 3-31: Miles of Evaluated Routes in Moose Crucial Habitat**



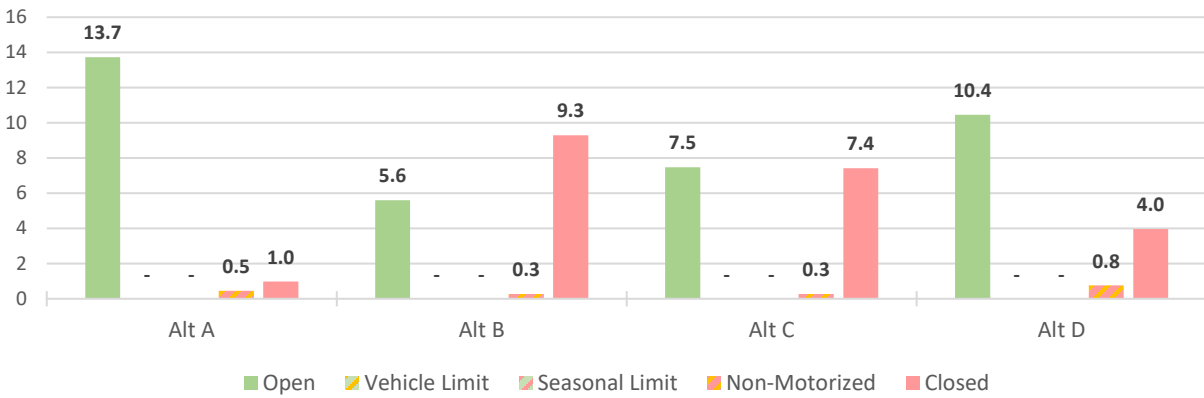
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3 **Figure 3-32: Miles of Evaluated Routes in Mule Deer Crucial Habitat**



4

5 **Figure 3-33: Miles of Evaluated Routes in Pronghorn Crucial Habitat**

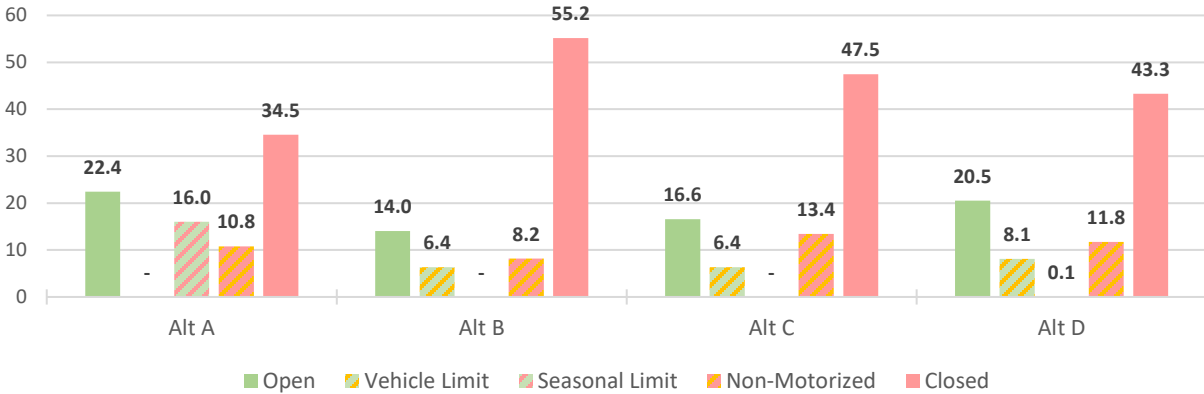


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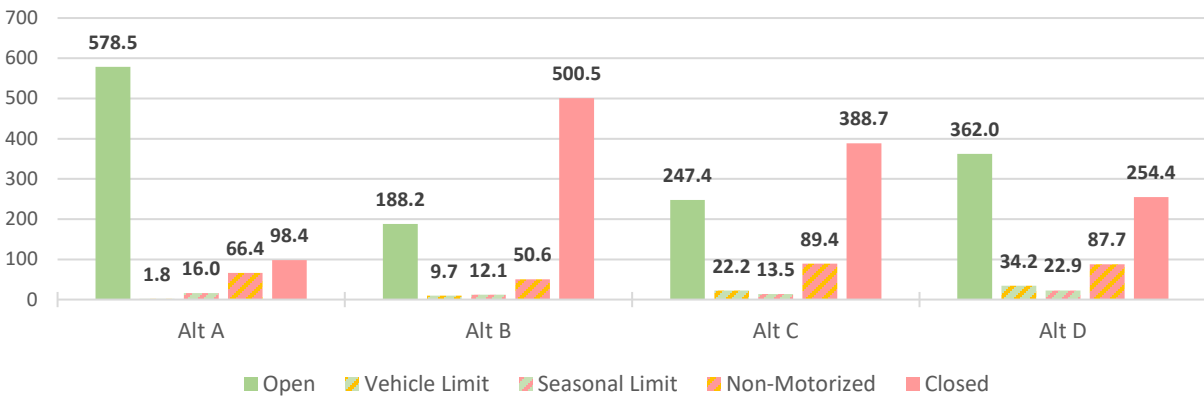
1 **Figure 3-34: Miles of Evaluated Routes in White-Tailed Deer Crucial Habitat**

2



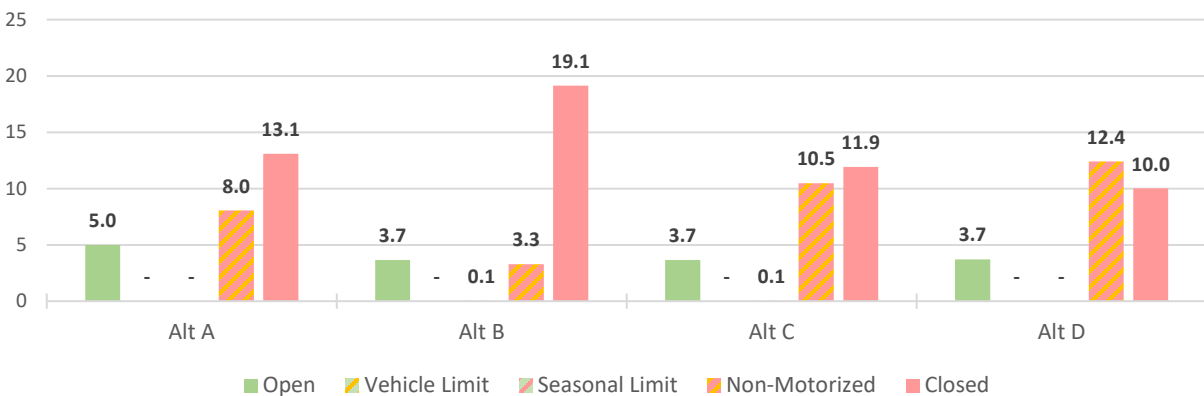
3

4 **Figure 3-35: Miles of Evaluated Routes in Migratory Bird Habitat**



5

6 **Figure 3-36: Miles of Evaluated Routes Within 1 Mile of Documented Golden Eagle Nests**



7

8 **3.2.4.2.3 Alternative A (Current Management)**

- 9 • Elk: Under Alternative A, 578.7 miles of evaluated routes (79% of the evaluated network) within the
 10 TMA are in elk crucial habitat. Of these miles, 80% are available for OHV use, 10% are limited to
 11 non-motorized use, and 2% are limited to authorized use only. The rest of the evaluated routes are
 12 closed.

- 1 • Moose: 202.4 miles of evaluated routes (28% of the network) are in moose crucial habitat. Of these
2 miles, 70% are available for OHV use most of the year, including 16.0 miles that are limited
3 seasonally. Approximately 5% of the miles in this habitat are limited to non-motorized use and 7% are
4 limited to authorized use only. The rest of the evaluated routes are closed.
- 5 • Mule deer: 215.0 miles of evaluated routes (29% of the network) are in mule deer crucial habitat. Of
6 these miles, 56% are available for OHV use, including 32.1 miles that are limited seasonally.
7 Approximately 25% are limited to non-motorized use and 2% are limited to authorized use only. The
8 rest of the evaluated routes are closed.
- 9 • Pronghorn: 15.2 miles of evaluated routes (2% of the network) within the TMA are in pronghorn
10 crucial habitat. Of these miles, 90% are available for OHV use, 3% are limited to non-motorized use,
11 and the rest are closed.
- 12 • White-tailed deer: 83.8 miles of evaluated routes (11% of the network) are in white-tailed deer crucial
13 habitat. Of these miles, 46% are available for OHV use, including 16.0 miles that are limited
14 seasonally. Approximately 13% of the evaluated miles in this habitat are limited to non-motorized use
15 and 15% are limited to authorized use only. The rest are closed.
- 16 • Migratory birds: Migratory birds may occur throughout the TMA. Of the 761.2 miles of evaluated
17 routes within the TMA, 78% would remain available for OHV use under Alternative A, 9% would
18 remain limited to non-motorized use, 3% would remain limited to authorized use only, and the rest
19 would remain closed.
- 20 • Golden eagle: 26.1 miles of evaluated routes (4% of the network) are within 1 mile of documented
21 golden eagle nests. Of these miles, 19% are available for OHV use, 31% are limited to non-motorized
22 use, 6% are limited to authorized use only, and the rest are closed.

23 Given that most of the existing travel routes in big game crucial habitats and migratory bird habitat are
24 currently available for OHV or non-motorized use, Alternative A has the highest potential of any of the TMA
25 network alternatives for adverse route-related impacts to wildlife such as disruption, habitat avoidance,
26 interference of movement, injury or mortality, habitat loss, and habitat fragmentation. These impacts to habitat
27 from ongoing OHV and recreational non-motorized use would reflect a continuation of current management.

28 *3.2.4.2.4 Alternative B (Natural Resource Emphasis)*

29 Compared to Alternative A, Alternative B would provide for substantial reductions in miles of evaluated routes
30 designated for OHV use (OHV-Open or OHV-Limited) in big game crucial habitats, ranging from 47% in
31 white-tailed deer crucial habitat to 64% in elk crucial habitat. For miles of evaluated routes designated for non-
32 motorized use, Alternative B would see a 132% increase in moose crucial habitat but would see reductions in
33 all other big game crucial habitats ranging from 24% for white-tailed deer to 52% for mule deer. Alternative B
34 would also close and earmark for decommissioning and reclamation between 38% and 53% of the existing
35 routes in big game crucial habitats. Alternative B proposes construction in big game crucial habitats of 0.2
36 miles of new routes limited to authorized users only, and 2.1 miles of new non-motorized routes and trails that
37 would result in acres short- and long-term habitat disturbance shown in Table 3.33.

38

1 **Table 3-33: Acres of Disturbance from Proposed New Route and Trail Construction in Big Game Wildlife**
 2 **Crucial Habitats Under Alternative B**

| | Designation | Acres of Short-Term | Acres of Long-Term |
|---------------------------|--|---------------------|--------------------|
| Elk Crucial Habitat | Limited to non-motorized use (OHV-Closed) | 1.51 | 0.50 |
| Moose Crucial Habitat | Limited to non-motorized use (OHV-Closed) | 1.51 | 0.50 |
| Mule Deer Crucial Habitat | Limited to authorized users (OHV-Closed) | 0.38 | 0.27 |
| | Limited to non-motorized use (OHV-Closed) | 1.51 | 0.50 |

3 Of the 761.2 miles of evaluated routes throughout the TMA potentially affecting migratory birds, Alternative
 4 B would designate 210.0 miles for OHV use, a 65% reduction from Alternative A, and 50.6 miles for non-
 5 motorized use, a 24% reduction from Alternative A. After accounting for routes that would remain available
 6 for authorized users only, Alternative B would close and earmark for decommissioning and reclamation 51%
 7 of the existing miles. Alternative B proposes the construction of 0.3 miles of new primitive routes (to be
 8 limited to seasonal or authorized use) and 2.7 miles of new non-motorized single-track trail. This proposed
 9 new construction would result in the acres of disturbance in migratory bird habitat as shown in Table 3.34.

10 **Table 3-34: Acres of Disturbance from Proposed New Route and Trail Construction in Migratory Bird**
 11 **Habitat Under Alternative B**

| | Designation | Acres of Short-Term | Acres of Long-Term |
|-------------------------------------|---|---------------------|--------------------|
| Migratory Bird Habitat (entire TMA) | Limited by seasonal restrictions (OHV-Limited) | 0.06 | 0.02 |
| | Limited to authorized users (OHV-Closed) | 0.38 | 0.27 |
| | Limited to non-motorized use (OHV-Closed) | 2.00 | 0.67 |

12 Alternative B would designate 3.8 miles of evaluated routes for OHV use proximate to documented golden
 13 eagle nests, a 24% reduction compared to Alternative A. Alternative B would also designate 3.3 miles for non-
 14 motorized use, a 59% reduction from Alternative A. Alternative B would close and earmark for
 15 decommissioning and reclamation 56% of the existing miles of routes proximate to golden eagle nests, and this
 16 alternative does not propose any new route construction proximate to eagle nests.

17 Over the long term, the reclaimed routes in wildlife habitats would contribute to habitat restoration while
 18 reducing fragmentation and disruption of movement patterns, foraging and breeding activities, etc. Overall, the
 19 Alternative B network would provide for substantial reductions in OHV routes and related use effects in
 20 crucial big game wildlife and migratory bird habitats as compared to Alternative A and would have the lowest
 21 potential for effects to big game crucial wildlife habitats of any of the alternatives while formally designating a
 22 portion of the network for authorized use only access.

1 3.2.4.2.5 *Alternative C (Multiple Use Emphasis)*

2 Compared to Alternative A, Alternative C would also provide for substantial reductions in miles designated for
 3 OHV use in big game crucial wildlife habitats, ranging from 40% in white-tailed deer crucial habitat to 55% in
 4 mule deer crucial habitat. For miles of evaluated routes designated for non-motorized use, Alternative C would
 5 see increases of 9% in elk crucial habitat, 24% in white-tailed deer crucial habitat, and 228% in moose crucial
 6 habitat; but this alternative would also see reductions of 1% in mule deer crucial habitat and 40% (0.2 miles) in
 7 pronghorn crucial habitat. Alternative C would close and earmark for decommissioning and reclamation
 8 between 29% and 35% of the existing routes in big game crucial habitats. Alternative C proposes construction
 9 of a mix of new motorized primitive routes and non-motorized single-track trails in big game wildlife crucial
 10 habitats that would result in acres of habitat disturbance as shown in Table 3.35. Alternative C would also
 11 implement seasonal human entry closures for Teton River, Pine Creek Bench, and Stinking Springs and
 12 seasonal closures for modes of travel in Teton Basin and Deer Parks. Removing human activities from these
 13 areas during critical periods of the year will help maintain useable foraging habitat in winter months. As
 14 discussed in Naylor et al. 2009 and Dwinnell et al. 2019, precluding human activities, including winter
 15 recreation activities (cross-country skiing and hiking), will decrease big game travel time, increase feeding and
 16 resting time, and prevent the indirect habitat loss and forage availability.

17 **Table 3-35: Acres of Disturbance from Proposed New Route and Trail Construction in Big Game Wildlife**
 18 **Crucial Habitats Under Alternative C**

| | Designation | Acres of Short-Term | Acres of Long-Term |
|------------------------------------|---|---------------------|--------------------|
| Elk Crucial Habitat | Open to all use (OHV-Open) | 0.21 | 0.07 |
| | Limited to non-motorized use (OHV-Closed) | 10.05 | 3.35 |
| Moose Crucial Habitat | Open to all use (OHV-Open) | 0.21 | 0.07 |
| | Limited to non-motorized use (OHV-Closed) | 7.10 | 2.80 |
| Mule Deer Crucial Habitat | Open to all use (OHV-Open) | 0.18 | 0.06 |
| | Limited to authorized users (OHV-Closed) | 0.38 | 0.27 |
| | Limited to non-motorized use (OHV-Closed) | 12.32 | 4.97 |
| Pronghorn Antelope Crucial Habitat | Open to all use (OHV-Open) | 0.12 | 0.04 |
| White-Tailed Deer Crucial Habitat | Open to all use (OHV-Open) | 0.04 | 0.01 |
| | Limited to non-motorized use (OHV-Closed) | 1.13 | 0.81 |

19 Of the 761.2 miles of evaluated routes throughout the TMA potentially affecting migratory birds, Alternative
 20 C would designate 283.1 miles for OHV use, a 53% reduction from Alternative A; and this alternative would
 21 designate 89.4 miles for non-motorized use, a 35% increase from Alternative A. After accounting for routes
 22 that would remain available for authorized users only, Alternative C would close and earmark for
 23 decommissioning and reclamation 35% of the existing miles. Alternative C proposes the construction of 0.8

1 miles of new primitive routes (0.5 of which would be OHV-Open, 0.1 limited seasonally, and 0.2 limited to
 2 authorized use only) and 21.9 miles of new non-motorized single-track trail. This proposed new construction
 3 would result in the acres of disturbance in migratory bird habitat as shown below.

4 **Table 3-36: Acres of Disturbance from Proposed New Route and Trail Construction in Migratory Bird**
 5 **Habitat Under Alternative C**

| | Designation | Acres of Short-Term | Acres of Long-Term |
|-------------------------------------|--|---------------------|--------------------|
| Migratory Bird Habitat (entire TMA) | Open to all use (OHV-Open) | 0.33 | 0.11 |
| | Limited by seasonal restrictions (OHV-Limited) | 0.06 | 0.02 |
| | Limited to authorized users (OHV-Closed) | 0.38 | 0.27 |
| | Limited to non-motorized use (OHV-Closed) | 16.55 | 5.95 |

6 Like the other action alternatives, Alternative C would designate 3.8 miles of evaluated routes for OHV use
 7 proximate to golden eagle nests, a 24% reduction compared to Alternative A; however, Alternative C would
 8 designate 10.5 miles for non-motorized use, a 31% increase from Alternative A. Alternative C would close and
 9 earmark for decommissioning and reclamation 43% of the existing miles of routes proximate to golden eagle
 10 nests. Alternative C also proposes new construction of 4.8 miles of non-motorized single-track trail in areas
 11 proximate to golden eagle nests, which would result in the acres of disturbance as shown in Table 3.37.

12 **Table 3-37: Acres of Disturbance from Proposed New Trail Construction Proximate to Golden Eagle Nests**
 13 **Under Alternative C**

| | Designation | Acres of Short-Term | Acres of Long-Term |
|--------------|---|---------------------|--------------------|
| Golden Eagle | Limited to non-motorized use (OHV-Closed) | 3.46 | 1.15 |

14 Over the long term, the reclamation of existing routes in wildlife habitats under Alternative C would contribute
 15 to habitat restoration while reducing fragmentation and disruption of movement patterns, foraging and
 16 breeding activities while also reducing miles of OHV routes and related use effects in crucial big game and
 17 migratory bird habitats. Overall, Alternative C would have lower potential for effects to general wildlife and
 18 migratory bird habitats compared to Alternative A though not to the same extent as Alternative B.

19 *3.2.4.2.6 Alternative D (Access Emphasis)*

20 Compared to Alternative A, Alternative D would provide for moderate reductions in miles designated for OHV
 21 use in big game crucial habitats, ranging from 25% in white-tailed deer crucial habitat to 46% in mule deer
 22 crucial habitat. Alternative D would see increases in miles of evaluated routes designated for non-motorized
 23 use in all big game crucial habitats, ranging from less than 1% in mule deer crucial habitat to 219% in moose
 24 crucial habitat. Alternative D would close and earmark for decommissioning and reclamation between 9% and
 25 27% of the existing routes in big game crucial habitats. Alternative D proposes construction of a mix of new
 26 motorized primitive routes and non-motorized single-track trails in big game crucial habitats that would result
 27 in acres of habitat disturbance shown in Table 3.38.

28

1 **Table 3-38: Acres of Disturbance from Proposed New Route and Trail Construction in Big Game Wildlife**
 2 **Crucial Habitats Under Alternative D**

| | Designation | Acres of Short-Term | Acres of Long-Term |
|------------------------------------|---|---------------------|--------------------|
| Elk Crucial Habitat | Open to all use (OHV-Open) | 0.90 | 0.30 |
| | Limited to non-motorized use (OHV-Closed) | 12.86 | 4.29 |
| Moose Crucial Habitat | Open to all use (OHV-Open) | 0.90 | 0.30 |
| | Limited to non-motorized use (OHV-Closed) | 7.49 | 2.93 |
| Mule Deer Crucial Habitat | Open to all use (OHV-Open) | 0.18 | 0.06 |
| | Limited to authorized users (OHV-Closed) | 0.38 | 0.27 |
| | Limited to non-motorized use (OHV-Closed) | 15.13 | 5.91 |
| Pronghorn Antelope Crucial Habitat | Open to all use (OHV-Open) | 0.26 | 0.09 |
| White-Tailed Deer Crucial Habitat | Open to all use (OHV-Open) | 0.04 | 0.01 |
| | Limited to non-motorized use (OHV-Closed) | 1.13 | 0.81 |

3 Of the 761.2 miles of evaluated routes throughout the TMA potentially affecting migratory birds, Alternative
 4 D would designate 4119.1 miles for OHV use, a 30% reduction from Alternative A; and this alternative would
 5 designate 87.7 miles for non-motorized use, a 32% increase from Alternative A. After accounting for routes
 6 that would remain available for authorized users only, Alternative D would close and earmark for
 7 decommissioning and reclamation 19% of the existing miles. Alternative D proposes the construction of 1.9
 8 miles of new primitive routes (1.7 of which would be OHV-Open and 0.2 limited to authorized use only) and
 9 26.0 miles of new non-motorized single-track trail. This proposed new construction would result in the acres of
 10 disturbance in migratory bird habitat as shown in Table 3.39.

11 **Table 3-39: Acres of Disturbance from Proposed New Route and Trail Construction in Migratory Bird**
 12 **Habitat Under Alternative D**

| | Designation | Acres of Short-Term | Acres of Long-Term |
|-------------------------------------|---|---------------------|--------------------|
| Migratory Bird Habitat (entire TMA) | Open to all use (OHV-Open) | 1.21 | 0.40 |
| | Limited to authorized users (OHV-Closed) | 0.38 | 0.27 |
| | Limited to non-motorized use (OHV-Closed) | 19.35 | 6.88 |

13 Like the other action alternatives, Alternative D would designate 3.8 miles of evaluated routes for OHV use
 14 proximate to golden eagle nests, a 24% reduction compared to Alternative A; however, Alternative D would

1 designate 12.4 miles for non-motorized use, a 55% increase from Alternative A. Alternative D would close and
 2 earmark for reclamation 35% of the existing miles of routes proximate to golden eagle nests. Alternative D
 3 also proposes new construction of 6.7 miles of non-motorized single-track trail in areas proximate to golden
 4 eagle nests, which would result in the acres of disturbance as shown below in Table 3.40.

5 **Table 3-40: Acres of Disturbance from Proposed New Trail Construction Proximate to Golden Eagle Nests**
 6 **Under Alternative D**

| | Designation | Acres of Short-Term | Acres of Long-Term |
|--------------|---|---------------------|--------------------|
| Golden Eagle | Limited to non-motorized use (OHV-Closed) | 4.85 | 1.62 |

7 Over the long term, the reclamation of existing routes in wildlife habitats under Alternative D would contribute
 8 to habitat restoration while reducing fragmentation and disruption of movement patterns, foraging and
 9 breeding activities, while reducing miles of OHV routes and related use effects in crucial big game and
 10 migratory bird habitats. Overall, Alternative D would have lower potential for effects to general wildlife and
 11 migratory bird habitats compared to Alternative A, though not to the same extent as Alternatives B and C.

12 3.2.5 Cultural Resources: Archaeological Precontact and Historical Resources

13 *How would the designated travel route network impact cultural resources in the TMA?*

14 3.2.5.1 Affected Environment

15 The BLM is responsible for identifying, recording, protecting, managing, and enhancing archaeological,
 16 historic, architectural, and traditional cultural values located on BLM-administered public lands, as well as
 17 those that might be affected by BLM undertakings on non-federal lands. The BLM manages cultural resources
 18 in accordance with existing laws, regulations, EOs, and policy guidelines. The principal federal law addressing
 19 cultural resources is the National Historic Preservation Act (NHPA) of 1966, as amended (16 U.S.C. 1A § 470
 20 et seq.) and implementing regulations (36 CFR III § 800 et seq.). The NHPA describes the process for
 21 identifying and evaluating historic properties defined as cultural resources eligible for, or listed in, the National
 22 Register of Historic Places (NRHP). The NHPA also provides the procedures for assessing the effects of
 23 federal actions on historic properties and consulting to avoid, reduce, or minimize adverse effects. Since 1998,
 24 the USFO has met its NHPA responsibilities through a protocol agreement with Idaho’s State Historic
 25 Preservation Office (SHPO). The USFO cultural resources program manages Native American precontact and
 26 Euro-American historic-era archaeological sites, including buildings and structures, and historic properties of
 27 cultural significance important to Native Americans.

28 People have occupied the USFO area for at least 11,000 years. Precontact and historic Native American sites in
 29 the TMA include seasonal campsites, stone tool making areas, stone tool caches, food processing and kill
 30 localities, trails, quarries, rock shelters, rock alignments, rock rings, rock cairns, and pictographs/petroglyphs.
 31 Open lithic sites or stone flake and tool scatters indicate seasonal or temporary campsites. Rock shelters,
 32 particularly larger shelters and overhangs, indicate a longer-term residential site. Pictographs or petroglyphs
 33 and rock cairns (stacked rock features) are usually associated with Native American religious and traditional
 34 cultural practices. Historic Euro-American sites in the TMA include homesteads, cabins, irrigation structures,
 35 ranching and farming features, mineshafts and adits, abandoned railroad grades, abandoned ski areas, emigrant
 36 trails and wagon roads, debris scatters, inscription rocks, ferries, and other manifestations of 19th and 20th
 37 Century Euro-American exploration, occupation, and economic development in southeastern Idaho. Early
 38 roads also connected Union Pacific stations at Ashton, Dubois, and Spencer to National Parks. (BLM 2009)

39 A review of the cultural resource database lists 53 previous Class III archaeological inventories within the
 40 USFO East TMA. The intensive surveys covered 23,299 acres of public land, or 30% of the total BLM acres in
 East Travel Management Plan Environmental Assessment

1 the project area. As such, there were no travel management-specific cultural resource inventories conducted for
2 the project. All previous surveys were conducted for non-travel-related undertakings, although several were
3 associated with access road rights-of-way.

4 Additionally, a Class II reconnaissance survey conducted in the mid-1970s covered selected high probability
5 locations for archaeological sites within a 20,480 acre project area, in the TMA.

6 There are approximately 200 recorded cultural resource sites in the Upper Snake East TMA. Prehistoric lithic
7 scatters are the predominant site type in the project area. Other site types include several historic structures,
8 debris scatters, and multicomponent sites that contain both prehistoric and historic artifacts.

9 A portion of the Nez Perce National Historic Trail (Nez Perce NHT), which is eligible for inclusion in the
10 NRHP, runs through the northern portion of the TMA. The 1,170-mile Trail runs from Wallowa Lake, Oregon
11 to the Bear Paw Battlefield near Chinook, Montana. It was established by Congress in 1986 to commemorate
12 the flight of the Nez Perce, led by Chief Joseph, from the U.S. Army in 1887 as the Nez Perce sought peace in
13 Canada (USFS 1982). The purpose of the Nez Perce National Historic Trail is to:

- 14 • Identify, protect, and interpret significant historic sites and segments associated with the 1877 Nez
15 Perce War and Flight for public educational and recreational use;
- 16 • Foster improved cooperation and collaboration with Federal, Tribal, State, local governments, and
17 other partners to improve opportunities for recreation, access, cultural experience, educational
18 opportunities, and tourism along the Trail; and
- 19 • Provide historical context for the Trail, through interpretation and education, of historic events prior
20 to, during, and following the flight of the Nez Perce from their traditional homelands in 1877. (USFS
21 2020)

22 A few short segments of the Trail are on BLM public lands. A total of 81 evaluated routes cross or are within
23 ¼ mile of the Trail.

24 3.2.5.2 Environmental Effects

25 3.2.5.2.1 *Potential Effects Common to All Alternatives*

26 Cultural resources within the TMA can be adversely affected by OHV use and the various permitted and
27 general public recreation activities available to users that include camping, hiking, exploring, etc., as well as
28 OHV use.

29 The direct and indirect impacts on cultural resources from recreation and OHV use in the TMA can be gauged
30 by examining the number of dispersed and developed recreation sites and travel routes in proximity to known
31 cultural sites. Designated dispersed and developed use (i.e., camping) and access also increases the potential
32 for theft and vandalism to cultural sites where a camp site or route is proximate to or within a cultural site.
33 Recreation and OHV use such as hiking, exploring, etc. can cause surface disturbances and accelerated erosion
34 which in turn can expose sites to damage, theft, and vandalism. Motorized vehicles can act as a vector for the
35 introduction of weed seeds or invasive species which, upon establishment, can increase the potential for
36 wildfire and subsequent damage to cultural resources. Conversely, some travel routes provide beneficial access
37 for interpretive and educational experiences as well as for ongoing Native American ceremonial or traditional
38 uses of areas.

39 Implementation activities that could directly affect cultural resources include installation or construction of
40 improvements and amenities such as kiosks, fencing, parking areas, camp sites, etc. Maintenance activities
41 associated with access and egress routes such as surface and ditch grading, drainage structure installation or
42 replacement, construction of lead-off ditches, etc., ripping and seeding of closed routes, installation of signs

1 and barriers. Some of these activities may extend beyond existing route prisms onto nearby previously
2 undisturbed ground.

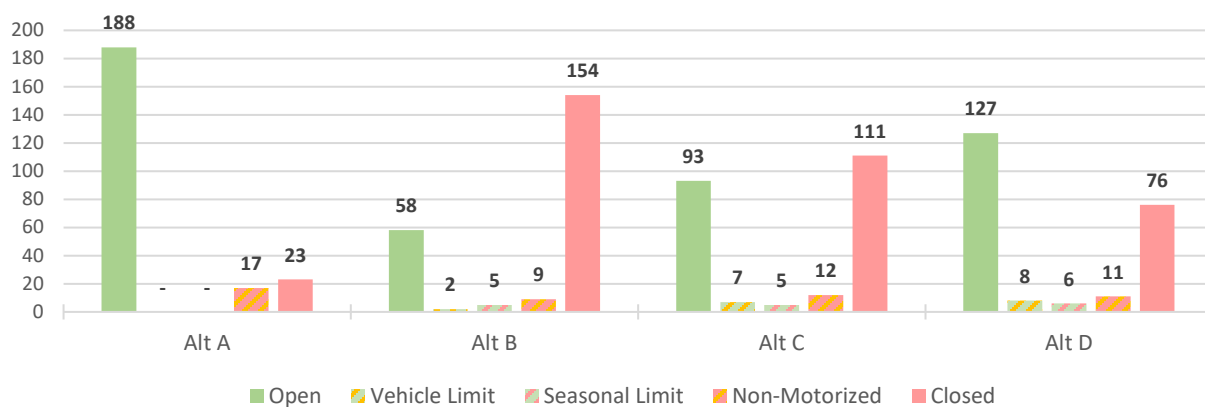
3 **Potential for OHV Route Designations to Concentrate Travel on OHV Routes**

4 In general, the effects to cultural resources of closing and opening routes to OHV use depends on site type and
5 eligibility as a historic property. For instance, sites with architecture, features, and visual appeal (i.e., cabins,
6 mines, caves, towers, granaries, rock art, inscriptions, etc.) are generally more eye-catching and may prompt
7 greater desire for visitation. Because these types of sites are larger and three dimensional, they are often visible
8 from distance, and if accessible by vehicle, may prompt off-route travel. These site types are also more likely
9 to be eligible as historic properties and require recording, monitoring, and protection. Historic and prehistoric
10 camp sites and artifact scatters are more likely to be visited less frequently because artifacts are spread out on
11 the ground and often covered by brush and soils. In many cases people don't know they are driving or walking
12 over these types of sites unless they are amateur archaeologists, looters, or pot hunters who are familiar with
13 site types and common locations and looking for certain types of artifacts (i.e., projectile points, textiles,
14 jewelry, etc.). Concentrating use to assigned routes is ideal when sites are highly visible, known and visited by
15 the public, and are managed for interpretation. Concentrated use on particular routes also potentially deters
16 visitors from creating new routes while exploring and keeps them away from unknown or sensitive sites that
17 may exist. On the other hand, more routes can often lead to more sites and more impacts unless those routes
18 lead away from sites. The South Shore Boat Access at Henry's Lake is an area with concentrated use relative
19 to others in the TMA; there is one cultural site in the vicinity of this area, but it is inside a livestock enclosure
20 fence. Overall, concentrated use will not have an effect on cultural resources in the TMA.

21 *3.2.5.2.2 Impact Indicators*

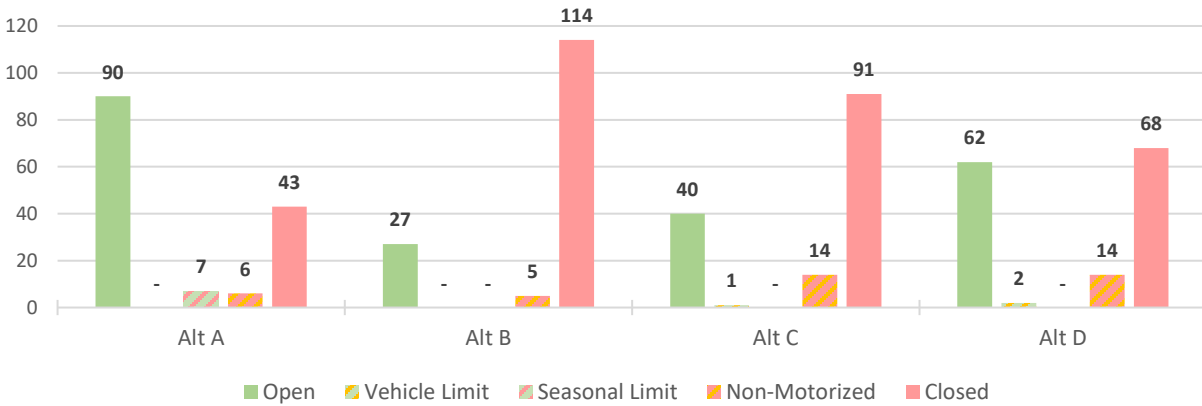
22 Figure 3.37 – Figure 3.39, below, illustrate the number of evaluated routes proximate to known cultural
23 resources under each alternative. “Known cultural sites” include NRHP eligible sites, NRHP not eligible sites,
24 and NRHP unevaluated sites. For a detailed breakout of routes proximate to each site type, see Appendix C
25 (note: some routes may be proximate to more than one site). Although the presence of a cultural resource on or
26 proximate to a route is not an indication that an impact may occur, this analysis is an indicator of potential
27 effects each alternative network could have on cultural resources when considering the TMP project as a
28 whole. See Appendix G for definitions of the National Register eligibilities used in these figures.

29 **Figure 3-37: Number of Evaluated Routes Proximate to Known Cultural Sites**



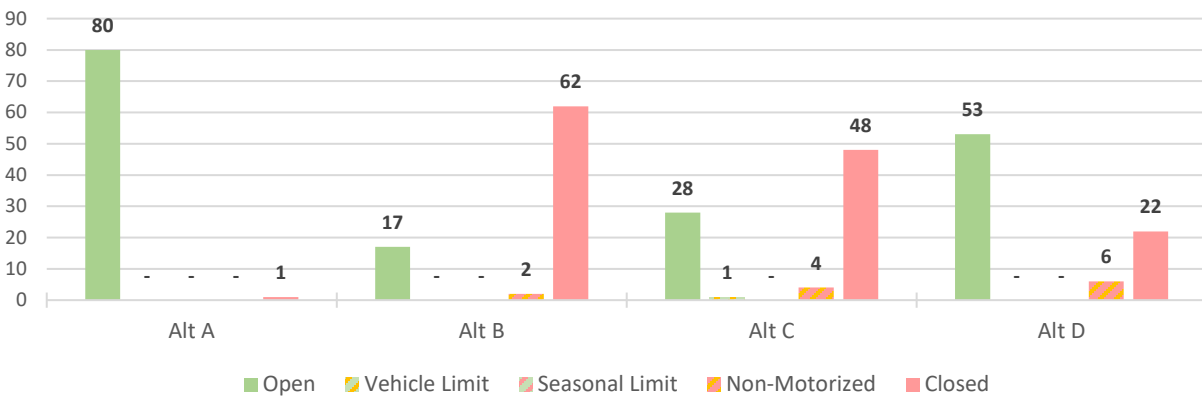
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31

1 **Figure 3-38: Number of Evaluated Routes in Areas of High Probability for Cultural Resources**



2

3 **Figure 3-39: Number of Evaluated Routes Within ¼ Mile of Nez Perce NHT**



4

5 **3.2.5.2.3 Alternative A (Current Management)**

6 Under Alternative A, 82% of the 228 evaluated routes crossing or proximate to known cultural sites (eligible,
 7 not eligible, or unevaluated) are open to public OHV use, 7% are limited to non-motorized use, and the rest are
 8 closed. Of the 146 evaluated routes in areas of high probability, 66% are available for OHV use, 4% are
 9 limited to non-motorized use, and the rest are closed. And of the 81 evaluated routes crossing or proximate to
 10 the Nez Perce NHT, one route is closed and the rest are open to OHV use.

11 Impacts to cultural resources under Alternative A would reflect a continuation of current management. Open
 12 routes provide OHV access that could result in direct damage to cultural resources from trampling, theft, and
 13 vandalism. This unrestricted access could also cause indirect impacts such as noxious and invasive species
 14 spread (e.g., cheatgrass) from travel-related disturbances, increasing the potential for damaging wildland fire.
 15 Erosion and exposure of sites from travel-related disturbances leaves sites more susceptible to loss and
 16 damage. Conversely, some open designations could provide access that is beneficial for interpretive or
 17 educational opportunities. Given the high percentage of routes available to OHV access, there is a
 18 correspondingly high likelihood for ongoing adverse impacts to cultural sites and the Nez Perce NHT.

19 **3.2.5.2.4 Alternative B (Natural Resource Emphasis)**

20 Under Alternative B, 65 routes crossing or proximate to known cultural sites would be designated for OHV
 21 use, a 65% reduction from Alternative A. Alternative B would designate 9 routes in proximity to known
 22 cultural sites for non-motorized use, a 47% reduction from Alternative A. This alternative proposes the

1 construction of one new non-motorized route proximate to a known cultural site (in this case, an unevaluated
2 site). Prior to any ground disturbing activity, a Class III level cultural resource inventory would be conducted.

3 Of the evaluated routes in high probability areas, Alternative B would designate 27 for OHV use, a 72%
4 reduction from Alternative A. Alternative B would designate 5 routes for non-motorized use in high
5 probability areas, a 1-route reduction. Under this alternative, no new routes are proposed for construction in
6 areas of high probability.

7 Of the evaluated routes crossing or proximate to the Nez Perce NHT, Alternative B would designate 17 routes
8 for OHV use, a 79% reduction from Alternative A. Alternative B would designate 2 routes in proximity to the
9 NHT for non-motorized use, a 2-route increase from Alternative A. No new routes are proposed for
10 construction in proximity to the NHT.

11 The decreases in routes designated for public use under Alternative B would substantially reduce the potential
12 for route use-related impacts of vandalism, theft, damage, soil erosion and exposure, invasive species and weed
13 spread, and wildfire to cultural resources compared to Alternative A.

14 3.2.5.2.5 *Alternative C (Multiple Use Emphasis)*

15 Under Alternative C, 105 routes crossing or proximate to known cultural sites would be designated for OHV
16 use, a 44% reduction from Alternative A. Alternative C would designate 12 routes in proximity to known
17 cultural sites for non-motorized use, a 29% reduction from Alternative A. This alternative proposes the
18 construction of 2 new non-motorized routes proximate to known cultural sites (both are unevaluated sites).

19 Of the evaluated routes in high probability areas, Alternative C would designate 40 for OHV use, a 59%
20 reduction from Alternative A. Alternative C would designate 14 routes for non-motorized use in high
21 probability areas, an 8-route increase. Under this alternative, 1 new route open to all use and 1 new non-
22 motorized single-track trail are proposed for construction in areas of high probability.

23 Of the evaluated routes crossing or proximate to the Nez Perce NHT, Alternative C would designate 29 routes
24 for OHV use, a 64% reduction from Alternative A. Alternative C would designate 4 routes in proximity to the
25 NHT for non-motorized use, a 4-route increase from Alternative A. No new routes are proposed for
26 construction in proximity to the NHT.

27 The decreases in routes designated for public use under Alternative C would reduce the potential for route use-
28 related impacts of vandalism, theft, damage, soil erosion and exposure, invasive species and weed spread, and
29 wildfire to cultural resources compared to Alternative A, though not to the extent of Alternative B.

30 3.2.5.2.6 *Alternative D (Access Emphasis)*

31 Under Alternative D, 141 routes crossing or proximate to known cultural sites would be designated for OHV
32 use, a 25% reduction from Alternative A. Alternative D would designate 11 routes in proximity to known
33 cultural sites for non-motorized use, a 35% reduction from Alternative A. This alternative proposes the
34 construction of 2 new non-motorized routes proximate to known cultural sites (both are unevaluated sites).

35 Of the evaluated routes in high probability areas, Alternative D would designate 63 for OHV use, a 35%
36 reduction from Alternative A. Alternative D would designate 14 routes for non-motorized use in high
37 probability areas, an 8-route increase. Under this alternative, 1 new route open to all use and 2 new non-
38 motorized single-track trails are proposed for construction in areas of high probability.

39 Of the evaluated routes crossing or proximate to the Nez Perce NHT, Alternative D would designate 53 routes
40 for OHV use, a 34% reduction from Alternative A. Alternative D would designate 6 routes proximate to the
41 NHT for non-motorized use, a 6-route increase from Alternative A. No new routes are proposed for
42 construction in proximity to the NHT.

1 The decreases in routes designated for public use under Alternative D would reduce the potential for route use-
2 related impacts of vandalism, theft, damage, soil erosion and exposure, invasive species and weed spread, and
3 wildfire to cultural resources compared to Alternative A, though not to the extent of the other action
4 alternatives.

5 3.2.6 Special Designations

6 *How would the designated travel route network impact special designation areas (e.g., ACECs, RNAs, WSAs,*
7 *WSRs) in the TMA?*

8 3.2.6.1 Affected Environment

9 Note: The Snake River Islands WSA, Pine Creek Island RNA, Reid Canal Island RNA, and Squaw Creek
10 Island RNA are within the TMA but because they do not contain any evaluated routes, they are not analyzed
11 below.

12 3.2.6.1.1 Henry's Lake ACEC

13 50-acre Henry's Lake ACEC was designated in 1997, as part of an amendment to the 1985 Medicine Lodge
14 RMP, for the protection of riparian-wetland areas, wildlife, recreation, and water quality resources from land
15 disposal and unrestricted ROWs and development.

16 The ACEC is located along the shore and in the Henry's Lake Flat area at the head of the Henry's Fork
17 watershed. Henry's Lake and its tributaries make up the headwaters of the Henry's Fork of the Snake River. It
18 is a natural, glacial-filled mountain lake famous for its trout fishing that was greatly increased in size many
19 years ago by a dam. This area is considered to be one of the most ecologically significant regions within the
20 Greater Yellowstone Ecosystem. The wide open grasslands and wetland area of the area provide critical habitat
21 for peregrine falcons, gray wolf, bald eagles, and grizzly bears as well as crucial habitat for large numbers of
22 big game, waterfowl, and sandhill cranes. The Henry's Lake and Henry's Lake Flat area is renowned for its
23 vast, diverse, and unique wetlands.

24 The ACEC is of high scenic value and can be accessed by U.S. Highway 20 and State Highway 87, both of
25 which intersect the ACEC. A series of improved and unimproved roads also cross through the ACEC. A total
26 of 16.3 miles of evaluated routes are on BLM lands within the ACEC.

27 3.2.6.1.2 Henry's Lake WSA

28 The Henry's Lake WSA is a 350-acre parcel of public land within a small perennial stream drainage north of
29 Henry's Lake and bounded on the east and north by the USFS-managed Lion's Head roadless area. The other
30 two sides are adjacent to private land that has been developed for recreation home sites. The vegetation is lush
31 along the creek bottom with Wood's rose, quaking aspen, willows, serviceberry, and snowberry. The slopes
32 have scattered stands of Douglas-fir, lodgepole pine, and quaking aspen intermixed with sagebrush, antelope
33 bitterbrush, and grasses. Wildlife species found in the WSA include black bear, elk, moose, deer, and a variety
34 of birds. The area lies within habitat where management for grizzly bear is given priority over other uses. The
35 WSA receives minimum human activity because of its small size and lack of public access from the southern
36 boundary (BLM 1991a).

37 The WSA is closed to OHV use. Of the 0.9 miles of evaluated routes that are within the WSA, 0.4 miles are
38 non-motorized, and 0.5 miles are in trespass.

39 3.2.6.1.3 Game Creek RNA

40 The 360-acre Game Creek RNA was designated in the 1985 Medicine Lodge RMP. It encompasses a cross-
41 section of the lower Game Creek Canyon. The Game Creek drainage is a transition zone where both
42 Engelmann spruce and Colorado blue spruce are intermixed; riparian vegetation consists largely of

1 communities dominated by Engelmann spruce and red-osier dogwood. The blue spruce community makes this
2 RNA unique, and healthy quaking aspen stands and Douglas-fir habitat types are also well represented.
3 Changes to the vegetation are not allowed. The area is of high scenic value and offers an opportunity for
4 primitive recreation and solitude. It is also an important wintering area for big game. The RNA is also a
5 municipal watershed that provides drinking water to the town of Victor, Idaho. Current management actions
6 and restrictions associated with the Game Creek RNA have been effective in preserving and protecting the
7 resource values for which the area was designated (BLM 2009).

8 The RNA is closed to public OHV use. There are 4 routes within the RNA. Three routes are proposed for
9 designation as limited to nonmotorized uses under all action alternatives which would be consistent with the
10 unique values of the RNA. The fourth route has a right-of-way and provides administrative access to a
11 municipal watershed, so it would be closed to public OHV use under all action alternatives. For these reasons,
12 the RNA will not be analyzed in detail below.

13 *3.2.6.1.4 North Menan Butte ACEC/RNA*

14 The 346-acre North Menan Butte RNA is within the boundaries of the 1,124-acre ACEC. Both were
15 designated in the 1985 Medicine Lodge RMP. The butte lies at the confluence of the Henry's Fork and the
16 main stem of the Snake River and is an outstanding example of a glassy tuff cone, which is found in only a few
17 places in the world (BLM 2009). It was chosen for designation because of its value as a unique geologic
18 feature and because of the great variety of vegetation types that occur there. It also has high scenic value. A
19 trailhead with barriers, gates, and interpretive signs have been developed on the west side and the rim of the
20 butte can be accessed via a series of hiking trails. The North Menan Butte National Natural Landmark is a
21 National Park Service designation that falls within the same boundaries as the ACEC.

22 Within the ACEC are 4.7 miles of evaluated routes and within the RNA are 3.2 miles of evaluated routes.

23 *3.2.6.1.5 Snake River ACEC*

24 The Snake River ACEC was designated in the 1985 RMP with the intent to recognize and conserve a unique
25 cottonwood ecosystem, scenic values, bald eagle habitat, and other wildlife species and their habitats. The
26 2009 AMS determined that current management of travel within the Snake River ACEC is adequate for
27 protecting these values (BLM 2009).

28 The Snake River ACEC covers approximately 21,954 acres of BLM-managed public lands along
29 approximately 88 miles of river and includes the South Fork of the Snake River (South Fork) from Palisades
30 Dam to the confluence with the Henrys Fork of the Snake River (Henrys Fork), the Henrys Fork from the
31 confluence to St. Anthony, Idaho, and the main stem of the Snake River from the confluence south to Market
32 Lake Canal below Lewisville Knolls (BLM 2008b). The ACEC was designated to protect and conserve
33 riparian-wetland habitat within the unique cottonwood ecosystem, recreation values, scenic qualities, bald
34 eagle habitat, and other wildlife species and their habitats. The river flows through some of the most valuable
35 terrestrial and aquatic wildlife habitat in Idaho (BLM 1985a). The Snake River SRMA falls within the same
36 boundaries as the Snake River ACEC; for more information on the SRMA, see section 3.3.1.

37 The USFWS has identified the ACEC as containing the highest-quality cottonwood riparian zone in the
38 western United States (USDI-BLM 2008). This area has one of the most extensive cottonwood riparian-
39 wetland ecosystems in North America and is one of the last ecosystems of this type in Idaho. The South Fork
40 from Palisades Reservoir to the confluence with the Henrys Fork is eligible for inclusion in the National Wild
41 and Scenic Rivers System.

42 Maintaining quality habitat for wildlife that occupies the lands along the Snake River is a major concern. The
43 extensive riverbanks and islands within the Snake River ACEC provide wintering habitat for bald eagles, elk,
44 moose, mule deer, whitetail deer, and dozens of bird species. Much of the deer population remains year-round.

1 The Snake River, particularly the South Fork, is a high-quality Yellowstone cutthroat trout fishery with non-
2 native brown and rainbow trout also present. Three ESA-listed species—Ute ladies'-tresses (*Spiranthes*
3 *diluvialis*), yellow-billed cuckoo (*Coccyzus americanus*), and Canada lynx (*Lynx canadensis*)—live in the
4 Snake River ACEC.

5 A total of 142.6 miles of evaluated routes are within the Snake River ACEC.

6 3.2.6.2 Environmental Effects

7 3.2.6.2.1 Direct or Indirect Effects Common to All Alternatives

8 Potential adverse effects to an ACEC or RNA are those effects that would degrade their relevant and important
9 values. For the Henry's Lake ACEC this would be any effects that would damage or degrade riparian and
10 wildlife habitats, water quality, or quality of recreational experiences within the ACEC. Similarly, for the
11 Snake River ACEC, this would include any effects that would damage or degrade the ACEC's riparian-
12 wetland habitat, bald eagle and other wildlife habitat, scenic quality, or recreation values. Such effects would
13 include:

- 14 • crushing or trampling of vegetation and forage critical to wildlife
- 15 • alteration or destruction of foraging or nesting habitats
- 16 • soil erosion or compaction of soils needed to sustain vegetative growth
- 17 • dusting of vegetation resulting in loss of plant health and vigor
- 18 • disturbance resulting in spread of invasive plants and noxious weeds which can outcompete native
19 vegetation and forage for available plant nutrients
- 20 • weed germination and spread as a result of transport of weed seeds from other areas on OHV
21 undercarriages and tires
- 22 • damage or disruption to the natural appearance of the landscape
- 23 • direct loss of access for desired recreation opportunities and experiences (primarily, fishing)
- 24 • increase in encounters or conflicts with other users seeking different experiences

25 Within WSAs, continued OHV use may contribute to degradation or loss of some wilderness characteristics as
26 a result of travel-related impacts such as vehicle noise, wheel tracks, creation of dispersed camp sites, resource
27 damage on or along travel routes, and expanded human presence. OHV access and the presence of OHVs can
28 also lead to a loss of solitude and opportunity to experience primitive and unconfined recreation. Resource
29 damage can occur near travel routes from vehicle passing, parking, and staging, and the creation of social
30 trails, etc., by causing potential adverse effects that may result in degradation of naturalness.

31 TMP implementation activities that could occur in the ACECs and may affect their relevant and important
32 values include road maintenance (surface and ditch grading and drainage structure replacement or installation,
33 etc.), route reclamation (ripping or scarifying road surfaces and planting seed), and sign placement (digging
34 post holes). Seeding and planting on closed routes could accelerate reclamation. If implementation is proposed
35 that requires new surface disturbance, additional site-specific NEPA would be conducted before the activity
36 could occur.

37 TMP implementation activities that could occur in the Henry's Lake WSA would be limited to non-motorized
38 trail maintenance, very minimal signing where needed, and route closure and reclamation. These activities
39 could result in some short-term noticeable surface disturbance; however, once completed, they would support
40 enhancement and restoration of the area's natural character.

41 Travel networks with open or limited designations can contribute to prolonged effects from OHV and non-
42 motorized use on routes in the ACECs. Conversely, closed and limited designations that prohibit use wholly or

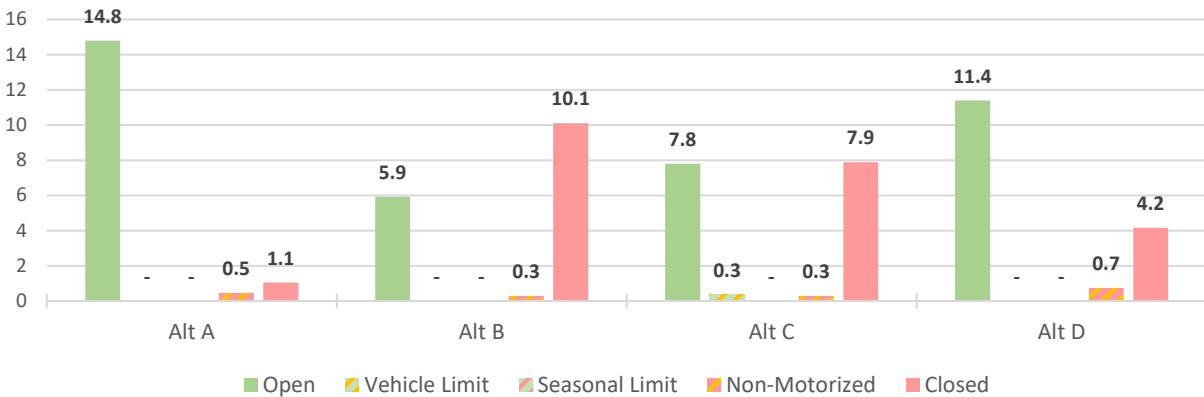
1 in part can reduce or eliminate effects from OHV use of routes in the ACECs. Travel routes would also
 2 provide access for ACEC monitoring activities.

3 Because the Game Creek RNA is closed to public OHV use and all alternatives propose the same route
 4 designations, which would be consistent with the unique values of the RNA, it is not analyzed further below.

5 **3.2.6.2.2 Impact Indicators**

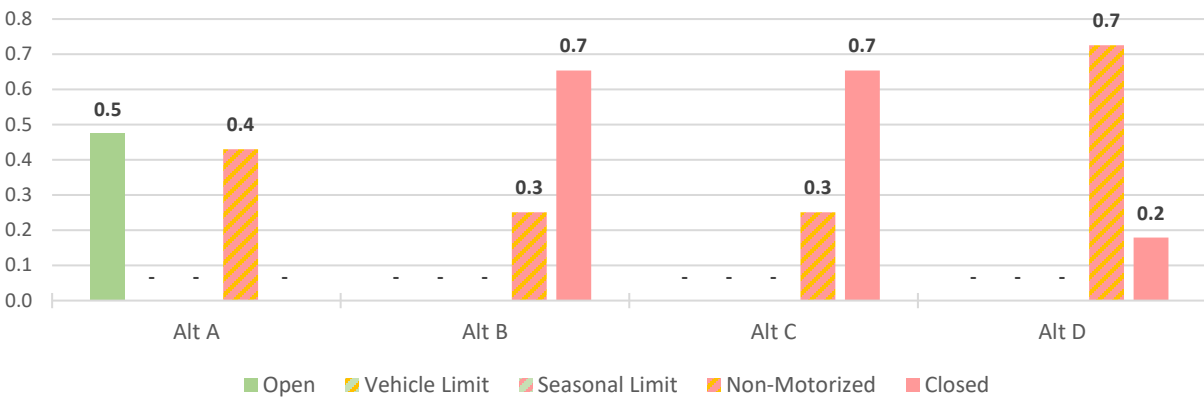
6 Indicators of potential OHV route impacts on the important and relevant values of an ACEC or a WSA include
 7 the miles of routes in these areas. Figure 3.40 – Figure 3.44, below, show the miles of evaluated routes in each
 8 alternative network that are in special designation areas within the TMA to more easily compare the action
 9 alternatives (B-D) to the baseline, Alternative A. More detailed data tables may be found in Appendix C.

10 **Figure 3-40: Miles of Evaluated Routes in the Henry’s Lake ACEC**



11

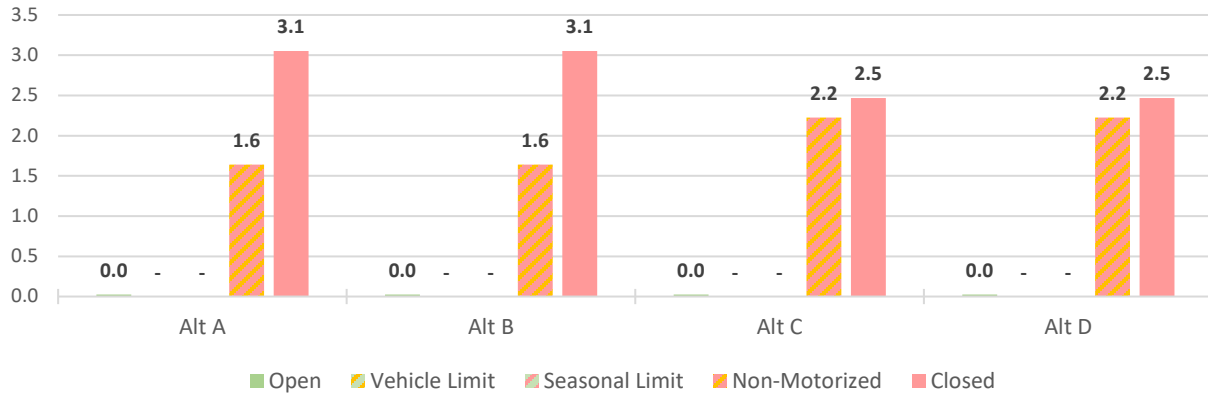
12 **Figure 3-41: Miles of Evaluated Routes in the Henry’s Lake WSA**



13

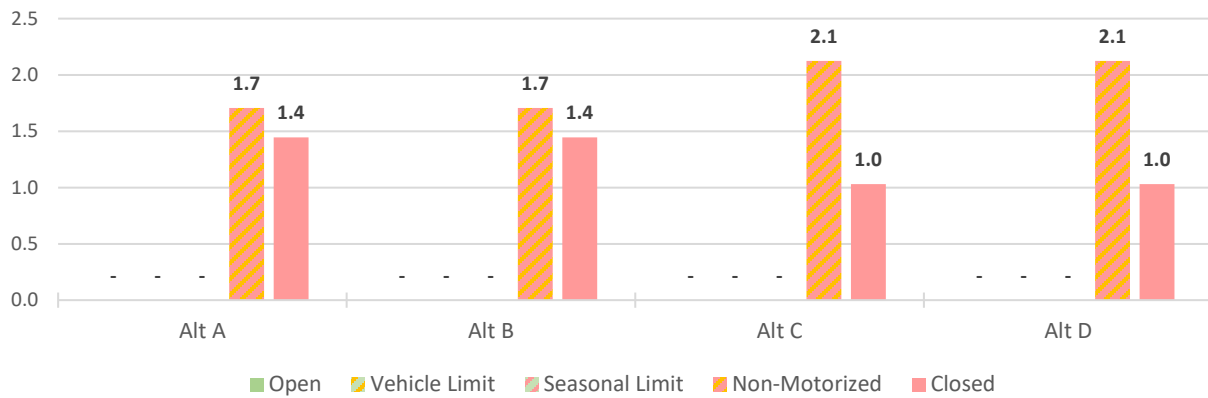
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1 **Figure 3-42: Miles of Evaluated Routes in the North Menan Butte ACEC**



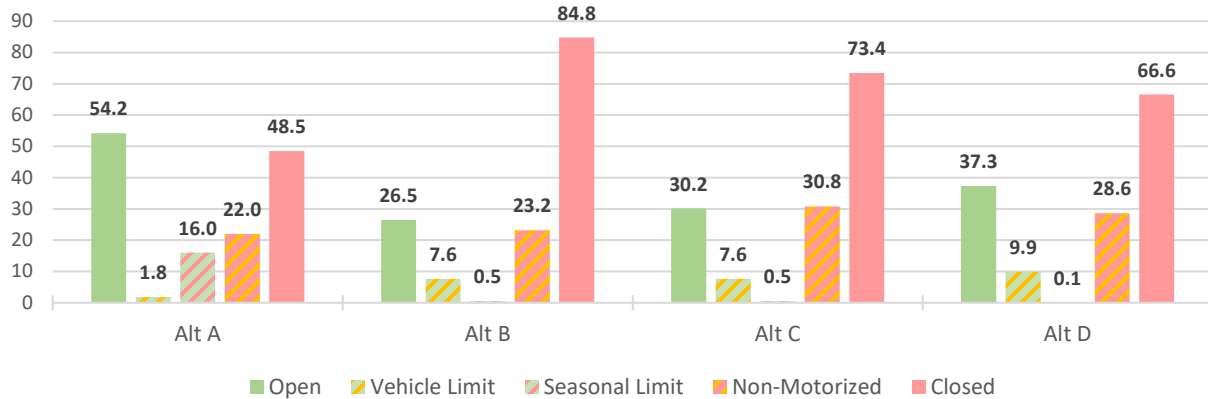
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3 **Figure 3-43: Miles of Evaluated Routes in the North Menan Butte RNA**



4

5 **Figure 3-44: Miles of Evaluated Routes in the Snake River ACEC**



6

7 **3.2.6.2.3 Alternative A (Current Management)**

8 Under Alternative A, of the 16.3 miles of evaluated routes in the Henry’s Lake ACEC, 91% would remain
 9 open to OHV use, 3% would remain limited to non-motorized use, and the rest would remain closed. Within
 10 the Henry’s Lake WSA, 0.5 of the 0.9 miles of evaluated routes are currently receiving OHV use but are in

1 trespass. The other 0.4 miles of evaluated routes would remain limited to non-motorized use under Alternative
2 A.

3 Within the North Menan Butte ACEC, under Alternative A, 34% of the 4.7 miles of evaluated routes would
4 remain limited to non-motorized use and the rest would remain limited to authorized users only or closed.

5 Within the North Menan Butte RNA, 53% of the 3.2 miles of evaluated routes would remain limited to non-
6 motorized use and the rest would remain limited to authorized use only or closed.

7 Within the Snake River ACEC, under Alternative A, 50% of the 142.6 miles of evaluated routes would remain
8 available for OHV use, 15% would remain limited to non-motorized use, and the rest would remain limited to
9 authorized users only or closed.

10 Impacts to the relevant and important values of the ACECs and RNA (i.e., crushing or trampling of vegetation,
11 alteration of foraging or nesting habitats, soil erosion, dusting of plants that decreases health and vigor,
12 disturbance resulting in the spread of invasive species or noxious weeds, damage or disruption of the natural
13 landscape, loss of desired recreation opportunities, increases in user conflicts, etc.) and impacts to the WSA's
14 wilderness values (i.e., human encounters, noise, loss of naturalness, and loss of opportunity to experience
15 primitive recreation and solitude during the duration of the travel-related activity) would reflect a continuation
16 of current management.

17 3.2.6.2.4 *Alternative B (Natural Resource Emphasis)*

18 Alternative B would designate 5.9 miles of evaluated routes for OHV use (OHV-Open or OHV-Limited)
19 within the Henry's Lake ACEC, a 60% reduction compared to Alternative A. Alternative B would also
20 designate 0.3 miles for non-motorized use, a 0.2-mile reduction from Alternative A. Alternative B would close
21 and earmark for decommissioning and reclamation 52% of the existing miles in the ACEC. Within the Henry's
22 Lake WSA, Alternative B would designate 0.3 miles for non-motorized use while the rest would be closed and
23 earmarked for reclamation. Alternative B does not propose any new route construction in the Henry's Lake
24 ACEC nor in the WSA.

25 Within the North Menan Butte ACEC, Alternative B would designate 1.6 miles for non-motorized use, the
26 same as Alternative A. Alternative B would close and earmark for decommissioning and reclamation 45% of
27 the 4.7 miles of existing routes within the ACEC. Within the North Menan Butte RNA, Alternative B would
28 designate 1.7 miles for non-motorized use, the same as Alternative A. Alternative B would close and earmark
29 for reclamation 40% of the 3.2 miles of existing routes in the RNA. Alternative B does not propose any new
30 route construction in the North Menan Butte ACEC nor in the RNA.

31 Of the evaluated routes in the Snake River ACEC, Alternative B would designate 34.6 miles for OHV use, a
32 52% reduction from Alternative A, and would designate 23.2 miles for non-motorized use, a 5% increase from
33 Alternative A. Alternative B would close and earmark for decommissioning and reclamation 36% of the
34 existing routes in the ACEC. Alternative B does not propose any new route construction in the Snake River
35 ACEC.

36 Overall, given Alternative B's substantial route closures and reclamation, the potential for route use-related
37 impacts noted above to the ACECs, RNA, and WSA under this alternative would be lower than Alternative A
38 and the other action alternatives.

39 3.2.6.2.5 *Alternative C (Multiple Use Emphasis)*

40 Alternative C would designate 8.1 miles of evaluated routes for OHV use within the Henry's Lake ACEC, a
41 45% reduction compared to Alternative A. Alternative C would also designate 0.3 miles for non-motorized
42 use, a 0.2-mile reduction from Alternative A. Alternative C would close and earmark for decommissioning and
43 reclamation 29% of the existing miles in the ACEC. Alternative C proposes the construction of 0.2 miles of
44 new OHV-Open routes within the ACEC, which would result in acres of disturbance as shown below in Table
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1 3.41. Within the Henry’s Lake WSA, Alternative C would not designate any routes for OHV use, a 0.5-mile
 2 reduction from Alternative A. It would designate 0.3 miles for non-motorized use in the WSA, a 0.1-mile
 3 reduction from Alternative A, and the rest of the evaluated miles would be closed and earmarked for
 4 decommissioning and reclamation. Alternative C does not propose any new route construction in the WSA.

5 **Table 3-41: Acres of Disturbance from Proposed New Route Construction in Henry’s Lake ACEC Under**
 6 **Alternative B**

| | Designation | Acres of Short-Term | Acres of Long-Term |
|-------------------|----------------------------|---------------------|--------------------|
| Henry’s Lake ACEC | Open to all use (OHV-Open) | 0.12 | 0.04 |

7 Within the North Menan Butte ACEC, Alternative C would designate 2.2 miles for non-motorized use, a 0.6-
 8 mile increase from Alternative A. Alternative C would close and earmark for reclamation 32% of the 4.7 miles
 9 of existing routes within the ACEC. Within the North Menan Butte RNA, Alternative C would designate 2.1
 10 miles for non-motorized use, a 0.4-mile increase from Alternative A. Alternative C would close and earmark
 11 for decommissioning and reclamation 27% of the 3.2 miles of existing routes in the RNA. Alternative C does
 12 not propose any new route construction in the North Menan Butte ACEC nor in the RNA.

13 Of the evaluated routes in the Snake River ACEC, Alternative C would designate 38.3 miles for OHV use, a
 14 47% reduction from Alternative A, and would designate 30.8 miles for non-motorized use, a 40% increase
 15 from Alternative A. Alternative C would close and earmark for decommissioning and reclamation 25% of the
 16 existing routes in the ACEC. Alternative C proposes the construction of 0.3 miles of new OHV-Open routes
 17 within the ACEC, and 0.7 miles of new non-motorized single-track trails, which would result in acres of
 18 disturbance as shown below in Table 3.42.

19 **Table 3-42: Acres of Disturbance from Proposed New Route and Trail Construction in the Snake River**
 20 **ACEC Under Alternative C**

| | Designation | Acres of Short-Term | Acres of Long-Term |
|------------------|---|---------------------|--------------------|
| Snake River ACEC | Open to all use (OHV-Open) | 0.21 | 0.07 |
| | Limited to non-motorized use (OHV-Closed) | 1.13 | 0.81 |

21 Overall, the potential for the types of route use-related impacts noted above to the ACECs, RNA, and WSA
 22 under Alternative C would be lower than Alternatives A and D but higher than Alternative B.

23 **3.2.6.2.6 Alternative D (Access Emphasis)**

24 Alternative D would designate 11.4 miles of evaluated routes for OHV use within the Henry’s Lake ACEC, a
 25 23% reduction compared to Alternative A. Alternative D would also designate 0.7 miles for non-motorized
 26 use, a 0.2-mile increase from Alternative A. Alternative D would close and earmark for decommissioning and
 27 reclamation 9% of the existing miles in the ACEC. Alternative D proposes the construction of 0.4 miles of new
 28 OHV-Open routes within the ACEC, which would result in acres of disturbance as shown below in Table 3.43.
 29 Within the Henry’s Lake WSA, Alternative D would designate 0.7 miles for non-motorized use, a 0.3-mile
 30 increase from Alternative A, while closing and reclaiming 0.2 miles of existing routes. Alternative D does not
 31 propose any new route construction in the WSA.

32

1 **Table 3-43: Acres of Disturbance from Proposed New Route Construction in Henry’s Lake ACEC Under**
 2 **Alternative B**

| | Designation | Acres of Short-Term | Acres of Long-Term |
|-------------------|----------------------------|---------------------|--------------------|
| Henry’s Lake ACEC | Open to all use (OHV-Open) | 0.26 | 0.09 |

3 Within the North Menan Butte ACEC, Alternative D would designate 2.2 miles for non-motorized use, a 0.6-
 4 mile increase from Alternative A. Alternative D would close and earmark for decommissioning and
 5 reclamation 32% of the 4.7 miles of existing routes within the ACEC. Within the North Menan Butte RNA,
 6 Alternative D would designate 2.1 miles for non-motorized use, a 0.4-mile increase from Alternative A.
 7 Alternative D would close and earmark for decommissioning and reclamation 27% of the 3.2 miles of existing
 8 routes in the RNA. Alternative D does not propose any new route construction in the North Menan Butte
 9 ACEC nor in the RNA.

10 Of the evaluated routes in the Snake River ACEC, Alternative D would designate 47.3 miles for OHV use, a
 11 34% reduction from Alternative A, and would designate 28.6 miles for non-motorized use, a 30% increase
 12 from Alternative A. Alternative D would close and earmark for reclamation 22% of the existing routes in the
 13 ACEC. Alternative D proposes the construction of 0.3 miles of new routes within the ACEC that would be
 14 open to OHV use, and 0.7 miles of new non-motorized single-track trails, which would result in acres of
 15 disturbance as shown below in Table 3.44.

16 **Table 3-44: Acres of Disturbance from Proposed New Route and Trail Construction in the Snake River**
 17 **ACEC Under Alternative C**

| | Designation | Acres of Short-Term | Acres of Long-Term |
|------------------|---|---------------------|--------------------|
| Snake River ACEC | Open to all use (OHV-Open) | 0.21 | 0.07 |
| | Limited to non-motorized use (OHV-Closed) | 1.13 | 0.81 |

18 Overall, the potential for route use-related impacts noted above to the ACECs, RNA, and WSA under
 19 Alternative D would be lower than Alternative A but higher than the other action alternatives.

20 **3.2.7 Visual Resources**

21 *How would the designated travel route network impact visual resources in the TMA?*

22 **3.2.7.1 Affected Environment**

23 The quality of visual resources for BLM lands is *measured* with visual resource inventory (VRI) classes. VRI
 24 classes are assigned through an inventory process and serve as the basis for considering visual values. As noted
 25 in the BLM’s visual resource inventory manual, “Inventory classes are informational in nature and provide the
 26 basis for considering visual values in the RMP process. They do not establish management direction and are
 27 not used as a basis for constraining or limiting surface disturbing activities.” Class I is assigned to those areas
 28 where a management decision has been made previously to maintain a natural landscape. Classes II, III, and IV
 29 are assigned based on a combination of scenic quality, sensitivity level, and distance zones. Class I contains
 30 the highest visual quality and Class IV the lowest visual quality.

31 Visual resources in the TMA are *managed* in accordance with land use plans. Visual resource management
 32 (VRM) is a process the BLM uses to manage scenic values to reduce visual impacts of development or other
 33 surface-disturbing activities on public lands. There are four visual resource classes: I, II, III, and IV. Class I is
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1 assigned to areas where management decisions have been made to maintain natural landscapes, and Class IV is
 2 assigned to areas where decisions have been made to provide for activities that involve major landscape
 3 character modification. VRM classes are assigned through land use plans and are used as a basis for
 4 management (BLM 1986).

5 The 1985 Medicine Lodge RMP identified the original VRM inventory classes for the USFO. The RMP
 6 stipulates, “Visual resources will continue to be evaluated as a part of activity and project planning. Such
 7 evaluation will consider the significance of the proposed project and the visual sensitivity of the affected area.
 8 Stipulations will be attached as appropriate to maintain existing visual resource management classes.” The
 9 management direction in the 1985 RMP was determined to be not adequate. Based on improved inventory and
 10 assessment techniques, the visual resource inventory was updated in 1994, which coincided with the 1997
 11 Interior Columbia Basin Ecosystem Management Project. The USFO conducted a new inventory effort from
 12 2010 to 2011, which now represents the best available visual resource class data.

13 The VRM class objectives are:

- 14 • VRM Class I – Preserve the existing character of the landscape. This class provides for the natural
 15 ecological changes; however, it does not preclude very limited management activity. The level of
 16 change of the characteristic landscape should be very low and must not attract attention.
- 17 • VRM Class II – Retain the existing character of the landscape. The level of change to the
 18 characteristic landscape should be low. Management activities may be seen but should not attract the
 19 attention of the casual observer. Changes must repeat the basic elements of form, line, color, and
 20 texture found in the predominant natural features of the characteristic landscape.
- 21 • VRM Class III – Partially retain the existing character of the landscape. The level of change to the
 22 characteristic landscape should be moderate. Management activities may attract attention but should
 23 not dominate the view of the casual observer. Changes should repeat the basic elements found in the
 24 predominant natural features of the characteristic landscape.
- 25 • VRM Class IV – Provide for management activities that require major modification of the existing
 26 character of the landscape. The level of change to the characteristic landscape can be high. These
 27 management activities may dominate the view and be the major focus of viewer attention. However,
 28 every attempt should be made to minimize the impact of these activities through careful location,
 29 minimal disturbance, and repeating the basic elements.

30 The miles of evaluated routes by VRI and VRM Classes I and II in the TMA are as follows⁵:

31 **Table 3-45: Miles of Evaluated Routes by VRI Class**

| VRI Class | BLM Acres | Miles of Evaluated Routes |
|--------------|-----------|---------------------------|
| VRI Class I | 769 | 0.9 |
| VRI Class II | 35,236 | 216.1 |

32 **Table 3-46: Miles of Evaluated Routes by VRM Class**

| VRM Class | BLM Acres | Miles of Evaluated Routes |
|--------------|-----------|---------------------------|
| VRM Class I | 7,260 | 23.3 |
| VRM Class II | 89,246 | 497.9 |

⁵ Analysis does not include Classes III and IV because they allow for changes in form, line, and color and would not provide for a useful comparison between alternatives.

1 3.2.7.2 Environmental Effects

2 3.2.7.2.1 Direct or Indirect Effects Common to All Alternatives

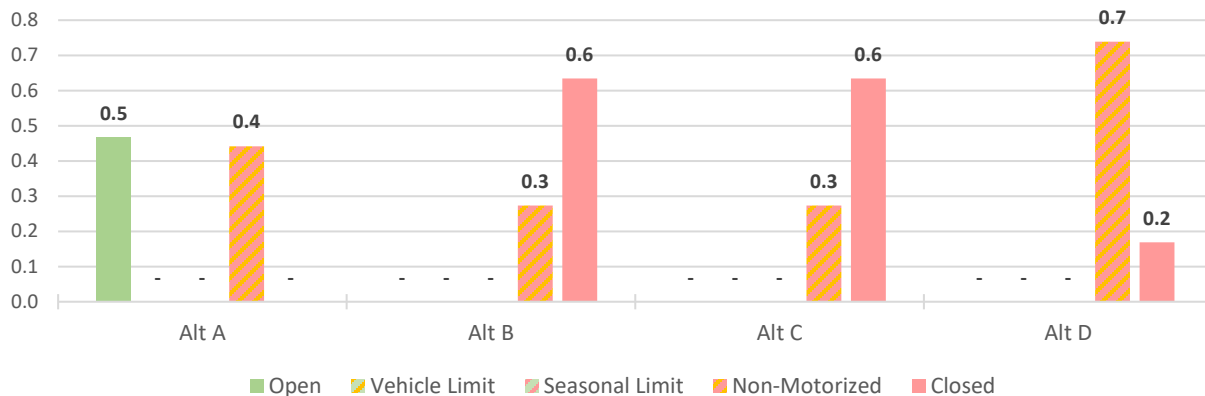
3 Existing travel routes and associated use can contribute to damage and disruption to the natural appearance of
4 landscapes due to route proliferation (i.e., user-created routes extending off existing routes) resulting in new
5 disturbances. Other travel-related surface disturbances and uses such as roadside camping can lead to
6 expansion of invasive species and noxious weeds and subsequently higher potential for disruptive wildfire
7 events. Routes also impact visual resources by creating contrasting lines where they do not follow natural
8 landscape contours. User-created routes typically do not follow ground contours and can extend up slopes,
9 leading to rilling, erosion, and contrasting lines. Changes in color and form from road cuts and fills create
10 visible impacts. However, the formal establishment of a route network that includes operation and
11 management components can help to minimize route proliferation and future degradation of visual resources.
12 Under all action alternatives, the application of specified operation and management tools provided in the
13 Implementation Guide—such as signs, route markers, and human-made barriers—would help reduce or
14 prevent impacts to the visual elements of line, form, and color.

15 Regardless of the final route designation decision for each travel route, it is assumed there will be follow-up
16 action on the ground. For permanently closed routes, implementation actions would include the placement of
17 closure signs, reclamation, or installation of barricades. For routes designated for OHV use, maintenance
18 actions may include the use of heavy equipment for grading and drainage maintenance or hand tools for
19 directional signing. The effects of these actions on visual resources are expected to be minor and short-term
20 but are included in this analysis. Overall, the route designations will result in some routes being closed, thereby
21 eventually reducing the overall footprint of the route network. More site-specific analysis of maintenance or
22 management actions may be needed if such actions could affect high-quality visual landscapes.

23 3.2.7.2.2 Impact Indicators

24 Indicators of impacts on visual resources include the miles of routes in VRI and VRM Classes I and II in the
25 TMA. Analysis does not include Classes III and IV because they allow for changes in form, line, and color and
26 would not provide for a useful comparison between alternatives. Figure 3.45 – Figure 3.48, below, show the
27 miles of evaluated routes in each alternative network that are in VRI and VRM Classes I and II within the
28 TMA to compare the action alternatives (B-D) to the baseline, Alternative A. More detailed data tables may be
29 found in Appendix C.

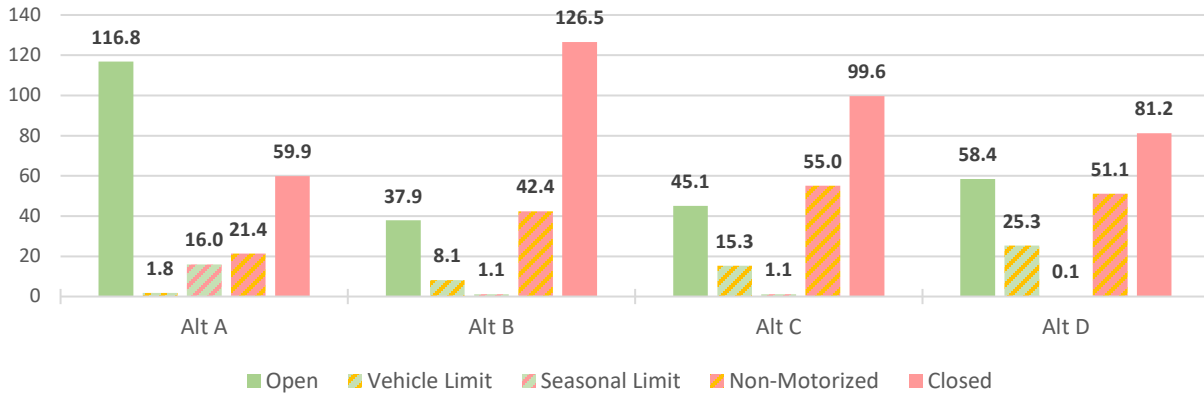
30 **Figure 3-45: Miles of Evaluated Routes in VRI Class I**



31

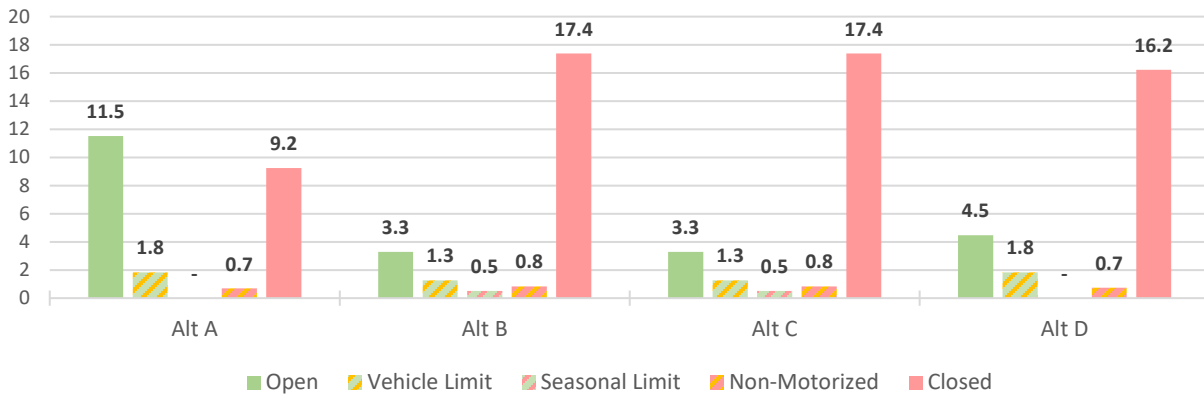
32

1 **Figure 3-46: Miles of Evaluated Routes in VRI Class II**



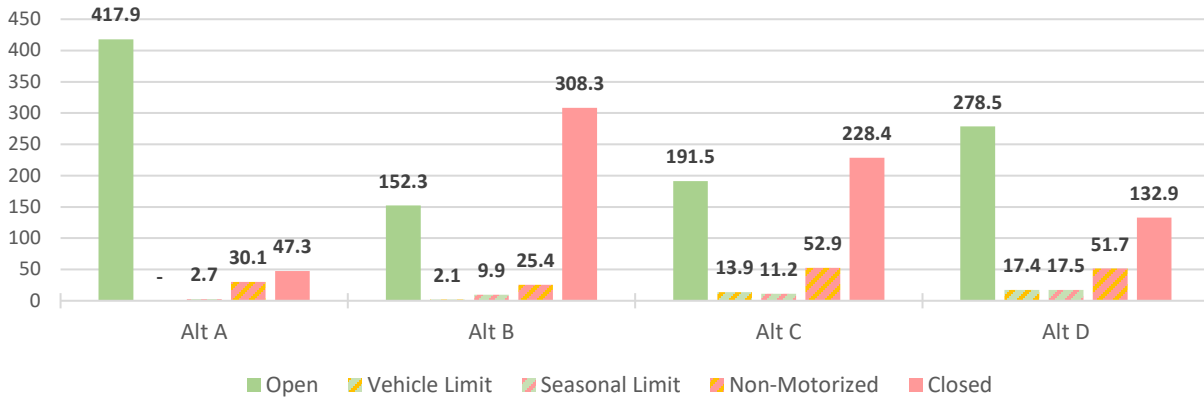
2

3 **Figure 3-47: Miles of Evaluated Routes in VRM Class I**



4

5 **Figure 3-48: Miles of Evaluated Routes in VRM Class II**



6

7 **3.2.7.2.3 Alternative A (Current Management)**

8 **Class I:** Under Alternative A, 0.5 of the 0.9 miles of evaluated routes within VRI I areas would remain open to
 9 OHV use and the rest would remain limited to non-motorized use. In VRM I areas, 57% of the 23.3 miles of
 10 evaluated routes would remain available for OHV use under Alternative A, 3% would remain limited to non-
 11 motorized use, 30% would remain limited to authorized users only, and the rest would remain closed.

1 Class II: In VRI II areas, 62% of the 215.9 miles of evaluated routes would remain available for OHV use,
 2 10% would remain limited to non-motorized use, 9% would remain limited to authorized users only, and the
 3 rest would remain closed. In VRM II areas, 84% of the 498.0 miles of evaluated routes would remain available
 4 for OHV use, 6% would remain limited to non-motorized use, less than 1% would remain limited to authorized
 5 users only, and the rest would remain closed.

6 Overall, under Alternative A, impacts to the TMA’s visual resources from existing routes and related use (i.e.,
 7 degradation of visual quality, disruption of natural appearance, etc.) would reflect a continuation of current
 8 management.

9 *3.2.7.2.4 Alternative B (Natural Resource Emphasis)*

10 Class I: In VRI I areas, Alternative B would designate zero miles for OHV use, a 100% (0.5-mile) reduction
 11 from Alternative A, and 0.3 miles for non-motorized use, a reduction of 0.1 miles compared to Alternative A;
 12 this alternative would close and earmark for decommissioning and reclamation the remaining 0.6 miles in VRI
 13 I areas. In VRM I areas, Alternative B would designate 5.1 miles for OHV use, a 62% reduction compared to
 14 Alternative A, and would designate 0.8 miles for non-motorized use, a 0.1-mile increase from Alternative A.
 15 Alternative B would close and earmark for decommissioning and reclamation 45% of the existing miles in
 16 VRM I areas. Alternative B does not propose any new route or trail construction in VRI I or VRM I areas.

17 Class II: In VRI II areas, Alternative B would designate 47.1 miles for OHV use (OHV-Open or OHV-
 18 Limited), a 65% reduction from Alternative A, and would designate 42.4 miles for non-motorized use, an
 19 increase of 98% compared to Alternative A; this alternative would close and earmark for decommissioning and
 20 reclamation 39% of the existing miles in VRI II areas. In VRM II areas, Alternative B would designate 164.3
 21 miles for OHV use, a 61% reduction from Alternative A, and 25.4 miles for non-motorized use, a 16%
 22 reduction from Alternative A; 48% of the existing miles of routes would be closed and earmarked for
 23 decommissioning and reclamation. Alternative B proposes construction within VRI II areas of 0.1 miles of
 24 new routes for OHV use, 0.2 miles of new routes limited to authorize users, and 2.5 miles of new non-
 25 motorized single-track trail. In VRM II areas, Alternative B proposes construction of 2.7 miles of new non-
 26 motorized single-track trail. This new construction in VRI and VRM II areas would result in acres of
 27 disturbance as disclosed below in Table 3.47.

28 **Table 3-47: Acres of Disturbance from Proposed New Route and Trail Construction in VRI and VRM II**
 29 **Areas Under Alternative B**

| | Designation | Acres of Short-Term | Acres of Long-Term |
|--------|--|---------------------|--------------------|
| VRI II | Limited by seasonal restrictions (OHV-Limited) | 0.06 | 0.02 |
| | Limited to authorized users (OHV-Closed) | 0.38 | 0.27 |
| | Limited to non-motorized use (OHV-Closed) | 1.79 | 0.60 |
| VRM II | Limited to non-motorized use (OHV-Closed) | 1.97 | 0.66 |

30 Despite the proposed construction of new routes and trails in VRI and VRM II areas, Alternative B’s overall
 31 potential for the types of route use-related impacts noted above to the TMA’s visual resources would be the
 32 lowest of any alternative.

1 3.2.7.2.5 *Alternative C (Multiple Use Emphasis)*

2 Class I: In VRI I areas, Alternative C, like Alternative B, would designate zero miles for OHV use, a 100%
 3 (0.5-mile) reduction from Alternative A, and 0.3 miles for non-motorized use, a reduction of 0.1 miles
 4 compared to Alternative A. Like Alternative B, this alternative would close and earmark for decommissioning
 5 and reclamation the remaining 0.6 miles in VRI I areas. In VRM I areas, Alternative C would designate 5.1
 6 miles for OHV use, a 62% reduction compared to Alternative A, and would designate 0.8 miles for non-
 7 motorized use, a 0.1-mile increase from Alternative A. Alternative C would close and earmark for
 8 decommissioning and reclamation 18% of the existing miles in VRM I areas. Alternative C does not propose
 9 any new route or trail construction in VRI I or VRM I areas.

10 Class II: In VRI II areas, Alternative C would designate 61.5 miles for OHV use, a 54% reduction from
 11 Alternative A, and would designate 55.0 miles for non-motorized use, an increase of 157% compared to
 12 Alternative A; this alternative would close and earmark for decommissioning and reclamation 25% of the
 13 existing miles in VRI II areas. In VRM II areas, Alternative C would designate 216.6 miles for OHV use, a
 14 48% reduction from Alternative A, and 52.9 miles for non-motorized use, a 76% increase from Alternative A;
 15 32% of the existing miles of routes would be closed and earmarked for decommissioning and reclamation.
 16 Alternative C proposes construction within VRI II areas of 0.6 miles of new routes for OHV use, 0.2 miles of
 17 new routes limited to authorize users, and 9.3 miles of new non-motorized single-track trail. In VRM II areas,
 18 Alternative C proposes construction of 0.3 miles of new routes for OHV use and 16.2 miles of new non-
 19 motorized single-track trail. This new construction in VRI and VRM II areas would result in acres of
 20 disturbance as disclosed below in Table 3.48.

21 **Table 3-48: Acres of Disturbance from Proposed New Route and Trail Construction in VRI and VRM II**
 22 **Areas Under Alternative C**

| | Designation | Acres of Short-Term | Acres of Long-Term |
|--------|--|---------------------|--------------------|
| VRI II | Open to all use (OHV-Open) | 0.33 | 0.11 |
| | Limited by seasonal restrictions (OHV-Limited) | 0.06 | 0.02 |
| | Limited to authorized users (OHV-Closed) | 0.38 | 0.27 |
| | Limited to non-motorized use (OHV-Closed) | 7.38 | 2.89 |
| VRM II | Open to all use (OHV-Open) | 0.18 | 0.06 |
| | Limited to non-motorized use (OHV-Closed) | 12.44 | 4.58 |

23 Overall, Alternative C’s potential for route use-related impacts noted above to the TMA’s visual resources
 24 would be lower than Alternatives A and D but higher than Alternative B.

25 3.2.7.2.6 *Alternative D (Access Emphasis)*

26 Class I: In VRI I areas, Alternative D, like Alternatives B and C, would designate zero miles for OHV use, a
 27 100% (0.5-mile) reduction from Alternative A, and 0.7 miles for non-motorized use, an increase of 0.3 miles
 28 compared to Alternative A; this alternative would close and earmark for decommissioning and reclamation the
 29 remaining 0.2 miles of existing routes in VRI I areas. In VRM I areas, Alternative D would designate 6.3 miles
 30 for OHV use, a 53% reduction compared to Alternative A, and would designate 0.7 miles for non-motorized

1 use, similar to Alternative A. Alternative D would close and earmark for decommissioning and reclamation 9%
 2 of the existing miles in VRM I areas. Alternative D does not propose any new route or trail construction in
 3 VRI I or VRM I areas.

4 Class II: In VRI II areas, Alternative D would designate 83.8 miles for OHV use, a 38% reduction from
 5 Alternative A, and would designate 51.1 miles for non-motorized use, an increase of 139% compared to
 6 Alternative A; this alternative would close and earmark for decommissioning and reclamation 17% of the
 7 existing miles in VRI II areas. In VRM II areas, Alternative D would designate 313.4 miles for OHV use, a
 8 25% reduction from Alternative A, and 51.7 miles for non-motorized use, a 72% increase from Alternative A;
 9 16% of the existing miles of routes would be closed and earmarked for decommissioning and reclamation.
 10 Alternative D proposes construction within VRI II areas of 0.7 miles of new routes for OHV use, 0.2 miles of
 11 new routes limited to authorized users, and 9.8 miles of new non-motorized single-track trail. In VRM II areas,
 12 Alternative D proposes construction of 1.4 miles of new routes for OHV use and 16.8 miles of new non-
 13 motorized single-track trail. This new construction in VRI and VRM II areas would result in acres of
 14 disturbance as disclosed below in Table 3.49.

15 **Table 3-49: Acres of Disturbance from Proposed New Route and Trail Construction in VRI and VRM II**
 16 **Areas Under Alternative D**

| | Designation | Acres of Short-Term | Acres of Long-Term |
|--------|---|---------------------|--------------------|
| VRI II | Open to all use (OHV-Open) | 0.53 | 0.18 |
| | Limited to authorized users (OHV-Closed) | 0.38 | 0.27 |
| | Limited to non-motorized use (OHV-Closed) | 7.77 | 3.02 |
| VRM II | Open to all use (OHV-Open) | 1.01 | 0.34 |
| | Limited to non-motorized use (OHV-Closed) | 12.83 | 4.71 |

17 Overall, Alternative D’s potential for route use-related impacts noted above to the TMA’s visual resources
 18 would be lower than Alternative A but higher than the other action alternatives.

19 **3.2.8 Socioeconomics**

20 *How will the designated travel route network directly, indirectly, and cumulatively impact study area*
 21 *socioeconomic market and non-market conditions including recreation access, regional economic stability*
 22 *(including travel, tourism, and agriculture), social cohesion and user conflict, and environmental non-market*
 23 *indicators including sense-of-place, ecosystem services, and ecosystem resilience.*

24 **3.2.8.1 Affected Environment**

25 The project area is located or adjacent to Bannock, Bingham, Bonneville, Clark, Fremont, Jefferson, Madison,
 26 Power, and Teton counties, ID. It includes lands managed by the Bureau of Land Management (BLM), the
 27 United States Forest Service (USFS), the National Park Service (NPS), Native American Reservation land,
 28 State and private land. US interstate I-15 and State Highway 20 intersect the project area. Yellowstone and
 29 Grand Teton national parks are adjacent to the study area to the east. Population centers, including but not
 30 limited to, St. Anthony, Rexburg, Idaho Falls, Blackfoot, Pocatello, and American Falls, ID are in and
 31 proximal to the project area. These geographies provide the context for analyzing the potential socioeconomic
 32 impacts route designation changes may have within the project area.

1

2 Land Ownership

3 There are 7,872,131 total acres within the study area (Table 3.50:Land Ownership in the USFO East TMP
4 Socioeconomic Study Area in Acres (and % of total)). Of those, 3,351,279 acres (42.6 percent) are federally
5 owned lands. Fremont County, IA has the largest total (711,986 acres / 63.1 percent). The Bureau of Land
6 Management (BLM) manages 1,363,777 acres (17.3 percent) of the study area’s total land with Clark County,
7 ID (30.2 percent), Jefferson County, ID (27.6 percent), and Bingham County, ID (20.6 percent) containing the
8 largest BLM landholdings. There are 3,478,022 acres (44.2 percent) of the study area under private ownership.
9 Tribal lands include 507,891 acres (6.5 percent) of the total study area. The United States Forest Service
10 manages 1,648,530 acres in the study area (USGS 2018).

11

12 **Table 3-50:Land Ownership in the USFO East TMP Socioeconomic Study Area in Acres (and % of total)**

| | Bannock | Bingham | Bonneville | Clark | Fremont | Jefferson | Madison | Power | Teton |
|--------------------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|-------------------|--------------------|-------------------|
| Total Land | 734,746 | 1,356,948 | 1,216,186 | 1,129,025 | 1,213,553 | 707,657 | 302,926 | 922,963 | 288,127 |
| Federal Land (26.5%) | 194,977 (26.5%) | 347,248 (25.6%) | 599,593 (49.3%) | 711,986 (63.1%) | 714,221 (58.9%) | 350,412 (49.5%) | 59,981 (19.8%) | 277,156 (30.0%) | 95,705 (33.2%) |
| BLM (10.3%) | 75,432 (10.3%) | 278,909 (20.6%) | 94,021 (7.7%) | 341,186 (30.2%) | 150,616 (12.4%) | 195,211 (27.6%) | 17,501 (5.8%) | 203,279 (22.0%) | 7,622 (2.6%) |
| Tribal Land (15.8) | 116,264 (15.8) | 225,291 (16.6%) | 0 (0.0%) | 0 (0.0%) | 0 (0.0%) | 0 (0.0%) | 0 (0.0%) | 166,336 (18.0%) | 0 (0.0%) |

13

14 Population Demographics

15 In 2020 the total population of the study area was 363,244 people (19.9 percent of Idaho’s total population).
16 Study area population increased by 89,708 people (an increase of 32.8 percent) from 2000 to 2020. That
17 growth was not unilaterally experienced across the study area (Table 3.51:Population in USFO East TMP
18 Socioeconomic Study Area (and percent change from 2000-20)). By percentage, Teton County grew by 105.0
19 percent during that period. Conversely, Power County grew by 2.1 percent and Clark County declined by 16.8
20 percent. This is compared to the reference area over the same period which grew by 40.6 percent (USDC
21 2021).

22 **Table 3-51:Population in USFO East TMP Socioeconomic Study Area (and percent change from 2000-20)**

| | Bannock | Bingham | Bonneville | Clark | Fremont | Jefferson | Madison | Power | Teton |
|--------------------------------|----------------|----------------|-------------------|--------------|----------------|------------------|----------------|--------------|--------------|
| Pop. 2000 | 75,728 | 41,753 | 82,968 | 1,024 | 11,769 | 19,193 | 27,519 | 7,484 | 6,098 |
| Pop. 2020 | 88,795 | 47,202 | 122,134 | 852 | 13,218 | 30,581 | 40,318 | 7,643 | 12,501 |
| Percent Change | + 17.3% | + 13.1% | + 47.2% | - 16.8% | + 12.3% | + 59.3% | + 46.5% | + 2.1% | +105% |
| 2020 % of Total SA Pop. | 24.4% | 13.0% | 33.6% | 0.2% | 3.6% | 8.4% | 11.1% | 2.1% | 3.4% |

23

24 Selected study area urban communities combine for 48.0 percent of the study area’s total population (Table
25 3.52: USFO East TMP Socioeconomic Study Area Urban Populations). Population in selected study area urban
26 areas display similar non-unilateral growth patterns; Rexburg, ID has grown 37.4 percent since 2010 whereas
27 Pocatello, ID has only grown by 4.9 percent (USDC 2022b).

1 **Table 3-52: USFO East TMP Socioeconomic Study Area Urban Populations**

| | St. Anthony, ID | American Falls, ID | Idaho Falls, ID | Blackfoot, ID | Pocatello, ID | Rexburg, ID |
|--------------------------------|-----------------|--------------------|-----------------|---------------|---------------|-------------|
| Pop. 2010 | 3,541 | 4,315 | 55,653 | 11,524 | 53,258 | 24,513 |
| Pop. 2021 | 3,677 | 4,531 | 64,399 | 12,106 | 55,865 | 33,684 |
| Percent Change | + 3.8% | + 5.0% | + 15.7% | +5.1% | +4.9% | +37.4% |
| 2021 % of Total SA Pop. | 1.0% | 1.2% | 17.7% | 3.3% | 15.4% | 9.3% |

2

3 Income, Wages, Employment, and Poverty

4 Study area per capita income in 2021 was \$46,495 (as measured in 2021 dollars) – an increase of 37.2 percent
 5 from 2000 to 2021. Over the same period in the study area, average earnings per job grew 15.6 percent. In
 6 2021 total study area non-labor income (retirement, interest and rent, annuities, disability etc.) accounted for
 7 39.7 percent of all income. This is compared to 42.2 percent in the reference area. The highest categories of
 8 non-labor income dividends, interest, and rent (16.0 percent of all income) and age-related transfer payments
 9 (10.6 percent of all income (USDC 2022a).

10 From 2010 to 2021, labor earnings increased across the study area by 45.3 percent - largely due to massive
 11 employment wage increases post the early 21 Century global recession. The average annual wage for all
 12 reported jobs in the study area was \$41,767 in 2021 dollars compared to \$50,744 for all reported jobs in the
 13 reference area. The highest paying industries in the study area, on average, were those involved with the
 14 federal government (\$77,755, accounting for 1.2 percent of total employment), financial activities (\$58,342,
 15 accounting for 3.7 percent of total employment), and professional and business services (\$52,716, accounting
 16 for 11.2 percent of total employment). The lowest paying industries in the study area, on average, were leisure
 17 and hospitality (\$17,578, accounting for 10.7 percent of total employment), agriculture (\$39,784, accounting
 18 for 2.7 percent of total employment), and trade, transportation, and utilities (\$39,843, accounting for 20.3
 19 percent of total employment) (USDC 2022a).

20 The total number of full- and part-time study area jobs (as defined by the U.S. Department of Commerce) in
 21 2021 was 213,500 (Table CCC). This represents an increase of 62,383 employed persons (41.3 percent
 22 growth) from 2000 to 2021 – which is significantly higher than population growth over that period (USDC
 23 2022a).

24 Of workers aged 16 to 64, 128,429 people (56.1 percent) worked 50 – 52 weeks per year and 129,429 people
 25 (56.4 percent) worked 35 or more hours per week. Both can be used as proxies to understand rates of full-time
 26 employment. Moreover, counties that display significant differences between “Weeks Worked per Year” and
 27 “Hours Worked per Week” can offer greater understanding of the role of hourly and potentially temporary
 28 employment – often associated with outdoor recreation and tourism. Teton County, for example, displays
 29 significantly more workers that averaged greater than or equal to 35 hours per week than those that worked 50
 30 to 52 weeks per year. That may be an indication of seasonal and temporary employment; when workers
 31 worked, they did so at full-time hours but perhaps fewer worked in the area throughout the year. In the study
 32 area 44,641 people (19.5 percent) did not work. Compared to the reference area (Table BBB), fewer people are
 33 employed full-time in the study area (USDC 2022b).

34

1 **Table 3-53: Employment Rates by County (and percent)**

| | Bannock | Bingham | Bonneville | Clark | Fremont | Jefferson | Madison | Power | Teton |
|-------------------------------------|-------------------|-------------------|-------------------|----------------|------------------|-------------------|-------------------|------------------|------------------|
| Pop. Aged 16 to 64, 2021 | 54,186 | 28,063 | 72,577 | 553 | 8,179 | 17,926 | 35,457 | 4,510 | 7,616 |
| Work 50 to 52 Weeks per Year | 31,086 (57.4%) | 16,281 (58.0%) | 43,157 (59.5%) | 301 (54.4%) | 4,299 (52.6%) | 10,505 (58.6%) | 15,513 (43.8%) | 2,688 (59.6%) | 4,599 (60.4%) |
| Work >= 35 Hours per Week | 29,565 (54.6%) | 16,404 (58.5%) | 42,796 (59.0%) | 392 (70.9%) | 4,609 (56.4%) | 10,496 (58.6%) | 16,159 (45.6%) | 3,106 (68.9%) | 5,563 (73.0%) |
| Did Not Work | 11,413 (21.1%) | 6,265 (22.3%) | 14,252 (19.6%) | 74 (13.4%) | 2,115 (25.9%) | 3,244 (18.1%) | 5,466 (15.4%) | 725 (16.1%) | 1,087 (14.3%) |

2

3 In 2021, 40,723 study area jobs (19.1 percent) were in non-services related sectors (Table CCC) compared to
 4 19.7 percent in the reference area. By percentage, Power County, ID is the largest contributor to this statistic
 5 (48.5 percent). Within the non-service sector construction (15,977 jobs, 7.5 percent of total jobs) and
 6 manufacturing (13,705 jobs, 6.5 percent of total jobs) were the largest employers. There were an estimated
 7 146,000 jobs (68.4 percent) in service-related employment sectors compared to 68.3 percent in the reference
 8 area. Within the service sector, health care and social assistance (25,283 jobs, 11.8 percent of total jobs) and
 9 retail trade (24,236 jobs, 11.4 percent of total jobs) were the largest employers. Additionally, there were
 10 26,263 jobs (12.3 percent) in the government sector compared to 12 percent in the reference area. Since 2010,
 11 jobs in non-service sector industries grew by 25.2 percent and jobs in service sector industries grew by 29.4
 12 percent (USDC 2022a).

13 **Table 3-54:USFO East TMP Joby by Industry (percent of total jobs)**

| | Bannock | Bingham | Bonneville | Clark | Fremont | Jefferson | Madison | Power | Teton |
|--------------------------------------|-------------------|-------------------|-------------------|---------------|-----------------|------------------|-------------------|-----------------|-----------------|
| Total Jobs 2021 | 49,637 (23.2%) | 23,118 (10.9%) | 80,803 (37.8%) | 502 (0.2%) | 6,555 (3.1%) | 13,444 (6.3%) | 26,790 (12.5%) | 4,893 (2.3%) | 7,758 (3.6%) |
| Total Jobs 2001 | 43,013 (28.7%) | 19,910 (13.3%) | 49,711 (33.2%) | 786 (0.5%) | 4,685 (3.1%) | 8,118 (5.4%) | 15,700 (10.5%) | 4,936 (3.3%) | 2,997 (2.0%) |
| Total Jobs Change | +6,624 | +3,208 | +31,092 | -284 | +1,870 | +5,326 | +11,090 | -43 | +4,761 |
| Share, SA Total Job Change | -5.5% | -2.4% | +4.6% | -0.3% | 0.0% | +0.9% | +2.0% | -1.0% | +1.6% |
| Total Non-Service Jobs 2021 | 6,770 (3.2%) | 7,035 (3.3%) | 12,380 (5.8%) | 219 (0.1%) | 1,749 (0.8%) | 4,587 (2.1%) | 3,574 (1.7%) | 2,372 (1.1%) | 2,037 (1.0%) |
| Total Non-Service Jobs 2001 | 6,800 (4.5%) | 6,902 (4.6%) | 8,457 (5.6%) | 291 (0.2%) | 1,278 (0.9%) | 3,430 (2.3%) | 2,851 (1.9%) | 2,825 (1.9%) | 864 (0.6%) |
| Total Non-Service Change | -30 | +133 | +3,923 | -72 | +471 | +1,157 | +723 | -453 | +1,173 |
| Share, SA Non-Ser. Job Change | -1.3% | -1.3% | +0.2% | -0.1% | -0.1% | -0.2% | -0.2% | -0.8% | +0.4% |
| Total Service Jobs 2021 | 34,294 (16.1%) | 11,866 (5.6%) | 61,538 (28.8%) | 143 (0.1%) | 3,531 (1.7%) | 7,444 (3.5%) | 20,109 (9.4%) | 1,844 (0.9%) | 5,231 (2.5%) |

| | | | | | | | | | |
|-------------------------------------|-------------------|-----------------|-------------------|---------------|-----------------|-----------------|------------------|-----------------|-----------------|
| Total Service Jobs 2001 | 27,040 (18.4%) | 9,050 (6.0%) | 35,568 (23.7%) | 212 (0.1%) | 2,104 (1.4%) | 3,274 (2.2%) | 11,562 (7.7%) | 1,843 (1.2%) | 1,542 (1.0%) |
| Total Service Change | +7,254 | +2,816 | +25,970 | -69 | +1,427 | +4,170 | +8,547 | +1 | +3,689 |
| Share, SA Service Job Change | -2.3% | -0.4% | +5.1% | 0.0 | +0.3% | +1.3% | +1.7% | -0.3% | +1.5% |

1

2 Understanding travel and tourism data can aid TMP analysis. In 2021, 13.6 percent of jobs were in travel and
3 tourism sectors – which include retail trade, passenger transportation (including sightseeing), recreation and
4 entertainment (including gambling), and accommodations and food economic sub-sectors. Bonneville (7,907
5 jobs, 13.8 percent of jobs in county) and Bannock (5,018 jobs, 14.4 percent of jobs in county) counties were
6 the largest contributors to the travel and tourism sector (Table 3.55:Travel and Tourism Sector Jobs (and
7 percent of jobs in the county)). There is geographic variation in travel and tourism jobs across the study area.
8 Nearly a quarter of Teton County jobs are in travel and tourism thanks in part to its proximity to Yellowstone
9 and Grand Teton national parks. Meanwhile, only 3.8 percent of jobs in rural and non-service economy
10 dominated Clark County are in travel and tourism (USDL 2022).

11 **Table 3-55:Travel and Tourism Sector Jobs (and percent of jobs in the county)**

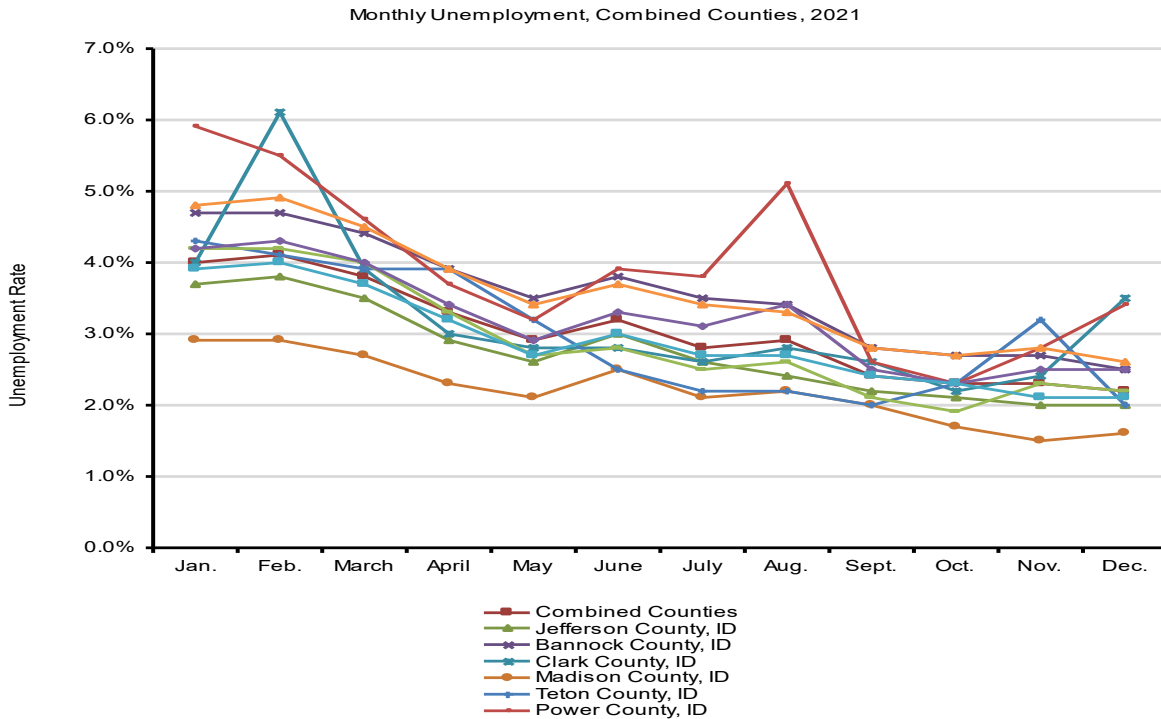
| | Bannock | Bingha m | Bonneville | Clark | Fremont | Jefferson | Madison | Power | Teton |
|-------------------------------------|------------------|---------------------|-------------------|--------------|----------------|------------------|------------------|---------------|----------------|
| Travel and Tourism Jobs 2021 | 5,018 (14.4%) | 1,947 (12.8%) | 7,907 (13.8%) | 9 (3.8%) | 539 (16.4%) | 753 (9.9%) | 2,100 (12.4%) | 196 (5.6%) | 929 (23.5%) |
| Retail | 830 (2.4%) | 295 (1.9%) | 1,284 (2.2%) | 4 (1.7%) | 87 (2.6%) | 180 (2.4%) | 311 (1.8%) | 29 (0.8%) | 99 (2.5%) |
| Passenger Transport. | 36 (0.1%) | 0 (0.0%) | 26 (0.0%) | 0 (0.0%) | 1 (0.0%) | 20 (0.3%) | 0 (0.0%) | 0 (0.0%) | 5 (0.1%) |
| Recreation and Enter. | 514 (1.5%) | 603 (4.0%) | 607 (1.1%) | 0 (0.0%) | 8 (0.2%) | 137 (1.8%) | 175 (1.0%) | 26 (0.7%) | 250 (6.3%) |
| Accom. and Food | 3,638 (10.4%) | 1,049 (6.9%) | 5,990 (10.5%) | 5 (2.1%) | 443 (13.5%) | 416 (5.4%) | 1,614 (9.5%) | 141 (4.0%) | 575 (14.5%) |

12

13 Recreation and livestock grazing offer the greatest economic contribution on the BLM’s USFO land. In FY
14 2021, authorized recreation and grazing contributed approximately \$188,200,000 to Idaho’s economy. This
15 output includes both direct employment and economic output (defined as economic activity directly
16 attributable to the resource use in question, such as the money spent by visitors or the value of cattle pairs
17 raised) and indirect effects (defined as economic ripple effects as money earned and spent as a direct effect
18 ripples throughout the economy and provides other economic opportunities). This total economic impact
19 represents 99.7 percent of all income generated on the BLM’s USFO lands in FY 2021 (BLM SE 2022).

20 In 2021 the average annual study area unemployment rate was 3.0. This represents a 4.1 percent decrease in
21 average annual study area unemployment rate between 2010 and 2021 – again a result of growth coming out of
22 the 2010s recession. There is a seasonality to unemployment in the study area with highest unemployment
23 coming in the winter months (**Figure 3.49**). Power County is the outlier – in 2021 Power County experienced a
24 significant unemployment spike in the summer months that did not occur in other study area counties (USDC
25 2022a).

26



1
2 **Figure 3-49: Unemployment Seasonality by County**

3 3.2.8.2 Environmental Effects
4 **Direct or Indirect Effects Common to All Alternatives**

5 The study area is comprised of nine counties in and around Idaho’s eastern border, US interstate I-15 and State
6 Highway 20. Over 40 percent of the study area is owned and managed by federal agencies and federal land
7 ownership is especially high Bonneville, Clark, and Fremont counties. As such, BLM and federal management
8 decision may have a relatively larger effect on socioeconomic conditions, recreation activity, local community
9 quality of life and sense of place, and resource use. Local governments may also rely heavily on federal land
10 payments, taxes, and direct and indirect revenues generated from activities on public lands.

11 The project area intersects several communities of varying sizes and is home to nearly 20 percent of Idaho’s
12 total population. Long-term, steady population growth is generally an indication of a healthy economy and a
13 positive community sense-of-place. Most of the communities in the study area are showing signs of population
14 growth. The region is home to many communities that prize outdoor recreation and open space; population
15 growth can encroach on those important contributors to sense-of-place, economy, and ecological health. Teton
16 County (Driggs and adjacent to Yellowstone and Grand Teton national parks), Bonneville County (Idaho Falls
17 and surrounding communities), Jefferson County, and Madison County (Rexburg) exhibit the largest
18 percentage population growth in the study area and potential action and alternative impacts should be
19 examined through the lens of population growth.

20 The study area exhibits strong economic growth since the Great Recession, though wages are generally lower
21 than the State of Idaho and other Great Basin states. Some counties in the study area display strong ties
22 towards outdoor recreation-based travel and tourism economies, though it must be stated that these jobs are
23 among the lowest-paying jobs in the State of Idaho. Unemployment and poverty are higher than the reference
24 area in several counties, though it appears that poverty rates are trending in a positive direction.

25

1 Recreation will continue to be a primary social and economic driver in the USFO East TMP study area and
2 TMP management actions will impact recreation opportunities and the ecological integrity of the study area.
3 Access and use pressures will continue to grow alongside population and with nationwide demands for unique
4 outdoor recreation experiences. Associated increased user conflicts, route and habitat degradation, and
5 unregulated disturbance has the potential to impact regional market and non-market socioeconomic conditions.

6 **Impact Indicators**

7 Socioeconomic impact indicators for the USFO East TMP include access to the broad suite of leisure and
8 recreation activities, recreation employment, regional economic stability (including travel, tourism, and
9 agriculture), social cohesion and user conflict, and environmental non-market indicators including sense-of-
10 place, ecosystem services, and ecosystem resilience.

11 **Alternative A (Current Management)**

12 The current USFO East TMP covers approximately 761.1 route miles. Of these routes, 76.0 percent are
13 designated “Open Routes” and open to all use, 2.4 percent are designated “Limited” and access is restricted
14 depending on vehicle type, authorization, and / or season, 8.7 percent open to non-motorized use, and 12.9
15 percent of routes are closed to all unauthorized use.

16 Alternative A offers the widest range of access opportunities for users and no travel management changes
17 intended to sustain or enhance environmental or cultural resources in the USFO East Project Area are expected
18 to occur. As study area population continues to grow alongside demand for outdoor recreation opportunities,
19 adverse impacts to natural resources and social cohesion (through user conflict) is expected to increase.
20 Subsequent effects will result in ecosystem degradation, negative place perceptions, and adverse market and
21 non-market socioeconomic impacts from diminishing travel and tourism. Unmitigated resource degradation
22 could eventually result in devastating non-market value losses with subsequent reductions in recreational
23 activities (hunting, shed gathering, and hiking to name several) associated with those values.

24 **Alternative B (Natural Resource Emphasis)**

25 Compared to Alternative A, Alternative B offers a significant reduction to TMA public access. Under
26 Alternative B, the BLM would designate 24.7 percent of routes as open (a 51.2 percent reduction from
27 Alternative A), 2.9 percent of routes as limited (a 0.06 percent increase from Alternative A), 6.6 percent of
28 routes as non-motorized (a 2.1 percent reduction from Alternative A), and 65.7 percent of routes as closed to
29 unauthorized use (a 52.8 percent increase from Alternative A).

30 Alternative B offers the strongest support for natural resource protection and supports TMA non-market
31 ecosystem services. However, as detailed previously Alternative B significantly reduces access to many
32 recreational activities enjoyed by study area residents and destination tourists. Alternative B has the potential
33 to negatively impact study area economies without necessarily reducing user conflict; the significant
34 reductions offered in Alternative B are likely to concentrate users on the remaining open routes.

35 **Alternative C (Multiple Use Emphasis)**

36 Alternative C reduces route-miles from Alternative A but offers route-mile increases from Alternative B.
37 Under Alternative C, the BLM would designate 32.5 percent of routes as open (a 43.5 percent reduction from
38 Alternative A and a 7.8 percent increase from Alternative B), 4.7 percent of routes as limited (a 2.4 percent
39 increase from Alternative A and a 1.8 percent increase from Alternative B), 11.8 percent of routes as non-
40 motorized (a 3.0 percent increase from Alternative A and a 5.1 percent increase from Alternative B), and 51.1
41 percent of routes as closed to unauthorized use (a 38.1 percent increase from Alternative A and a 14.7 percent
42 decrease from Alternative B).

1 Alternative C offers significant route reductions from Alternative A but increases open, limited, and non-
 2 motorized access in comparison to Alternative B. As such, this alternative would provide greater opportunities
 3 for multiple recreation uses and has a higher likelihood to reduce user conflicts than alternatives A and B.
 4 Therefore, Alternative C offers greater opportunities for more diverse recreation experiences from alternatives
 5 A and B and there is likely to be a socioeconomic ripple as in study area communities. Moreover, Alternative
 6 C supports access by a diversity of users and may provide beneficial access to study area low-income
 7 environmental justice communities. Open route reductions and increased limited and non-motorized access
 8 should support wildlife habitat and decrease environmental degradation thereby supporting non-market
 9 ecosystem services and study area sense of place. However, route reductions could still concentrate OHV and
 10 other motorized users in the remaining open routes.

11 **Alternative D (Access Emphasis)**

12 Alternative D continues route-mile reductions from Alternative A but offers a more balanced array of user
 13 access options than alternatives A-C. Under Alternative D, the BLM would designate 47.6 percent of routes as
 14 open (a 28.4 percent reduction from Alternative A, a 22.8 percent increase from Alternative B, and a 15.1
 15 percent increase from Alternative C), 7.5 percent of routes as limited (a 5.2 percent increase from Alternative
 16 A, a 4.6 percent increase from Alternative B, and a 2.8 percent increase from Alternative C), 11.7 percent of
 17 routes as non-motorized (a 2.8 percent increase from Alternative A, a 4.9 percent increase from Alternative B,
 18 and a 0.2 percent reduction from Alternative C), and 33.4 percent of routes as closed to unauthorized use (a
 19 20.5 percent increase from Alternative A, a 32.3 percent reduction from Alternative B, and a 17.6 percent
 20 reduction from Alternative C).

21 Alternative D proposes the highest potential for distributive access across the TMA. Alternative D offers
 22 significant open and limited access increases over alternatives B and C and effectively maintains non-
 23 motorized access from Alternative C. This attempt at distribution is likely to decrease user conflicts while
 24 maintaining primary access to key recreation destinations. From a socioeconomic perspective, Alternative D
 25 offers the greatest opportunity to support the array of market and non-market socioeconomic conditions
 26 analyzed in this document.

27 **3.2.9 Cumulative Effects for Issue 1**

28 The cumulative impact analysis area (CIAA) used to analyze cumulative impacts for several of the resource
 29 topics analyzed in section 3.2 under Issue 1 consists of the entire TMA. These topics and other Issue 1 resource
 30 topics for which the CIAA is contained within, or extends beyond the TMA, are presented below in Table
 31 3.56.

32 **Table 3-56: Cumulative Impact Analysis Area and Past, Present, or Reasonably Foreseeable Actions, Plans,**
 33 **or Projects for Issue 1**

| Resource | Cumulative Impact Analysis Area |
|---|---|
| <ul style="list-style-type: none"> • Soils • Vegetation • Invasive Species/Noxious Weeds | The entire TMA |
| Aquatic Resources | The HUC10 watersheds within the TMA |
| Wildlife | The entire range of wildlife species within and adjacent to the TMA |
| Cultural | The entire TMA |
| Henry’s Lake ACEC | The boundaries of the ACEC |
| Game Creek RNA | The boundaries of the RNA |
| Snake River ACEC | The boundaries of the ACEC |
| Visual Resources | The entire TMA |

34

| | Past, present, or reasonably foreseeable actions, plans, or projects affecting resources analyzed under Issue 1 |
|---------------------|--|
| 1973 | Endangered Species Act |
| 1985 | Medicine Lodge RMP |
| 1993 | Revised Grizzly Bear Recovery Plan |
| 1997 | Idaho Standards for Rangeland Health and Guidelines for Livestock Grazing Management |
| 2008 | Birds of Conservation Concern effort |
| 2015 | 2015 Idaho and Southwestern Montana Greater Sage-Grouse Approved Resource Management Plan Amendment |
| 2016 | Upper Snake River Basin Habitat Conservation and Restoration Project |
| 2017 | Idaho State Wildlife Action Plan |
| 2018 | Grizzly Bear Recovery Plan Supplement: Habitat-Based Recovery Criteria |
| Ongoing/Anticipated | <ul style="list-style-type: none"> • Construction of new motorized and non-motorized routes • Invasive species/noxious weed treatment • Grazing permits • Range improvements • Rights-of-ways <p>Increased recreation use</p> |

1 All of the actions, plans, and projects in Table 3.50 contribute to impacts on the listed resources. Several, such
2 as the management, conservation, and recovery/restoration plans, provide for beneficial protections to the
3 listed resources and habitats. Development projects and actions, including those that are recreation-based, have
4 had short-term surface-disturbing incremental impacts during development; however, once completed with
5 stabilization measures in place, these projects have helped to better manage and mitigate user impacts to the
6 TMA. All of the travel management network action alternatives in this TMP are proposing new surface-
7 disturbing route construction which would add to the past, present or foreseeable future actions noted above;
8 however, once these new linear disturbances are stabilized, overall incremental effects would be very minor.
9 All the action alternatives propose improved management and operation of an OHV travel network.
10 Alternative B has the highest potential to reduce cumulative impacts to these resources in the CIAA through
11 route closures and implementation measures that would provide structured management and operation of the
12 travel route system. Alternatives C and D, with fewer route closures but the same route system management
13 and operation as Alternative B, would result in correspondingly lower potential to reduce cumulative impacts
14 than Alternative B, while Alternative A would not reduce cumulative impacts to these resources within the
15 CIAA.

16 **3.3 Issue 2: Providing for recreation opportunities and experiences while**
17 **minimizing conflicts between recreation users and authorized users.**

18 **3.3.1 Recreation**

19 *How would the designated travel route network impact recreation opportunities and experiences?*

20 **3.3.1.1 Affected Environment**

21 Regional, national, and international visitors seek out the USFO area because of the abundance of recreation
22 opportunities and settings. The USFO gets over a million visitors each year. Some of the typical recreational
East Travel Management Plan Environmental Assessment

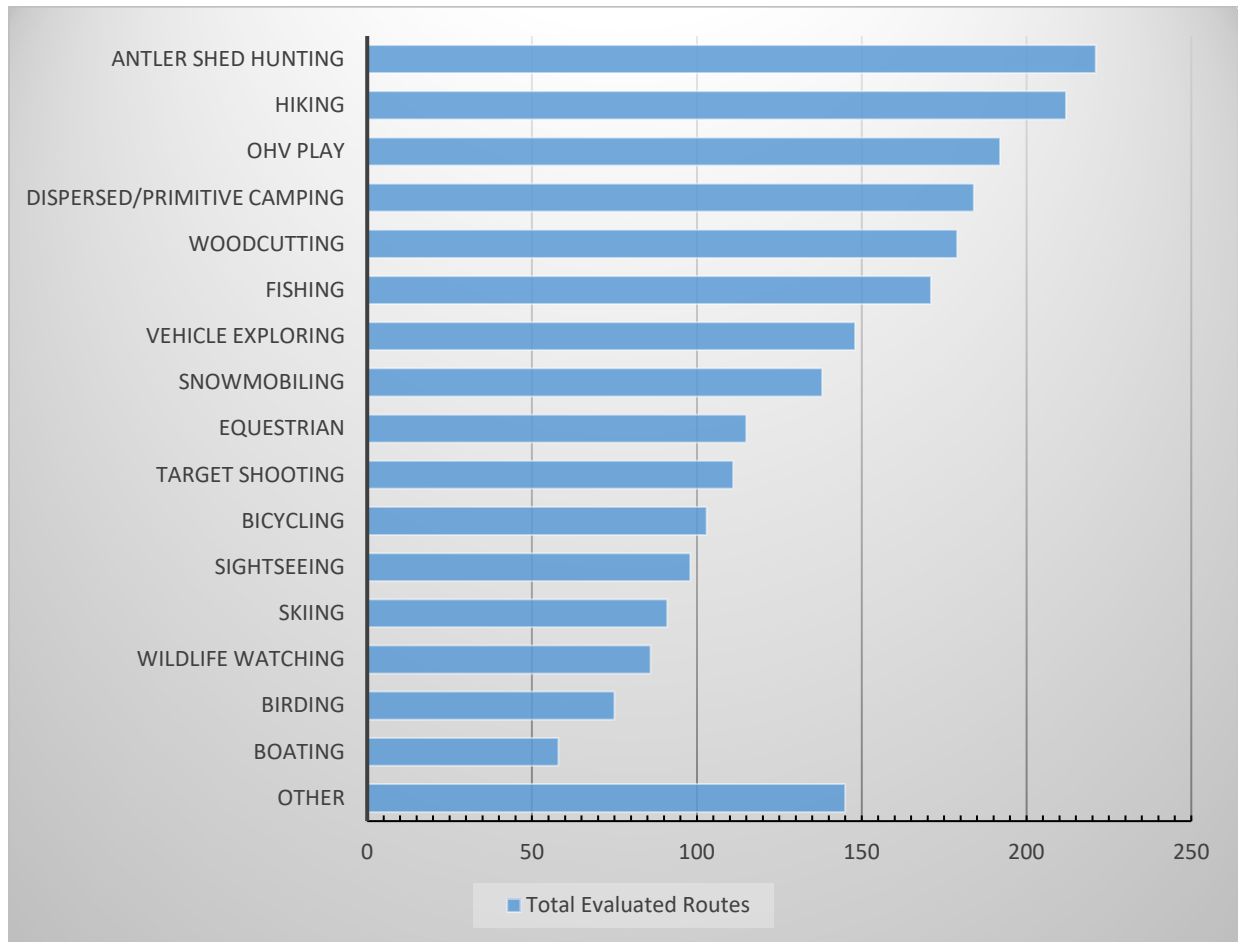
1 activities within the TMA portion of the FO include, but are not limited to, boating and river-based recreation,
2 camping, geocaching, hiking, horseback riding, mountain biking, hunting, photography, wildlife observation,
3 and OHV use. Recreation use in the TMA is expected to continue to increase in the future.

4 Motorized and non-motorized recreation on established routes is a key component of TMA recreation overall.
5 Although the BLM manual 1626 and H-8342 handbook direct that travel management plans be comprehensive
6 (i.e., consider access needs for all uses, including authorized and administrative), recreation has been the
7 primary driver of, and has the biggest effects on, travel and transportation management. Motorized recreation
8 use on BLM public lands has grown exponentially since the 1970s and 1980s when Presidents Nixon and
9 Carter recognized the need to designate travel routes and accordingly issued Executive Orders 11644 (1972)
10 and 11989 (1977) to manage off-road vehicle use on public lands.

11 Figure 3.50, below, shows the number of evaluated travel routes associated with specific recreation activities.
12 Table 3.51, below, shows the number of evaluated routes associated with various recreation destinations. Many
13 routes are associated with more than one recreation activity or destination.

14

1 **Figure 3-50: Number of Evaluated Routes Providing Access for TMA Recreation Opportunities⁶**



2
3
4

Note: For a breakdown of “Other” recreation activities in the TMA, see Appendix C.

⁶ Approximately 700 of the TMA’s evaluated routes (95% of the evaluated network) provide hunting access; hunting was not included in this chart because the high number would make the scale more difficult to read.

1 **Table 3-57: Number of Evaluated Routes Currently Providing Primary Access for Recreation Destinations**

| Recreation Destination | Number of Evaluated Routes |
|--------------------------|----------------------------|
| Day Use Area | 24 |
| Developed Parking Area | 18 |
| Undeveloped Campground | 15 |
| Bathroom | 13 |
| Developed Boat Ramp | 12 |
| Interpretive Site | 12 |
| Undeveloped Boat Ramp | 11 |
| Undeveloped Parking Area | 11 |
| Information Kiosk | 11 |
| Staging Area | 8 |
| Picnic Area | 8 |
| Developed Campground | 7 |
| Developed Trailhead | 7 |
| Vista | 3 |
| Fire Pit | 3 |
| Undeveloped Trailhead | 2 |
| Visitor Center | 2 |

2 Additionally, most of the Snake River SRMA is within the TMA. The SRMA, which was designated in the
 3 1985 Medicine Lodge RMP, comprises the South Fork of the Snake River (Palisades Dam to the confluence
 4 with the Henry’s Fork), Henry’s Fork of the Snake River (St. Anthony to the confluence with the South Fork),
 5 and a portion of the main stem of the Snake River (confluence of the South Fork and Henry’s Fork to
 6 Lewisville Knolls). The SRMA offers unique experiences for a range of recreation activities such as fishing,
 7 boating, developed and undeveloped camping, hiking, hunting, mountain biking, vehicle exploring, and bird
 8 watching. Routes within the SRMA access numerous recreation facilities including boat access points,
 9 trailheads, and campsites and campgrounds. A total of 150.4 miles of evaluated routes provide access to and
 10 within the SRMA.

11 **3.3.1.2 Environmental Effects**

12 *3.3.1.2.1 Direct or Indirect Effects Common to All Alternatives*

13 Direct effects that travel networks and their use have on recreation include direct loss of or added gains in
 14 access for desired recreation opportunities and experiences. Recreation access can also result in direct
 15 encounters or conflicts with other users seeking different experiences (e.g., equestrian users on open OHV
 16 routes encountering dirt bike users). Indirect impacts or effects include the actual gain or loss of the
 17 opportunities and experiences available on the public lands.

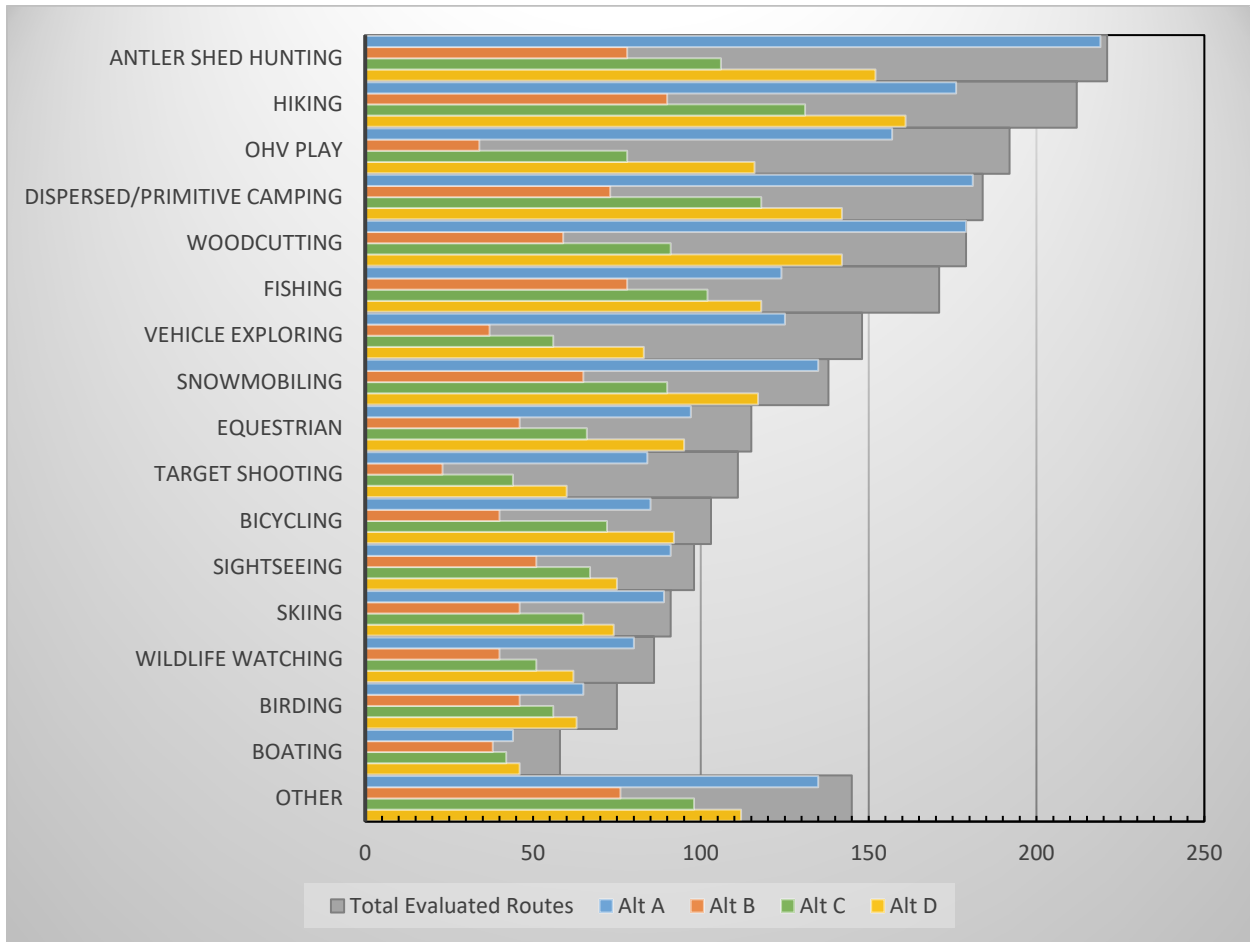
18 It is highly likely that recreation visitor numbers in the TMA would continue to increase in the future. A travel
 19 route network that provides for a wide variety of structured motorized and non-motorized opportunities and
 20 experiences is more apt to reduce user inclination to travel off-route. This can provide for increased user-
 21 compliance with route designations which helps to minimize OHV use-related damage to unique and sensitive
 22 natural and cultural resources. A travel network that closes and reclaims more routes to year-round OHV use
 23 would provide for higher quality recreation experiences for non-motorized users than a network that designates
 24 more routes as open to OHV use.

1 TMP implementation actions could affect recreation access and experiences. Road maintenance that involves
 2 ground-disturbing activities can temporarily block OHV access to recreation opportunities. However,
 3 maintenance actions would likely also enhance access and safety for recreation experiences, while helping to
 4 control and mitigate road prism drainage and rilling or rutting caused by OHV use during seasonal wet periods.
 5 Decommissioning and reclamation of closed roads could adversely affect access to some recreation
 6 opportunities, while installation along designated OHV routes would benefit users by directing them to
 7 destinations more easily.

8 *3.3.1.2.2 Impact Indicators*

9 Indicators of potential travel route designation impacts on recreation opportunities include the number of
 10 routes providing access for those opportunities and activities. Figure 3.51 – Figure 3.54, below, show the
 11 number or miles of evaluated routes in each alternative network that provide access for the various recreation
 12 opportunities and activities available within the TMA to compare the action alternatives (B-D) to the baseline,
 13 Alternative A. More detailed data tables may be found in Appendix C.

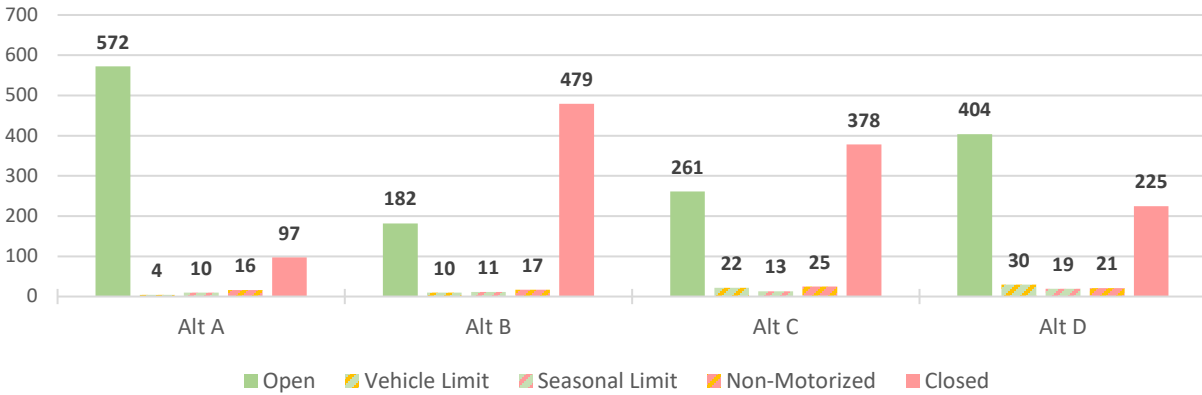
14 **Figure 3-51: Number of Evaluated Routes by Alternative Providing Access for Recreation Opportunities⁷**



15
 16 Note: For a breakdown of “Other” recreation activities in the TMA, see Appendix C.

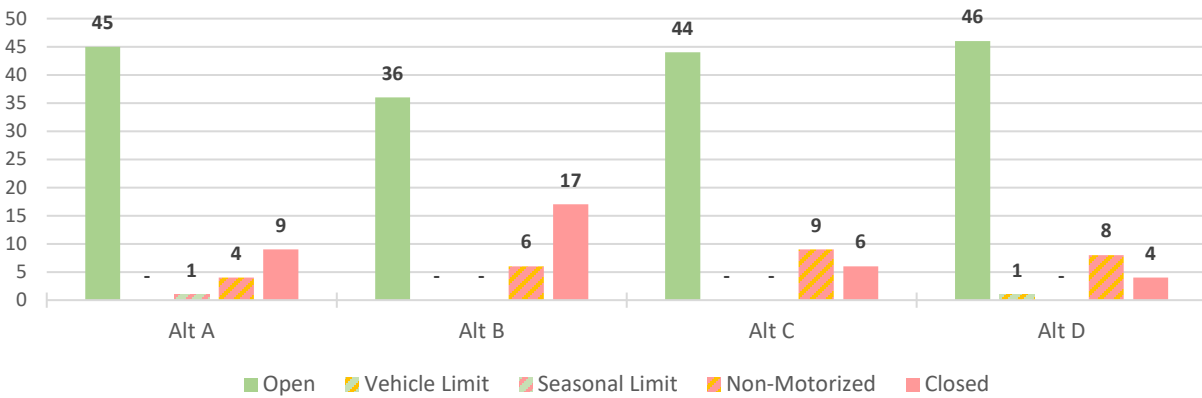
⁷ See below for a figure showing the number of evaluated routes by alternative providing access for hunting opportunities.

1 **Figure 3-52: Number of Evaluated Routes Providing Access to Hunting Opportunities**



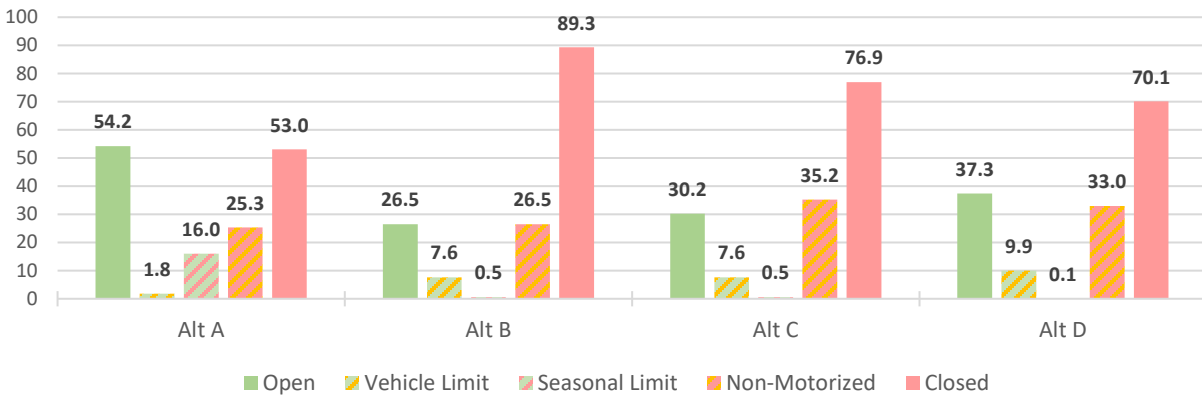
2

3 **Figure 3-53: Number of Evaluated Routes Providing Primary Access to Recreation Destinations**



4

5 **Figure 3-54: Miles of Evaluated Routes Accessing the Snake River SRMA**



6

7 **3.3.1.2.3 Alternative A (Current Management)**

8 Most of the 1,147 evaluated routes in the TMA provide access for a variety of recreation activities. Of the
 9 evaluated routes in the TMA, 77% are currently available for OHV use, 6% are limited to non-motorized use,
 10 and the rest are limited to authorized users only or closed. Of the 59 routes accessing recreation destinations,
 11 78% are available for OHV use, 7% are limited to non-motorized use, and the rest are limited to authorized

1 users only or closed. Of the 150.4 miles of evaluated routes accessing the Snake River SRMA, 48% would
2 remain available for OHV use, 17% would remain limited to non-motorized use, and the rest would remain
3 limited to authorized use only or closed.

4 The direct and indirect effects described above from current management and maintenance of the routes would
5 continue to occur on those routes designated as open or limited. Alternative A provides the most public access
6 for a variety of recreation opportunities of any of the alternative networks. However, Alternative A also has the
7 most potential for continued conflicts between recreation users and authorized users, and between motorized
8 and non-motorized recreation users. It also has the highest potential for perpetuating route-finding confusion—
9 disappointing user experiences—and route proliferation.

10 3.3.1.2.4 *Alternative B (Natural Resource Emphasis)*

11 Compared to Alternative A, the Alternative B travel network would result in large reductions in public access
12 within the TMA overall, including a reduction of 73% in routes designated for OHV use and a reduction of
13 36% in routes designated for non-motorized use. Alternative B would see reductions in motorized and non-
14 motorized access for the TMA's most popular recreation activities of hunting (63%), antler shed hunting
15 (64%), hiking (49%), OHV play (81%), and dispersed camping (60%). Other activities would see similar
16 reductions in access. Alternative B also proposes a 22% reduction in OHV routes that provide primary access
17 to recreation destinations, but a slight (2-route) increase in non-motorized routes providing primary access to
18 recreation destinations. Within the Snake River SRMA, Alternative B would designate 34.6 miles for OHV
19 use, a 52% reduction compared to Alternative A, and 26.5 miles for non-motorized use, a 5% increase.

20 In the TMA overall, Alternative B proposes the construction of 0.1 miles of new primitive road that would be
21 available for OHV use, and 2.7 miles of new non-motorized single-track trail. Alternative B does not propose
22 any new routes for construction within the Snake River SRMA.

23 Overall, Alternative B would substantially reduce public motorized access compared to Alternative A but
24 would also reduce route-finding confusion and route proliferation while retaining some access to the various
25 recreation opportunities throughout the TMA and Snake River SRMA. However, the reduction in routes
26 available for public motorized use could also concentrate OHV users on the remaining open routes.

27 3.3.1.2.5 *Alternative C (Multiple Use Emphasis)*

28 Compared to Alternative A, the Alternative C travel network would result in reductions in public access within
29 the TMA overall, including a reduction of 61% in routes designated for OHV use; however, Alternative C
30 would see an increase of routes designated for non-motorized use of 14%, helping to reduce user conflicts.
31 More specifically, Alternative C would see reductions in motorized and non-motorized access for the TMA's
32 most popular recreation activities of hunting (47%), antler shed hunting (52%), hiking (26%), OHV play
33 (57%), and dispersed camping (35%). Other activities would see similar reductions in access. The seasonal
34 closures identified in Alternative C for Teton River, Pine Creek, Stinking Springs, Deer Parks, and Teton
35 Basin would result in 8,669 acre temporary reduction in recreational activities, such as skiing and hiking,
36 during the seasonal winter months. Alternative C also proposes a 9% reduction in OHV routes that provide
37 primary access to recreation destinations, but a 5-route increase in non-motorized routes providing primary
38 access to recreation destinations. Within the Snake River SRMA, Alternative C would designate 38.3 miles for
39 OHV use, a 47% reduction compared to Alternative A, and 35.2 miles for non-motorized use, a 39% increase.
40 This reduction in OHV access combined with the increase in non-motorized access would reduce user conflicts
41 within the SRMA.

42 In the TMA overall, Alternative C proposes construction of 0.6 miles of new primitive road that would be
43 available for OHV use, 0.3 miles of which would be located in the Snake River SRMA. This alternative also

1 proposes construction of 21.9 miles of new non-motorized single-track trail; of this, 0.7 miles would be located
2 in the Snake River SRMA.

3 Overall, Alternative C would substantially reduce public motorized access within the TMA as compared to
4 Alternative A, albeit to a lesser extent than Alternative B. The reduction in routes available for public
5 motorized use could also concentrate OHV users on the remaining open routes. The reduction in routes
6 available for public motorized access would also, however, help to reduce user conflicts (particularly in
7 combination with increased non-motorized designations), route-finding confusion, and route proliferation,
8 while retaining access to the various recreation opportunities throughout the TMA and Snake River SRMA.

9 3.3.1.2.6 *Alternative D (Access Emphasis)*

10 Compared to Alternative A, the Alternative D travel network would result in reductions in public access within
11 the TMA overall, including a reduction of 38% in routes designated for OHV use; however, Alternative D
12 would see an increase of routes designated for non-motorized use of 13%, and, like Alternative C, help to
13 reduce user conflicts. More specifically, Alternative D would see reductions in motorized and non-motorized
14 access for the TMA's most popular recreation activities of hunting (21%), antler shed hunting (31%), hiking
15 (9%), OHV play (26%), and dispersed camping (22%). Other activities would see similar reductions in access.
16 Alternative D also proposes a 4% reduction in OHV routes that provide primary access to recreation
17 destinations, but a 4-route increase in non-motorized routes providing primary access to recreation
18 destinations. Within the Snake River SRMA, Alternative D would designate 47.3 miles for OHV use, a 34%
19 reduction compared to Alternative A, and 33.0 miles for non-motorized use, a 30% increase. This reduction in
20 OHV access combined with the increase in non-motorized access would reduce user conflicts within the
21 SRMA.

22 In the TMA overall, Alternative D proposes construction of 1.7 miles of new primitive road that would be
23 available for OHV use, 0.3 miles of which would be located in the Snake River SRMA. This alternative also
24 proposes construction of 25.8 miles of new non-motorized single-track trail; of this, 0.7 miles would be located
25 in the Snake River SRMA.

26 Overall, Alternative D would reduce public motorized access within the TMA as compared to Alternative A,
27 reduce user conflicts (particularly in combination with increased non-motorized designations), route-finding
28 confusion, and route proliferation while retaining more access to the various recreation opportunities than
29 Alternatives B and C throughout the TMA and Snake River SRMA.

30 3.3.2 Authorized Uses (Minerals, ROWs, Livestock Grazing)

31 *How would the designated travel route network impact other authorized uses (e.g., livestock grazing,*
32 *geology/minerals, energy production, rights-of-ways)?*

33 3.3.2.1 Affected Environment

34 The TMA includes BLM public lands, private lands, state lands, USFS public lands, U.S. Bureau of
35 Reclamation (BOR) lands, Department of Energy (DOE) lands, and NPS lands. Route designation decisions
36 would not affect access for ROWs and other authorized uses, though they could result in conflicts between
37 recreation users and authorized uses such as livestock grazing and minerals operations.

38 Authorized and administrative uses and related access in the TMA include the following:

- 39 • Rights of Ways (ROWs) for water wells/tanks, powerlines, gas pipelines, substations, fiber optic lines,
40 wind power sites, telephone/communication sites, water pipelines, access to woodland products areas,
41 routes used to access leases, and access to utility corridors
- 42 • Primary or alternate access to administrative sites; range improvements such as fences, gates, etc.;
43 monitoring sites; cemeteries; resource treatments; fire suppression; etc.

- 1 • Developed wildlife water sites
- 2 • Mineral materials sites, active or inactive mines, mining claims, abandoned mine lands areas, and
- 3 closed mines
- 4 • Livestock grazing
- 5 • Special Recreation Permits (SRPs). These authorizations are covered in Section 3.3.1 Recreation and
- 6 Visitor Services.

7 Within the TMA, 21 routes provide access to mineral materials sites and 4 routes provide access to gravel pits.

8 Table 3.58, below, shows the number of routes providing primary access for ROWs within the
9 TMA.

10 **Table 3-58: Number of Evaluated Routes Providing Primary Access for ROWs**

| ROW | Number of Evaluated Routes |
|------------------------|----------------------------|
| Road | 138 |
| Utilities | 60 |
| Mineral Materials Site | 17 |
| Water Facilities | 12 |
| Trail | 11 |
| Powerline | 9 |
| Railroad | 4 |
| Levy | 3 |
| Pipeline | 3 |
| Communications Site | 2 |
| Non-Linear | 1 |

11 Rangeland conditions in the USFO have improved over time relative to historic conditions. Increased focus on
12 allotment assessments and evaluations associated with changes in grazing regulations (43 CFR 4180) and
13 approval of Idaho Standards for Rangeland Health and Guidelines for Livestock Grazing Management (BLM
14 1997) contributed to improved livestock grazing management. Drought and wildland fire will continue to
15 threaten rangeland health, but overall, the AUMs available for livestock grazing in the USFO should remain
16 stable (BLM 2009). Livestock permittees have operated within the TMA for decades. Many travel network
17 routes provide access to range improvement projects and facilities like troughs, pipelines, water tanks,
18 fencelines, and spring developments. These routes support and are essential to the management of livestock in
19 grazing allotments. Table 3.53 shows the number of evaluated routes accessing range improvements and
20 facilities.

21

1 **Table 3-59: Number of Evaluated Routes Providing Access to Grazing Allotments, Facilities, and**
 2 **Improvements**

| Range Allotment, Facility, or Improvement | Number of Evaluated Routes |
|---|----------------------------|
| Active Allotment | 440 |
| Allotment/Pasture Fence | 277 |
| Monitoring/Study Areas | 204 |
| Gate | 193 |
| Private Boundary Fence | 126 |
| Cattleguard | 34 |
| Tank/Trough | 34 |
| Corral | 18 |
| Well/Windmill | 15 |
| Water Storage Tanks | 11 |
| Developed Water | 10 |
| Water Haul Site | 9 |

| Range Allotment, Facility, or Improvement | Number of Evaluated Routes |
|---|----------------------------|
| Vacant Allotment | 9 |
| Exclosure Fence | 6 |
| Livestock pond | 5 |
| Spring Source | 5 |
| Boundary Fence | 3 |
| Salting area | 2 |
| Pond | 2 |
| Log/Gated Archway | 1 |
| Barrier Fences | 1 |
| Pipeline | 1 |
| Bedding Ground | 1 |

3 3.3.2.2 Environmental Effects

4 3.3.2.2.1 Direct or Indirect Effects Common to All Alternatives

5 TMP route designation decisions would not preclude access for ROW holders, mineral material, and livestock
 6 grazing operations. None of the route network alternatives would result in the loss or gain of access for these
 7 authorized uses, and even roads that are designated OHV closed (i.e., closed to public use) could remain
 8 available for authorized use. TMP effects (i.e., conflicts) on authorized uses discussed in this section are those
 9 that occur as a result of OHV recreation-related access—they include vandalism, disruption of operations, and
 10 trespass.

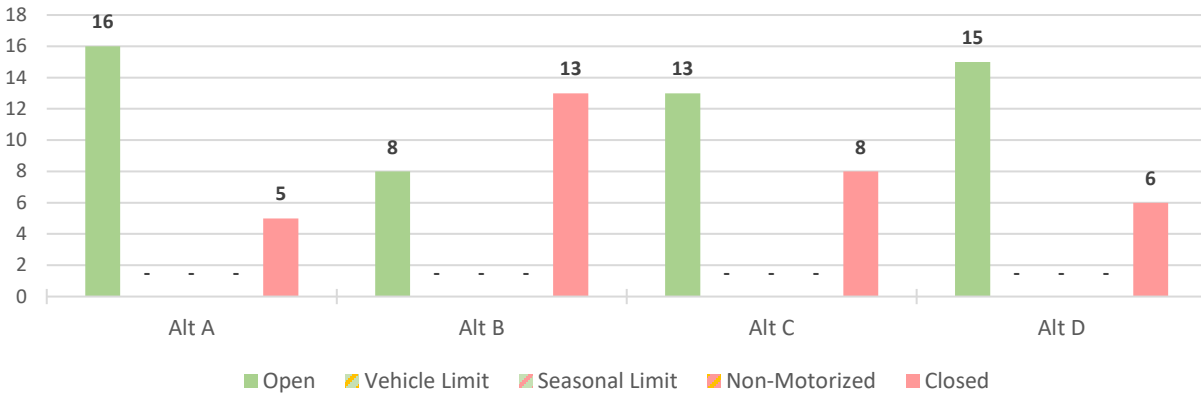
11 OHV use within the TMA can contribute to direct conflicts with livestock grazing operations (i.e., vandalism
 12 to facilities or improvements, open gates, OHV collisions with grazing animals, disturbance and displacement
 13 of grazing animals from OHV and recreation use, etc.). OHV use can also contribute to proliferation of
 14 invasive species and noxious weeds in rangelands via weed seeds transported onto rangelands on OHV vehicle
 15 undercarriages and tires. These invasive species and weeds can outcompete native vegetation for available
 16 nutrients and impair forage quality for grazing. For details on the networks' impacts on vegetation, see Section
 17 3.2. Moreover, potential indirect effects include lost time and revenue associated with repairs or replacement
 18 of range improvements or facilities, displacement of livestock and subsequent retrieval, etc.

19 TMP implementation activities that could affect authorized use include installing new signs, road maintenance
 20 such as grading, surfacing, installing water control structures, etc. Road maintenance may temporarily block
 21 access for an authorized use; however, maintenance actions would likely also enhance access for an authorized
 22 use. Sign installations would direct OHV users to their destinations and educate them on allowable uses for a
 23 particular route. If implementation is proposed that requires new surface disturbance, additional site specific
 24 NEPA could be required before the activity could occur. Route reclamation actions could include ripping the
 25 ground and planting seed, grading/recontouring, installing fencing or barriers, or mulching on permanently
 26 closed routes. Maintenance or reclamation actions could result in dusting of existing native vegetation or direct
 27 loss of native vegetation and forage. Surface disturbances associated with these activities could leave disturbed
 28 areas prone to germination and spread of invasive species and noxious weeds that would compete with native
 29 vegetation and livestock forage; however, in most cases maintenance and implementation related disturbances
 30 would be minor, localized, and short-term.

1 3.3.2.2.2 Impact Indicators

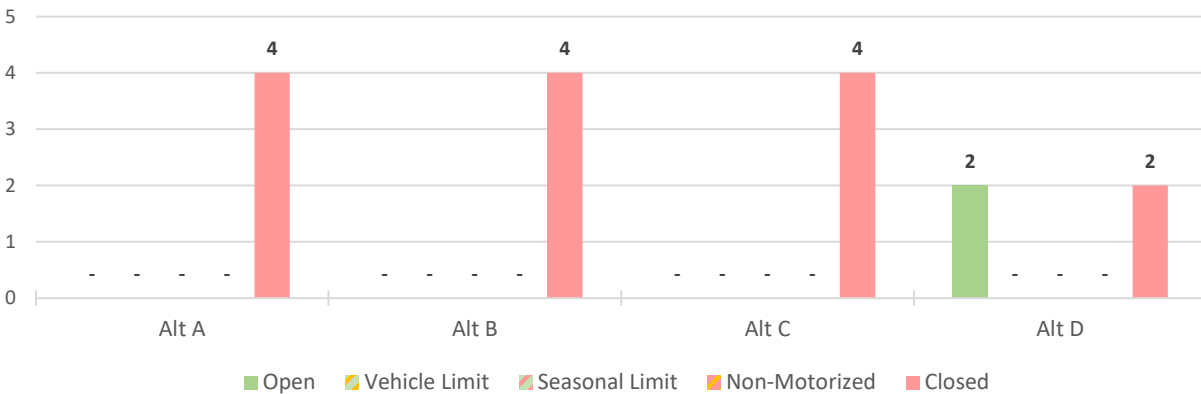
2 Indicators of OHV use conflicts with ROW holders, mineral materials, and grazing operations are the number
3 of routes in any of the network alternatives that provide primary access for these authorized uses. Network
4 alternatives that limit more routes to authorized use and close more routes to OHV use would tend to minimize
5 use conflicts more than those alternatives that leave routes open for OHV use. Figure 3.55 – Figure 3.59,
6 below, show the number of evaluated routes in each alternative network that provide access for authorized uses
7 within the TMA to compare the action alternatives (B-D) to the baseline, Alternative A. More detailed data
8 tables may be found in Appendix C.

9 **Figure 3-55: Number of Evaluated Routes Providing Primary Access to Mineral Materials Sites**



10

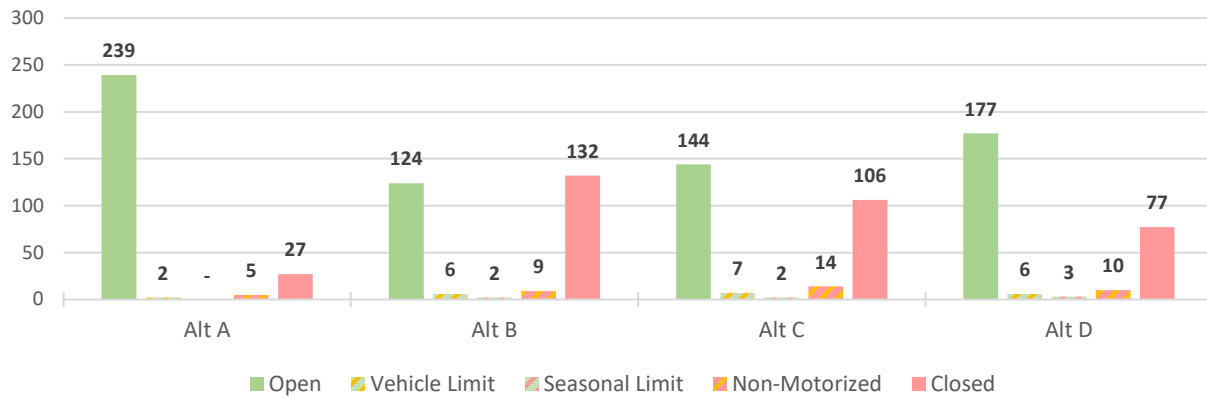
11 **Figure 3-56: Number of Evaluated Routes Providing Primary Access to Gravel Pits**



12

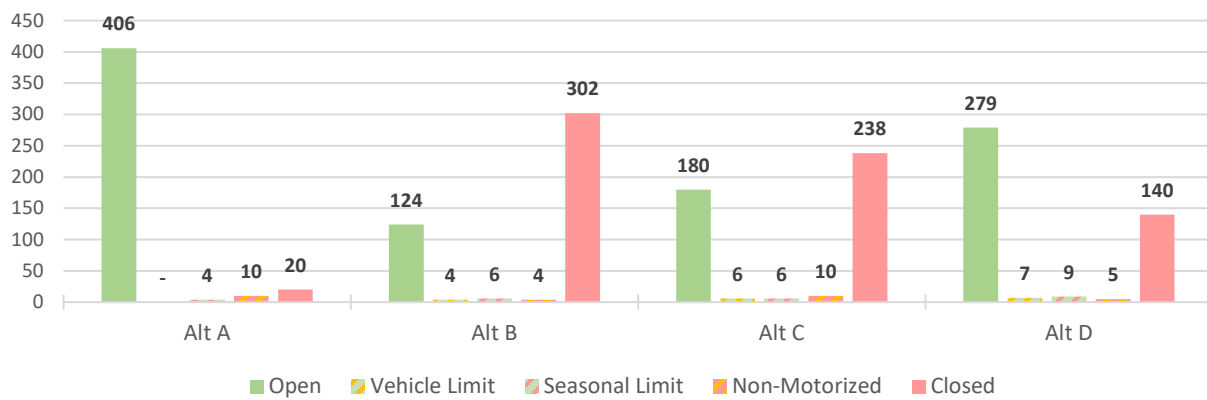
13

1 **Figure 3-57: Number of Evaluated Routes Providing Primary Access for ROWs**



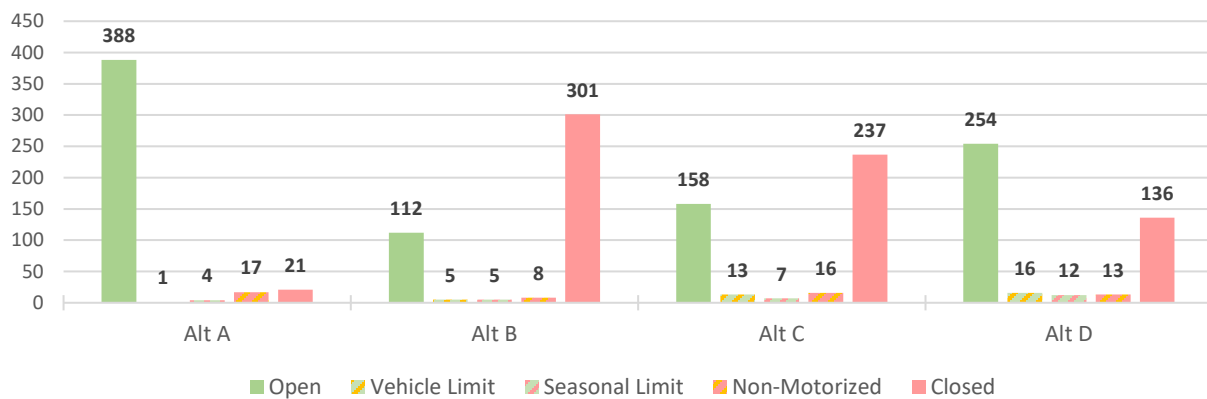
2

3 **Figure 3-58: Number of Evaluated Routes Providing Primary Access to Grazing Allotments**



4

5 **Figure 3-59: Number of Evaluated Routes Providing Primary Access to Range Facilities or Improvements**



6

7 **3.3.2.2.3 Alternative A (Current Management)**

8 Under Alternative A, 76% of the 21 routes providing primary access to mineral materials sites are open to
 9 OHV use and the rest are closed. All 4 of the routes accessing gravel pits are closed to public OHV use. Of the
 10 273 routes providing primary access for ROWs, 88% would remain available for OHV use, 2% would remain
 11 limited to non-motorized use, just 4% would remain limited to authorized users only, and the rest would

1 remain closed. Of the 440 evaluated routes accessing grazing allotments, 93% would remain available for
2 public OHV use, 2% would remain limited to non-motorized use, just 2 routes would remain limited to
3 authorized use only, and the rest would remain closed. Of the 431 routes accessing range improvements or
4 facilities, 91% would remain available for public OHV use, 4% would remain limited to non-motorized use,
5 just 1 route would remain limited to authorized use only, and the rest would remain closed.

6 The effects described above from public OHV use and route maintenance, such as vandalism, disruption, and
7 trespass for operators and ROW holders, would continue to occur on those routes that are open or limited.
8 Given the number of existing routes available for public use that also provide primary access for authorized
9 users, Alternative A has a high likelihood for ongoing conflicts with OHV users.

10 3.3.2.2.4 *Alternative B (Natural Resource Emphasis)*

11 Under Alternative B, of the 21 evaluated routes accessing mineral materials sites, 8 would be designated for
12 OHV use (OHV-Open or OHV-Limited), a 50% reduction compared to Alternative A; 7 of the evaluated
13 routes accessing mineral materials sites would be limited to authorized use only. Of the 4 evaluated routes
14 accessing gravel pits, 2 would be limited to authorized use only and 2 would be closed and earmarked for
15 decommissioning and reclamation. Of the 273 evaluated routes providing primary access for ROWs,
16 Alternative B proposes a reduction of 109 routes (45%) designated for OHV use and an increase of 86 routes
17 designated for authorized use only. Of the evaluated routes accessing grazing allotments, Alternative B
18 proposes a reduction of 276 routes (67%) designated for OHV use and an increase of 63 routes designated for
19 authorized use only. Similarly, of the evaluated routes accessing range improvements or facilities, Alternative
20 B proposes a reduction of 271 routes (69%) designated for OHV use and an increase of 80 routes designated
21 for authorized use only.

22 Given the substantial closure of routes to public OHV access under Alternative B, and because authorized
23 users would still have access for operation and maintenance, Alternative B would have considerably lower
24 potential for conflicts with OHV users as compared to Alternative A.

25 3.3.2.2.5 *Alternative C (Multiple Use Emphasis)*

26 Under Alternative C, of the 21 evaluated routes accessing mineral materials sites, 13 would be designated for
27 OHV use, a 19% reduction compared to Alternative A; 4 of the evaluated routes accessing mineral materials
28 sites would be limited to authorized use only and 4 would be closed and earmarked for decommissioning and
29 reclamation. Of the 4 evaluated routes accessing gravel pits, 2 would be limited to authorized use only and 2
30 would be closed and earmarked for decommissioning and reclamation. Of the 273 evaluated routes providing
31 primary access for ROWs, Alternative C proposes a reduction of 88 routes (37%) designated for OHV use and
32 an increase of 79 routes designated for authorized use only. Of the evaluated routes accessing grazing
33 allotments, Alternative C proposes a reduction of 218 routes (53%) designated for OHV use and an increase of
34 86 routes designated for authorized use only. Similarly, of the evaluated routes accessing range improvements
35 or facilities, Alternative C proposes a reduction of 215 routes (55%) designated for OHV use and an increase
36 of 100 routes designated for authorized use only.

37 Given the substantial closure of routes to public OHV access under Alternative C, and because authorized
38 users would still have access for operation and maintenance, Alternative C would have considerably lower
39 potential for conflicts with OHV users as compared to Alternative A.

40 3.3.2.2.6 *Alternative D (Access Emphasis)*

41 Under Alternative D, of the 21 evaluated routes accessing mineral materials sites, 15 would be designated for
42 OHV use, a 1-route reduction compared to Alternative A; 5 of the evaluated routes accessing mineral materials
43 sites would be limited to authorized use only and 1 would be closed and earmarked for decommissioning and
44 reclamation. Of the 4 evaluated routes accessing gravel pits, 2 would be designated for public OHV use, 1

1 would be limited to authorized use only, and 1 would be closed and earmarked for decommissioning and
 2 reclamation. Of the 273 evaluated routes associated with ROWs, Alternative D proposes a reduction of 55
 3 routes (23%) designated for OHV use and an increase of 62 routes designated for authorized use only. Of the
 4 evaluated routes accessing grazing allotments, Alternative D proposes a reduction of 115 routes (28%)
 5 designated for OHV use and an increase of 67 routes designated for authorized use only. Similarly, of the
 6 evaluated routes accessing range improvements or facilities, Alternative C proposes a reduction of 111 routes
 7 (28%) designated for OHV use and an increase of 79 routes designated for authorized use only.

8 Given the closure of routes to public OHV access under Alternative D, and because authorized users would
 9 still have access for operation and maintenance, Alternative D would have lower potential for conflicts with
 10 OHV users as compared to Alternative A.

11 3.3.3 Cumulative Effects for Issue 2

12 The cumulative impact analysis area (CIAA) used to analyze cumulative impacts for the resource use topics of
 13 Issue 2 is the entire TMA.

14 **Table 3-60: Past, Present, or Reasonably Foreseeable Actions, Plans, and Projects for Issue 2**

| Resource | Cumulative Impact Analysis Area |
|-----------------|---------------------------------|
| Recreation | The entire TMA. |
| Authorized Uses | The entire TMA. |

15

| Past, present, or reasonably foreseeable actions, plans, or projects affecting resources analyzed under Issue 1 | |
|---|---|
| 1985 | Medicine Lodge RMP |
| 1997 | Idaho Standards for Rangeland Health and Guidelines for Livestock Grazing Management |
| 2015 | 2015 Idaho and Southwestern Montana Greater Sage-Grouse Approved Resource Management Plan Amendment |
| 2016 | Upper Snake River Basin Habitat Conservation and Restoration Project |
| 2017 | Idaho State Wildlife Action Plan |
| Ongoing/Anticipated | <ul style="list-style-type: none"> • Commercial recreation permits • Increased recreation use • Construction of new motorized and non-motorized routes • Fuels reduction treatments • Invasive species/noxious weed treatment • Grazing permits • Range improvements • Rights-of-ways |

16

17 All the actions, plans, and projects in Table 3.60 contribute to impacts on recreation and authorized uses. All
 18 are designed to protect resources while providing for and managing public and authorized uses. Direct and
 19 indirect effects to recreation from the various travel network alternatives include direct increase or reductions
 20 in access, and conflicts between recreation users that can result in reduced quality of recreation opportunities
 21 or experiences. Direct and indirect effects on access for authorized uses and to other jurisdictions include
 22 conflicts with recreation users as well as other authorized users. Alternatives B-D would reduce user conflicts
 23 to various extents by closing some routes in the TMA and limiting some routes to administrative or authorized
 24 use only, and providing for higher-quality recreation experiences through the construction of additional access
 25 for OHV and nonmotorized users, in effect resulting in some level of incremental reduction in recreation user
 26 conflicts throughout the cumulative effects analysis area when added to the past, present, and reasonably

1 foreseeable actions, plans, and projects noted in Table 3.60, above. Alternatives B-D would also implement
2 structured management and operation of the route system (e.g., signing), providing for enhanced network user
3 navigation and effectively reducing confusion and instances of user conflicts. The Alternative A route network
4 would not provide for user navigation, reduce recreation user conflicts, crowding, and route confusion within
5 the TMA; and, given the annual increases in recreation use noted in section 3.3.1, above, would incrementally
6 add to user conflicts within the cumulative impact analysis area.

7

1 4 Consultation and Coordination

2 4.1 List of Preparers

3 4.1.1 Bureau of Land Management

4 The following staff assisted with assembling this EA and the Implementation Guide it supports. Additional
5 staff contributed to the route evaluation that supports the EA and TMP Implementation Guide.

| Name | Title |
|------------------|---|
| Ryan Beatty | Fisheries Biologist, USFO |
| Jeremy Casterson | Field Manager, USFO |
| Matt Clarkson | Range Technician, Noxious Weeds, and Invasive Species Program, USFO |
| Devin Englestead | Wildlife Biologist, USFO |
| Jarom Gilbert | Supervisory GIS Specialist, Idaho Falls District |
| Norm Henrikson | Archaeologist, USFO |
| James Johnsen | Hydrologist/Geologist, USFO |
| Becky Lazdauskas | Realty Specialist, USFO |
| Juley Smith | Rangeland Management Specialist, USFO |
| Deena Teel | Assistant Field Manager, USFO |
| Monica Zimmerman | Outdoor Recreation Planner, USFO |

6 4.1.2 Interdisciplinary Team Involvement

7 BLM resource and resource use disciplines represented on the IDT during route evaluation included cultural
8 resources, soils, water quality, riparian and wetlands, geology and minerals, paleontology, GIS, hydrology, law
9 enforcement, natural resources, outdoor recreation planning, public health and safety, minerals, native
10 vegetation and rangeland management, noxious weeds and invasive species, lands and realty, and
11 environmental planning and NEPA.

12 4.1.3 Advanced Resource Solutions, Inc. (ARS)

13 The following contractor staff also assisted with developing the TMP and EA:

| Name | Title |
|--------------|--|
| Dennis Gale | Travel Management Planner/Writer |
| Cameron Gale | Travel Management Planner/Writer |
| Derek Givens | Travel Management Planner/GIS Specialist |
| Cole Weeks | Travel Management Planner |
| Les Weeks | Company Owner |

14 4.2 Public Review

15 As discussed in section 2, external scoping for travel management planning began in conjunction with public
16 involvement for the 2009 Analysis of Management Situation (AMS). The Public Scoping Report (BLM
17 2008b) summarized several public comments related to travel management. Public scoping also occurred in
18 conjunction with the route inventory and evaluation process in 2016. This scoping included a public meeting
East Travel Management Plan Environmental Assessment

1 held in Driggs and another in Rigby. The BLM also held internal scoping in 2016 to further develop issues
2 and range of alternatives.

3 The BLM is providing a 30day comment period with the release of this EA. The comment period is intended
4 to provide Tribes and the public an opportunity to review the environmental analysis and alternatives an
5 provide input on the sufficiency of the analysis or range of alternatives.

6 4.3 Consultation

7 4.3.1 National Historic Preservation Act (NHPA) Section 106

8 The BLM is responsible for consulting with Tribes under section 106 of the National Historic Preservation Act
9 and 36 CFR 800. The BLM is consulting with the Shoshone-Bannock and Nez Perce Native American Indian
10 Tribes. In January 2018, the BLM sent the SHPO the Sand Creek Travel Management Area Class III and
11 received SHPO concurrence on February 22, 2018. In October 2018, the BLM sent SHPO the Class III
12 inventory reports for the Mountain Valley Travel Management Area and received SHPO's concurrence on
13 November 19 and 21, 2018. On February 18, 2026, March 18, 2020, October 19, 2021, and March 13, 2023
14 the BLM met with the Shoshone-Bannock Native American Indian Tribe to discuss the Travel Management
15 Plan during staff to staff meetings. In February 2023, the BLM sent the Shoshone-Bannock and Nez Perce
16 Native American Indian Tribes drafts of the Environment Assessment. Consultation with the Tribes and
17 SHPO is on-going.

18 4.3.2 Endangered Species Act Section 7

19 As the lead agency under section 107 of the Endangered Species Act, the BLM has the responsibility of
20 consulting with the Fish and Wildlife Service when a BLM decision could impact threaten or endanger species.
21 The BLM has identified several species who could be impacted by the alternatives identified within this
22 environmental assessment. Consultation with the Fish and Wildlife Service is ongoing.

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17

Appendix B. Acronym Meanings

| Acronym | Definition |
|----------------|--|
| ACEC | Area of critical environmental concern |
| ATV | All-terrain vehicle |
| BLM | Bureau of Land Management |
| BMP | Best management practice |
| CFR | Code of Federal Regulations |
| CLO | Cornell Lab of Ornithology |
| CX | Categorical exclusion |
| DNA | Determination of NEPA adequacy |
| DOI | Department of the Interior |
| DR | Decision record |
| ECOS | Environmental Conservation Online System |
| EIS | Environmental impact statement |
| FO | Field Office |
| FONSI | Finding of no significant impact |
| GPO | Government Publishing Office |
| GRSG | Greater Sage-Grouse |
| IDFG | Idaho Department of Fish and Game |
| IDT | Interdisciplinary Team |
| LWC | Land with wilderness characteristics |
| MBTA | Migratory Bird Treaty Act |
| MSC | Microbiotic soil crust |
| NEPA | National Environmental Policy Act |
| NPS | National Park Service |
| NRCS | Natural Resources Conservation Service |
| NSE | NatureServe Explorer |
| OHV | Off-highway vehicle |
| ORV | Outstandingly remarkable values |
| RMP | Resource management plan |
| ROW | Right-of-way |
| SRMA | Special recreation management area |
| SRP | Special recreation permit |
| SSS | Special status species |
| TCP | Traditional cultural property |
| TMA | Travel management area |
| TMP | Travel Management Plan |
| USFO | Upper Snake Field Office |
| USFS | U.S. Forest Service |
| USFWS | U.S. Fish and Wildlife Service |
| UTV | Utility terrain vehicle |
| YCT | Yellowstone cutthroat trout |

Appendix C. Additional Tables

Table C.1: Miles of Evaluated Routes by Designation and Alternative

| Designation | Alt. A | Alt. B | | Alt. C | | Alt. D | | |
|---|--|---------------|-----------------|---------------|-----------------|---------------|-----------------|--------|
| | Miles | Miles | Change in Miles | Miles | Change in Miles | Miles | Change in Miles | |
| All Miles (761.2 miles; 103.8% of existing miles) | Open to all use (OHV-Open) | 578.5 | 188.2 | -390.3 | 246.9 | -331.6 | 360.3 | -218.2 |
| | Limited by vehicle type (OHV-Limited) | 1.8 | 9.7 | 7.9 | 22.2 | 20.3 | 34.2 | 32.4 |
| | Limited by seasonal restrictions (OHV-Limited) | 16.0 | 12.0 | -4.0 | 13.4 | -2.6 | 22.9 | 6.8 |
| | Limited to authorized users (OHV-Closed) | 21.6 | 102.6 | 81.0 | 128.2 | 106.6 | 113.2 | 91.6 |
| | Limited to Ebikes & Non-Motorized use (OHV-Closed) | 0.4 | - | -0.4 | 6.8 | 6.4 | 5.1 | 4.7 |
| | Limited to non-motorized use (OHV-Closed) | 65.9 | 37.6 | -28.4 | 57.8 | -8.1 | 54.8 | -11.1 |
| | Limited to non-mechanized use (OHV-Closed) | - | 10.3 | 10.3 | 2.9 | 2.9 | 2.1 | 2.1 |
| | Closed/Unavailable (OHV-Closed) | 49.2 | 373.2 | 323.9 | 255.4 | 206.1 | 141.0 | 91.7 |
| Proposed Miles | Open to all use (OHV-Open) | - | - | - | 0.5 | 0.5 | 1.7 | 1.7 |
| | Limited by seasonal restrictions (OHV-Limited) | - | 0.1 | 0.1 | 0.1 | 0.1 | - | - |
| | Limited to authorized users (OHV-Closed) | - | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 |
| | Limited to Ebikes & Non-Motorized use (OHV-Closed) | - | - | - | 0.7 | 0.7 | 0.7 | 0.7 |
| | Limited to non-motorized use (OHV-Closed) | - | 2.7 | 2.7 | 21.2 | 21.2 | 25.1 | 25.1 |
| | Unavailable (OHV-Closed) | 27.6 | 24.6 | -3.0 | 5.0 | -22.6 | - | -27.6 |
| Totals | 761.18 | 761.18 | - | 761.18 | - | 761.18 | - | |

1 **Table C.2: Miles of Evaluated Routes in Erosive Soils**

| Designation | Alt. A | Alt. B | | Alt. C | | Alt. D | | |
|---|---|--------|-----------------|--------|-----------------|--------|-----------------|-------|
| | Miles | Miles | Change in Miles | Miles | Change in Miles | Miles | Change in Miles | |
| Erosive Soils (100.3 miles; 13.7% of existing miles) | Open to all use (OHV-Open) | 77.2 | 17.7 | -59.5 | 23.6 | -53.6 | 35.9 | -41.3 |
| | Limited by vehicle type (OHV-Limited) | - | 0.5 | 0.5 | 6.2 | 6.2 | 13.6 | 13.6 |
| | Limited by seasonal restrictions (OHV-Limited) | - | 2.5 | 2.5 | 2.5 | 2.5 | 4.2 | 4.2 |
| | Limited to authorized users (OHV-Closed) | - | 6.7 | 6.7 | 12.5 | 12.5 | 13.7 | 13.7 |
| | Limited to non-motorized use (OHV-Closed) | 14.2 | 8.5 | -5.8 | 18.5 | 4.2 | 17.5 | 3.3 |
| | Limited to non-mechanized use (OHV-Closed) | - | 5.6 | 5.6 | 0.6 | 0.6 | - | - |
| | Closed/Unavailable (OHV- Closed) | 0.3 | 50.3 | 50.0 | 27.9 | 27.6 | 6.9 | 6.6 |
| Proposed Miles | Limited to non-motorized use (OHV-Closed) | - | 2.1 | 2.1 | 8.1 | 8.1 | 8.6 | 8.6 |
| | Unavailable (OHV-Closed) | 8.6 | 6.5 | -2.1 | 0.5 | -8.1 | - | -8.6 |
| Totals | 100.33 | 100.33 | - | 100.33 | 0.00 | 100.33 | (0.00) | |

2

3

1 **Table C.3: Number of Evaluated Routes Associated with Route Proliferation and Potential Impacts on MSCs**

| | Designation | Alt. A | Alt. B | | Alt. C | | Alt. D | |
|--|---|--------|--------|------------------|--------|------------------|--------|------------------|
| | | Routes | Routes | Change in Routes | Routes | Change in Routes | Routes | Change in Routes |
| Route Proliferation (64 Routes; 8.7% of existing Routes) | Open to all use (OHV-Open) | 61 | 8 | -53 | 18 | -43 | 32 | -29 |
| | Limited by vehicle type (OHV-Limited) | - | - | - | 1 | +1 | 2 | +2 |
| | Limited by seasonal restrictions (OHV-Limited) | - | - | - | - | - | 3 | +3 |
| | Limited to authorized users (OHV-Closed) | - | 7 | +7 | 6 | +6 | 7 | +7 |
| | Limited to non-motorized use (OHV-Closed) | 3 | - | -3 | - | -3 | - | -3 |
| | Closed/Unavailable (OHV- Closed) | - | 49 | +49 | 39 | +39 | 20 | +20 |
| Totals | | 64 | 64 | - | 64 | - | 64 | - |

2 **Table C.4: Miles of Evaluated Routes in Primary Native Vegetation Communities**

| | Designation | Alt. A | Alt. B | | Alt. C | | Alt. D | |
|--|--|--------|--------|-----------------|--------|-----------------|--------|-----------------|
| | | Miles | Miles | Change in Miles | Miles | Change in Miles | Miles | Change in Miles |
| Sagebrush Shrubland (508.6 miles; 69.3% of existing miles) | Open to all use (OHV-Open) | 434.6 | 141.6 | -293.0 | 193.9 | -240.7 | 284.8 | -149.8 |
| | Limited by vehicle type (OHV-Limited) | 0.7 | 3.6 | 2.9 | 8.8 | 8.1 | 11.0 | 10.3 |
| | Limited by seasonal restrictions (OHV-Limited) | 6.2 | 10.0 | 3.7 | 10.8 | 4.6 | 20.9 | 14.6 |
| | Limited to authorized users (OHV-Closed) | 10.3 | 66.6 | 56.3 | 81.8 | 71.4 | 69.4 | 59.0 |
| | Limited to Ebikes & Non- Motorized use (OHV-Closed) | 0.1 | - | -0.1 | 2.3 | 2.2 | 1.6 | 1.5 |
| | Limited to non-motorized use (OHV-Closed) | 22.5 | 10.0 | -12.5 | 17.4 | -5.1 | 16.9 | -5.6 |
| | Limited to non-mechanized use (OHV-Closed) | - | 3.4 | 3.4 | 0.7 | 0.7 | 0.0 | 0.0 |
| | Closed/Unavailable (OHV- Closed) | 28.8 | 268.1 | 239.3 | 187.6 | 158.8 | 98.7 | 69.9 |

| | | Alt. A | Alt. B | | Alt. C | | Alt. D | |
|---|--|--------|--------|-----------------|--------|-----------------|--------|-----------------|
| Designation | | Miles | Miles | Change in Miles | Miles | Change in Miles | Miles | Change in Miles |
| Proposed Miles | Open to all use (OHV-Open) | - | - | - | 0.3 | 0.3 | 1.2 | 1.2 |
| | Limited to authorized users (OHV-Closed) | - | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 |
| | Limited to Ebikes & Non-Motorized use (OHV-Closed) | - | - | - | 0.1 | 0.1 | 0.1 | 0.1 |
| | Limited to non-motorized use (OHV-Closed) | - | 0.3 | 0.3 | 3.9 | 3.9 | 3.9 | 3.9 |
| | Unavailable (OHV-Closed) | 5.4 | 4.8 | -0.5 | 0.9 | -4.4 | - | -5.4 |
| Totals | | 508.64 | 508.64 | (0.00) | 508.64 | (0.00) | 508.64 | (0.00) |
| Evergreen Montane Forest (71.2 miles; 9.7% of existing miles) | Open to all use (OHV-Open) | 55.7 | 16.8 | -38.9 | 18.2 | -37.5 | 27.0 | -28.8 |
| | Limited by vehicle type (OHV-Limited) | 0.5 | 2.3 | 1.8 | 8.0 | 7.5 | 9.7 | 9.2 |
| | Limited by seasonal restrictions (OHV-Limited) | 0.7 | - | -0.7 | - | -0.7 | - | -0.7 |
| | Limited to authorized users (OHV-Closed) | 0.6 | 8.5 | 7.9 | 11.1 | 10.5 | 6.4 | 5.8 |
| | Limited to non-motorized use (OHV-Closed) | 7.5 | 7.9 | 0.4 | 17.6 | 10.1 | 17.1 | 9.6 |
| | Limited to non-mechanized use (OHV-Closed) | - | 5.7 | 5.7 | 0.2 | 0.2 | 0.6 | 0.6 |
| | Closed/Unavailable (OHV-Closed) | 0.9 | 24.8 | 23.9 | 10.8 | 9.9 | 5.3 | 4.3 |
| Proposed Miles | Limited to non-motorized use (OHV-Closed) | - | 1.2 | 1.2 | 5.2 | 5.2 | 5.2 | 5.2 |
| | Unavailable (OHV-Closed) | 5.2 | 4.1 | -1.2 | - | -5.2 | - | -5.2 |
| Totals | | 71.22 | 71.22 | 0.00 | 71.22 | 0.00 | 71.22 | 0.00 |
| Bedrock, Scree, Cliffs and Canyons (47.2 miles; 6.4% of existing miles) | Open to all use (OHV-Open) | 12.1 | 5.8 | -6.4 | 6.0 | -6.1 | 7.7 | -4.4 |
| | Limited by vehicle type (OHV-Limited) | 0.4 | 3.6 | 3.2 | 3.7 | 3.3 | 4.9 | 4.5 |
| | Limited by seasonal restrictions (OHV-Limited) | 8.1 | 0.8 | -7.3 | 0.8 | -7.3 | 0.8 | -7.3 |

| | | Alt. A | Alt. B | | Alt. C | | Alt. D | |
|--|--|--------|--------|-----------------|--------|-----------------|--------|-----------------|
| Designation | | Miles | Miles | Change in Miles | Miles | Change in Miles | Miles | Change in Miles |
| | Limited to authorized users (OHV-Closed) | 0.3 | 4.3 | 3.9 | 7.0 | 6.6 | 9.3 | 8.9 |
| | Limited to Ebikes & Non-Motorized use (OHV-Closed) | - | - | - | 4.0 | 4.0 | 2.9 | 2.9 |
| | Limited to non-motorized use (OHV-Closed) | 16.6 | 1.9 | -14.8 | 1.7 | -15.0 | 1.5 | -15.1 |
| | Limited to non-mechanized use (OHV-Closed) | - | - | - | 0.0 | 0.0 | 0.2 | 0.2 |
| | Closed/Unavailable (OHV-Closed) | 1.9 | 23.2 | 21.3 | 16.3 | 14.4 | 12.2 | 10.3 |
| Proposed Miles | Limited to Ebikes & Non-Motorized use (OHV-Closed) | - | - | - | 0.6 | 0.6 | 0.6 | 0.6 |
| | Limited to non-motorized use (OHV-Closed) | - | - | - | 4.6 | 4.6 | 7.1 | 7.1 |
| | Unavailable (OHV-Closed) | 7.7 | 7.7 | - | 2.4 | -5.3 | - | -7.7 |
| Totals | | 47.19 | 47.19 | 0.00 | 47.19 | - | 47.19 | 0.00 |
| Deciduous Riparian Woodland (27.3 miles; 3.7% of existing miles) | Open to all use (OHV-Open) | 16.4 | 7.1 | -9.3 | 7.8 | -8.6 | 9.1 | -7.3 |
| | Limited by vehicle type (OHV-Limited) | 0.2 | - | -0.2 | 0.0 | -0.2 | 0.8 | 0.6 |
| | Limited by seasonal restrictions (OHV-Limited) | 0.1 | 0.0 | -0.0 | 0.1 | -0.0 | 0.0 | -0.1 |
| | Limited to authorized users (OHV-Closed) | 2.4 | 5.0 | 2.6 | 6.3 | 3.9 | 7.3 | 4.9 |
| | Limited to Ebikes & Non-Motorized use (OHV-Closed) | 0.1 | - | -0.1 | 0.1 | - | 0.1 | - |
| | Limited to non-motorized use (OHV-Closed) | 0.1 | 1.6 | 1.5 | 2.4 | 2.3 | 2.2 | 2.1 |
| | Limited to non-mechanized use (OHV-Closed) | - | 0.0 | 0.0 | 0.6 | 0.6 | 0.0 | 0.0 |
| | Closed/Unavailable (OHV-Closed) | 8.0 | 13.4 | 5.4 | 10.0 | 2.0 | 7.7 | -0.3 |
| Proposed Miles | Limited to non-motorized use (OHV-Closed) | - | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| | Unavailable (OHV-Closed) | 0.0 | 0.0 | -0.0 | - | -0.0 | - | -0.0 |
| Totals | | 27.26 | 27.26 | 0.00 | 27.26 | (0.00) | 27.26 | (0.00) |

| | | Alt. A | Alt. B | | Alt. C | | Alt. D | |
|---|---|--------|--------|-----------------|--------|-----------------|--------|-----------------|
| Designation | | Miles | Miles | Change in Miles | Miles | Change in Miles | Miles | Change in Miles |
| Mixed Evergreen Deciduous Montane Forest (23.3 miles; 3.2% of existing miles) | Open to all use (OHV-Open) | 17.8 | 3.0 | -14.8 | 3.6 | -14.3 | 5.4 | -12.5 |
| | Limited by vehicle type (OHV-Limited) | - | 0.2 | 0.2 | 1.1 | 1.1 | 6.6 | 6.6 |
| | Limited by seasonal restrictions (OHV-Limited) | 0.2 | - | -0.2 | 0.5 | 0.3 | 0.8 | 0.7 |
| | Limited to authorized users (OHV-Closed) | - | 0.7 | 0.7 | 1.5 | 1.5 | 2.2 | 2.2 |
| | Limited to non-motorized use (OHV-Closed) | 1.5 | 3.8 | 2.3 | 2.9 | 1.5 | 1.5 | 0.1 |
| | Closed/Unavailable (OHV- Closed) | 0.1 | 11.8 | 11.7 | 9.9 | 9.8 | 3.0 | 2.9 |
| Proposed Miles | Limited to non-motorized use (OHV-Closed) | - | 1.2 | 1.2 | 3.2 | 3.2 | 3.8 | 3.8 |
| | Unavailable (OHV-Closed) | 3.8 | 2.5 | -1.2 | 0.5 | -3.2 | - | -3.8 |
| Totals | | 23.29 | 23.29 | (0.00) | 23.29 | - | 23.29 | - |
| Herbaceous Wetland (21.6 miles; 2.9% of existing miles) | Open to all use (OHV-Open) | 10.2 | 3.3 | -6.9 | 4.1 | -6.1 | 6.9 | -3.3 |
| | Limited by vehicle type (OHV-Limited) | - | 0.0 | 0.0 | 0.0 | 0.0 | 0.5 | 0.5 |
| | Limited by seasonal restrictions (OHV-Limited) | 0.0 | 0.1 | 0.1 | 0.1 | 0.1 | - | -0.0 |
| | Limited to authorized users (OHV-Closed) | 2.7 | 3.9 | 1.2 | 4.7 | 2.0 | 2.6 | -0.1 |
| | Limited to non-motorized use (OHV-Closed) | 7.3 | 8.2 | 0.9 | 8.8 | 1.5 | 8.8 | 1.5 |
| | Closed/Unavailable (OHV- Closed) | 1.3 | 5.9 | 4.7 | 3.7 | 2.5 | 2.6 | 1.4 |
| Proposed Miles | Open to all use (OHV-Open) | - | - | - | - | - | 0.2 | 0.2 |
| | Unavailable (OHV-Closed) | 0.2 | 0.2 | - | 0.2 | - | - | -0.2 |
| Totals | | 21.63 | 21.63 | 0.00 | 21.63 | 0.00 | 21.63 | 0.00 |

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1 **Table C.5: Miles of Evaluated Routes in Areas of Noxious Weeds and Invasive Plants**

| Designation | Alt. A | Alt. B | | Alt. C | | Alt. D | | |
|--|--|--------------|-----------------|--------------|-----------------|--------------|-----------------|-------|
| | Miles | Miles | Change in Miles | Miles | Change in Miles | Miles | Change in Miles | |
| Invasive or Noxious Weeds (67.2 miles; 9.2% of existing miles) | Open to all use (OHV-Open) | 57.4 | 28.4 | -29.0 | 31.7 | -25.8 | 40.5 | -17.0 |
| | Limited by vehicle type (OHV-Limited) | 0.1 | 1.3 | 1.2 | 1.2 | 1.2 | 3.6 | 3.6 |
| | Limited by seasonal restrictions (OHV-Limited) | 1.3 | 0.7 | -0.6 | 0.8 | -0.5 | 1.5 | 0.2 |
| | Limited to authorized users (OHV-Closed) | 2.2 | 7.6 | 5.4 | 9.3 | 7.1 | 7.0 | 4.8 |
| | Limited to Ebikes & Non-Motorized use (OHV-Closed) | 0.1 | - | -0.1 | 0.1 | - | 0.1 | - |
| | Limited to non-motorized use (OHV-Closed) | 1.9 | 1.7 | -0.2 | 2.3 | 0.4 | 2.1 | 0.2 |
| | Limited to non-mechanized use (OHV-Closed) | - | 0.2 | 0.2 | 0.4 | 0.4 | 0.2 | 0.2 |
| | Closed/Unavailable (OHV-Closed) | 3.0 | 26.1 | 23.0 | 20.2 | 17.1 | 11.0 | 7.9 |
| Proposed Miles | Limited to non-motorized use (OHV-Closed) | - | 0.2 | 0.2 | 1.3 | 1.3 | 1.3 | 1.3 |
| | Unavailable (OHV-Closed) | 1.3 | 1.1 | -0.2 | 0.0 | -1.3 | - | -1.3 |
| Totals | 67.24 | 67.24 | (0.00) | 67.24 | (0.00) | 67.24 | (0.00) | |

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1 **Table C.6: Miles of Evaluated Routes in Ute Ladies'-Tresses Habitat**

| | | Alt. A | Alt. B | | Alt. C | | Alt. D | |
|--|--|--------|--------|-----------------|--------|-----------------|--------|-----------------|
| Designation | | Miles | Miles | Change in Miles | Miles | Change in Miles | Miles | Change in Miles |
| Ute Ladies'-Tresses (0.6 miles; 0.1% of existing miles) | Open to all use (OHV-Open) | 0.1 | 0.1 | - | 0.1 | - | 0.1 | - |
| | Limited to authorized users (OHV-Closed) | 0.5 | 0.5 | - | 0.5 | - | 0.5 | - |
| Totals | | 0.64 | 0.64 | - | 0.64 | - | 0.64 | - |

2 **Table C.7: Miles of Evaluated Routes in BLM Sensitive Plant Habitats**

| | | Alt. A | Alt. B | | Alt. C | | Alt. D | |
|---|--|--------|--------|-----------------|--------|-----------------|--------|-----------------|
| Designation | | Miles | Miles | Change in Miles | Miles | Change in Miles | Miles | Change in Miles |
| False Mountain Willow (1.7 miles; 0.2% of existing miles) | Open to all use (OHV-Open) | 1.5 | 0.8 | -0.6 | 0.8 | -0.6 | 1.4 | -0.1 |
| | Limited to authorized users (OHV-Closed) | - | 0.5 | 0.5 | 0.5 | 0.5 | 0.1 | 0.1 |
| | Closed/Unavailable (OHV-Closed) | 0.2 | 0.3 | 0.1 | 0.3 | 0.1 | 0.2 | -0.1 |
| Totals | | 1.69 | 1.69 | 0.00 | 1.69 | 0.00 | 1.69 | 0.00 |
| Giant Helleborine (0.4 miles; 0.1% of existing miles) | Limited to non-motorized use (OHV-Closed) | 0.3 | - | -0.3 | - | -0.3 | - | -0.3 |
| | Limited to non-mechanized use (OHV-Closed) | - | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 |
| | Closed/Unavailable (OHV-Closed) | 0.1 | 0.1 | - | 0.1 | - | 0.1 | - |
| Totals | | 0.38 | 0.38 | - | 0.38 | - | 0.38 | - |
| Rush Aster (1.7 miles; 0.2% of existing miles) | Open to all use (OHV-Open) | 1.5 | 0.8 | -0.6 | 0.8 | -0.6 | 1.4 | -0.1 |
| | Limited to authorized users (OHV-Closed) | - | 0.5 | 0.5 | 0.5 | 0.5 | 0.1 | 0.1 |
| | Closed/Unavailable (OHV-Closed) | 0.2 | 0.3 | 0.1 | 0.3 | 0.1 | 0.2 | -0.1 |
| Totals | | 1.69 | 1.69 | 0.00 | 1.69 | 0.00 | 1.69 | 0.00 |
| Yellowstone Draba (2.3 miles; 0.3% of existing miles) | Open to all use (OHV-Open) | 1.7 | 0.7 | -1.0 | 1.0 | -0.7 | 1.3 | -0.4 |
| | Limited to authorized users (OHV-Closed) | - | 0.2 | 0.2 | 0.2 | 0.2 | - | - |

| | | Alt. A | Alt. B | | Alt. C | | Alt. D | |
|---------------|--|--------|--------|-----------------|--------|-----------------|--------|-----------------|
| Designation | | Miles | Miles | Change in Miles | Miles | Change in Miles | Miles | Change in Miles |
| | Limited to non-motorized use (OHV-Closed) | 0.5 | 0.1 | -0.4 | 0.1 | -0.4 | 0.1 | -0.4 |
| | Limited to non-mechanized use (OHV-Closed) | - | 0.2 | 0.2 | 0.2 | 0.2 | 0.7 | 0.7 |
| | Closed/Unavailable (OHV-Closed) | 0.2 | 1.2 | 1.0 | 0.9 | 0.7 | 0.2 | 0.1 |
| Totals | | 2.34 | 2.34 | - | 2.34 | (0.00) | 2.34 | (0.00) |

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1 **Table C.8: Miles of Evaluated Routes Within 300 Feet of 303(d)-Listed Streams**

| Designation | Alt. A | Alt. B | | Alt. C | | Alt. D | | |
|--|--|--------|-----------------|--------|-----------------|--------|-----------------|-------|
| | Miles | Miles | Change in Miles | Miles | Change in Miles | Miles | Change in Miles | |
| 303(d)-listed Streams (120.4 miles; 16.4% of existing miles) | Open to all use (OHV-Open) | 72.9 | 29.9 | -43.0 | 35.3 | -37.6 | 44.5 | -28.4 |
| | Limited by vehicle type (OHV-Limited) | 0.0 | 1.7 | 1.6 | 2.5 | 2.5 | 4.1 | 4.1 |
| | Limited by seasonal restrictions (OHV-Limited) | 3.6 | 1.9 | -1.7 | 1.9 | -1.7 | 2.0 | -1.6 |
| | Limited to authorized users (OHV-Closed) | 6.6 | 21.1 | 14.5 | 23.5 | 16.9 | 25.3 | 18.7 |
| | Limited to Ebikes & Non-Motorized use (OHV-Closed) | 0.6 | - | -0.6 | 0.8 | 0.2 | 0.8 | 0.2 |
| | Limited to non-motorized use (OHV-Closed) | 18.2 | 7.3 | -10.9 | 12.3 | -6.0 | 11.4 | -6.8 |
| | Limited to non-mechanized use (OHV-Closed) | - | 2.4 | 2.4 | 2.0 | 2.0 | 1.5 | 1.5 |
| | Closed/Unavailable (OHV-Closed) | 9.5 | 47.2 | 37.7 | 33.1 | 23.6 | 21.9 | 12.4 |
| Proposed Miles | Open to all use (OHV-Open) | - | - | - | 0.2 | 0.2 | 0.3 | 0.3 |
| | Limited to Ebikes & Non-Motorized use (OHV-Closed) | - | - | - | 0.5 | 0.5 | 0.5 | 0.5 |
| | Limited to non-motorized use (OHV-Closed) | - | 0.3 | 0.3 | 2.9 | 2.9 | 8.2 | 8.2 |
| | Unavailable (OHV-Closed) | 9.0 | 8.8 | -0.3 | 5.5 | -3.6 | - | -9.0 |
| Totals | 120.44 | 120.44 | (0.00) | 120.44 | (0.00) | 120.44 | (0.00) | |

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1 **Table C.9: Miles of Evaluated Routes in Riparian Areas**

| Designation | Alt. A | Alt. B | | Alt. C | | Alt. D | | |
|---|--|--------|-----------------|--------|-----------------|--------|-----------------|-------|
| | Miles | Miles | Change in Miles | Miles | Change in Miles | Miles | Change in Miles | |
| Riparian (65.3 miles; 8.9% of existing miles) | Open to all use (OHV-Open) | 38.4 | 16.7 | -21.7 | 19.5 | -18.8 | 24.5 | -13.9 |
| | Limited by vehicle type (OHV-Limited) | 0.0 | - | -0.0 | 0.7 | 0.7 | 1.8 | 1.8 |
| | Limited by seasonal restrictions (OHV-Limited) | 0.3 | 0.9 | 0.6 | 0.9 | 0.6 | 1.0 | 0.7 |
| | Limited to authorized users (OHV-Closed) | 5.3 | 11.5 | 6.2 | 13.7 | 8.5 | 13.8 | 8.5 |
| | Limited to Ebikes & Non-Motorized use (OHV-Closed) | 0.4 | - | -0.4 | 0.4 | - | 0.4 | - |
| | Limited to non-motorized use (OHV-Closed) | 8.4 | 5.5 | -3.0 | 7.8 | -0.6 | 7.2 | -1.3 |
| | Limited to non-mechanized use (OHV-Closed) | - | 1.6 | 1.6 | 1.3 | 1.3 | 1.2 | 1.2 |
| | Closed/Unavailable (OHV-Closed) | 7.8 | 24.5 | 16.7 | 16.3 | 8.4 | 10.9 | 3.0 |
| Proposed Miles | Open to all use (OHV-Open) | - | - | - | 0.2 | 0.2 | 0.3 | 0.3 |
| | Limited to non-motorized use (OHV-Closed) | - | 0.3 | 0.3 | 1.8 | 1.8 | 4.3 | 4.3 |
| | Unavailable (OHV-Closed) | 4.7 | 4.4 | -0.3 | 2.7 | -2.0 | - | -4.7 |
| Totals | 65.33 | 65.33 | - | 65.33 | 0.00 | 65.33 | - | |

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1 **Table C.10: Number of Stream Crossings in BLM Sensitive Fish Habitat**

| | Designation | Alt. A | Alt. B | | Alt. C | | Alt. D | |
|--|---|--------|--------|------------------|--------|------------------|--------|------------------|
| | | Routes | Routes | Change in Routes | Routes | Change in Routes | Routes | Change in Routes |
| Crossing BLM Sensitive Fish Streams (10 Routes; 1.4% of existing Routes) | Open to all use (OHV-Open) | 9 | 6 | -3 | 6 | -3 | 8 | -1 |
| | Limited to authorized users (OHV-Closed) | - | 3 | +3 | 3 | +3 | 1 | +1 |
| | Limited to non-motorized use (OHV-Closed) | 1 | - | -1 | - | -1 | - | -1 |
| | Closed/Unavailable (OHV-Closed) | - | 1 | +1 | 1 | +1 | 1 | +1 |
| Totals | | 10 | 10 | - | 10 | - | 10 | - |

2 **Table C.11: Miles of Evaluated Routes Proximate to BLM Sensitive Fish Habitat**

| | Designation | Alt. A | Alt. B | | Alt. C | | Alt. D | |
|--|--|--------|--------|-----------------|--------|-----------------|--------|-----------------|
| | | Miles | Miles | Change in Miles | Miles | Change in Miles | Miles | Change in Miles |
| BLM Sensitive Fish (300 feet) (34.2 miles; 4.7% of existing miles) | Open to all use (OHV-Open) | 18.9 | 7.2 | -11.7 | 8.7 | -10.2 | 12.7 | -6.2 |
| | Limited by vehicle type (OHV-Limited) | - | - | - | 0.1 | 0.1 | 0.2 | 0.2 |
| | Limited by seasonal restrictions (OHV-Limited) | - | 0.9 | 0.9 | 0.9 | 0.9 | 0.9 | 0.9 |
| | Limited to authorized users (OHV-Closed) | 1.9 | 6.4 | 4.4 | 7.4 | 5.5 | 7.2 | 5.3 |
| | Limited to Ebikes & Non-Motorized use (OHV-Closed) | 0.1 | - | -0.1 | 0.1 | - | 0.1 | - |
| | Limited to non-motorized use (OHV-Closed) | 4.0 | 1.1 | -3.0 | 1.9 | -2.1 | 1.6 | -2.4 |
| | Limited to non-mechanized use (OHV-Closed) | - | - | - | - | - | 0.1 | 0.1 |
| | Closed/Unavailable (OHV-Closed) | 5.4 | 14.8 | 9.4 | 11.2 | 5.8 | 7.6 | 2.2 |
| Proposed Miles | Open to all use (OHV-Open) | - | - | - | 0.2 | 0.2 | 0.2 | 0.2 |
| | Limited to non-motorized use (OHV-Closed) | - | 0.2 | 0.2 | 1.3 | 1.3 | 3.7 | 3.7 |

| | | Alt. A | Alt. B | | Alt. C | | Alt. D | |
|--|--|--------|--------|-----------------|--------|-----------------|--------|-----------------|
| Designation | | Miles | Miles | Change in Miles | Miles | Change in Miles | Miles | Change in Miles |
| | Unavailable (OHV-Closed) | 3.9 | 3.8 | -0.2 | 2.5 | -1.4 | - | -3.9 |
| Totals | | 34.23 | 34.23 | 0.00 | 34.23 | 0.00 | 34.23 | 0.00 |
| BLM Sensitive Fish (50 feet) (1.2 miles; 0.2% of existing miles) | Open to all use (OHV-Open) | 0.4 | 0.2 | -0.2 | 0.2 | -0.2 | 0.3 | -0.1 |
| | Limited to authorized users (OHV-Closed) | - | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 |
| | Limited to non-motorized use (OHV-Closed) | 0.4 | - | -0.4 | 0.0 | -0.4 | 0.0 | -0.4 |
| | Limited to non-mechanized use (OHV-Closed) | - | - | - | - | - | - | - |
| | Closed/Unavailable (OHV-Closed) | 0.1 | 0.6 | 0.5 | 0.6 | 0.5 | 0.5 | 0.4 |
| | Limited to non-motorized use (OHV-Closed) | - | - | - | 0.0 | 0.0 | 0.4 | 0.4 |
| | Unavailable (OHV-Closed) | 0.4 | 0.4 | - | 0.3 | -0.0 | - | -0.4 |
| Totals | | 1.24 | 1.24 | - | 1.24 | - | 1.24 | - |

1 **Table C.12: Miles of Evaluated Routes in ESA-Listed Wildlife Species Habitats**

| | | Alt. A | Alt. B | | Alt. C | | Alt. D | |
|---|--|--------|--------|-----------------|--------|-----------------|--------|-----------------|
| Designation | | Miles | Miles | Change in Miles | Miles | Change in Miles | Miles | Change in Miles |
| Canada Lynx Area of Interest (39.3 miles; 5.4% of existing miles) | Open to all use (OHV-Open) | 36.8 | 11.3 | -25.5 | 14.8 | -22.1 | 19.3 | -17.6 |
| | Limited by vehicle type (OHV-Limited) | 0.0 | 0.2 | 0.2 | 2.1 | 2.1 | 8.4 | 8.4 |
| | Limited by seasonal restrictions (OHV-Limited) | 0.2 | - | -0.2 | 0.0 | -0.2 | 0.0 | -0.2 |
| | Limited to authorized users (OHV-Closed) | 0.0 | 2.5 | 2.5 | 3.9 | 3.9 | 3.8 | 3.8 |
| | Limited to non-motorized use (OHV-Closed) | 0.5 | 4.0 | 3.5 | 3.0 | 2.6 | 0.3 | -0.2 |
| | Limited to non-mechanized use (OHV-Closed) | - | 0.2 | 0.2 | 0.2 | 0.2 | 0.7 | 0.7 |

| | | Alt. A | Alt. B | | Alt. C | | Alt. D | |
|---|--|--------|--------|-----------------|--------|-----------------|--------|-----------------|
| Designation | | Miles | Miles | Change in Miles | Miles | Change in Miles | Miles | Change in Miles |
| | Closed/Unavailable (OHV-Closed) | 1.4 | 20.7 | 19.3 | 14.8 | 13.4 | 6.4 | 5.1 |
| Proposed Miles | Open to all use (OHV-Open) | - | - | - | 0.2 | 0.2 | 0.4 | 0.4 |
| | Unavailable (OHV-Closed) | 0.4 | 0.4 | - | 0.2 | -0.2 | - | -0.4 |
| Totals | | 39.25 | 39.25 | (0.00) | 39.25 | (0.00) | 39.25 | (0.00) |
| Grizzly Bear Habitat (340.1 miles; 46.4% of existing miles) | Open to all use (OHV-Open) | 324.6 | 123.8 | -200.8 | 152.4 | -172.2 | 212.3 | -112.3 |
| | Limited by vehicle type (OHV-Limited) | - | 2.1 | 2.1 | 13.6 | 13.6 | 23.1 | 23.1 |
| | Limited by seasonal restrictions (OHV-Limited) | - | 3.2 | 3.2 | 4.5 | 4.5 | 8.1 | 8.1 |
| | Limited to authorized users (OHV-Closed) | 0.4 | 32.2 | 31.9 | 42.5 | 42.1 | 27.9 | 27.6 |
| | Limited to non-motorized use (OHV-Closed) | 0.5 | 16.5 | 16.1 | 21.0 | 20.6 | 19.6 | 19.2 |
| | Limited to non-mechanized use (OHV-Closed) | - | 5.8 | 5.8 | 0.2 | 0.2 | 0.9 | 0.9 |
| | Closed/Unavailable (OHV-Closed) | 3.7 | 145.6 | 141.9 | 94.8 | 91.1 | 37.2 | 33.5 |
| Proposed Miles | Open to all use (OHV-Open) | - | - | - | 0.2 | 0.2 | 1.4 | 1.4 |
| | Limited by seasonal restrictions (OHV-Limited) | - | 0.1 | 0.1 | 0.1 | 0.1 | - | - |
| | Limited to authorized users (OHV-Closed) | - | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 |
| | Limited to non-motorized use (OHV-Closed) | - | 2.7 | 2.7 | 8.9 | 8.9 | 9.4 | 9.4 |
| | Unavailable (OHV-Closed) | 11.0 | 8.0 | -3.0 | 1.7 | -9.3 | - | -11.0 |
| Totals | | 340.15 | 340.15 | 0.00 | 340.15 | 0.00 | 340.15 | 0.00 |
| Yellow-billed Cuckoo (44.5 miles; 6.1% of existing miles) | Open to all use (OHV-Open) | 16.5 | 7.9 | -8.6 | 9.0 | -7.5 | 10.9 | -5.6 |
| | Limited by seasonal restrictions (OHV-Limited) | 0.1 | - | -0.1 | - | -0.1 | - | -0.1 |
| | Limited to authorized users (OHV-Closed) | 11.2 | 16.7 | 5.5 | 18.6 | 7.4 | 20.1 | 8.9 |

| Designation | Alt. A | Alt. B | | Alt. C | | Alt. D | |
|--|--------------|--------------|-----------------|--------------|-----------------|--------------|-----------------|
| | Miles | Miles | Change in Miles | Miles | Change in Miles | Miles | Change in Miles |
| Limited to Ebikes & Non-Motorized use (OHV-Closed) | 0.4 | - | -0.4 | 0.4 | - | 0.4 | - |
| Limited to non-motorized use (OHV-Closed) | 2.4 | 3.1 | 0.6 | 3.2 | 0.8 | 3.2 | 0.8 |
| Closed/Unavailable (OHV-Closed) | 13.8 | 16.8 | 3.0 | 13.2 | -0.6 | 9.9 | -3.9 |
| Totals | 44.47 | 44.47 | 0.00 | 44.47 | (0.00) | 44.47 | 0.00 |

1 **Table C.13: Miles of Evaluated Routes in or Proximate to BLM Sensitive Wildlife Species Habitats**

| Designation | Alt. A | Alt. B | | Alt. C | | Alt. D | | |
|--|--|--------------|-----------------|--------------|-----------------|--------------|-----------------|------|
| | Miles | Miles | Change in Miles | Miles | Change in Miles | Miles | Change in Miles | |
| Bald Eagle Nests (51.4 miles; 7% of existing miles) | Open to all use (OHV-Open) | 26.4 | 8.8 | -17.6 | 13.6 | -12.8 | 18.6 | -7.9 |
| | Limited by vehicle type (OHV-Limited) | 1.8 | 1.2 | -0.6 | 1.6 | -0.1 | 3.2 | 1.4 |
| | Limited by seasonal restrictions (OHV-Limited) | 3.0 | - | -3.0 | - | -3.0 | - | -3.0 |
| | Limited to authorized users (OHV-Closed) | 11.6 | 18.0 | 6.5 | 21.0 | 9.5 | 19.8 | 8.2 |
| | Limited to Ebikes & Non-Motorized use (OHV-Closed) | - | - | - | 2.6 | 2.6 | 1.1 | 1.1 |
| | Limited to non-motorized use (OHV-Closed) | 0.2 | 1.7 | 1.4 | 2.5 | 2.3 | 2.1 | 1.8 |
| | Closed/Unavailable (OHV-Closed) | 8.1 | 21.4 | 13.3 | 9.7 | 1.6 | 6.3 | -1.7 |
| Proposed Miles | Open to all use (OHV-Open) | - | - | - | 0.1 | 0.1 | 0.1 | 0.1 |
| | Limited to Ebikes & Non-Motorized use (OHV-Closed) | - | - | - | 0.1 | 0.1 | 0.1 | 0.1 |
| | Limited to non-motorized use (OHV-Closed) | - | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 |
| | Unavailable (OHV-Closed) | 0.3 | 0.2 | -0.1 | - | -0.3 | - | -0.3 |
| Totals | 51.39 | 51.39 | 0.00 | 51.39 | 0.00 | 51.39 | 0.00 | |

| | | Alt. A | Alt. B | | Alt. C | | Alt. D | |
|---|--|--------|--------|-----------------|--------|-----------------|--------|-----------------|
| Designation | | Miles | Miles | Change in Miles | Miles | Change in Miles | Miles | Change in Miles |
| Ferruginous Hawk Nests (7.7 miles; 1% of existing miles) | Open to all use (OHV-Open) | 6.6 | 0.6 | -5.9 | 0.6 | -5.9 | 1.8 | -4.8 |
| | Limited to authorized users (OHV-Closed) | - | 2.4 | 2.4 | 2.4 | 2.4 | 2.0 | 2.0 |
| | Closed/Unavailable (OHV-Closed) | 1.1 | 4.7 | 3.6 | 4.7 | 3.6 | 4.0 | 2.8 |
| Totals | | 7.69 | 7.69 | - | 7.69 | - | 7.69 | 0.00 |
| Columbian Sharp-tailed Grouse Leaks (1.2 miles; 0.2% of existing miles) | Open to all use (OHV-Open) | 0.8 | 0.0 | -0.7 | 0.0 | -0.7 | 0.5 | -0.2 |
| | Limited by seasonal restrictions (OHV-Limited) | - | 0.3 | 0.3 | 0.3 | 0.3 | - | - |
| | Limited to authorized users (OHV-Closed) | - | - | - | 0.7 | 0.7 | 0.4 | 0.4 |
| | Limited to non-motorized use (OHV-Closed) | 0.4 | - | -0.4 | - | -0.4 | - | -0.4 |
| | Closed/Unavailable (OHV-Closed) | - | 0.9 | 0.9 | 0.3 | 0.3 | 0.3 | 0.3 |
| Totals | | 1.18 | 1.18 | (0.00) | 1.18 | (0.00) | 1.18 | 0.00 |
| Greater Sage-Grouse Leaks (5.4 miles; 0.7% of existing miles) | Open to all use (OHV-Open) | 5.4 | 0.2 | -5.2 | 0.2 | -5.2 | 0.2 | -5.2 |
| | Limited by seasonal restrictions (OHV-Limited) | - | 0.8 | 0.8 | 0.8 | 0.8 | 3.1 | 3.1 |
| | Limited to authorized users (OHV-Closed) | - | 0.2 | 0.2 | 0.3 | 0.3 | 1.7 | 1.7 |
| | Closed/Unavailable (OHV-Closed) | - | 4.2 | 4.2 | 4.1 | 4.1 | 0.5 | 0.5 |
| Totals | | 5.44 | 5.44 | 0.00 | 5.44 | 0.00 | 5.44 | 0.00 |
| Greater Sage-Grouse GHMA (89.5 miles; 12.2% of existing miles) | Open to all use (OHV-Open) | 31.1 | 11.0 | -20.1 | 12.3 | -18.8 | 18.8 | -12.3 |
| | Limited by seasonal restrictions (OHV-Limited) | - | 0.9 | 0.9 | 0.9 | 0.9 | 0.9 | 0.9 |
| | Limited to authorized users (OHV-Closed) | 2.2 | 12.3 | 10.1 | 20.0 | 17.8 | 24.3 | 22.1 |
| | Limited to non-motorized use (OHV-Closed) | 44.9 | 5.8 | -39.1 | 15.2 | -29.7 | 15.2 | -29.7 |
| | Limited to non-mechanized use (OHV-Closed) | - | 0.2 | 0.2 | - | - | - | - |

| | | Alt. A | Alt. B | | Alt. C | | Alt. D | |
|---|--|--------|--------|-----------------|--------|-----------------|--------|-----------------|
| Designation | | Miles | Miles | Change in Miles | Miles | Change in Miles | Miles | Change in Miles |
| | Closed/Unavailable (OHV-Closed) | 2.4 | 50.4 | 48.1 | 32.2 | 29.8 | 21.3 | 18.9 |
| Proposed Miles | Limited to non-motorized use (OHV-Closed) | - | - | - | 5.6 | 5.6 | 8.9 | 8.9 |
| | Unavailable (OHV-Closed) | 8.9 | 8.9 | - | 3.3 | -5.6 | - | -8.9 |
| Totals | | 89.48 | 89.48 | 0.00 | 89.48 | (0.00) | 89.48 | - |
| Greater Sage-Grouse IHMA (327 miles; 44.6% of existing miles) | Open to all use (OHV-Open) | 315.2 | 106.4 | -208.9 | 151.1 | -164.2 | 222.6 | -92.6 |
| | Limited by vehicle type (OHV-Limited) | - | 0.3 | 0.3 | 3.3 | 3.3 | 1.8 | 1.8 |
| | Limited by seasonal restrictions (OHV-Limited) | - | 7.3 | 7.3 | 7.5 | 7.5 | 15.3 | 15.3 |
| | Limited to authorized users (OHV-Closed) | 0.0 | 34.7 | 34.7 | 36.4 | 36.4 | 25.9 | 25.9 |
| | Limited to non-motorized use (OHV-Closed) | 0.0 | 0.1 | 0.0 | 0.1 | 0.0 | 0.1 | 0.0 |
| | Closed/Unavailable (OHV-Closed) | 10.8 | 177.3 | 166.5 | 127.7 | 116.9 | 60.4 | 49.6 |
| Proposed Miles | Open to all use (OHV-Open) | - | - | - | - | - | 0.9 | 0.9 |
| | Unavailable (OHV-Closed) | 0.9 | 0.9 | - | 0.9 | - | - | -0.9 |
| Totals | | 326.98 | 326.98 | (0.00) | 326.98 | (0.00) | 326.98 | (0.00) |
| Greater Sage-Grouse PHMA (28.8 miles; 3.9% of existing miles) | Open to all use (OHV-Open) | 28.8 | 7.7 | -21.1 | 11.7 | -17.0 | 17.6 | -11.1 |
| | Limited by vehicle type (OHV-Limited) | - | - | - | - | - | 2.5 | 2.5 |
| | Limited by seasonal restrictions (OHV-Limited) | - | 2.5 | 2.5 | 2.5 | 2.5 | 3.5 | 3.5 |
| | Limited to authorized users (OHV-Closed) | - | 2.0 | 2.0 | 3.7 | 3.7 | 4.1 | 4.1 |
| | Closed/Unavailable (OHV-Closed) | - | 16.6 | 16.6 | 10.9 | 10.9 | 1.0 | 1.0 |
| Totals | | 28.77 | 28.77 | 0.00 | 28.77 | 0.00 | 28.77 | 0.00 |

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1 **Table C.14: Miles of Evaluated Routes in General Wildlife Species Habitats**

| | | Alt. A | Alt. B | | Alt. C | | Alt. D | |
|--|--|---------------|---------------|-----------------|---------------|-----------------|---------------|-----------------|
| Designation | | Miles | Miles | Change in Miles | Miles | Change in Miles | Miles | Change in Miles |
| Elk Crucial Habitat (578.7 miles; 78.9% of existing miles) | Open to all use (OHV-Open) | 460.8 | 151.6 | -309.2 | 203.7 | -257.1 | 297.3 | -163.5 |
| | Limited by vehicle type (OHV-Limited) | 0.3 | 1.9 | 1.6 | 11.7 | 11.5 | 14.9 | 14.6 |
| | Limited by seasonal restrictions (OHV-Limited) | - | 11.0 | 11.0 | 12.4 | 12.4 | 22.8 | 22.8 |
| | Limited to authorized users (OHV-Closed) | 11.6 | 68.5 | 56.9 | 86.7 | 75.1 | 75.2 | 63.5 |
| | Limited to non-motorized use (OHV-Closed) | 57.4 | 27.6 | -29.8 | 47.9 | -9.6 | 50.0 | -7.5 |
| | Limited to non-mechanized use (OHV-Closed) | - | 9.0 | 9.0 | 0.9 | 0.9 | - | - |
| | Closed/Unavailable (OHV-Closed) | 29.6 | 290.2 | 260.5 | 196.5 | 166.9 | 99.7 | 70.0 |
| Proposed Miles | Open to all use (OHV-Open) | - | - | - | 0.3 | 0.3 | 1.2 | 1.2 |
| | Limited to non-motorized use (OHV-Closed) | - | 2.1 | 2.1 | 13.8 | 13.8 | 17.7 | 17.7 |
| | Unavailable (OHV-Closed) | 18.9 | 16.8 | -2.1 | 4.8 | -14.1 | - | -18.9 |
| Totals | | 578.65 | 578.65 | (0.00) | 578.65 | 0.00 | 578.65 | 0.00 |
| Golden Eagle Nests (26.1 miles; 3.6% of existing miles) | Open to all use (OHV-Open) | 5.0 | 3.7 | -1.3 | 3.7 | -1.3 | 3.7 | -1.3 |
| | Limited by seasonal restrictions (OHV-Limited) | - | 0.1 | 0.1 | 0.1 | 0.1 | - | - |
| | Limited to authorized users (OHV-Closed) | 1.5 | 1.7 | 0.1 | 1.7 | 0.1 | 3.1 | 1.6 |
| | Limited to non-motorized use (OHV-Closed) | 8.0 | - | -8.0 | 4.8 | -3.2 | 5.7 | -2.3 |
| | Limited to non-mechanized use (OHV-Closed) | - | 3.3 | 3.3 | 0.9 | 0.9 | - | - |
| | Closed/Unavailable (OHV-Closed) | 4.9 | 10.8 | 5.9 | 8.4 | 3.5 | 6.9 | 2.0 |
| Proposed Miles | Limited to non-motorized use (OHV-Closed) | - | - | - | 4.8 | 4.8 | 6.7 | 6.7 |

| | | Alt. A | Alt. B | | Alt. C | | Alt. D | |
|--|--|--------|--------|-----------------|--------|-----------------|--------|-----------------|
| Designation | | Miles | Miles | Change in Miles | Miles | Change in Miles | Miles | Change in Miles |
| | Unavailable (OHV-Closed) | 6.7 | 6.7 | - | 1.9 | -4.8 | - | -6.7 |
| Totals | | 26.13 | 26.13 | 0.00 | 26.13 | - | 26.13 | - |
| Moose Crucial Habitat (202.4 miles; 27.6% of existing miles) | Open to all use (OHV-Open) | 125.8 | 42.6 | -83.2 | 50.4 | -75.4 | 68.3 | -57.6 |
| | Limited by vehicle type (OHV-Limited) | 0.3 | 6.7 | 6.4 | 14.0 | 13.7 | 20.3 | 20.1 |
| | Limited by seasonal restrictions (OHV-Limited) | 16.0 | 2.6 | -13.4 | 4.0 | -12.0 | 8.3 | -7.7 |
| | Limited to authorized users (OHV-Closed) | 13.7 | 30.0 | 16.3 | 40.9 | 27.2 | 38.0 | 24.3 |
| | Limited to Ebikes & Non-Motorized use (OHV-Closed) | 0.4 | - | -0.4 | 6.8 | 6.4 | 5.1 | 4.7 |
| | Limited to non-motorized use (OHV-Closed) | 10.4 | 16.4 | 6.0 | 18.6 | 8.2 | 18.7 | 8.3 |
| | Limited to non-mechanized use (OHV-Closed) | - | 6.6 | 6.6 | 1.2 | 1.2 | 1.2 | 1.2 |
| | Closed/Unavailable (OHV-Closed) | 25.2 | 86.9 | 61.7 | 55.9 | 30.8 | 31.9 | 6.7 |
| Proposed Miles | Open to all use (OHV-Open) | - | - | - | 0.3 | 0.3 | 1.2 | 1.2 |
| | Limited to Ebikes & Non-Motorized use (OHV-Closed) | - | - | - | 0.7 | 0.7 | 0.7 | 0.7 |
| | Limited to non-motorized use (OHV-Closed) | - | 2.1 | 2.1 | 8.2 | 8.2 | 8.7 | 8.7 |
| | Unavailable (OHV-Closed) | 10.7 | 8.6 | -2.1 | 1.5 | -9.2 | - | -10.7 |
| Totals | | 202.40 | 202.40 | (0.00) | 202.40 | (0.00) | 202.40 | (0.00) |
| Mule Deer Crucial Habitat (215 miles; 29.3% of existing miles) | Open to all use (OHV-Open) | 88.8 | 31.7 | -57.2 | 33.5 | -55.3 | 39.1 | -49.8 |
| | Limited by vehicle type (OHV-Limited) | 0.3 | 13.0 | 12.8 | 19.7 | 19.5 | 24.9 | 24.7 |
| | Limited by seasonal restrictions (OHV-Limited) | 32.1 | 1.3 | -30.8 | 1.3 | -30.8 | 1.4 | -30.6 |
| | Limited to authorized users (OHV-Closed) | 3.6 | 21.8 | 18.2 | 36.4 | 32.8 | 44.9 | 41.3 |
| | Limited to Ebikes & Non-Motorized use (OHV-Closed) | 0.8 | - | -0.8 | 13.6 | 12.8 | 10.1 | 9.3 |

| | | Alt. A | Alt. B | | Alt. C | | Alt. D | |
|---|--|--------|--------|-----------------|--------|-----------------|--------|-----------------|
| Designation | | Miles | Miles | Change in Miles | Miles | Change in Miles | Miles | Change in Miles |
| | Limited to non-motorized use (OHV-Closed) | 53.9 | 18.5 | -35.3 | 25.2 | -28.7 | 25.2 | -28.7 |
| | Limited to non-mechanized use (OHV-Closed) | - | 5.6 | 5.6 | 0.3 | 0.3 | 0.5 | 0.5 |
| | Closed/Unavailable (OHV-Closed) | 16.0 | 103.5 | 87.5 | 65.5 | 49.4 | 49.3 | 33.3 |
| Proposed Miles | Open to all use (OHV-Open) | - | - | - | 0.2 | 0.2 | 0.2 | 0.2 |
| | Limited to authorized users (OHV-Closed) | - | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 |
| | Limited to Ebikes & Non-Motorized use (OHV-Closed) | - | - | - | 1.3 | 1.3 | 1.3 | 1.3 |
| | Limited to non-motorized use (OHV-Closed) | - | 2.1 | 2.1 | 13.8 | 13.8 | 17.7 | 17.7 |
| | Unavailable (OHV-Closed) | 19.5 | 17.2 | -2.3 | 3.9 | -15.6 | - | -19.5 |
| Totals | | 214.95 | 214.95 | 0.00 | 214.95 | 0.00 | 214.95 | - |
| Pronghorn Antelope Crucial Habitat (15.2 miles; 2.1% of existing miles) | Open to all use (OHV-Open) | 13.7 | 5.6 | -8.1 | 7.3 | -6.4 | 10.1 | -3.6 |
| | Limited to authorized users (OHV-Closed) | - | 1.2 | 1.2 | 2.7 | 2.7 | 2.6 | 2.6 |
| | Limited to non-motorized use (OHV-Closed) | 0.5 | 0.1 | -0.4 | 0.1 | -0.4 | 0.1 | -0.4 |
| | Limited to non-mechanized use (OHV-Closed) | - | 0.2 | 0.2 | 0.2 | 0.2 | 0.7 | 0.7 |
| | Closed/Unavailable (OHV-Closed) | 0.6 | 7.7 | 7.1 | 4.5 | 3.9 | 1.3 | 0.7 |
| Proposed Miles | Open to all use (OHV-Open) | - | - | - | 0.2 | 0.2 | 0.4 | 0.4 |
| | Unavailable (OHV-Closed) | 0.4 | 0.4 | - | 0.2 | -0.2 | - | -0.4 |
| Totals | | 15.17 | 15.17 | 0.00 | 15.17 | 0.00 | 15.17 | 0.00 |
| White-tailed Deer Crucial Habitat (83.8 miles; 11.4% of existing miles) | Open to all use (OHV-Open) | 22.4 | 14.0 | -8.4 | 16.5 | -5.9 | 20.5 | -1.9 |
| | Limited by vehicle type (OHV-Limited) | - | 6.4 | 6.4 | 6.4 | 6.4 | 8.1 | 8.1 |
| | Limited by seasonal restrictions (OHV-Limited) | 16.0 | - | -16.0 | - | -16.0 | 0.1 | -16.0 |

| | | Alt. A | Alt. B | | Alt. C | | Alt. D | |
|----------------|--|--------------|--------------|-----------------|--------------|-----------------|--------------|-----------------|
| Designation | | Miles | Miles | Change in Miles | Miles | Change in Miles | Miles | Change in Miles |
| | Limited to authorized users (OHV-Closed) | 13.0 | 22.6 | 9.6 | 22.5 | 9.5 | 21.2 | 8.2 |
| | Limited to Ebikes & Non-Motorized use (OHV-Closed) | 0.4 | - | -0.4 | 6.8 | 6.4 | 5.1 | 4.7 |
| | Limited to non-motorized use (OHV-Closed) | 10.4 | 7.1 | -3.3 | 4.7 | -5.7 | 4.8 | -5.6 |
| | Limited to non-mechanized use (OHV-Closed) | - | 1.1 | 1.1 | 1.2 | 1.2 | 1.2 | 1.2 |
| | Closed/Unavailable (OHV-Closed) | 20.8 | 31.8 | 11.0 | 24.9 | 4.1 | 22.1 | 1.3 |
| Proposed Miles | Open to all use (OHV-Open) | - | - | - | 0.1 | 0.1 | 0.1 | 0.1 |
| | Limited to Ebikes & Non-Motorized use (OHV-Closed) | - | - | - | 0.7 | 0.7 | 0.7 | 0.7 |
| | Unavailable (OHV-Closed) | 0.7 | 0.7 | - | - | -0.7 | - | -0.7 |
| Totals | | 83.80 | 83.80 | 0.00 | 83.80 | 0.00 | 83.80 | 0.00 |

1 **Table C.15: Miles of Evaluated Routes in or Proximate to Cultural Resources**

| | | Alt. A | Alt. B | | Alt. C | | Alt. D | |
|---|--|--------|--------|------------------|--------|------------------|--------|------------------|
| Designation | | Routes | Routes | Change in Routes | Routes | Change in Routes | Routes | Change in Routes |
| Known Cultural Sites (228 Routes; 31.1% of existing Routes) | Open to all use (OHV-Open) | 188 | 58 | -130 | 93 | -95 | 127 | -61 |
| | Limited by vehicle type (OHV-Limited) | - | 2 | +2 | 7 | +7 | 8 | +8 |
| | Limited by seasonal restrictions (OHV-Limited) | - | 5 | +5 | 5 | +5 | 6 | +6 |
| | Limited to authorized users (OHV-Closed) | 8 | 42 | +34 | 45 | +37 | 29 | +21 |
| | Limited to non-motorized use (OHV-Closed) | 17 | 5 | -12 | 6 | -11 | 6 | -11 |
| | Limited to non-mechanized use (OHV-Closed) | - | 3 | +3 | 4 | +4 | 3 | +3 |
| | Closed/Unavailable (OHV-Closed) | 13 | 111 | +98 | 66 | +53 | 47 | +34 |
| Proposed Routes | Limited to non-motorized use (OHV-Closed) | - | 1 | +1 | 2 | +2 | 2 | +2 |

| | | Alt. A | Alt. B | | Alt. C | | Alt. D | |
|---|---|--------|--------|------------------|--------|------------------|--------|------------------|
| Designation | | Routes | Routes | Change in Routes | Routes | Change in Routes | Routes | Change in Routes |
| | Unavailable (OHV-Closed) | 2 | 1 | -1 | - | -2 | - | -2 |
| Totals | | 228 | 228 | - | 228 | - | 228 | - |
| NRHP Eligible (134 Routes; 18.3% of existing Routes) | Open to all use (OHV-Open) | 106 | 37 | -69 | 55 | -51 | 76 | -30 |
| | Limited by vehicle type (OHV-Limited) | - | 2 | +2 | 2 | +2 | 2 | +2 |
| | Limited by seasonal restrictions (OHV-Limited) | - | 1 | +1 | 1 | +1 | 1 | +1 |
| | Limited to authorized users (OHV-Closed) | 5 | 24 | +19 | 27 | +22 | 18 | +13 |
| | Limited to non-motorized use (OHV-Closed) | 12 | 2 | -10 | 3 | -9 | 3 | -9 |
| | Limited to non-mechanized use (OHV-Closed) | - | 3 | +3 | 3 | +3 | 3 | +3 |
| | Closed/Unavailable (OHV- Closed) | 11 | 65 | +54 | 43 | +32 | 31 | +20 |
| Totals | | 134 | 134 | - | 134 | - | 134 | - |
| NRHP Unevaluated (101 Routes; 13.8% of existing Routes) | Open to all use (OHV-Open) | 86 | 22 | -64 | 39 | -47 | 53 | -33 |
| | Limited by vehicle type (OHV-Limited) | - | - | - | 6 | +6 | 7 | +7 |
| | Limited by seasonal restrictions (OHV-Limited) | - | 4 | +4 | 4 | +4 | 5 | +5 |
| | Limited to authorized users (OHV-Closed) | 3 | 16 | +13 | 18 | +15 | 13 | +10 |
| | Limited to non-motorized use (OHV-Closed) | 10 | 2 | -8 | 2 | -8 | 2 | -8 |
| | Limited to non-mechanized use (OHV-Closed) | - | - | - | 1 | +1 | - | - |
| | Closed/Unavailable (OHV- Closed) | - | 55 | +55 | 29 | +29 | 19 | +19 |
| Proposed Routes | Limited to non-motorized use (OHV-Closed) | - | 1 | +1 | 2 | +2 | 2 | +2 |
| | Unavailable (OHV-Closed) | 2 | 1 | -1 | - | -2 | - | -2 |
| Totals | | 101 | 101 | - | 101 | - | 101 | - |
| NRHP Not Eligible (25 | Open to all use (OHV-Open) | 19 | 4 | -15 | 6 | -13 | 10 | -9 |

| | | Alt. A | Alt. B | | Alt. C | | Alt. D | |
|---|--|--------|--------|------------------|--------|------------------|--------|------------------|
| Designation | | Routes | Routes | Change in Routes | Routes | Change in Routes | Routes | Change in Routes |
| Routes; 3.4% of existing Routes) | Limited by vehicle type (OHV-Limited) | - | - | - | 1 | +1 | 1 | +1 |
| | Limited by seasonal restrictions (OHV-Limited) | - | 2 | +2 | 2 | +2 | 2 | +2 |
| | Limited to authorized users (OHV-Closed) | - | 5 | +5 | 7 | +7 | 4 | +4 |
| | Limited to non-motorized use (OHV-Closed) | 2 | 1 | -1 | 1 | -1 | 1 | -1 |
| | Closed/Unavailable (OHV-Closed) | 3 | 12 | +9 | 7 | +4 | 6 | +3 |
| Proposed Routes | Limited to non-motorized use (OHV-Closed) | - | - | - | 1 | +1 | 1 | +1 |
| | Unavailable (OHV-Closed) | 1 | 1 | - | - | -1 | - | -1 |
| Totals | | 25 | 25 | - | 25 | - | 25 | - |
| High Probability for Cultural Resource (146 Routes; 19.9% of existing Routes) | Open to all use (OHV-Open) | 90 | 27 | -63 | 39 | -51 | 61 | -29 |
| | Limited by vehicle type (OHV-Limited) | - | - | - | 1 | +1 | 2 | +2 |
| | Limited by seasonal restrictions (OHV-Limited) | 7 | - | -7 | - | -7 | - | -7 |
| | Limited to authorized users (OHV-Closed) | 7 | 28 | +21 | 27 | +20 | 25 | +18 |
| | Limited to Ebikes & Non-Motorized use (OHV-Closed) | - | - | - | 3 | +3 | 1 | +1 |
| | Limited to non-motorized use (OHV-Closed) | 6 | 4 | -2 | 8 | +2 | 11 | +5 |
| | Limited to non-mechanized use (OHV-Closed) | - | 1 | +1 | 2 | +2 | - | - |
| Closed/Unavailable (OHV-Closed) | 33 | 83 | +50 | 63 | +30 | 43 | +10 | |
| Proposed Routes | Open to all use (OHV-Open) | - | - | - | 1 | +1 | 1 | +1 |
| | Limited to non-motorized use (OHV-Closed) | - | - | - | 1 | +1 | 2 | +2 |
| | Unavailable (OHV-Closed) | 3 | 3 | - | 1 | -2 | - | -3 |
| Totals | | 146 | 146 | - | 146 | - | 146 | - |
| Nez Perce National Historic | Open to all use (OHV-Open) | 80 | 17 | -63 | 28 | -52 | 53 | -27 |

| | | Alt. A | Alt. B | | Alt. C | | Alt. D | |
|--|---|--------|--------|------------------|--------|------------------|--------|------------------|
| Designation | | Routes | Routes | Change in Routes | Routes | Change in Routes | Routes | Change in Routes |
| Trail (81 Routes; 11% of existing Routes) | Limited by vehicle type (OHV-Limited) | - | - | - | 1 | +1 | - | - |
| | Limited to authorized users (OHV-Closed) | - | 19 | +19 | 21 | +21 | 8 | +8 |
| | Limited to non-motorized use (OHV-Closed) | - | 2 | +2 | 4 | +4 | 6 | +6 |
| | Closed/Unavailable (OHV-Closed) | 1 | 43 | +42 | 27 | +26 | 14 | +13 |
| Totals | | 81 | 81 | - | 81 | - | 81 | - |

1 **Table C.16: Miles of Evaluated Routes in ACECs**

| | | Alt. A | Alt. B | | Alt. C | | Alt. D | |
|---|--|--------|--------|-----------------|--------|-----------------|--------|-----------------|
| Designation | | Miles | Miles | Change in Miles | Miles | Change in Miles | Miles | Change in Miles |
| Henry's Lake ACEC (16.3 miles; 2.2% of existing miles) | Open to all use (OHV-Open) | 14.8 | 5.9 | -8.9 | 7.6 | -7.2 | 11.0 | -3.8 |
| | Limited by vehicle type (OHV-Limited) | - | - | - | 0.3 | 0.3 | - | - |
| | Limited to authorized users (OHV-Closed) | - | 1.5 | 1.5 | 3.0 | 3.0 | 2.7 | 2.7 |
| | Limited to non-motorized use (OHV-Closed) | 0.5 | 0.1 | -0.4 | 0.1 | -0.4 | 0.1 | -0.4 |
| | Limited to non-mechanized use (OHV-Closed) | - | 0.2 | 0.2 | 0.2 | 0.2 | 0.7 | 0.7 |
| | Closed/Unavailable (OHV-Closed) | 0.7 | 8.3 | 7.6 | 4.7 | 4.0 | 1.5 | 0.8 |
| Proposed Miles | Open to all use (OHV-Open) | - | - | - | 0.2 | 0.2 | 0.4 | 0.4 |
| | Unavailable (OHV-Closed) | 0.4 | 0.4 | - | 0.2 | -0.2 | - | -0.4 |
| Totals | | 16.31 | 16.31 | 0.00 | 16.31 | 0.00 | 16.31 | (0.00) |
| North Menan Butte ACEC (4.7 miles; 0.6% of existing miles) | Open to all use (OHV-Open) | 0.0 | 0.0 | - | 0.0 | - | 0.0 | - |
| | Limited to authorized users (OHV-Closed) | 1.1 | 0.9 | -0.1 | 0.9 | -0.1 | 0.9 | -0.1 |
| | Limited to non-motorized use (OHV-Closed) | 1.6 | - | -1.6 | 1.8 | 0.1 | 2.2 | 0.6 |

| | | Alt. A | Alt. B | | Alt. C | | Alt. D | |
|--|--|--------|--------|-----------------|--------|-----------------|--------|-----------------|
| Designation | | Miles | Miles | Change in Miles | Miles | Change in Miles | Miles | Change in Miles |
| | Limited to non-mechanized use (OHV-Closed) | - | 1.6 | 1.6 | 0.5 | 0.5 | - | - |
| | Closed/Unavailable (OHV-Closed) | 2.0 | 2.1 | 0.1 | 1.5 | -0.5 | 1.5 | -0.5 |
| Totals | | 4.72 | 4.72 | - | 4.72 | (0.00) | 4.72 | 0.00 |
| Snake River ACEC (142.6 miles; 19.4% of existing miles) | Open to all use (OHV-Open) | 54.2 | 26.5 | -27.7 | 29.9 | -24.3 | 37.0 | -17.1 |
| | Limited by vehicle type (OHV-Limited) | 1.8 | 7.6 | 5.8 | 7.6 | 5.8 | 9.9 | 8.1 |
| | Limited by seasonal restrictions (OHV-Limited) | 16.0 | 0.5 | -15.5 | 0.5 | -15.5 | 0.1 | -16.0 |
| | Limited to authorized users (OHV-Closed) | 20.4 | 32.7 | 12.4 | 37.4 | 17.0 | 34.9 | 14.6 |
| | Limited to Ebikes & Non-Motorized use (OHV-Closed) | 0.4 | - | -0.4 | 6.8 | 6.4 | 5.1 | 4.7 |
| | Limited to non-motorized use (OHV-Closed) | 21.6 | 22.0 | 0.4 | 22.1 | 0.5 | 21.6 | 0.0 |
| | Limited to non-mechanized use (OHV-Closed) | - | 1.2 | 1.2 | 1.2 | 1.2 | 1.2 | 1.2 |
| | Closed/Unavailable (OHV-Closed) | 27.2 | 51.1 | 23.9 | 36.1 | 8.9 | 31.7 | 4.5 |
| Proposed Miles | Open to all use (OHV-Open) | - | - | - | 0.3 | 0.3 | 0.3 | 0.3 |
| | Limited to Ebikes & Non-Motorized use (OHV-Closed) | - | - | - | 0.7 | 0.7 | 0.7 | 0.7 |
| | Unavailable (OHV-Closed) | 1.0 | 1.0 | - | - | -1.0 | - | -1.0 |
| Totals | | 142.56 | 142.56 | (0.00) | 142.56 | (0.00) | 142.56 | (0.00) |

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1 **Table C.17: Miles of Evaluated Routes in Henry's Lake WSA**

| | Designation | Alt. A | Alt. B | | Alt. C | | Alt. D | |
|---|--|--------|--------|-----------------|--------|-----------------|--------|-----------------|
| | | Miles | Miles | Change in Miles | Miles | Change in Miles | Miles | Change in Miles |
| Henry's Lake WSA (0.9 miles; 0.1% of existing miles) | Open to all use (OHV-Open) | 0.5 | - | -0.5 | - | -0.5 | - | -0.5 |
| | Limited to non-motorized use (OHV-Closed) | 0.4 | 0.1 | -0.4 | 0.1 | -0.4 | 0.1 | -0.4 |
| | Limited to non-mechanized use (OHV-Closed) | - | 0.2 | 0.2 | 0.2 | 0.2 | 0.7 | 0.7 |
| | Closed/Unavailable (OHV-Closed) | - | 0.7 | 0.7 | 0.7 | 0.7 | 0.2 | 0.2 |
| Totals | | 0.90 | 0.90 | - | 0.90 | - | 0.90 | 0.00 |

2 **Table C.18: Miles of Evaluated Routes in North Menan Butte RNA**

| | Designation | Alt. A | Alt. B | | Alt. C | | Alt. D | |
|--|--|--------|--------|-----------------|--------|-----------------|--------|-----------------|
| | | Miles | Miles | Change in Miles | Miles | Change in Miles | Miles | Change in Miles |
| North Menan Butte RNA (3.2 miles; 0.4% of existing miles) | Limited to authorized users (OHV-Closed) | 0.2 | 0.2 | - | 0.2 | - | 0.2 | - |
| | Limited to non-motorized use (OHV-Closed) | 1.7 | - | -1.7 | 1.7 | - | 2.1 | 0.4 |
| | Limited to non-mechanized use (OHV-Closed) | - | 1.7 | 1.7 | 0.4 | 0.4 | - | - |
| | Closed/Unavailable (OHV-Closed) | 1.3 | 1.3 | - | 0.9 | -0.4 | 0.9 | -0.4 |
| Totals | | 3.15 | 3.15 | - | 3.15 | (0.00) | 3.15 | (0.00) |

3 **Table C.19: Miles of Evaluated Routes in VRI Classes I and II**

| | Designation | Alt. A | Alt. B | | Alt. C | | Alt. D | |
|---|--|--------|--------|-----------------|--------|-----------------|--------|-----------------|
| | | Miles | Miles | Change in Miles | Miles | Change in Miles | Miles | Change in Miles |
| VRI Class I (0.9 miles; 0.1% of existing miles) | Open to all use (OHV-Open) | 0.5 | - | -0.5 | - | -0.5 | - | -0.5 |
| | Limited to non-motorized use (OHV-Closed) | 0.4 | 0.1 | -0.4 | 0.1 | -0.4 | 0.1 | -0.4 |
| | Limited to non-mechanized use (OHV-Closed) | - | 0.2 | 0.2 | 0.2 | 0.2 | 0.7 | 0.7 |
| | Closed/Unavailable (OHV-Closed) | - | 0.6 | 0.6 | 0.6 | 0.6 | 0.2 | 0.2 |

| | | Alt. A | Alt. B | | Alt. C | | Alt. D | |
|---|--|--------|--------|-----------------|--------|-----------------|--------|-----------------|
| Designation | | Miles | Miles | Change in Miles | Miles | Change in Miles | Miles | Change in Miles |
| Totals | | 0.91 | 0.91 | (0.00) | 0.91 | (0.00) | 0.91 | (0.00) |
| VRI Class II (216.1 miles; 29.5% of existing miles) | Open to all use (OHV-Open) | 116.8 | 37.9 | -79.0 | 44.6 | -72.2 | 57.7 | -59.1 |
| | Limited by vehicle type (OHV-Limited) | 1.8 | 8.1 | 6.3 | 15.3 | 13.4 | 25.3 | 23.4 |
| | Limited by seasonal restrictions (OHV-Limited) | 16.0 | 1.0 | -15.0 | 1.0 | -15.0 | 0.1 | -16.0 |
| | Limited to authorized users (OHV-Closed) | 20.2 | 38.3 | 18.2 | 46.4 | 26.2 | 45.2 | 25.0 |
| | Limited to Ebikes & Non-Motorized use (OHV-Closed) | 0.4 | - | -0.4 | 6.8 | 6.4 | 5.1 | 4.7 |
| | Limited to non-motorized use (OHV-Closed) | 21.0 | 33.3 | 12.2 | 37.7 | 16.7 | 34.8 | 13.7 |
| | Limited to non-mechanized use (OHV-Closed) | - | 6.7 | 6.7 | 1.2 | 1.2 | 1.5 | 1.5 |
| | Closed/Unavailable (OHV-Closed) | 29.0 | 80.0 | 51.0 | 52.2 | 23.2 | 35.8 | 6.9 |
| Proposed Miles | Open to all use (OHV-Open) | - | - | - | 0.5 | 0.5 | 0.7 | 0.7 |
| | Limited by seasonal restrictions (OHV-Limited) | - | 0.1 | 0.1 | 0.1 | 0.1 | - | - |
| | Limited to authorized users (OHV-Closed) | - | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 |
| | Limited to Ebikes & Non-Motorized use (OHV-Closed) | - | - | - | 0.7 | 0.7 | 0.7 | 0.7 |
| | Limited to non-motorized use (OHV-Closed) | - | 2.5 | 2.5 | 8.6 | 8.6 | 9.1 | 9.1 |
| | Unavailable (OHV-Closed) | 10.7 | 8.0 | -2.8 | 0.7 | -10.0 | - | -10.7 |
| Totals | | 216.05 | 216.05 | (0.00) | 216.05 | (0.00) | 216.05 | (0.00) |

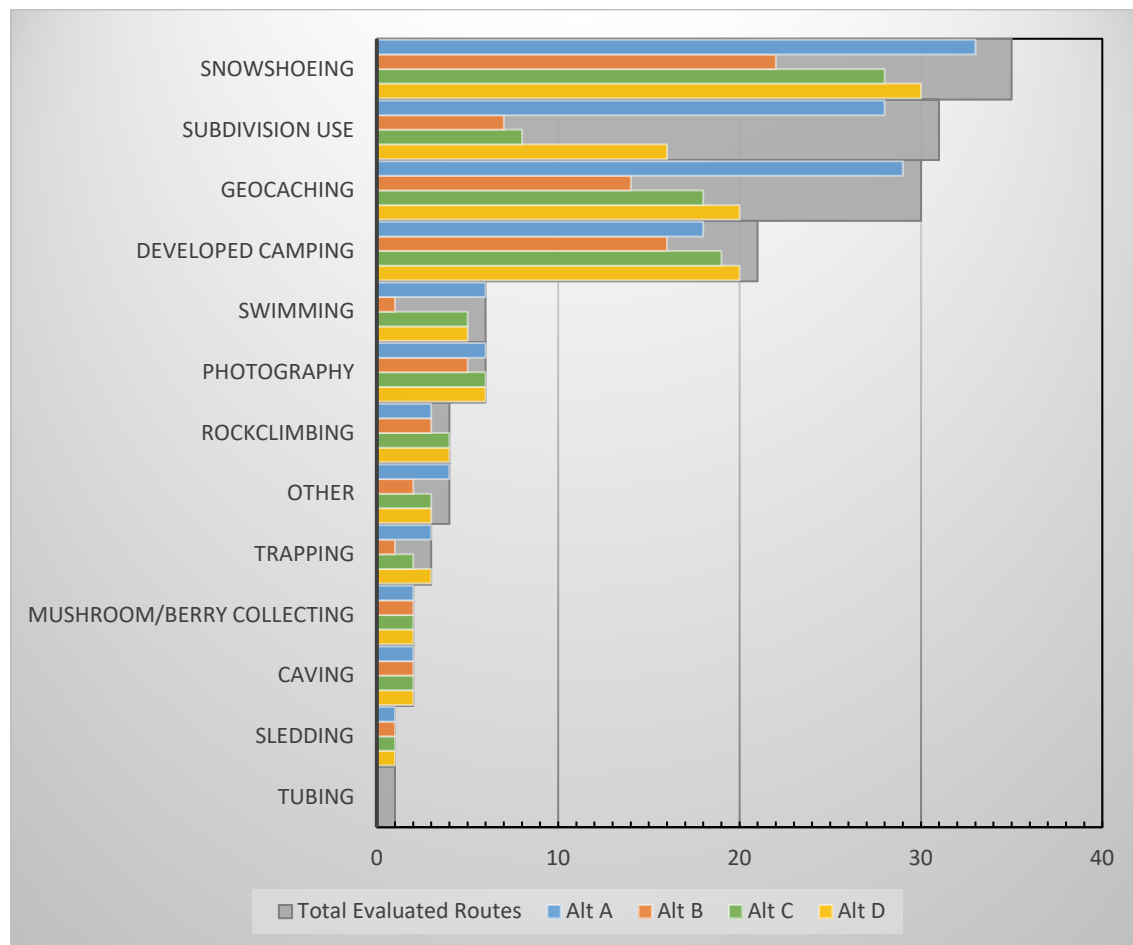
1 **Table C.20: Miles of Evaluated Routes in VRM Classes I and II**

| | | Alt. A | Alt. B | | Alt. C | | Alt. D | |
|-------------|----------------------------|--------|--------|-----------------|--------|-----------------|--------|-----------------|
| Designation | | Miles | Miles | Change in Miles | Miles | Change in Miles | Miles | Change in Miles |
| | Open to all use (OHV-Open) | 11.5 | 3.3 | -8.2 | 3.3 | -8.2 | 4.5 | -7.0 |

| | | Alt. A | Alt. B | | Alt. C | | Alt. D | |
|---|--|--------|--------|-----------------|--------|-----------------|--------|-----------------|
| Designation | | Miles | Miles | Change in Miles | Miles | Change in Miles | Miles | Change in Miles |
| VRM Class I (23.3 miles; 3.2% of existing miles) | Limited by vehicle type (OHV-Limited) | 1.8 | 1.3 | -0.6 | 1.3 | -0.6 | 1.8 | - |
| | Limited by seasonal restrictions (OHV-Limited) | - | 0.5 | 0.5 | 0.5 | 0.5 | - | - |
| | Limited to authorized users (OHV-Closed) | 6.9 | 6.8 | -0.1 | 13.1 | 6.2 | 14.0 | 7.1 |
| | Limited to non-motorized use (OHV-Closed) | 0.7 | 0.6 | -0.0 | 0.6 | -0.0 | 0.1 | -0.6 |
| | Limited to non-mechanized use (OHV-Closed) | - | 0.2 | 0.2 | 0.2 | 0.2 | 0.7 | 0.7 |
| | Closed/Unavailable (OHV-Closed) | 2.3 | 10.5 | 8.3 | 4.3 | 2.0 | 2.2 | -0.1 |
| Totals | | 23.28 | 23.28 | (0.00) | 23.28 | (0.00) | 23.28 | (0.00) |
| VRM Class II (497.9 miles; 67.9% of existing miles) | Open to all use (OHV-Open) | 417.9 | 152.3 | -265.6 | 191.2 | -226.7 | 277.1 | -140.8 |
| | Limited by vehicle type (OHV-Limited) | - | 2.1 | 2.1 | 13.9 | 13.9 | 17.4 | 17.4 |
| | Limited by seasonal restrictions (OHV-Limited) | 2.7 | 9.9 | 7.2 | 11.2 | 8.6 | 17.5 | 14.8 |
| | Limited to authorized users (OHV-Closed) | 3.7 | 60.2 | 56.5 | 71.9 | 68.2 | 58.1 | 54.4 |
| | Limited to Ebikes & Non-Motorized use (OHV-Closed) | - | - | - | 2.0 | 2.0 | 1.0 | 1.0 |
| | Limited to non-motorized use (OHV-Closed) | 30.1 | 13.7 | -16.4 | 33.7 | 3.7 | 33.9 | 3.9 |
| | Limited to non-mechanized use (OHV-Closed) | - | 9.0 | 9.0 | 0.9 | 0.9 | 0.0 | 0.0 |
| | Closed/Unavailable (OHV-Closed) | 25.5 | 232.6 | 207.2 | 154.9 | 129.5 | 74.8 | 49.3 |
| Proposed Miles | Open to all use (OHV-Open) | - | - | - | 0.3 | 0.3 | 1.4 | 1.4 |
| | Limited to Ebikes & Non-Motorized use (OHV-Closed) | - | - | - | 0.7 | 0.7 | 0.7 | 0.7 |
| | Limited to non-motorized use (OHV-Closed) | - | 2.7 | 2.7 | 15.5 | 15.5 | 16.1 | 16.1 |

| Designation | Alt. A | Alt. B | | Alt. C | | Alt. D | |
|--------------------------|--------|--------|-----------------|--------|-----------------|--------|-----------------|
| | Miles | Miles | Change in Miles | Miles | Change in Miles | Miles | Change in Miles |
| Unavailable (OHV-Closed) | 18.1 | 15.4 | -2.7 | 1.7 | -16.5 | - | -18.1 |
| Totals | 497.94 | 497.94 | (0.00) | 497.94 | (0.00) | 497.94 | (0.00) |

1 **Figure C. 1: Number of Evaluated Routes Providing Access for “Other”⁸ Recreation Activities**



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⁸ See section 3.3.1, Recreation.

1 **Table C.21: Number of Evaluated Routes Providing Primary Access to Recreation Destinations**

| Designation | Alt. A | Alt. B | | Alt. C | | Alt. D | | |
|--|--|--------|------------------|--------|------------------|--------|------------------|----|
| | Routes | Routes | Change in Routes | Routes | Change in Routes | Routes | Change in Routes | |
| Recreation Destinations (59 Routes; 8% of existing Routes) | Open to all use (OHV-Open) | 45 | 36 | -9 | 42 | -3 | 43 | -2 |
| | Limited by vehicle type (OHV-Limited) | - | - | - | - | - | 1 | +1 |
| | Limited by seasonal restrictions (OHV-Limited) | 1 | - | -1 | - | -1 | - | -1 |
| | Limited to authorized users (OHV-Closed) | 1 | 2 | +1 | 2 | +1 | 2 | +1 |
| | Limited to non-motorized use (OHV-Closed) | 4 | 3 | -1 | 6 | +2 | 6 | +2 |
| | Limited to non-mechanized use (OHV-Closed) | - | 3 | +3 | 3 | +3 | 2 | +2 |
| | Closed/Unavailable (OHV-Closed) | 5 | 12 | +7 | 3 | -2 | 2 | -3 |
| Proposed Routes | Open to all use (OHV-Open) | - | - | - | 2 | +2 | 3 | +3 |
| | Unavailable (OHV-Closed) | 3 | 3 | - | 1 | -2 | - | -3 |
| Totals | 59 | 59 | - | 59 | - | 59 | - | |

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1 **Table C.22: Miles of Evaluated Routes Accessing the Snake River SRMA**

| Designation | Alt. A | Alt. B | | Alt. C | | Alt. D | | |
|---|--|--------|-----------------|--------|-----------------|--------|-----------------|-------|
| | Miles | Miles | Change in Miles | Miles | Change in Miles | Miles | Change in Miles | |
| Snake River SRMA (150.4 miles; 20.5% of existing miles) | Open to all use (OHV-Open) | 54.2 | 26.5 | -27.7 | 29.9 | -24.3 | 37.1 | -17.1 |
| | Limited by vehicle type (OHV-Limited) | 1.8 | 7.6 | 5.8 | 7.6 | 5.8 | 9.9 | 8.1 |
| | Limited by seasonal restrictions (OHV-Limited) | 16.0 | 0.5 | -15.5 | 0.5 | -15.5 | 0.1 | -16.0 |
| | Limited to authorized users (OHV-Closed) | 21.6 | 33.9 | 12.3 | 38.5 | 16.9 | 36.0 | 14.4 |
| | Limited to Ebikes & Non-Motorized use (OHV-Closed) | 0.4 | - | -0.4 | 6.8 | 6.4 | 5.1 | 4.7 |
| | Limited to non-motorized use (OHV-Closed) | 24.9 | 22.0 | -2.9 | 25.6 | 0.6 | 26.0 | 1.0 |
| | Limited to non-mechanized use (OHV-Closed) | - | 4.5 | 4.5 | 2.1 | 2.1 | 1.2 | 1.2 |
| | Closed/Unavailable (OHV-Closed) | 30.5 | 54.5 | 24.0 | 38.4 | 8.0 | 34.1 | 3.6 |
| Proposed Miles | Open to all use (OHV-Open) | - | - | - | 0.3 | 0.3 | 0.3 | 0.3 |
| | Limited to Ebikes & Non-Motorized use (OHV-Closed) | - | - | - | 0.7 | 0.7 | 0.7 | 0.7 |
| | Unavailable (OHV-Closed) | 1.0 | 1.0 | - | - | -1.0 | - | -1.0 |
| Totals | 150.43 | 150.43 | (0.00) | 150.43 | (0.00) | 150.43 | (0.00) | |

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1 **Table C.23: Number of Evaluated Routes Providing Primary Access to Mineral Materials Sites and Gravel**
 2 **Pits**

| | Designation | Alt. A | Alt. B | | Alt. C | | Alt. D | |
|---|--|--------|--------|------------------|--------|------------------|--------|------------------|
| | | Routes | Routes | Change in Routes | Routes | Change in Routes | Routes | Change in Routes |
| Mineral Materials Site (21 Routes; 2.9% of existing Routes) | Open to all use (OHV-Open) | 16 | 8 | -8 | 13 | -3 | 15 | -1 |
| | Limited to authorized users (OHV-Closed) | - | 7 | +7 | 4 | +4 | 5 | +5 |
| | Closed/Unavailable (OHV-Closed) | 5 | 6 | +1 | 4 | -1 | 1 | -4 |
| Totals | | 21 | 21 | - | 21 | - | 21 | - |
| Gravel Pit (4 Routes; 0.5% of existing Routes) | Open to all use (OHV-Open) | - | - | - | - | - | 2 | +2 |
| | Limited to authorized users (OHV-Closed) | - | 2 | +2 | 2 | +2 | 1 | +1 |
| | Closed/Unavailable (OHV-Closed) | 4 | 2 | -2 | 2 | -2 | 1 | -3 |
| Totals | | 4 | 4 | - | 4 | - | 4 | - |

3 **Table C.24: Number of Evaluated Routes Providing Primary Access for ROWs**

| | Designation | Alt. A | Alt. B | | Alt. C | | Alt. D | |
|---|--|--------|--------|------------------|--------|------------------|--------|------------------|
| | | Routes | Routes | Change in Routes | Routes | Change in Routes | Routes | Change in Routes |
| ROWs (273 Routes; 37.2% of existing Routes) | Open to all use (OHV-Open) | 239 | 124 | -115 | 144 | -95 | 177 | -62 |
| | Limited by vehicle type (OHV-Limited) | 2 | 6 | +4 | 7 | +5 | 6 | +4 |
| | Limited by seasonal restrictions (OHV-Limited) | - | 2 | +2 | 2 | +2 | 3 | +3 |
| | Limited to authorized users (OHV-Closed) | 11 | 97 | +86 | 90 | +79 | 73 | +62 |
| | Limited to non-motorized use (OHV-Closed) | 5 | 8 | +3 | 13 | +8 | 9 | +4 |
| | Limited to non-mechanized use (OHV-Closed) | - | 1 | +1 | 1 | +1 | 1 | +1 |
| | Closed/Unavailable (OHV-Closed) | 16 | 35 | +19 | 16 | - | 4 | -12 |
| Totals | | 273 | 273 | - | 273 | - | 273 | - |

1 **Table C.25: Number of Evaluated Routes Providing Primary Access for Grazing Allotments and Range**
 2 **Facilities and Improvements**

| | | Alt. A | Alt. B | | Alt. C | | Alt. D | |
|---|--|------------|------------|------------------|------------|------------------|------------|------------------|
| Designation | | Routes | Routes | Change in Routes | Routes | Change in Routes | Routes | Change in Routes |
| Active Allotments (440 Routes; 60% of existing Routes) | Open to all use (OHV-Open) | 406 | 124 | -282 | 180 | -226 | 279 | -127 |
| | Limited by vehicle type (OHV-Limited) | - | 4 | +4 | 6 | +6 | 7 | +7 |
| | Limited by seasonal restrictions (OHV-Limited) | 4 | 6 | +2 | 6 | +2 | 9 | +5 |
| | Limited to authorized users (OHV-Closed) | 2 | 65 | +63 | 88 | +86 | 69 | +67 |
| | Limited to non-motorized use (OHV-Closed) | 10 | 3 | -7 | 8 | -2 | 3 | -7 |
| | Closed/Unavailable (OHV-Closed) | 16 | 236 | +220 | 150 | +134 | 71 | +55 |
| Proposed Routes | Limited to non-motorized use (OHV-Closed) | - | 1 | +1 | 2 | +2 | 2 | +2 |
| | Unavailable (OHV-Closed) | 2 | 1 | -1 | - | -2 | - | -2 |
| Totals | | 440 | 440 | - | 440 | - | 440 | - |
| Range Facilities or Improvements (431 Routes; 58.8% of existing Routes) | Open to all use (OHV-Open) | 388 | 112 | -276 | 158 | -230 | 254 | -134 |
| | Limited by vehicle type (OHV-Limited) | 1 | 5 | +4 | 13 | +12 | 16 | +15 |
| | Limited by seasonal restrictions (OHV-Limited) | 4 | 5 | +1 | 7 | +3 | 12 | +8 |
| | Limited to authorized users (OHV-Closed) | 1 | 81 | +80 | 101 | +100 | 80 | +79 |
| | Limited to non-motorized use (OHV-Closed) | 17 | 7 | -10 | 14 | -3 | 11 | -6 |
| | Limited to non-mechanized use (OHV-Closed) | - | 1 | +1 | - | - | - | - |
| | Closed/Unavailable (OHV-Closed) | 18 | 218 | +200 | 136 | +118 | 56 | +38 |
| Proposed Routes | Limited to non-motorized use (OHV-Closed) | - | - | - | 2 | +2 | 2 | +2 |
| | Unavailable (OHV-Closed) | 2 | 2 | - | - | -2 | - | -2 |

| | | | | | | | |
|---------------|-----|-----|---|-----|---|-----|---|
| Totals | 431 | 431 | - | 431 | - | 431 | - |
|---------------|-----|-----|---|-----|---|-----|---|

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Appendix D. Policies, Statutes, and Guidance

In addition to the management plans and policies listed in section 1.5, this project also adheres to the following:

- 43 CFR Part 8340: Off-Road Vehicles
- 43 CFR 8342.1, Designation Criteria, Subparts 8340-8342.3, which states:

“The authorized officer shall designate all public lands as either open, limited, or closed to off-road vehicles. All designations shall be based on the protection of the resources of the public lands, the promotion of the safety of all the users of the public lands, and the minimization of conflicts among various uses of the public lands; and in accordance with the following criteria:

(a) Areas and trails shall be located to minimize damage to soil, watershed, vegetation, air, or other resources of the public lands, and to prevent impairment of wilderness suitability.

(b) Areas and trails shall be located to minimize harassment of wildlife or significant disruption of wildlife habitats. Special attention will be given to protect endangered or threatened species and their habitats.

(c) Areas and trails shall be located to minimize conflicts between off-road vehicle use and other existing or proposed recreational uses of the same or neighboring public lands, and to ensure the compatibility of such uses with existing conditions in populated areas, taking into account noise and other factors.

(d) Areas and trails shall not be located in officially designated wilderness areas or primitive areas. Areas and trails shall be located in natural areas only if the authorized officer determines that off-road vehicle use in such locations will not adversely affect their natural, esthetic, scenic, or other values for which such areas are established.” (GPO 2001)

- 43 CFR 8364.1: Closures and Restrictions
- BLM’s Travel and Transportation Management Manual MS-1626,
- BLM’s 2001 National Management Strategy for Motorized Off-Highway Vehicle Use on Public Lands
- BLM’s 2008 National Environmental Policy Act Handbook (H-1790-1)
- BLM’s 2012 Travel and Transportation Handbook (H-8342)
- BLM’s 2015 Special Status Species Policy
- 2009 Range-Wide Conservation Strategy and Agreement for Yellowstone Cutthroat Trout
- Federal Land Policy and Management Act (FLPMA)

Table D0-1: Travel Management Considerations from the 2009 AMS

**2009 AMS Management Options
and Considerations for
Comprehensive Travel
Management**

| Current Management Direction from 1985 Medicine Lodge RMP | Decision Status, Responsiveness and Adequacy | Options for Change from 2009 AMS |
|--|---|---|
| <p>MA 3 – Camas Creek: No restrictions noted.</p> <p>MA 4 – Scattered Tracts: 350-acre closure in place near Henry’s Lake; seasonal closures near Monida Pass. Also, Game Creek RNA excludes ORV traffic.</p> <p>MA 5 – Sands: No restrictions noted within the East TMA.</p> <p>MA 8 – Willow Creek / Tex Creek: 8,290 acres were left open to OHV use, seasonal closures on 3,355 acres, and closures on 3,200 acres. 6,485 acres were designated as “semi-primitive non-motorized.”</p> <p>MA 9 – Snake River: Provisions for ORV use were supplanted by the Snake River Activity Plan [2008b]. The OHV guidance from that plan should carry forward in the RMP.</p> <p>One mile on the lower end of Kelly Canyon will be managed to improve water quality and 1 mi managed to maintain existing satisfactory riparian habitat and water quality. The improvement will be through grazing management and reseeding of eroded areas. ORV use will be controlled to further improve water quality.</p> <p>Man-caused soil erosion will be reduced to not more than 2 ½ tons/acre/year through seeding, ORV management, and grazing management.</p> <p>About 1,191 acres will be managed for general ORV use while the balance of the area will be either closed to ORVs (6,020 acres) or restricted to existing roads and trails. About 8,320 acres of the area will be managed as semi primitive non-motorized.</p> | <p>Status: Completed, 2001. Closure is for OHVs and snow machines. Administrative use is only exception for BLM, permittees, state and federal agencies.</p> <p>Responsive to Issues: No</p> <p>Adequacy: Adequate. 2001 Federal Register notices implemented several recommended closures or seasonal restrictions noted in the Big Desert MFP, Medicine Lodge RMP, and associated activity level plans. Except where revised in the Snake River Plan, these closures and restrictions should carry forward into the new RMP.</p> | <p>Consider direction identifying TMAs and priorities for completing implementation-level travel management planning.</p> <p>Consider designations across the field office for “limited to existing roads/trails,” or “limited to designated roads/trails.”</p> |
| <p>Travel planning, including the designation of areas open, restricted, and closed to motorized vehicle access will remain a high priority for public land. Public land within areas identified as open to motorized</p> | <p>Decision Status: Ongoing. Travel management planning not completed to date, only the ROD for the Snake River Activity/Operations Plan [BLM 2008b] closed certain areas.</p> | <p>Consider bringing forward travel management guidance from the ROD for the Snake River Activity/Operations Plan.</p> <p>Consider direction identifying TMAs and priorities for</p> |

| | | |
|--|--|---|
| <p>vehicle use generally will remain available for such use without restrictions. Exceptions to this general rule may be authorized after consideration of the following criteria:</p> <ul style="list-style-type: none"> • the need to promote user enjoyment and minimize use conflicts; • the need to minimize damage to soil, watershed, vegetation, or other resource values; • the need to minimize harassment of wildlife or significant degradation of wildlife habitats; and • the need to promote user safety. <p>Public land within areas identified as restricted to motorized vehicle use generally will receive priority attention during travel planning. Specific roads, trails or portions of such areas may be closed seasonally or yearlong to all or specified types of motorized vehicle use.</p> <p>Public land within areas identified as closed to motorized vehicle use will be closed yearlong to all forms of motorized vehicle use except emergency or authorized vehicles. Exceptions may be allowed in WSAs based on application of the Interim Management Policy. Restrictions and closures will be established for specific roads, trails, or areas only where problems have been identified. Areas not designated as restricted or closed will remain open for motorized vehicle use.</p> | <p>Decision Responsive to Issues: No</p> <p>Adequacy: Not adequate. Implementation-level travel management planning will specifically address OHV usage and consider public proposals.</p> | <p>completing implementation-level travel management planning. Consider designations across the field office for “limited to existing roads/trails,” or “limited to designated roads/trails.”</p> |
|--|--|---|

1 Appendix E. Interdisciplinary Team Checklist

| <i>Resources Considered in the Impact Analysis*.</i> | | | | |
|---|-------------|----------------------|------------------|--|
| Resource | Not Present | Present Not Impacted | Present Impacted | Rationale |
| Access | | X | | Access obtained through an authorization or valid existing right would not be impacted by the direction in Alternatives. |

| <i>Resources Considered in the Impact Analysis*.</i> | | | | |
|---|-------------|----------------------|------------------|---|
| Resource | Not Present | Present Not Impacted | Present Impacted | Rationale |
| Air Quality, Greenhouse Gas Emissions, and Climate Change | | X | | <p>Use of routes designated as open or limited would continue to contribute to negligible amounts of vehicle emissions and particulates (fugitive dust). Further analysis of this resource is not warranted.</p> <p>Vehicles travelling on designated routes have the potential to emit criteria air pollutants (NO_x, SO_x, CO, PM₁₀, and PM_{2.5}) and greenhouse gases (CO₂, CH₄, and N₂O). Pollutants come from tailpipe emissions and fugitive dust resulting from vehicle disturbance and wind erosion of soil. Greenhouse gas emissions primarily come from vehicle tailpipes. Under all alternatives, air pollutants and greenhouse gas emissions are anticipated to be equal to, or less than, current levels because the number of miles open to OHV travel would be the same, or less than, under the No Action Alternative. Therefore, the impacts on climate change due to greenhouse gas emissions would be the same, or less than, the current impacts.</p> <p>No increase in visitors is expected from implementation of the Proposed Action. An overall gradual increase in visitors in the entire Project Area is expected because that has been the trend in recent decades. However, that increase in visitation is not directly or indirectly tied to implementation of the Proposed Action. While the TMP determines which routes would be open to motorized use, it has no authority over the level of motorized use within the Project Area. Therefore, impacts from greenhouse gases, climate change, and air pollutants will not be discussed further in this EA.</p> |

| Resources Considered in the Impact Analysis*. | | | | |
|--|-------------|----------------------|-------------------|--|
| Resource | Not Present | Present Not Impacted | Present Impacted | Rationale |
| Areas of Critical Environmental Concern (ACECs) | | | X | The Henry's Lake ACEC, Game Creek RNA, North Menan Butte ACEC and RNA, and portions of the Snake River ACEC are located within the boundaries of the TMA. Impacts are disclosed under Special Designations. Note: the 2009 AMS provides sufficient information to serve as the affected environment for all five designations. |
| Cultural Resource | | | X | NHPA Section 106 process is ongoing and results are pending currently. Potential project effects to historic properties and proposed avoidance, minimization or mitigation determinations will be negotiated in accordance with NHPA, BLM-Idaho SHPO Protocol, BLM Manual Series 8100, etc., until the Section 106 process is satisfactorily concluded. There is potential for the project to impact historic properties. |
| Economic and Social Values | | | X | The route designation could impact non-market values such as natural resources and local economies. |
| Environmental Justice | | X | | The Alternatives identified in the Travel Management Plan do not close, open, or create new routes that impact environmental justice communities. See Background: Environmental Justice and Socioeconomics section in this appendix for additional information. |
| Existing and Potential Land Uses | | X | | Existing Land Use Authorizations and other authorized uses would not be impacted by the Alternatives. |
| Fisheries | | | Present, Impacted | General fisheries resources are present in the TMA. General fisheries resources are comprised of native and non-native sport fish, primarily trout, and other native non-game species. General fisheries resources may be impacted by roads in close proximity to rivers, streams, and lacustrine habitats. Routes which cross streams and rivers can also impact habitat and fish passage. The potential impacts are described under Fisheries Resources. |
| Floodplains | | | X | Impacts are disclosed under Aquatic Resources. |

| Resources Considered in the Impact Analysis*. | | | | |
|--|-------------|----------------------|-------------------|--|
| Resource | Not Present | Present Not Impacted | Present Impacted | Rationale |
| Forest Resources | | X | | Forest resource may be present in areas where trails and roads are present. However, existing trails will not impact the health of the forest resource. Furthermore, for any forestry related use (Log trucks, heavy equipment) access will be obtained through an authorization related to forest treatment (NEPA and contract). Any road or trails created or used will be rehabbed and removed unless otherwise analyzed in a separate NEPA document. |
| Invasive, Non-Native Species | | | Present, Impacted | Beneficial impacts are anticipated for all action alternatives compared to current management due to proposed reduction of open OHV routes which results in less potential for invasive plant spread |
| Lands with Wilderness Characteristics (LWC) | X | | | |
| Mineral Resources | | X | | Mineral resources are present in the East TMA but would not be impacted. |
| Migratory Birds | | | Present, Impacted | Beneficial Impacts are anticipated for all action alternatives compared to current management due to the proposed reduction of open OHV routes in occupied habitats. |
| Native American Religious Concerns | X | | | There are no Traditional Cultural Properties or known places of cultural significance in the East TMA. |
| Paleontological Resources | X | | | There are no known paleontological localities in the East TMA. |
| Prime and Unique Farmlands | | X | | U.S. Department of Agriculture designated prime or unique farmlands are present in the Project Area, however none occur on BLM- managed lands. If farmlands occur adjacent to BLM-administered lands, in the long-term designation of travel routes would benefit such lands if access across BLM-administered lands is necessary. Further analysis of this resource is not warranted. |
| Soil Resources | | | Present, Impacted | Impacts are disclosed under Environmental Consequences |
| Threatened, Endangered, and Sensitive Plants | | | Present, Impacted | Beneficial impacts are anticipated for all action alternatives compared to current management due to proposed reduction of open OHV routes in occupied habitats |
| Threatened, Endangered, and Sensitive Animals | | | Present, Impacted | Beneficial Impacts are anticipated for all action alternatives compared to current management due to the proposed reduction of open OHV routes in occupied habitats. |

| Resources Considered in the Impact Analysis*. | | | | |
|--|-------------|----------------------|-------------------|--|
| Resource | Not Present | Present Not Impacted | Present Impacted | Rationale |
| Threatened, Endangered, and Sensitive Fish | | | Present, Impacted | There are no ESA listed fish species or designated critical habitat within the TMA. No effects to ESA listed fish species would occur. BLM designated sensitive fish species, including Yellowstone cutthroat trout (YCT) are regarded as a regional conservation priority and are widely distributed in the TMA. Habitats which support YCT may be impacted, and are described under Fisheries Resources |
| Range Resources | | | Present, Impacted | Impacts are disclosed under Environmental Consequences |
| Recreational Use | | | Present, Impacted | Impacts are disclosed under recreational use |
| Tribal Treaty Rights and Interests | | X | | TTR would not be impacted. |
| Vegetation | | | Present, Impacted | Impacts are disclosed under Environmental Consequences |
| Visual Resources | | | X | Existing travel routes and associated use can contribute to damage and disruption to the natural appearance of landscapes due to route proliferation (i.e., user-created routes extending off existing routes) resulting in new disturbances. Other travel-related surface disturbances and uses such as roadside camping can lead to expansion of invasive species and noxious weeds and subsequently higher potential for disruptive wildfire events. Routes also impact visual resources by creating contrasting lines where they do not follow natural landscape contours. Impact are disclosed under visual resources |
| Water Quality (Surface and Ground) | | | X | Impacts are disclosed under Aquatic Resources |
| Wetlands and Riparian Zones | | | X | Impacts are disclosed under Aquatic Resources |
| Wild and Scenic Rivers | X | | | |
| Wild Horse and Burro HMAs | X | | | There are no Wild Horse and Burro HMAs in the project area. |
| Wilderness | X | | | There is no designated wilderness in the Project Area. |
| Wilderness Study Area (WSA) | | X | | Henry's Lake WSA is within the TMA. No routes are within the WSA. |

| <i>Resources Considered in the Impact Analysis*.</i> | | | | |
|--|-------------|----------------------|-------------------|--|
| Resource | Not Present | Present Not Impacted | Present Impacted | Rationale |
| Wildlife Resources | | | Present, Impacted | Beneficial Impacts are anticipated for all action alternatives compared to current management due to the proposed reduction of open OHV routes in occupied habitats. |

1 *- Rationale for Interdisciplinary Team recommendations is required for all “not present” and “present not
2 impacted” situations. For resources that are “present and impacted” a detailed analysis is provided.

3

4 **Background: Environmental Justice and Socioeconomics**
5 **Environmental Justice Screening**

6 For this project the study area (Figure 1) has been identified as selected census block groups (BG) in Bannock,
7 Bingham, Bonneville, Caribou, Clark, Fremont, Jefferson, Madison, Power, and Teton counties, ID;
8 Beaverhead, Gallatin, and Madison counties, MT; and Lincoln and Teton counties, WY. This study area was
9 selected as the project actions and amendments have the greatest potential to impact these communities. The
10 population in the study area totals **390,252**. The reference area is the State of Idaho.

11

12 **Introduction and Methodology:**

13 The following analysis conforms to the Bureau of Land Management’s guidance (Executive Order 12898 and
14 BLM IM 2022-059) on assessing the presence of environmental justice communities – specifically, those
15 defined as low income and/or minority environmental justice communities. E.O. 12898 uses the terms **low**
16 **income** and **minority** to identify two sets of populations whose members have been regularly excluded from
17 public lands (and other federal and state) decision-making processes in ways that adversely impact their health
18 and environment and have created a disproportionate distribution of environmental amenities and burdens.

19 **Low-income** populations are defined by the BLM as a “set of individuals or group of people ... at or below
20 200% of the (federal) poverty threshold” (BLM 2022, 8). In order to identify low-income populations we
21 followed these steps:

- 22 • *Determine a study area and reference area (it is best to use the same study and reference areas for*
23 *both low income and minority EJ analysis).* For this report the study areas were **Idaho BLM District**
24 **Offices**. The reference area was **the State of Idaho**.
- 25 • *Identify a low-income threshold.* BLM guidance describes two ways to identify low-income
26 communities. A low-income community of concern is present if a) the population experiencing
27 poverty in one or more study area geographies are near, at, or below 200 percent of the federal poverty
28 threshold of the reference area OR b) if the population of the community experiencing poverty is at or
29 above 50 percent.

30

31 **Minority** populations are defined as “a person who is American Indian or Alaska Native, Asian, Native
32 Hawaiian or other Pacific Islander, Black or African American, some other race (other than White), a

1 combination of two or more races, or Hispanic” (BLM 2022, 8). In order to identify minority populations we
2 followed these steps:

- 3 • *Determine a study area and reference area (it is best to use the same study and reference areas for*
4 *both low income and minority EJ analysis).* For this report the study areas were **Idaho BLM District**
5 **Offices**. The reference area was **the State of Idaho**.
- 6 • *Identify a minority threshold.* BLM guidance describes two ways to identify minority communities. A
7 minority community of concern is present if the percentage of the population identified as belonging
8 to a minority group in a study area is 1) equal to or greater than 50 percent of the population OR 2)
9 meets the “meaningfully greater” threshold. Meaningfully greater is calculated by comparing the
10 minority group population percentage with 110 percent of the reference area minority population.
11

12 **Tribal** communities of concern are present if the percentage of the population identified as belonging to an
13 indigenous community is equal to or greater than the reference population.

14 The data presented in the following maps and tables come from the United States Census Bureau and the
15 Census Bureau’s American Community Survey. Data was gathered using the Bureau of Land Management’s
16 Environmental Justice Mapping Tool and the Census Bureau’s American Community Survey tables. Maps and
17 tables were prepared using GIS. The data presented is up-to-date as of this report.

18 The data is geographically organized by Census Tract Block Groups. Block groups are statistical census tract
19 divisions that generally contain between 600 and 3,000 people. In most cases, block groups are the most fine-
20 grained demographic data layers available.

21 **Data Summary**

22 Low-income and minority maps display 1) identified communities that are at or exceed 50 percent of the block
23 group population; 2) identified communities that are at or exceed MGA or other thresholds; 3) communities
24 that nearly met identification thresholds, in this case, less than or equal to 5 percent of the threshold; and 4)
25 communities that did not meet thresholds.

26 Tribal maps display 1) identified communities that are at or exceed 10 percent of the block group population;
27 2) identified communities that are at or exceed thresholds; 3) communities that nearly met identification
28 thresholds, in this case, less than or equal to 1 percent of the threshold; and 4) communities that did not meet
29 thresholds

30 Table 1 summarizes total block groups and total population of study area identified Environmental Justice
31 communities in total and by county. Figures 2 - 4 display the study area identified low-income, minority, and
32 tribal communities. Table 2 includes study area percentage data, reference area percentages, and thresholds for
33 identification.

34 Table 3 and figures 5 – 7 summarize identified Environmental Justice communities in Bannock and Caribou
35 counties, ID. Identified communities are highlighted.

36 Table 4 and figures 8 – 10 summarize identified Environmental Justice communities in Bingham County, ID.
37 Identified communities are highlighted.

38 Table 5 and figures 11 – 13 summarize identified Environmental Justice communities in Bonneville County,
39 ID. Identified communities are highlighted.

40 Table 6 and figures 14 – 16 summarize identified Environmental Justice communities in Fremont and Clark
41 counties, ID. Identified communities are highlighted.

- 1 Table 7 and figures 17 – 19 summarize identified Environmental Justice communities in Jefferson County, ID.
- 2 Identified communities are highlighted.
- 3 Table 8 and figures 20 – 22 summarize identified Environmental Justice communities in Madison County, ID.
- 4 Identified communities are highlighted.
- 5 Table 9 and figures 23 – 25 summarize identified Environmental Justice communities in Power County, ID.
- 6 Identified communities are highlighted.
- 7
- 8 Table 10 and figures 26 – 28 summarize identified Environmental Justice communities in Teton County, ID.
- 9 Identified communities are highlighted.
- 10 Table 11 and figures 29 – 31 summarize identified Environmental Justice communities in Beaverhead,
- 11 Gallatin, and Madison counties, MT and Lincoln and Teton counties, WY. Identified communities are
- 12 highlighted.
- 13 Analysis follows each county data display.
- 14

1 **Upper Snake East TMP Environmental Justice Study Area**

2 Table 1: Study Area Block Group Totals and by County.

| | Total BGs | Total BG Low-Income (w/ %) | Total BG Minority MGA (w/ %) | Total BG Tribal (w/ %) |
|---|------------------|-----------------------------------|-------------------------------------|-------------------------------|
| Upper Snake East TMP EJ Study Area | 294 | 168 (57.1 percent) | 95 (32.3 percent) | 83 (28.2 percent) |
| Bannock and Caribou counties, ID | 64 | 38 (59.4 percent) | 20 (31.3 percent) | 27 (42.2 percent) |
| Bingham County, ID | 32 | 21 (65.6 percent) | 15 (46.9 percent) | 15 (46.9 percent) |
| Bonneville County, ID | 77 | 45 (58.4 percent) | 29 (37.7 percent) | 17 (22.1 percent) |
| Fremont and Clark counties, ID | 13 | 11 (84.6 percent) | 5 (38.5 percent) | 4 (30.8 percent) |
| Jefferson County, ID | 16 | 9 (56.3 percent) | 4 (25.0 percent) | 4 (25.0 percent) |
| Madison County, ID | 32 | 24 (75.0 percent) | 5 (15.6 percent) | 4 (12.5 percent) |
| Power County, ID | 7 | 4 (57.1 percent) | 4 (57.1 percent) | 2 (28.6 percent) |
| Teton County, ID | 19 | 7 (36.8 percent) | 5 (26.3 percent) | 5 (26.3 percent) |
| Selected counties in MT and WY | 34 | 9 (26.5 percent) | 7 (20.6 percent) | 5 (14.7 percent) |

3

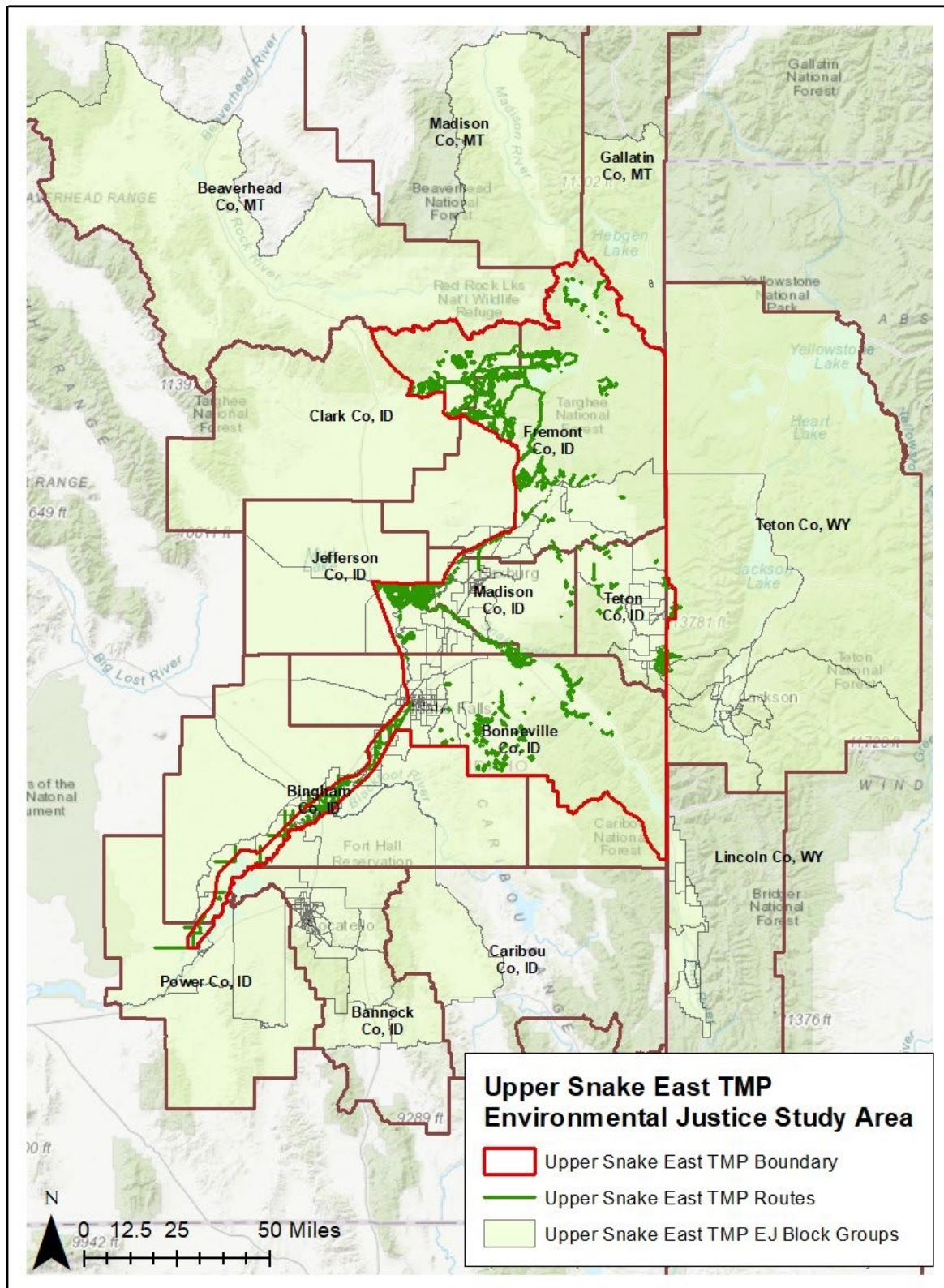
4 Table 2: Study and Reference Area EJ Population Percentages / Thresholds

| | Low-Income | Minority | Tribal |
|---|-------------------|-----------------|---------------|
| Study Area EJ Population Totals | 135,254 | 67,346 | 11,389 |
| Study Area EJ Population Percentages | 34.7 percent | 17.3 percent | 2.9 percent |
| Reference Area Percentages | 31.3 percent | 19.0 percent | 2.6 percent |
| Thresholds for Identification | 31.3 percent | 20.9 percent | 2.6 percent |

5

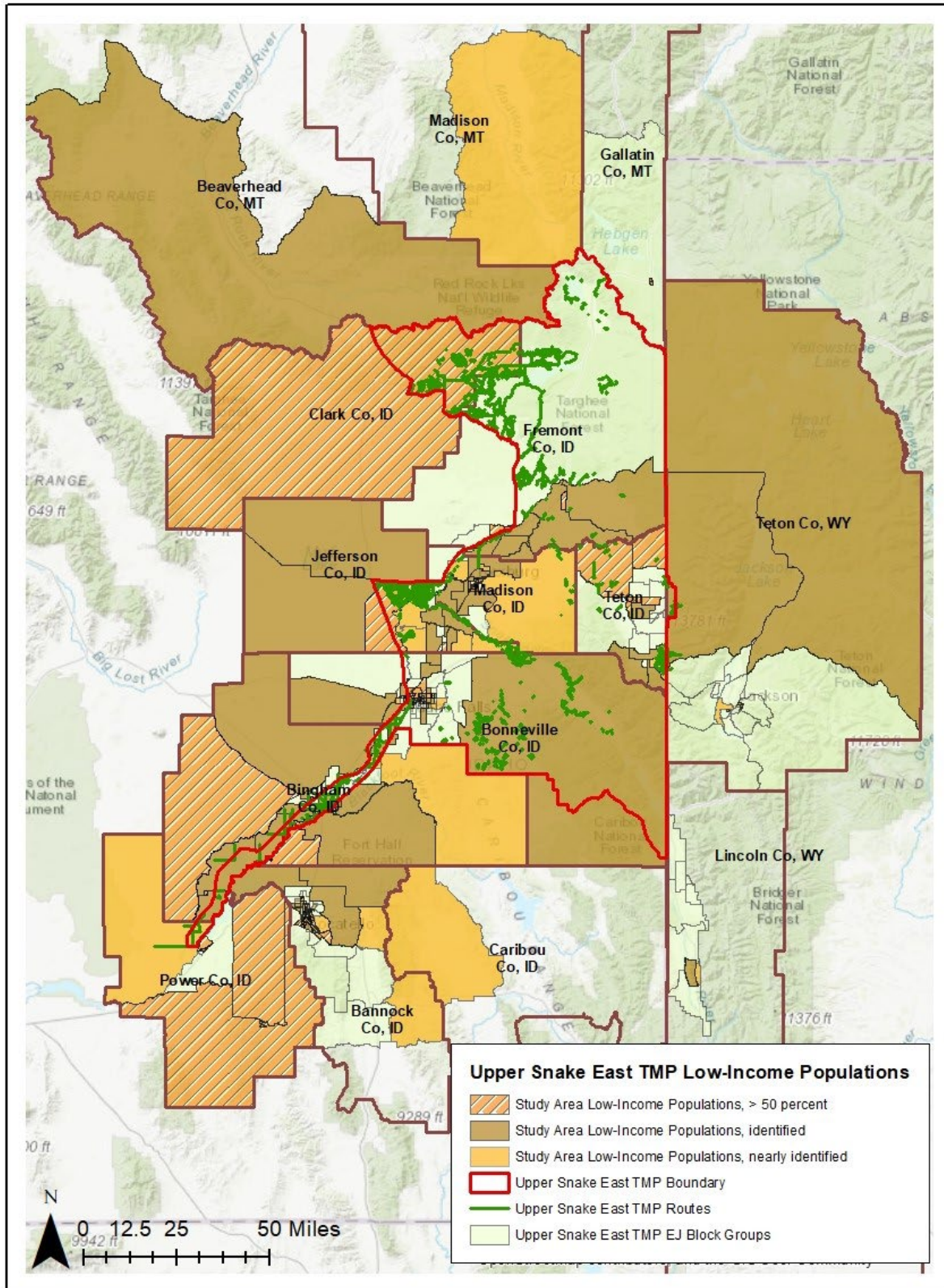
6

1 Figure 1: Upper Snake East TMP Environmental Justice Study Area



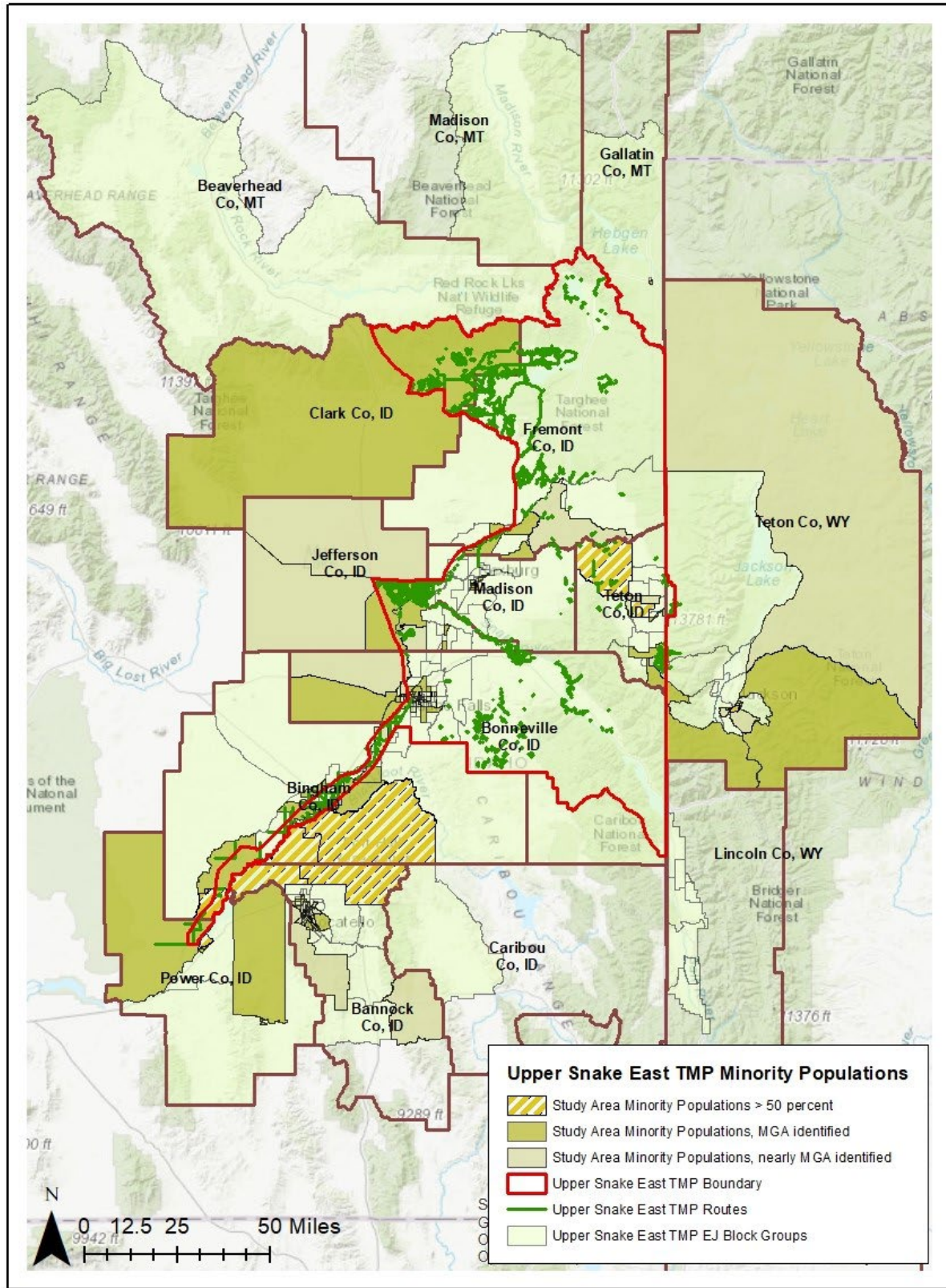
2

1 Figure 2: Upper Snake East TMP Study Area Low-Income Environmental Justice Communities



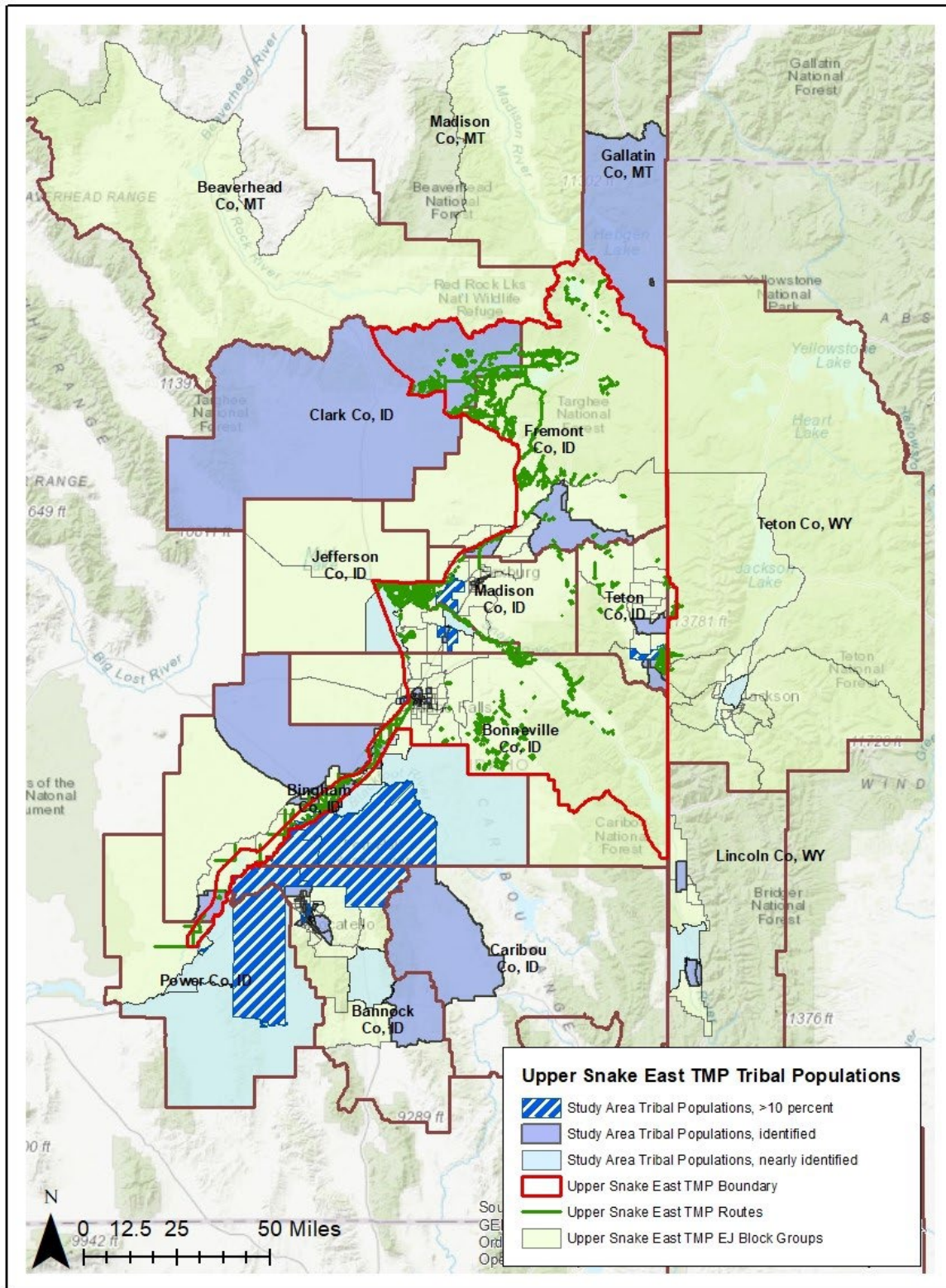
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1 Figure 3: Upper Snake East TMP Study Area Minority Environmental Justice Communities



2

1 Figure 4: Upper Snake East TMP Study Area Tribal Environmental Justice Communities



2

1 **Upper Snake East TMP Environmental Justice Study Area: Bannock and Caribou counties**

2 Table 3: Bannock and Caribou counties Environmental Justice Baseline Analysis

| Block Group | Description | Low-Income % | Minority % | Tribal % |
|--------------|---|--------------|------------|----------|
| 160050002001 | ID, Bannock Co., Camelback Mtn | 34.86 | 10.59 | 0.00 |
| 160050002002 | ID, Bannock Co., Inkom | 28.80 | 1.19 | 1.13 |
| 160050002003 | ID, Bannock Co., Mink Creek | 19.54 | 0.89 | 0.53 |
| 160050003011 | ID, Bannock Co., Chubbuck, Pine Ridge Mall | 49.44 | 25.56 | 8.36 |
| 160050003012 | ID, Bannock Co., Chubbuck, Stuart St | 45.19 | 28.87 | 0.00 |
| 160050003013 | ID, Bannock Co., Chubbuck, Capel City Park | 50.98 | 41.25 | 3.16 |
| 160050003021 | ID, Bannock Co., Chubbuck, Buffalo Rd | 22.38 | 4.99 | 0.43 |
| 160050003022 | ID, Bannock Co., Chubbuck, Bicentennial Park | 18.69 | 14.54 | 3.43 |
| 160050003023 | ID, Bannock Co., Chubbuck, Pheasant Ridge Dr | 71.61 | 35.27 | 2.95 |
| 160050004001 | ID, Bannock Co., Chubbuck, Brookstone St | 7.61 | 5.57 | 0.15 |
| 160050004002 | ID, Bannock Co., Chubbuck, Heritage Park | 31.04 | 15.43 | 7.48 |
| 160050004003 | ID, Bannock Co., Chubbuck, Cotant Park | 23.87 | 21.25 | 0.00 |
| 160050005001 | ID, Bannock Co., Tyhee | 20.10 | 10.43 | 4.89 |
| 160050006001 | ID, Bannock Co., S of Pocatello, Century HS | 63.07 | 14.82 | 5.21 |
| 160050006002 | ID, Bannock Co., E Pocatello | 29.01 | 27.62 | 4.09 |
| 160050007001 | ID, Bannock Co., Pocatello, Idaho State University | 67.04 | 20.12 | 0.50 |
| 160050007002 | ID, Bannock Co., Pocatello, Washington ES | 55.56 | 18.88 | 2.47 |
| 160050007003 | ID, Bannock Co., Pocatello, Idaho State University | 36.00 | 23.04 | 1.53 |
| 160050008001 | ID, Bannock Co., Pocatello, E Downtown | 71.14 | 27.50 | 3.16 |
| 160050008002 | ID, Bannock Co., Pocatello, Ross Park | 56.83 | 29.10 | 7.88 |
| 160050009001 | ID, Bannock Co., Pocatello, N 12th Ave | 42.24 | 7.85 | 3.83 |
| 160050009002 | ID, Bannock Co., Pocatello, City Hall | 55.36 | 33.43 | 1.45 |
| 160050010001 | ID, Bannock Co., Pocatello, Ammon Park | 45.69 | 9.26 | 3.18 |
| 160050010002 | ID, Bannock Co., Pocatello, Franklin Ave | 58.10 | 31.20 | 14.10 |
| 160050010003 | ID, Bannock Co., Pocatello, N 17th Ave | 62.17 | 11.07 | 2.19 |
| 160050011021 | ID, Bannock Co., Pocatello, Tendoy ES | 31.52 | 14.78 | 0.00 |
| 160050011022 | ID, Bannock Co., Pocatello, Lucille Ave | 14.72 | 18.92 | 0.00 |
| 160050011023 | ID, Bannock Co., Pocatello, Edahow ES | 64.17 | 5.92 | 2.49 |
| 160050011031 | ID, Bannock Co., Pocatello, N of Highland Golf | 8.33 | 15.70 | 1.79 |
| 160050011032 | ID, Bannock Co., Pocatello, N of Highland Golf | 3.17 | 2.36 | 0.23 |
| 160050011033 | ID, Bannock Co., Pocatello, Portneuf Wellness Complex | 19.88 | 10.56 | 1.35 |

| | | | | |
|--------------|--|-------------|-------------|------------|
| 160050011041 | ID, Bannock Co., Pocatello, E of Highland Golf | 1.90 | 4.92 | 0.11 |
| 160050011042 | ID, Bannock Co., Pocatello, Highland HS | 28.38 | 17.83 | 6.54 |
| 160050012001 | ID, Bannock Co., Pocatello, Meadowbrook Ln | 53.14 | 4.06 | 4.80 |
| 160050012002 | ID, Bannock Co., Pocatello, Syringa ES | 13.45 | 7.87 | 0.00 |
| 160050012003 | ID, Bannock Co., Pocatello, Scardino Park | 41.67 | 31.24 | 11.61 |
| 160050013001 | ID, Bannock Co., Pocatello, Alameda Park | 53.57 | 14.77 | 0.16 |
| 160050013002 | ID, Bannock Co., Pocatello, E Walnut St | 53.77 | 35.81 | 17.72 |
| 160050013003 | ID, Bannock Co., Pocatello, E Elm St | 71.69 | 23.29 | 1.16 |
| 160050014001 | ID, Bannock Co., Pocatello, Nop Park | 35.36 | 11.05 | 5.52 |
| 160050014002 | ID, Bannock Co., Pocatello, Freckleton Park | 37.17 | 21.43 | 0.00 |
| 160050014003 | ID, Bannock Co., Pocatello, Westwood Mall | 42.26 | 19.36 | 0.82 |
| 160050014004 | ID, Bannock Co., Pocatello, Wilson Ave | 53.34 | 26.31 | 6.28 |
| 160050015001 | ID, Bannock Co., Pocatello, Garrett Way | 41.61 | 32.41 | 0.00 |
| 160050015002 | ID, Bannock Co., Pocatello, Okward Park | 44.33 | 12.53 | 0.00 |
| 160050015003 | ID, Bannock Co., Pocatello, Kinghorn Rd | 25.54 | 2.51 | 0.00 |
| 160050015004 | ID, Bannock Co., Pocatello, Northgate Dr | 26.61 | 1.47 | 1.47 |
| 160050015005 | ID, Bannock Co., Pocatello, Hawthorne Park | 11.11 | 10.09 | 0.00 |
| 160050016011 | ID, Bannock Co., Pocatello, N Arthur Ave | 43.56 | 16.12 | 11.53 |
| 160050016012 | ID, Bannock Co., Pocatello, Pocatello HS | 53.79 | 11.58 | 2.79 |
| 160050016021 | ID, Bannock Co., Pocatello, Riverside Dr | 30.03 | 12.33 | 20.12 |
| 160050016022 | ID, Bannock Co., Pocatello, Fremont Park | 46.19 | 11.02 | 0.00 |
| 160050016023 | ID, Bannock Co., Pocatello, Hyland Park | 52.92 | 19.69 | 7.20 |
| 160050016031 | ID, Bannock Co., Pocatello, W Benton St | 53.56 | 1.20 | 1.31 |
| 160050016032 | ID, Bannock Co., Pocatello, Rainey Park | 49.01 | 29.65 | 1.06 |
| 160050017001 | ID, Bannock Co., Pocatello, Indian Hills ES | 54.96 | 2.05 | 0.75 |
| 160050017002 | ID, Bannock Co., Pocatello, Johnny Creek Rd | 21.25 | 5.43 | 1.09 |
| 160050019001 | ID, Bannock Co., McCammon, Indian Rocks State Park | 20.58 | 2.63 | 2.05 |
| 160050019002 | ID, Bannock Co., Arimo | 23.02 | 9.53 | 0.00 |
| 160050019003 | ID, Bannock Co., Lava Hot Springs | 27.87 | 16.47 | 6.17 |
| 160059400001 | ID, Bannock Co., W Fort Hall Reservation | 44.98 | 57.38 | 47.34 |
| 160059400002 | ID, Bannock Co., Fort Hall Reservation | 46.02 | 64.71 | 59.17 |
| 160059818001 | ID, W Bannock Co., Caribou National Forest | 18.85 | 16.09 | 0.00 |
| 160299601005 | ID, Caribou Co., Chubbuck, Fort Hall Reservation, Bancroft | 28.42 | 5.94 | 4.34 |
| | Thresholds for Identification | 31.3 | 20.9 | 2.6 |
| | County Percentages | 37.0 | 17.1 | 4.3 |

1 **Bannock and Caribou counties, ID**

2 There are an estimated 85,789 people in the Bannock and Caribou counties block groups.

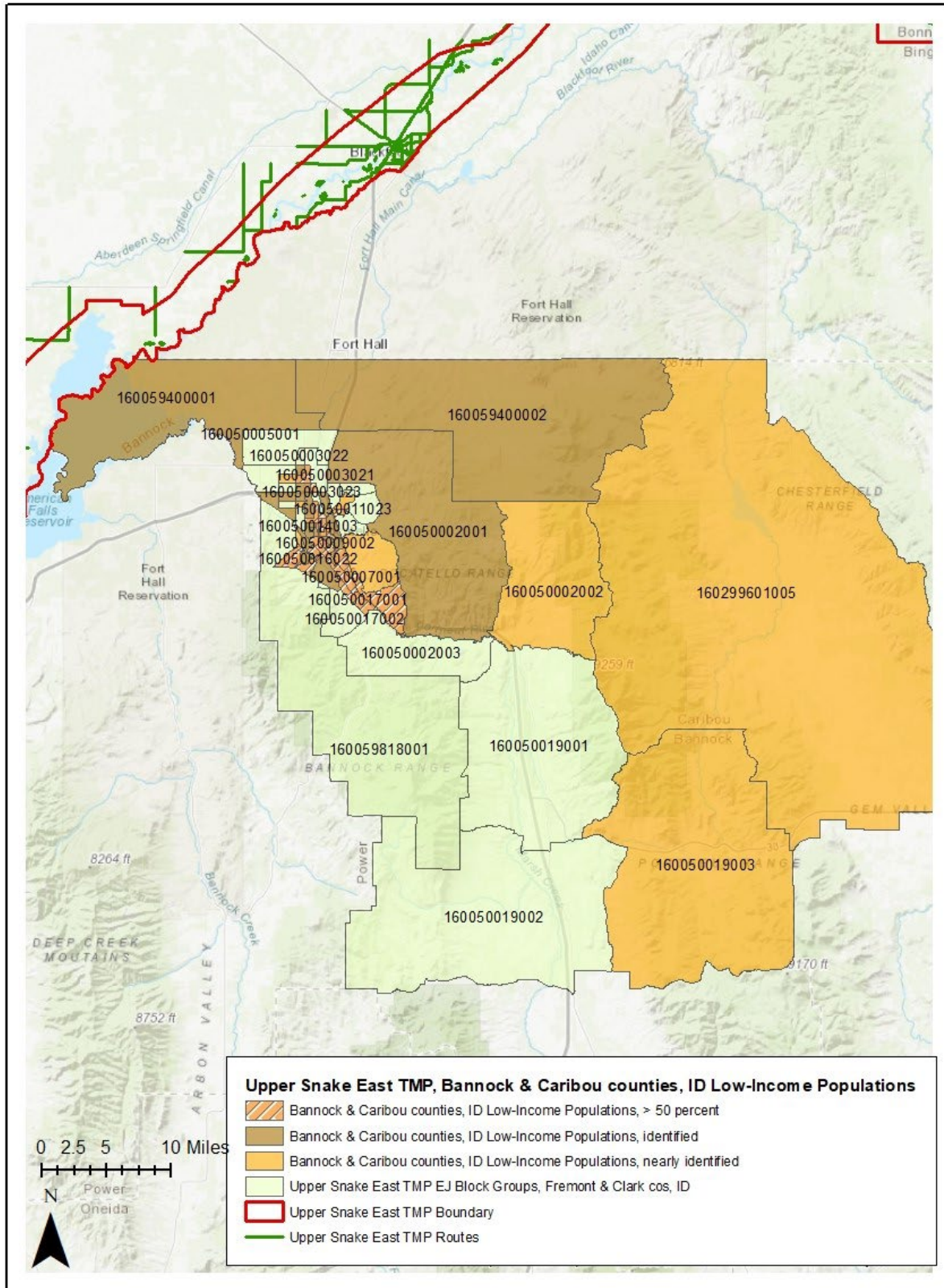
3 **Low-Income Analysis:** Low-income environmental justice communities are identified in Bannock and
4 Caribou counties. There are 31,772 people (37.0 percent) in selected Bannock and Caribou block groups that
5 are identified in a low-income analysis. The majority of identified low-income populations are found relatively
6 near the Upper Snake East TMP boundary – especially in and around Pocatello, Chubbuck, and the Fort Hall
7 Reservation.

8 **Minority Analysis:** Minority environmental justice communities are identified in Bannock and Caribou
9 counties. There are 14,654 people (17.1 percent) in selected Bannock and Caribou block groups that are
10 identified in a minority analysis. Minority communities are largely clustered in and around Pocatello,
11 Chubbuck, and the Fort Hall Reservation.

12 **Tribal Analysis:** Tribal environmental justice communities are identified in Bannock and Caribou counties.
13 There are 3,690 people (4.3 percent) in selected Bannock and Caribou block groups that are identified in a
14 Tribal analysis.

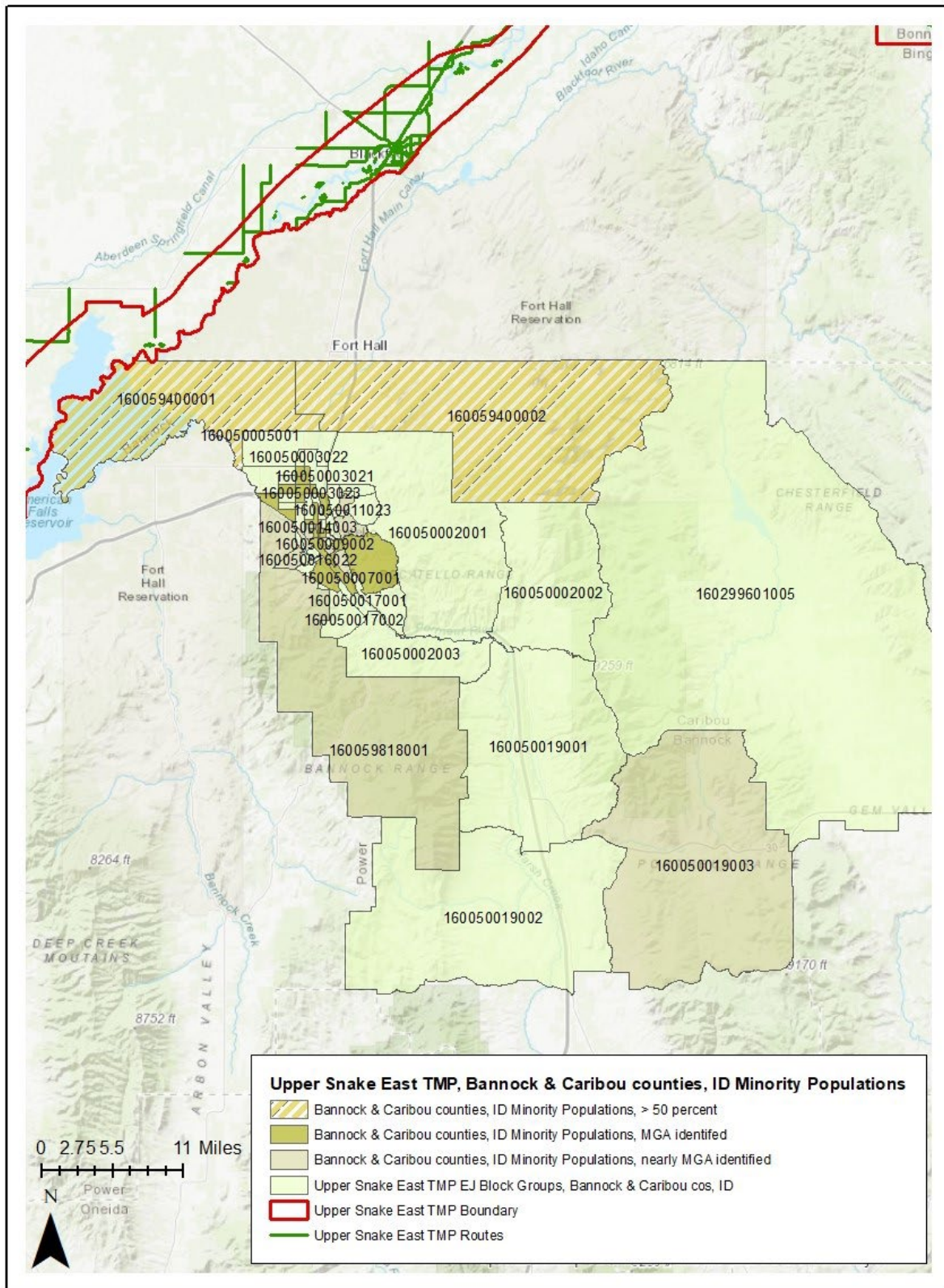
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1 Figure 5: Bannock and Caribou counties, ID; Low-Income Environmental Justice Communities



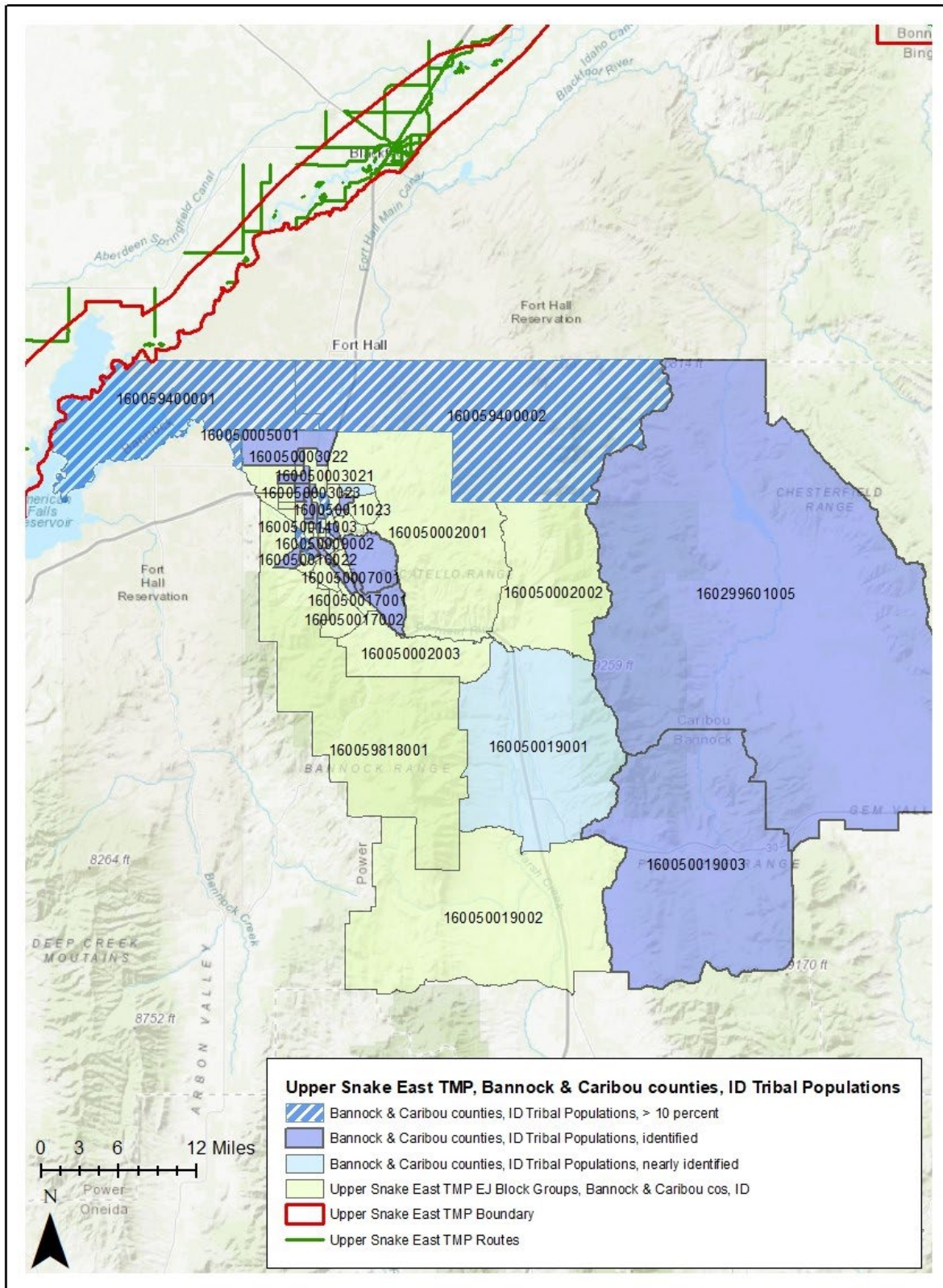
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1 Figure 6: Bannock and Caribou counties, ID; Minority Environmental Justice Communities



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1 Figure 7: Bannock and Caribou counties, ID; Tribal Environmental Justice Communities



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1 **Upper Snake East TMP Environmental Justice Study Area: Bingham County**

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3 Table 4: Bingham County Environmental Justice Baseline Analysis

| Block Group | Description | Low-Income % | Minority % | Tribal % |
|--------------|---|--------------|------------|----------|
| 160119400001 | ID, Bingham Co., E Fort Hall Reservation | 44.02 | 44.02 | 66.67 |
| 160119400002 | ID, Bingham Co., Fort Hall Reservation, Fort Hall | 59.68 | 59.68 | 86.81 |
| 160119501011 | ID, Bingham Co., W of Cox | 16.59 | 16.59 | 0.00 |
| 160119501012 | ID, Bingham Co., E Shelley, LDS | 32.06 | 32.06 | 2.01 |
| 160119501021 | ID, Bingham Co., Mitchell | 37.79 | 37.79 | 0.00 |
| 160119501022 | ID, Bingham Co., Woodville, Riverview ES | 14.01 | 14.01 | 0.00 |
| 160119501023 | ID, Bingham Co., W Shelley, Shelley HS | 35.04 | 35.04 | 2.63 |
| 160119502001 | ID, E Bingham Co., Caribou Range | 29.30 | 29.30 | 2.22 |
| 160119502002 | ID, Bingham Co., Kimball | 18.50 | 18.50 | 0.00 |
| 160119502003 | ID, Bingham Co., Basal, Firth | 29.11 | 29.11 | 2.62 |
| 160119503001 | ID, NW Bingham Co. | 40.65 | 40.65 | 7.26 |
| 160119503002 | ID, W Bingham Co. | 56.47 | 56.47 | 0.87 |
| 160119503003 | ID, Bingham Co., N of Aberdeen to Springfield | 49.45 | 49.45 | 0.00 |
| 160119503004 | ID, Bingham Co., W Aberdeen | 71.20 | 71.20 | 7.03 |
| 160119503005 | ID, Bingham Co., E Aberdeen | 43.40 | 43.40 | 8.77 |
| 160119504001 | ID, Bingham Co., SE Blackfoot, Wapello | 38.01 | 38.01 | 2.59 |
| 160119504002 | ID, Bingham Co., NE Blackfoot, Grove City Cemetary | 45.09 | 45.09 | 7.04 |
| 160119504003 | ID, Bingham Co., Blackfoot, E Alice St | 55.41 | 55.41 | 0.00 |
| 160119504004 | ID, Bingham Co., South St | 77.77 | 77.77 | 6.18 |
| 160119504005 | ID, Bingham Co., E Walker St | 24.18 | 24.18 | 0.00 |
| 160119505011 | ID, Bingham Co., N Blackfoot | 14.03 | 14.03 | 6.21 |
| 160119505012 | ID, Bingham Co., NE Blackfoot | 13.90 | 13.90 | 7.31 |
| 160119505021 | ID, Bingham Co., W Blackfoot, Cedar St | 60.02 | 60.02 | 10.73 |
| 160119505022 | ID, Bingham Co., W Blackfoot, McAdoo St | 52.12 | 52.12 | 1.17 |
| 160119505023 | ID, Bingham Co., SW Blackfoot, Riverton Rd | 63.22 | 63.22 | 11.67 |
| 160119506001 | ID, Bingham Co., N of Blackfoot | 15.53 | 15.53 | 0.00 |
| 160119506002 | ID, Bingham Co., E Moreland | 24.83 | 24.83 | 7.35 |
| 160119506003 | ID, Bingham Co., W Moreland | 46.49 | 46.49 | 0.00 |
| 160119506004 | ID, Bingham Co., Groveland | 42.46 | 42.46 | 0.00 |
| 160119507001 | ID, Bingham Co., W Blackfoot, Riverside, Snake River HS | 16.17 | 16.17 | 2.89 |
| 160119507002 | ID, Bingham Co., W Blackfoot, Thomas, Snake River MS | 32.27 | 32.27 | 0.61 |
| 160119507003 | ID, Bingham Co., Pingree | 46.37 | 46.37 | 0.00 |

| | | | | |
|--|--------------------------------------|-------------|-------------|------------|
| | Thresholds for Identification | 31.3 | 20.9 | 2.6 |
| | County Percentages | 37.7 | 26.5 | 7.6 |

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Bingham County, ID

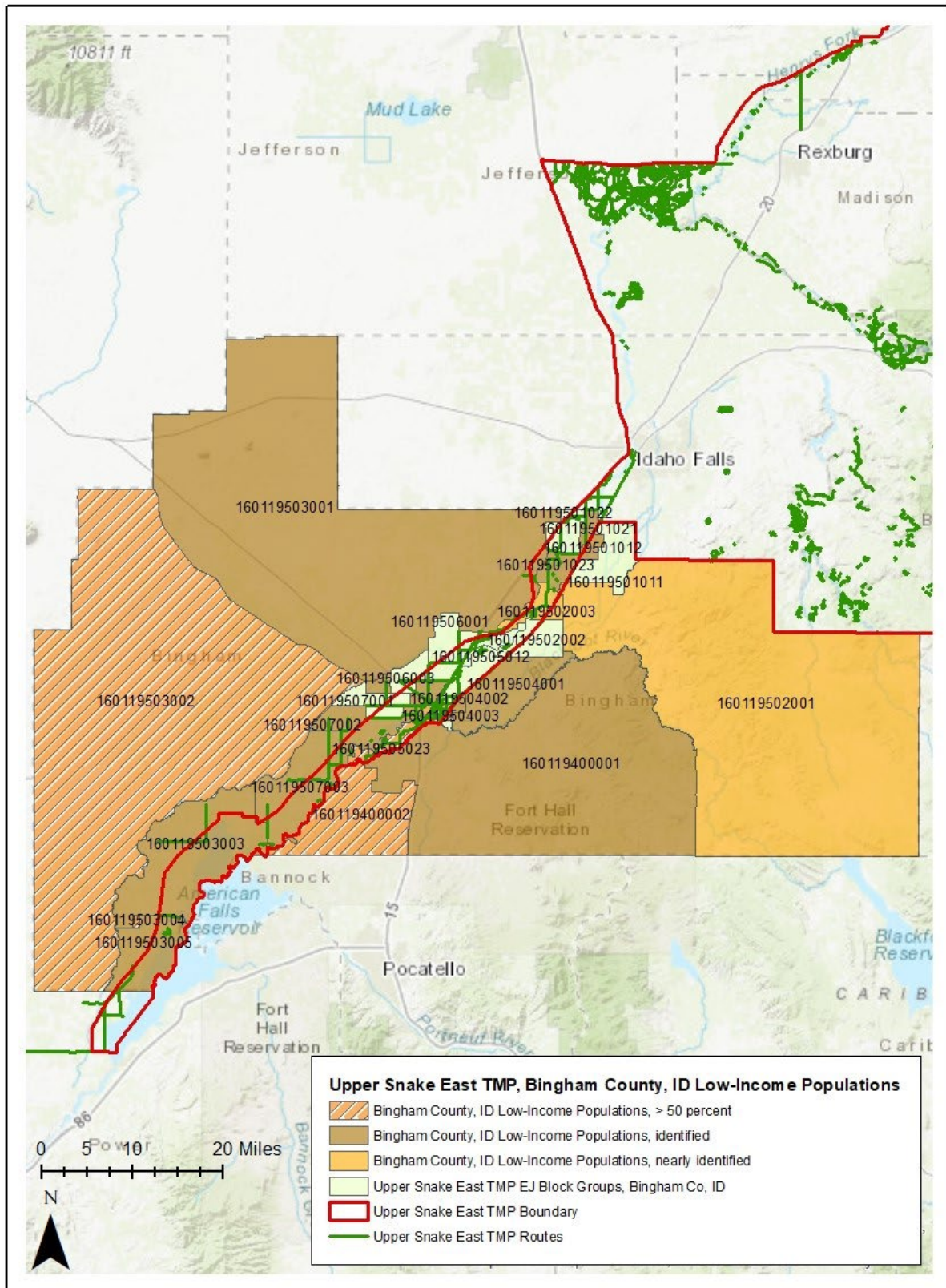
There are an estimated 45,674 people in the Bingham County block groups.

Low-Income Analysis: Low-income environmental justice communities are identified in Bingham County. There are 17,228 people (37.7 percent) in selected Bingham block groups that are identified in a low-income analysis.

Minority Analysis: Minority environmental justice communities are identified in Bingham County. There are 12,119 people (26.5 percent) in selected Bingham block groups that are identified in a minority analysis.

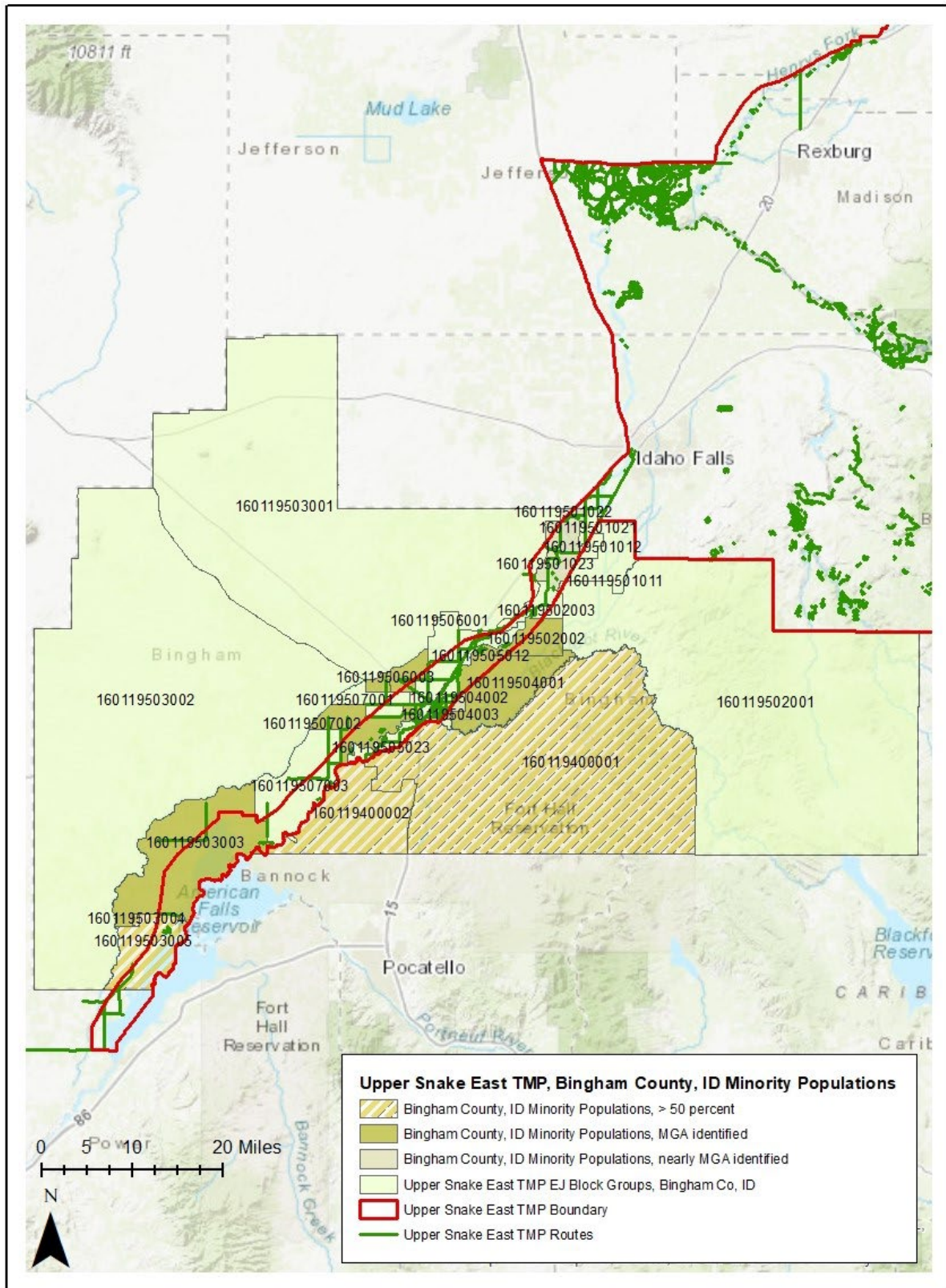
Tribal Analysis: Tribal environmental justice communities are identified in Bingham County. There are 3,488 people (7.6 percent) in selected Bingham block groups that are identified in a Tribal analysis.

1 Figure 8: Bingham County, ID; Low-Income Environmental Justice Communities



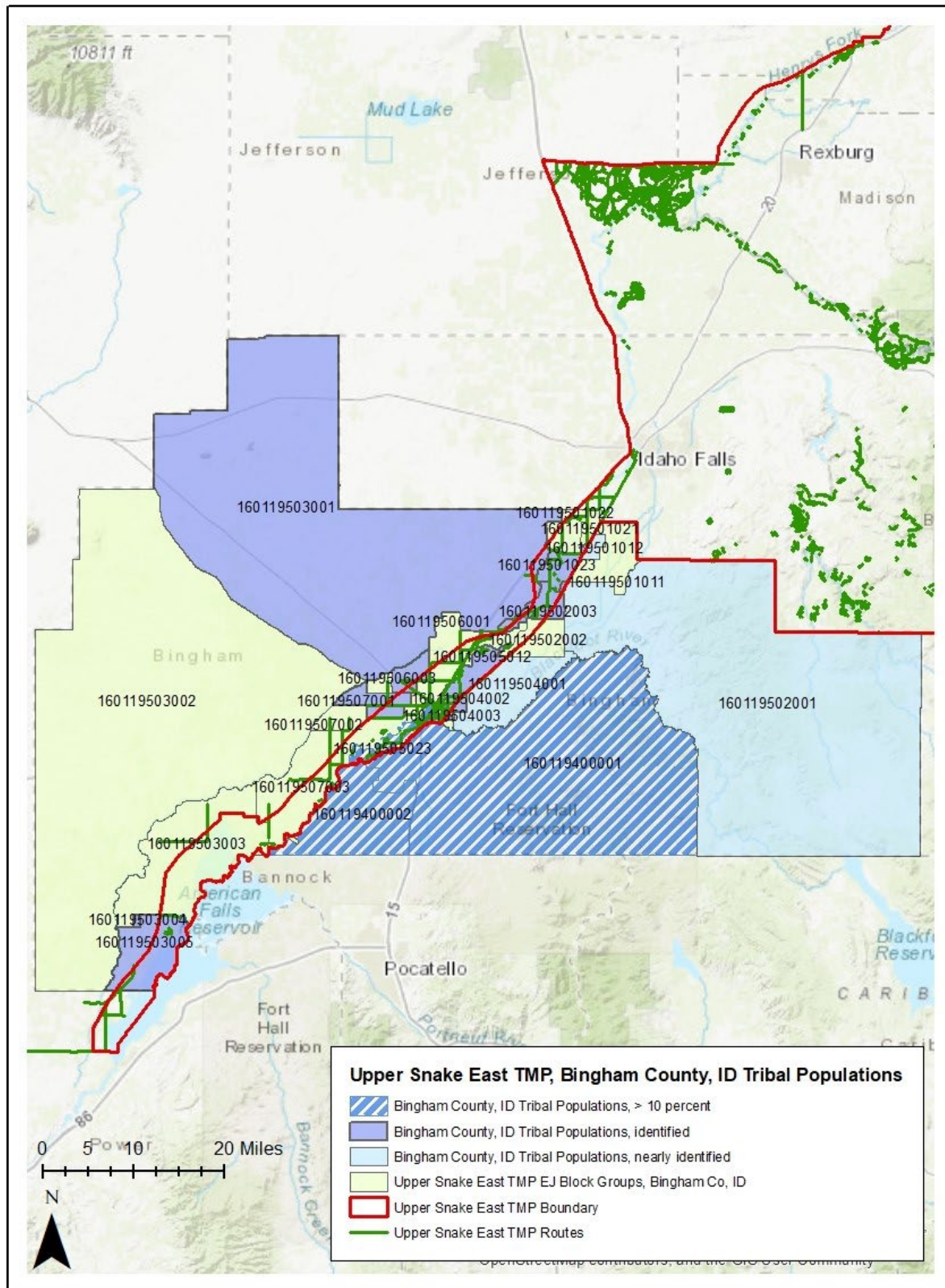
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1 Figure 9: Bingham County, ID; Minority Environmental Justice Communities



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1 Figure 10: Bingham County, ID; Tribal Environmental Justice Communities



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1 **Upper Snake East TMP Environmental Justice Study Area: Bonneville County**

2 Table 5: Bonneville County Environmental Justice Baseline Analysis

| Block Group | Description | Low-Income % | Minority % | Tribal % |
|--------------|---|--------------|------------|----------|
| 160199701001 | ID, E. Bonneville Co., Swan Valley | 34.57 | 4.22 | 0.00 |
| 160199701002 | ID, Bonneville Co., Peterson Hill | 11.42 | 3.86 | 0.00 |
| 160199701003 | ID, Bonneville Co., Idaho Falls Country Club | 12.91 | 1.76 | 0.00 |
| 160199701004 | ID, Bonneville Co., Black Canyon | 10.08 | 2.02 | 0.00 |
| 160199703001 | ID, Bonneville Co., N of Idaho Falls | 17.27 | 1.58 | 0.85 |
| 160199703002 | ID, Bonneville Co., Ucon | 32.96 | 13.15 | 0.59 |
| 160199703003 | ID, Bonneville Co., S Ucon | 33.19 | 6.35 | 0.18 |
| 160199703004 | ID, NE Bonneville Co. | 19.18 | 13.47 | 0.00 |
| 160199704011 | ID, Bonneville Co., N of Idaho Falls | 7.24 | 9.81 | 0.21 |
| 160199704012 | ID, Bonneville Co., Orvin | 54.19 | 33.65 | 0.32 |
| 160199704021 | ID, Bonneville Co., NW Iona | 14.07 | 9.85 | 0.00 |
| 160199704022 | ID, Bonneville Co., Iona | 17.88 | 4.03 | 0.57 |
| 160199704041 | ID, Bonneville Co., IF, W of N Stevens Dr. | 46.96 | 54.13 | 1.30 |
| 160199704042 | ID, Bonneville Co., IF, E. Greenwillow Ln | 42.53 | 21.40 | 0.00 |
| 160199704043 | ID, Bonneville Co., IF, E of N Stevens Dr. | 57.25 | 13.06 | 0.34 |
| 160199704051 | ID, Bonneville Co., Lincoln | 25.90 | 5.07 | 0.04 |
| 160199704052 | ID, Bonneville Co., Lincoln | 62.66 | 3.07 | 0.19 |
| 160199704053 | ID, Bonneville Co., Pinnacle Dr | 39.39 | 27.74 | 3.10 |
| 160199705021 | ID, Bonneville Co., IF, S. Eagle Dr | 38.42 | 8.61 | 0.00 |
| 160199705022 | ID, Bonneville Co., Ammon, McCowin Park | 31.06 | 9.47 | 3.52 |
| 160199705023 | ID, Bonneville Co., Ammon, E. Wanda St | 27.61 | 14.77 | 0.68 |
| 160199705031 | ID, Bonneville Co., Ammon | 18.63 | 35.18 | 0.75 |
| 160199705032 | ID, Bonneville Co., IF, Sand Creek Golf | 36.04 | 24.45 | 0.00 |
| 160199705033 | ID, Bonneville Co., IF, Woodland Hills Park | 9.75 | 13.87 | 0.12 |
| 160199705041 | ID, Bonneville Co., IF, E. John Adams Pkwy | 22.46 | 9.66 | 0.37 |
| 160199705042 | ID, Bonneville Co., Ammon, E. 21st St | 26.68 | 2.43 | 0.00 |
| 160199705051 | ID, Bonneville Co., IF, E. John Adams Pkwy | 32.49 | 0.55 | 0.00 |
| 160199705052 | ID, Bonneville Co., IF, Tie Breaker Dr | 37.04 | 20.49 | 4.63 |
| 160199706011 | ID, Bonneville Co., IF, IFDO | 43.04 | 24.41 | 9.71 |
| 160199706012 | ID, Bonneville Co., IF, Sugar Mill Sub Station Park | 32.08 | 15.37 | 1.63 |
| 160199706013 | ID, Bonneville Co., IF, S of Kearney St | 40.06 | 5.56 | 1.18 |
| 160199706021 | ID, Bonneville Co., IF, N of E ID Tech Col | 55.28 | 12.39 | 0.57 |
| 160199706022 | ID, Bonneville Co., IF, Three Fountains Dr | 81.67 | 15.77 | 0.00 |

| | | | | |
|--------------|---|-------|-------|-------|
| 160199706023 | ID, Bonneville Co., IF, Hopkins Ave, E. ID Tech Col | 60.80 | 32.51 | 0.14 |
| 160199706024 | ID, Bonneville Co., IF, Laurelwood Ave | 50.24 | 35.20 | 9.77 |
| 160199706031 | ID, Bonneville Co., IF, Grand Teton Mall | 21.00 | 9.71 | 1.10 |
| 160199707001 | ID, Bonneville Co., IF, N. Boulevard W | 37.17 | 26.25 | 2.16 |
| 160199707002 | ID, Bonneville Co., IF, Central Park, Pinecrest Golf | 58.71 | 45.31 | 4.30 |
| 160199707003 | ID, Bonneville Co., IF, Bel Aire Park | 37.07 | 56.96 | 7.39 |
| 160199707004 | ID, Bonneville Co., IF, Pinon Dr | 58.32 | 29.16 | 3.73 |
| 160199708001 | ID, Bonneville Co., IF, Syringa Dr | 24.45 | 31.38 | 2.89 |
| 160199708002 | ID, Bonneville Co., IF, Russet St | 42.17 | 2.10 | 2.10 |
| 160199708003 | ID, Bonneville Co., IF, Safstrom Dr | 45.29 | 27.80 | 0.88 |
| 160199708004 | ID, Bonneville Co., IF, Crow Creek | 26.39 | 20.94 | 1.71 |
| 160199709001 | ID, Bonneville Co., IF, Bower Dr | 59.38 | 9.27 | 2.05 |
| 160199709002 | ID, Bonneville Co., IF, Azelea Dr | 24.23 | 21.68 | 6.15 |
| 160199709003 | ID, Bonneville Co., IF, Shamrock Park | 13.48 | 16.93 | 0.26 |
| 160199710001 | ID, Bonneville Co., IF, S Emerson and E 15th St | 51.54 | 39.77 | 5.94 |
| 160199710002 | ID, Bonneville Co., IF, W 16th St | 63.80 | 7.38 | 1.41 |
| 160199710003 | ID, Bonneville Co., IF, Fife Ave | 55.13 | 12.70 | 0.00 |
| 160199710004 | ID, Bonneville Co., IF, 20th St. Park | 30.29 | 13.68 | 0.00 |
| 160199710005 | ID, Bonneville Co., IF, Homestead Ln | 10.37 | 4.44 | 0.00 |
| 160199710006 | ID, Bonneville Co., IF, S. Tourist Park, Rose Hill Cemetary | 37.22 | 5.34 | 0.28 |
| 160199711001 | ID, Bonneville Co., IF, 3rd St | 47.90 | 29.33 | 2.04 |
| 160199711002 | ID, Bonneville Co., IF, N. Water Ave | 34.15 | 14.15 | 2.00 |
| 160199711003 | ID, Bonneville Co., IF, Poitevin Park | 58.79 | 14.93 | 0.00 |
| 160199711004 | ID, Bonneville Co., IF, Kate Curley Park | 49.85 | 13.75 | 3.48 |
| 160199712001 | ID, Bonneville Co., IF, ID National Lab | 57.22 | 29.43 | 0.00 |
| 160199712002 | ID, Bonneville Co., IF, Melalueca Field | 3.49 | 2.51 | 0.33 |
| 160199712003 | ID, Bonneville Co., IF, Memorial Dr | 61.85 | 24.91 | 4.18 |
| 160199712004 | ID, Bonneville Co., IF, IF Greenbelt | 66.46 | 9.41 | 1.74 |
| 160199713011 | ID, Bonneville Co., IF Airport | 34.38 | 20.71 | 1.16 |
| 160199713012 | ID, Bonneville Co., IF, Buckboard Ln | 25.27 | 37.83 | 0.00 |
| 160199713013 | ID, Bonneville Co., IF, Grayhound IF | 59.79 | 38.11 | 3.50 |
| 160199713014 | ID, Bonneville Co., IF, Beverly Rd | 37.54 | 34.56 | 6.67 |
| 160199713015 | ID, Bonneville Co., IF, Old Butte Soccer | 25.25 | 9.50 | 0.00 |
| 160199713021 | ID, Bonneville Co., IF, Eagle Rock MS | 38.10 | 46.81 | 16.81 |
| 160199713022 | ID, Bonneville Co., IF, Laprele St | 73.76 | 51.87 | 0.00 |
| 160199713023 | ID, Bonneville Co., IF, Skyline HS | 20.57 | 9.70 | 2.78 |
| 160199713024 | ID, Bonneville Co., IF, Westside ES, IF Church of Christ | 26.46 | 22.99 | 2.45 |
| 160199714011 | ID, Bonneville Co., SE of IF | 32.46 | 26.39 | 0.00 |
| 160199714012 | ID, Bonneville Co., IF, Cotton | 21.07 | 12.54 | 0.63 |
| 160199714021 | ID, Bonneville Co., IF, Southpoint Blvd | 0.55 | 7.04 | 0.00 |
| 160199714022 | ID, Bonneville Co., IF, W. Woodhaven | 4.30 | 17.19 | 0.00 |
| 160199714023 | ID, Bonneville Co., IF, Shadow Mtn Trl | 11.21 | 11.98 | 0.00 |
| 160199715001 | ID, NW Bonneville Co. | 4.52 | 17.92 | 0.00 |

| | | | | |
|--------------|--------------------------------------|-------------|-------------|------------|
| 160199715002 | ID, SW Bonneville Co. | 37.13 | 25.91 | 1.41 |
| | Thresholds for Identification | 31.3 | 20.9 | 2.6 |
| | County Percentages | 29.9 | 16.1 | 1.4 |

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2 **Bonneville County, ID**

3 There are an estimated 125,959 people in the Bonneville County block groups.

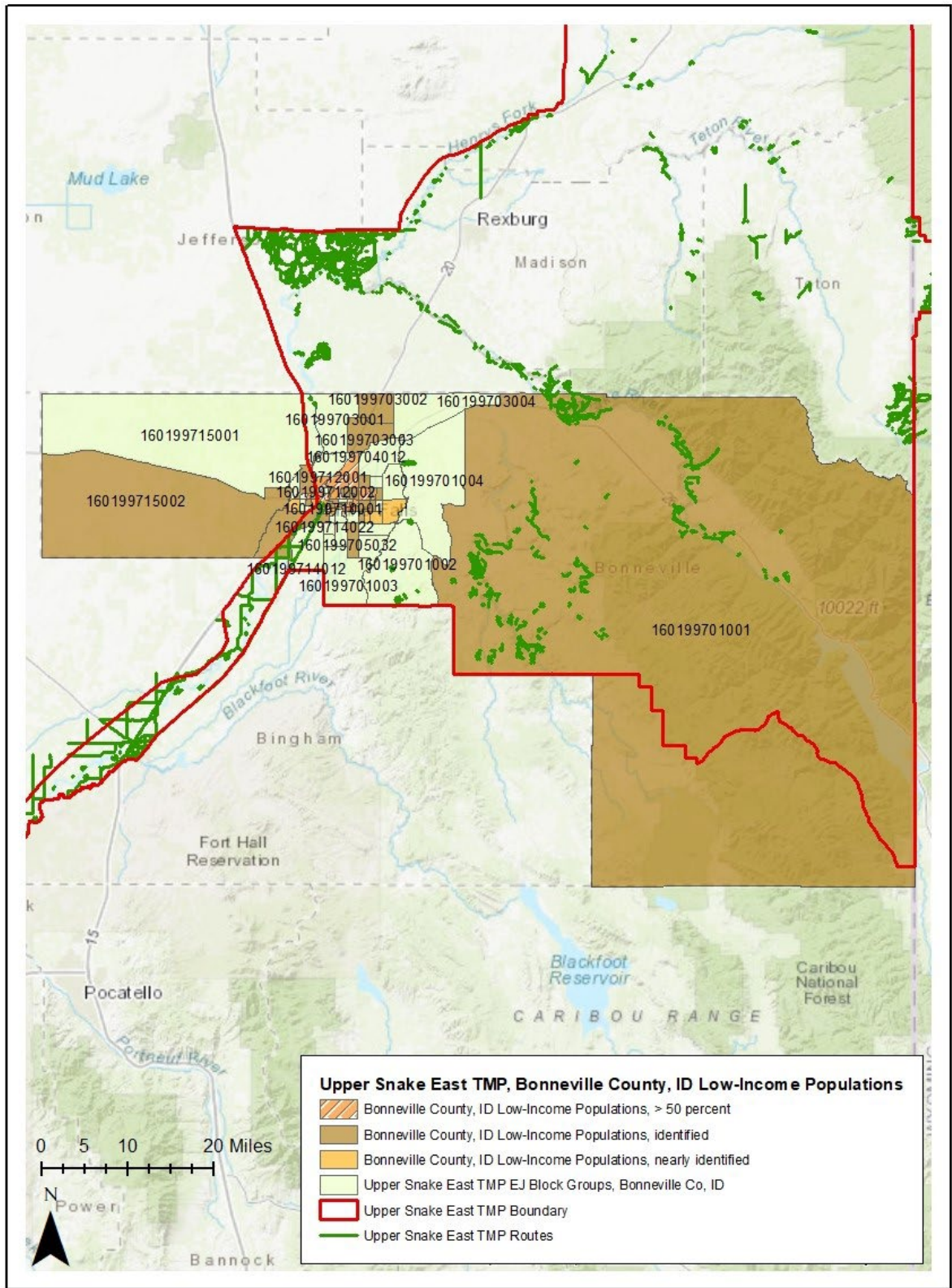
4 **Low-Income Analysis:** Low-income environmental justice communities are identified in Bonneville County.
 5 There are 37,616 people (29.9 percent) in selected Bonneville block groups that are identified in a low-income
 6 analysis.

7 **Minority Analysis:** Minority environmental justice communities are identified in Bonneville County. There
 8 are 20,178 people (16.1 percent) in selected Bonneville block groups that are identified in a minority analysis.

9 **Tribal Analysis:** Tribal environmental justice communities are identified in Bonneville County. There are
 10 1,700 people (1.4 percent) in selected Bonneville block groups that are identified in a Tribal analysis.

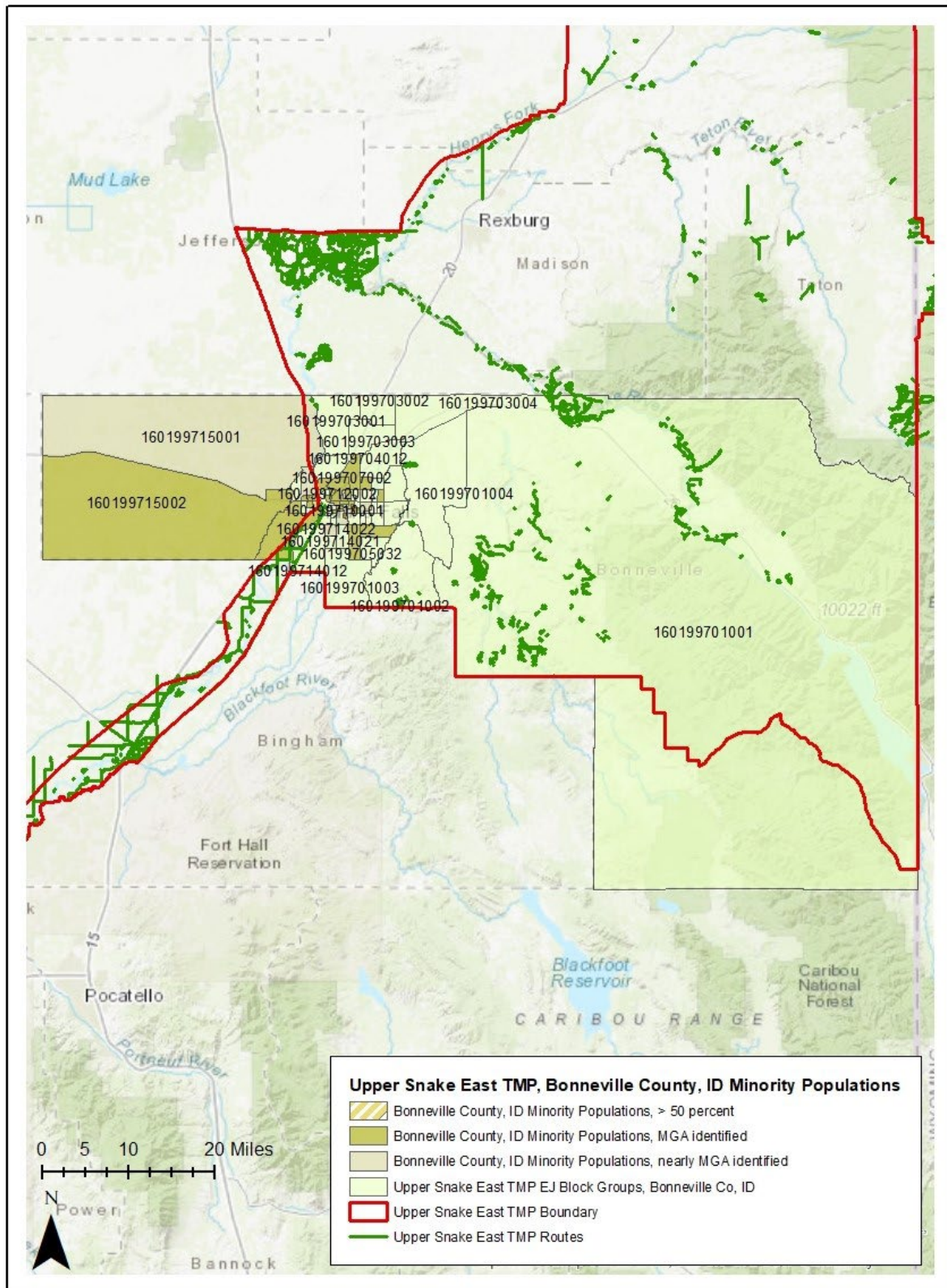
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1 Figure 11: Bonneville County, ID; Low-Income Environmental Justice Communities



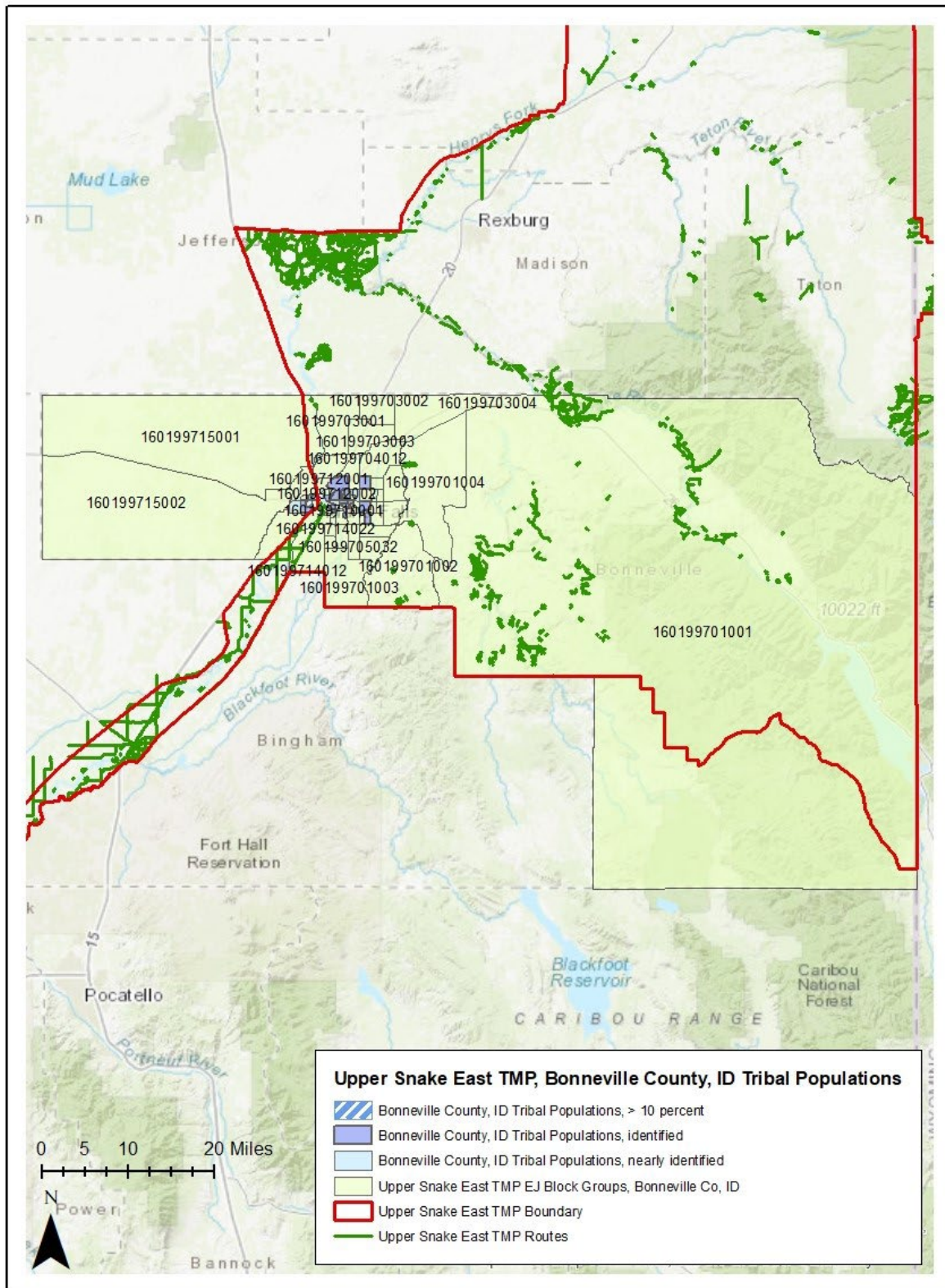
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1 Figure 12: Bonneville County, ID; Minority Environmental Justice Communities



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1 Figure 13: Bonneville County, ID; Tribal Environmental Justice Communities



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Upper Snake East TMP Environmental Justice Study Area: Fremont and Clark counties

Table 6: Fremont and Clark counties Environmental Justice Baseline Analysis

| Block Group | Description | Low-Income % | Minority % | Tribal % |
|--------------|--|--------------|-------------|------------|
| 160339501001 | ID, Clark Co., Dubois | 53.22 | 44.75 | 4.52 |
| 160439701001 | ID, Fremont Co., Henry's Lake, Island Park | 16.39 | 1.99 | 0.91 |
| 160439702001 | ID, Fremont Co., East of Ashton | 43.32 | 3.22 | 0.00 |
| 160439702002 | ID, Fremont Co., Ashton | 56.16 | 7.53 | 7.08 |
| 160439702003 | ID, S. Fremont Co., N. Ashton | 39.50 | 16.85 | 3.20 |
| 160439702004 | ID, S. Fremont Co. | 45.93 | 24.26 | 0.00 |
| 160439703011 | ID, Fremont Co., St. Anthony | 53.54 | 14.66 | 0.62 |
| 160439703012 | ID, Fremont Co., NW St. Anthony | 55.95 | 26.29 | 1.31 |
| 160439703013 | ID, Fremont Co., Parker | 17.99 | 1.31 | 0.83 |
| 160439703014 | ID, S. Fremont Co., W of Hwy 20 | 42.00 | 21.12 | 6.96 |
| 160439703021 | ID, Fremont Co., NE St. Anthony | 44.60 | 12.21 | 1.96 |
| 160439703022 | ID, Fremont Co., Chester, SE St. Anthony | 40.34 | 33.78 | 0.00 |
| 160439703023 | ID, S. Fremont Co., E of Hwy 20 | 38.88 | 5.85 | 0.00 |
| | Thresholds for Identification | 31.3 | 20.9 | 2.6 |
| | County Percentages | 40.6 | 16.7 | 1.9 |

Fremont and Clark counties, ID

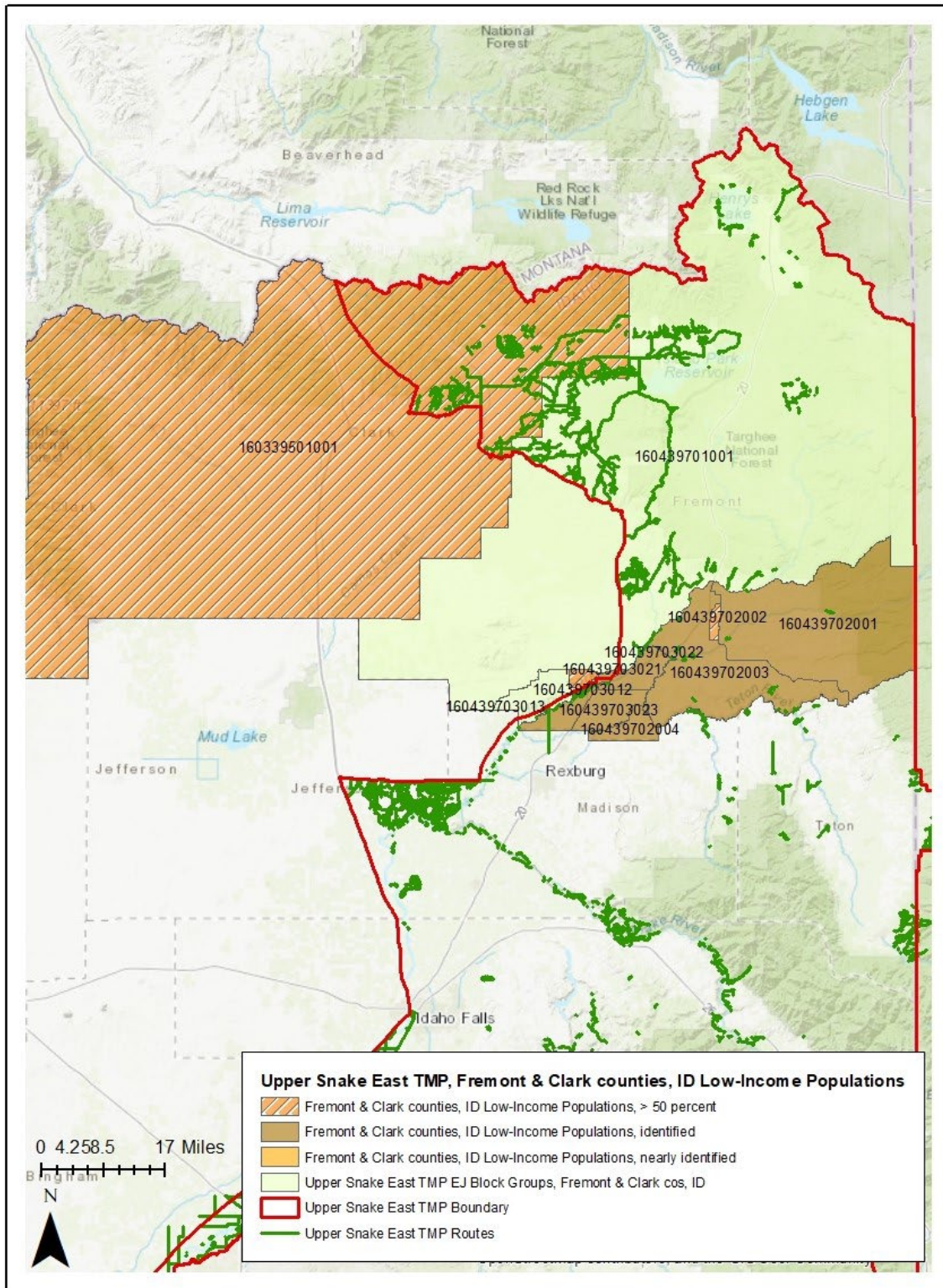
There are an estimated 13,996 people in the Fremont and Clark county block groups.

Low-Income Analysis: Low-income environmental justice communities are identified in Fremont and Clark counties. There are 5,683 people (40.6 percent) in selected Bonneville block groups that are identified in a low-income analysis.

Minority Analysis: Minority environmental justice communities are identified in Fremont and Clark counties. There are 2,340 people (16.7 percent) in selected Fremont and Clark block groups that are identified in a minority analysis.

Tribal Analysis: Tribal environmental justice communities are identified in Fremont and Clark counties. There are 260 people (1.9 percent) in selected Fremont and Clark block groups that are identified in a Tribal analysis.

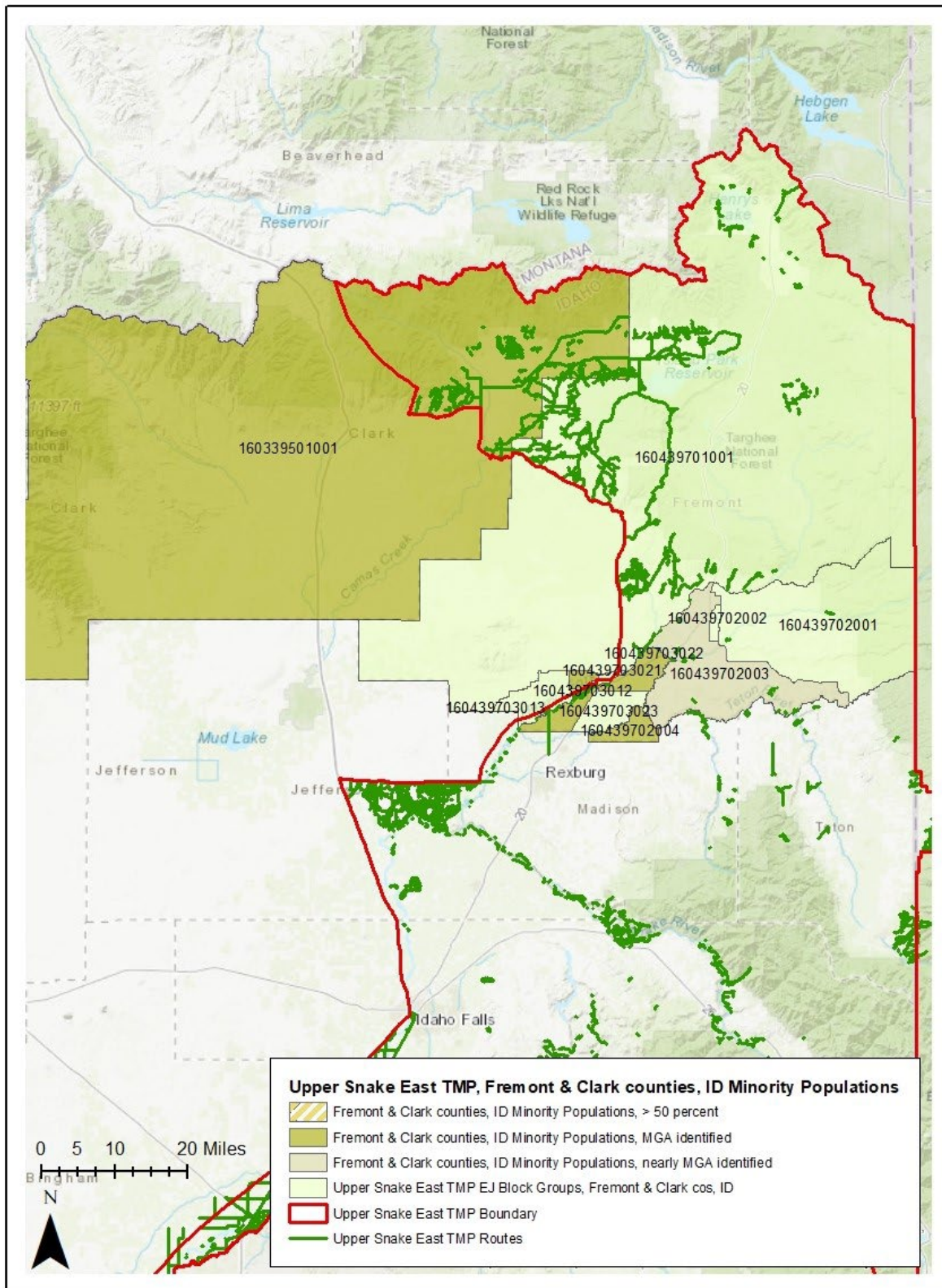
1 Figure 14: Fremont and Clark counties, ID; Low-Income Environmental Justice Communities



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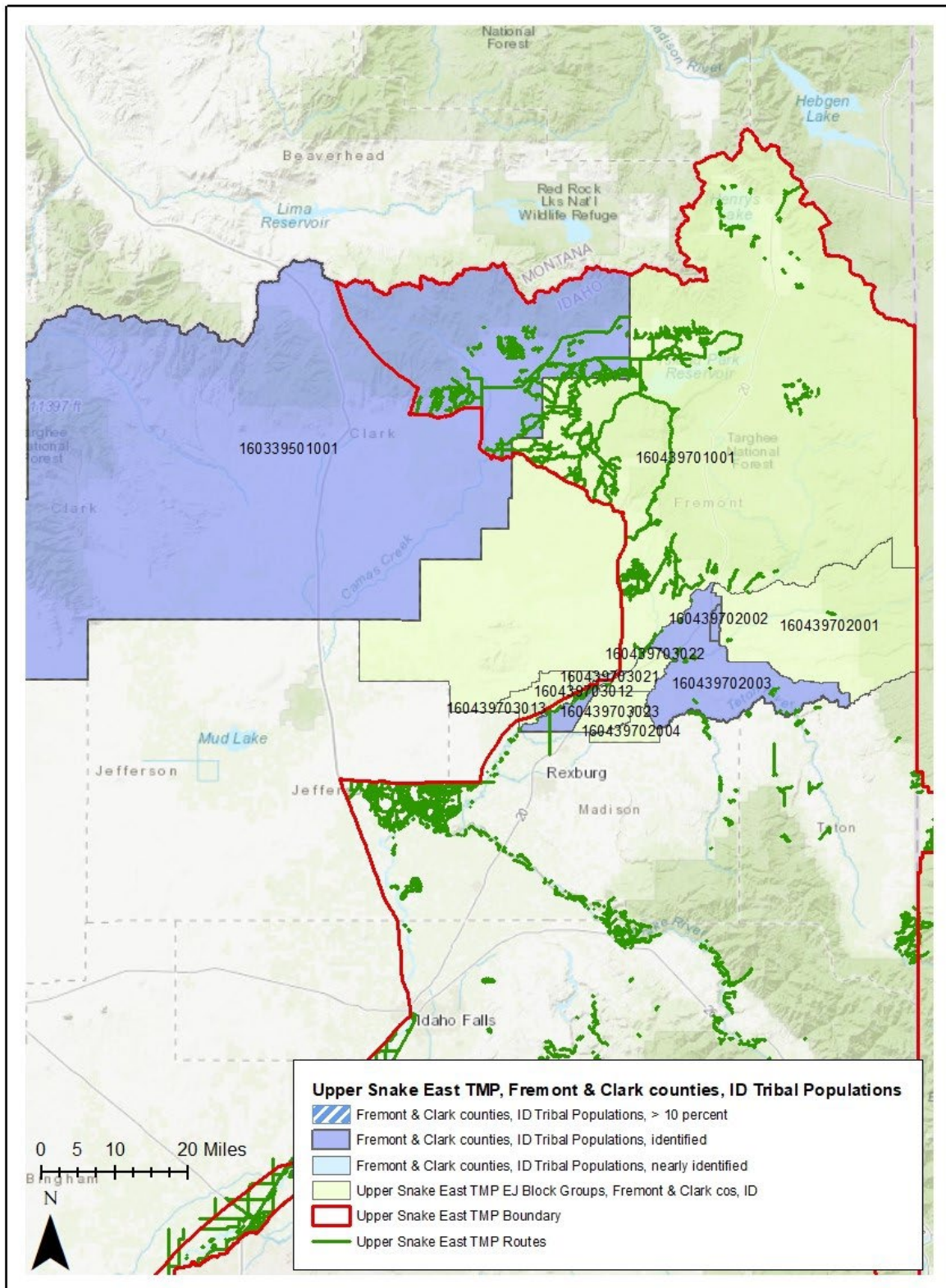
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1 Figure 15: Fremont and Clark counties, ID; Minority Environmental Justice Communities



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1 Figure 16: Fremont and Clark counties, ID; Tribal Environmental Justice Communities



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1 **Upper Snake East TMP Environmental Justice Study Area: Jefferson County**

2 Table 7: Jefferson County Environmental Justice Baseline Analysis

| Block Group | Description | Low-Income % | Minority % | Tribal % |
|--------------|---------------------------------------|--------------|-------------|------------|
| 160519601001 | ID, Jefferson Co., Roberts | 52.32 | 27.15 | 2.42 |
| 160519601002 | ID, Jefferson Co., Camas NWR, Hamer | 32.21 | 20.89 | 0.07 |
| 160519601003 | ID, SW Jefferson Co. | 38.73 | 19.65 | 0.00 |
| 160519602001 | ID, Jefferson Co., Menan | 48.54 | 6.35 | 0.00 |
| 160519602002 | ID, Jefferson Co., Lewisville | 29.07 | 27.73 | 0.82 |
| 160519602003 | ID, Jefferson Co., Lewisville Knolls | 30.12 | 16.78 | 0.00 |
| 160519603011 | ID, Jefferson Co., W. Rigby | 40.01 | 8.76 | 0.55 |
| 160519603021 | ID, Jefferson Co., NE Rigby | 46.00 | 45.82 | 4.58 |
| 160519603022 | ID, Jefferson Co., S Ribgy | 7.38 | 1.55 | 2.85 |
| 160519603023 | ID, Jefferson Co., NW Rigby | 20.11 | 14.17 | 10.76 |
| 160519604011 | ID, Jefferson Co., E Rigby | 41.66 | 0.60 | 12.91 |
| 160519604012 | ID, Jefferson Co., Rigby Airport | 13.70 | 10.72 | 0.00 |
| 160519604013 | ID, Jefferson Co., S of Rigby | 50.67 | 28.64 | 0.00 |
| 160519604021 | ID, Jefferson Co., Ririe | 27.92 | 8.12 | 0.05 |
| 160519604022 | ID, Jefferson Co., Knapp Scout Hollow | 31.42 | 6.24 | 2.48 |
| 160519604023 | ID, Jefferson Co. | 29.98 | 1.25 | 0.30 |
| | Thresholds for Identification | 31.3 | 20.9 | 2.6 |
| | County Percentages | 35.4 | 13.4 | 2.9 |

3

4 **Jefferson County, ID**

5 There are an estimated 29,238 people in the Jefferson County block groups.

6 **Low-Income Analysis:** Low-income environmental justice communities are identified in Jefferson County.

7 There are 10,347 people (35.4 percent) in selected Jefferson block groups that are identified in a low-income
8 analysis.

9 **Minority Analysis:** Minority environmental justice communities are identified in Jefferson County. There are

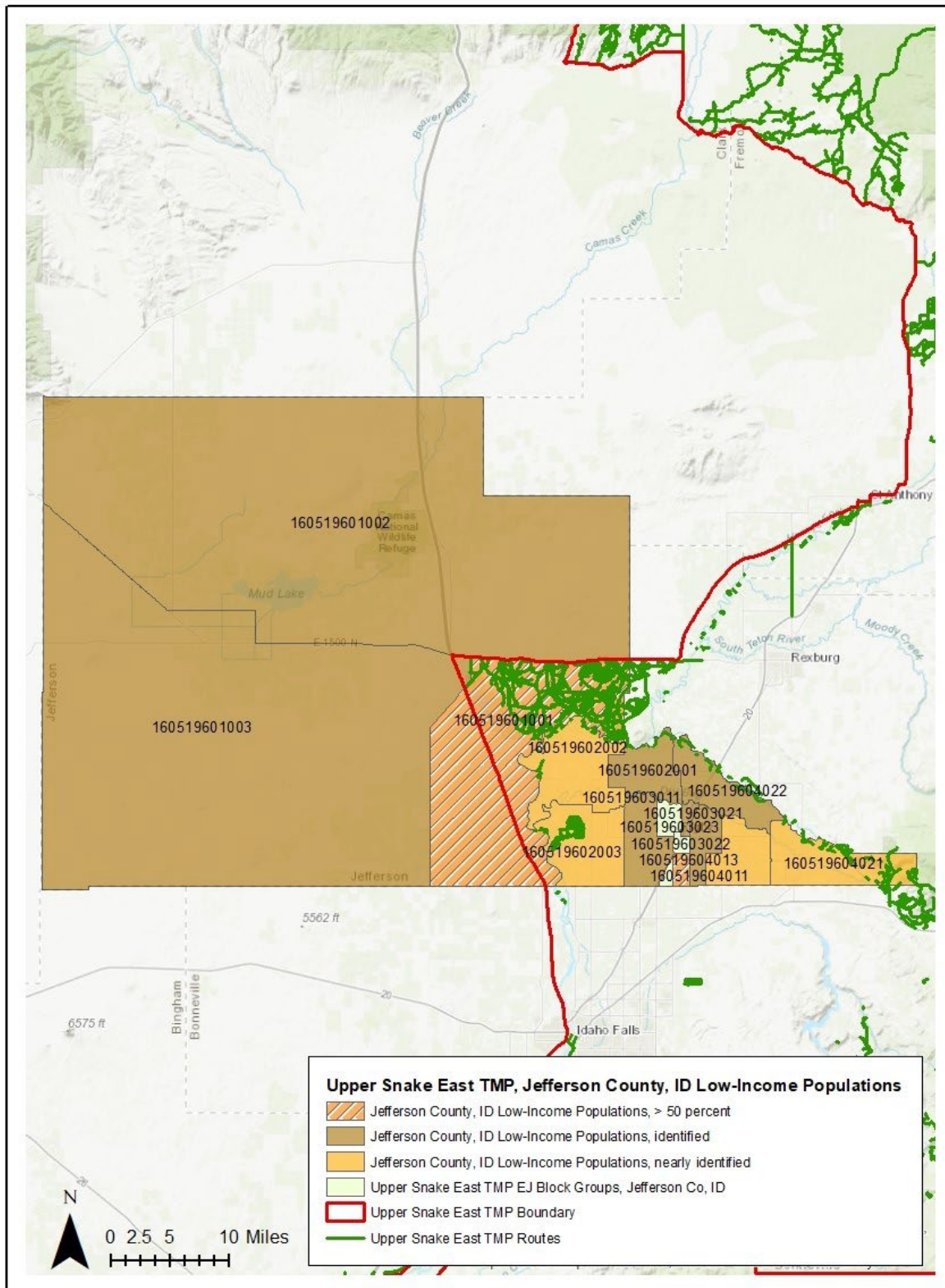
10 3,911 people (13.4 percent) in selected Jefferson block groups that are identified in a minority analysis.

11 **Tribal Analysis:** Tribal environmental justice communities are identified in Jefferson County. There are 836

12 people (2.9 percent) in selected Jefferson block groups that are identified in a Tribal analysis.

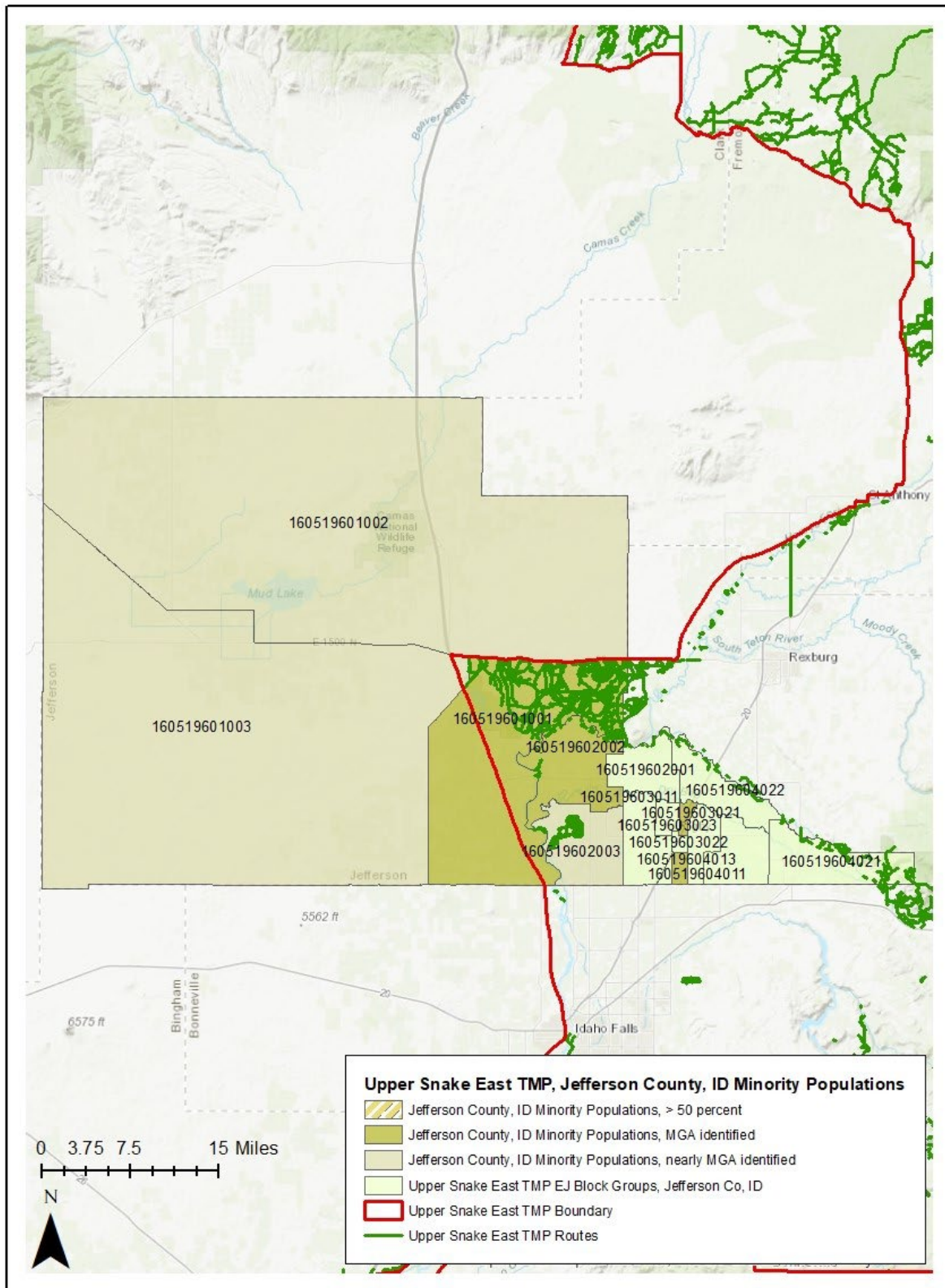
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1 Figure 17: Jefferson County, ID; Low-Income Environmental Justice Communities



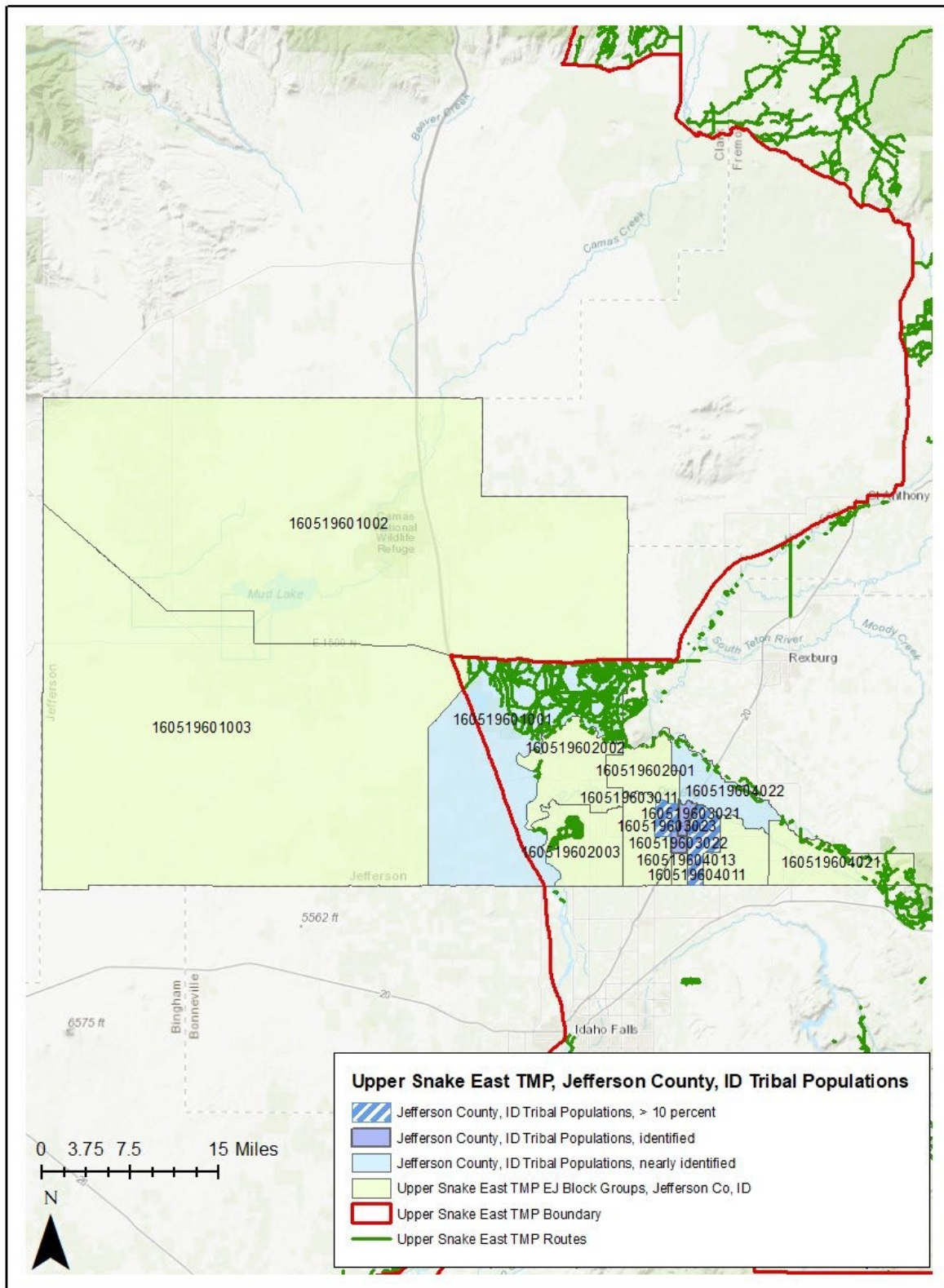
2

1 Figure 18: Jefferson County, ID; Minority Environmental Justice Communities



2

1 Figure 19: Jefferson County, ID; Tribal Environmental Justice Communities



2

1 **Upper Snake East TMP Environmental Justice Study Area: Madison County**

2

3 Table 8: Madison County Environmental Justice Baseline Analysis

| Block Group | Description | Low-Income % | Minority % | Tribal % |
|--------------|--|--------------|------------|----------|
| 160659501011 | ID, Madison Co., Hinkley | 27.64 | 6.75 | 0.00 |
| 160659501012 | ID, W Madison Co., Menan Buttes | 17.44 | 0.00 | 0.00 |
| 160659501021 | ID, Madison Co., S of Sugar City | 28.99 | 8.94 | 0.00 |
| 160659501022 | ID, Madison Co., Sugar City, Moody Creek | 39.98 | 11.83 | 0.42 |
| 160659501031 | ID, Madison Co., N Rexburg, ArtCo Business Park | 48.83 | 0.00 | 0.00 |
| 160659501032 | ID, Madison Co., Teton Lakes Golf Course | 38.77 | 0.00 | 0.00 |
| 160659502001 | ID, Madison Co., N Rexburg, City Hall | 71.03 | 11.52 | 1.88 |
| 160659502002 | ID, Madison Co., NW Rexburg, W. Main St | 70.19 | 12.02 | 0.79 |
| 160659502003 | ID, Madison Co., NW Rexburg, Airport | 34.14 | 9.14 | 0.00 |
| 160659503011 | ID, Madison Co., Rexburg, Post Office | 54.58 | 14.79 | 0.00 |
| 160659503012 | ID, Madison Co., Rexburg, N Campus | 0.00 | 7.21 | 0.00 |
| 160659503013 | ID, Madison Co., E Rexburg, Cornell Ave | 84.00 | 16.37 | 2.77 |
| 160659503014 | ID, Madison Co., Rexburg, Univ. Plaza, LDS Church | 90.51 | 18.83 | 0.00 |
| 160659503015 | ID, Madison Co., Rexburg, Steiner Ave | 94.78 | 2.65 | 0.00 |
| 160659503016 | ID, Madison Co., Rexburg, Hemming Village | 86.05 | 16.10 | 0.00 |
| 160659503031 | ID, Madison Co., Rexburg, Campus | 98.00 | 3.20 | 0.20 |
| 160659503032 | ID, Madison Co., S Rexburg | 49.73 | 35.64 | 0.00 |
| 160659503033 | ID, Madison Co., S Rexburg, Madison M.S. | 52.52 | 32.32 | 0.00 |
| 160659503034 | ID, Madison Co., W. Rexburg | 75.86 | 2.92 | 0.00 |
| 160659503035 | ID, Madison Co., W Rexburg | 51.62 | 39.35 | 0.00 |
| 160659503041 | ID, Madison Co., W Rexburg | 70.18 | 0.00 | 0.00 |
| 160659503042 | ID, Madison Co., SW Rexburg | 83.23 | 1.65 | 0.00 |
| 160659503043 | ID, Madison Co., Rexburg, Trejo Professional Park | 89.12 | 26.00 | 0.55 |
| 160659503044 | ID, Madison Co., Rexburg, Kennedy School, LDS Church | 15.27 | 18.70 | 4.45 |
| 160659504011 | ID, Madison Co., SE Rexburg | 22.12 | 9.49 | 1.13 |
| 160659504012 | ID, Madison Co., E Rexburg, Lincoln E.S. | 33.80 | 3.04 | 0.00 |
| 160659504021 | ID, E. Madison Co. | 27.52 | 1.64 | 0.00 |
| 160659504022 | ID, Madison Co., NE Rexburg, Madison J.H. | 48.84 | 23.14 | 2.96 |
| 160659505011 | ID, Madison Co., Madison H.S. | 38.20 | 1.31 | 0.00 |
| 160659505012 | ID, Madison Co., E of Menan Buttes | 31.35 | 4.94 | 10.22 |
| 160659505021 | ID, S. Madison Co., Archer | 12.82 | 1.25 | 0.00 |

| | | | | |
|--------------|--------------------------------------|-------------|-------------|------------|
| 160659505022 | ID, Madison Co., S of Rexburg | 36.03 | 13.02 | 0.53 |
| | Thresholds for Identification | 31.3 | 20.9 | 2.6 |
| | County Percentages | 51.9 | 11.9 | 0.9 |

1

2 **Madison County, ID**

3 There are an estimated 39,705 people in the Madison County block groups.

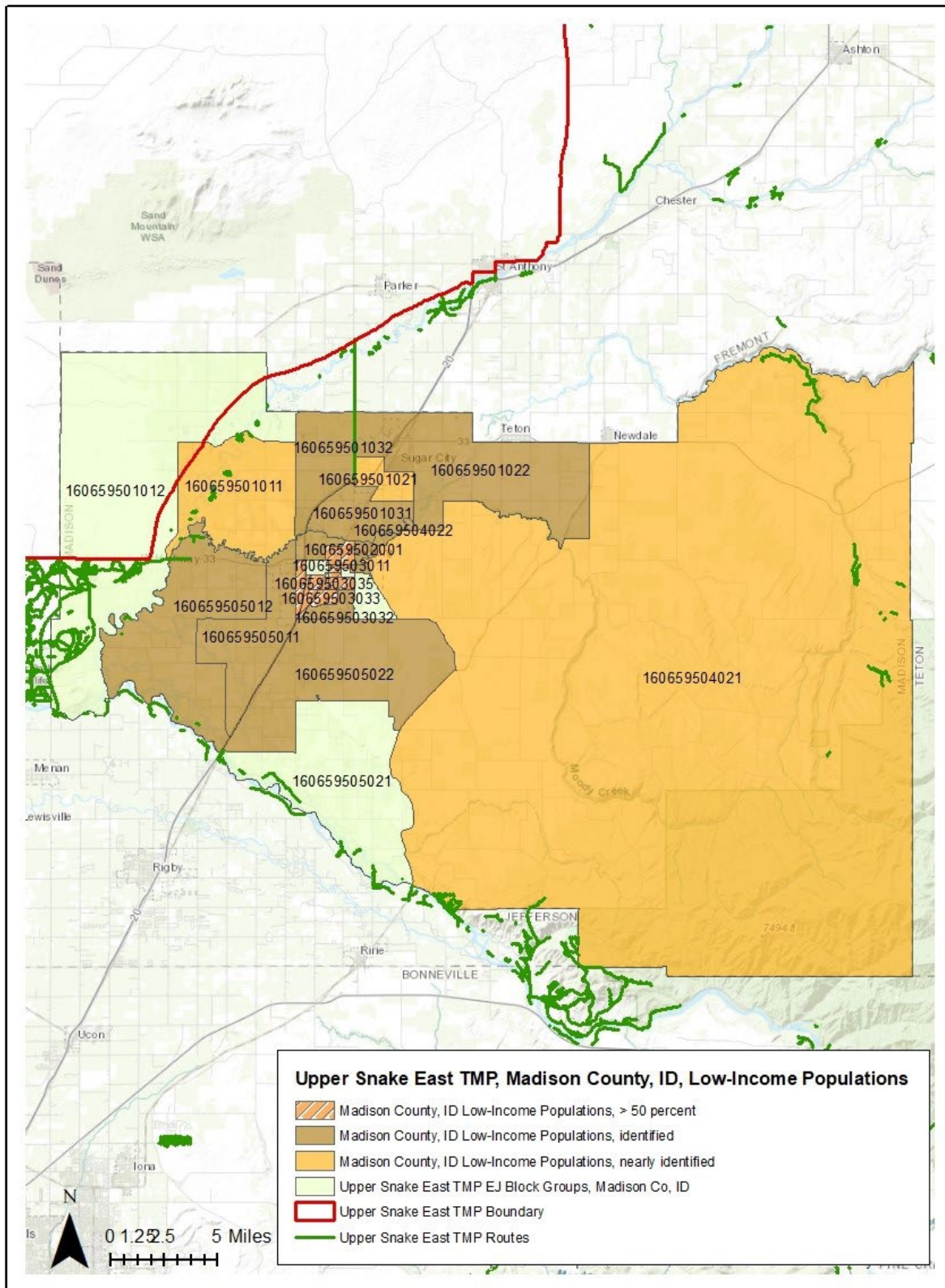
4 **Low-Income Analysis:** Low-income environmental justice communities are identified in Madison County.
5 There are 20,614 people (51.9 percent) in selected Madison block groups that are identified in a low-income
6 analysis.

7 **Minority Analysis:** Minority environmental justice communities are identified in Madison County. There are
8 4,702 people (11.9 percent) in selected Madison block groups that are identified in a minority analysis..

9 **Tribal Analysis:** Tribal environmental justice communities are identified in Madison County. There are 367
10 people (0.9 percent) in selected Madison block groups are identified in a Tribal analysis.

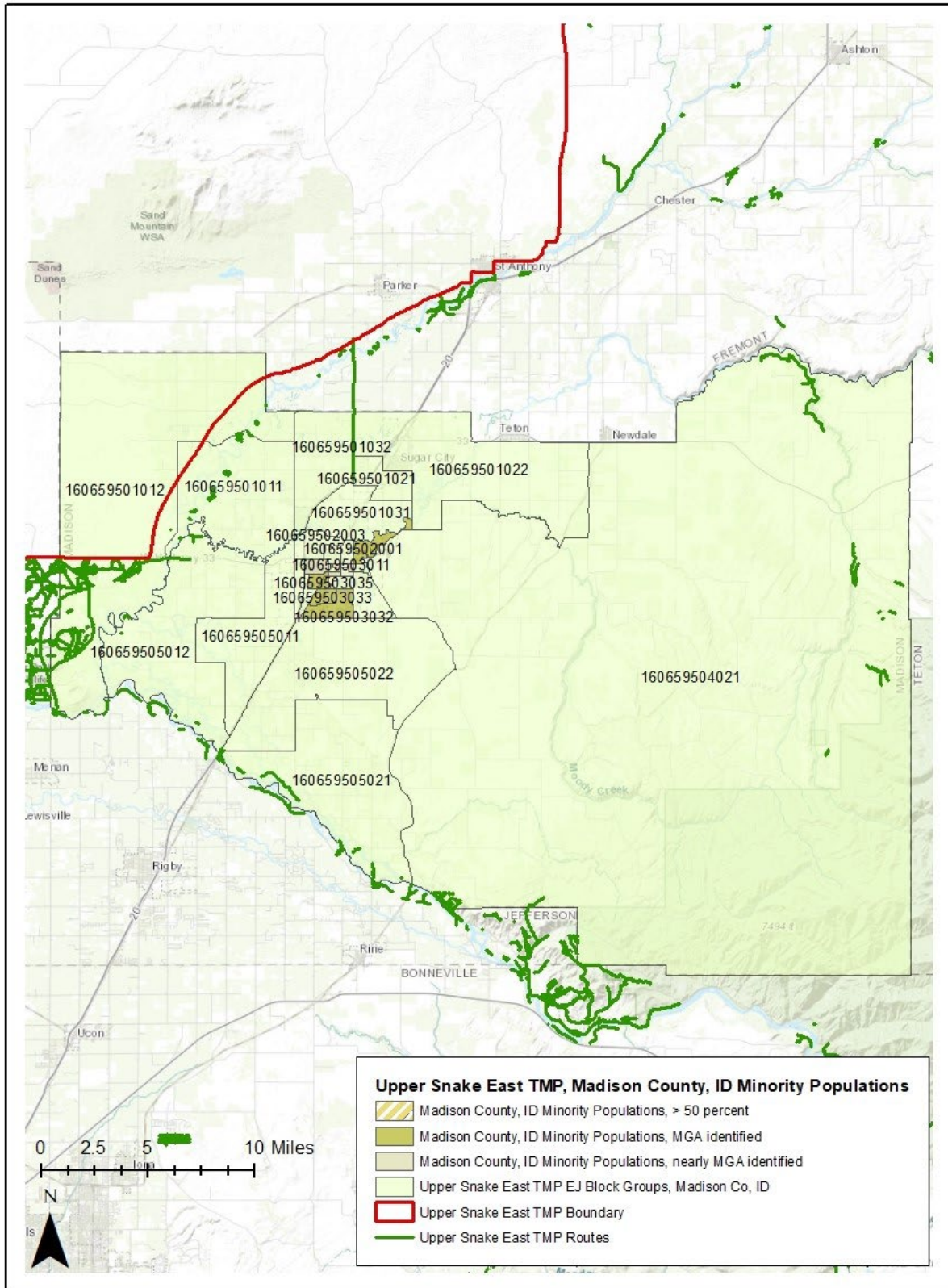
11

1 Figure 20: Madison County, ID; Low-Income Environmental Justice Communities



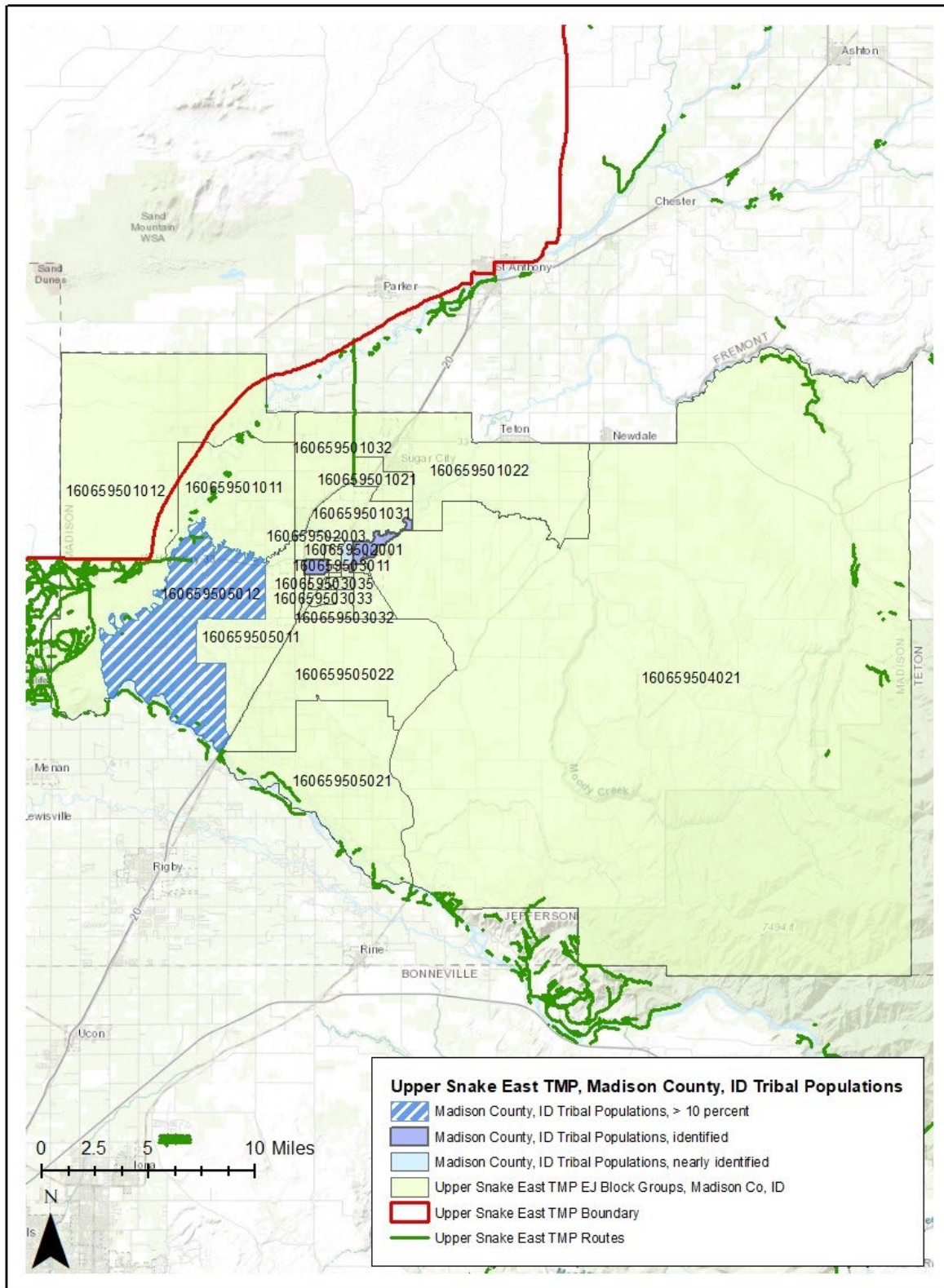
2

1 Figure 21: Madison County, ID; Minority Environmental Justice Communities



2

1 Figure 22: Madison County, ID; Tribal Environmental Justice Communities



2

1 **Upper Snake East TMP Environmental Justice Study Area: Power County**

2

3 Table 9: Power County Environmental Justice Baseline Analysis

| Block Group | Description | Low-Income % | Minority % | Tribal % |
|--------------|--|--------------|-------------|------------|
| 160779601001 | ID, S and E Power Co., Rockland, Arbon | 55.84 | 5.79 | 2.44 |
| 160779601002 | ID, Power Co., Fort Hall Reservation, Pocatello Airport, Pauline | 69.26 | 44.61 | 28.64 |
| 160779602001 | ID, Power Co., W of American Falls | 10.74 | 11.99 | 1.81 |
| 160779602002 | ID, Power Co., AF, Loki Park, Airport | 52.66 | 71.79 | 0.00 |
| 160779602003 | ID, Power Co., AF, City Park | 35.97 | 23.96 | 15.22 |
| 160779602004 | ID, Power Co., AF, American Falls HS | 24.11 | 38.06 | 0.00 |
| 160779602005 | ID, W Power Co. | 30.79 | 41.80 | 0.00 |
| | Thresholds for Identification | 31.3 | 20.9 | 2.6 |
| | County Percentages | 43.9 | 39.0 | 7.0 |

4

5 **Power County, ID**

6 There are an estimated 7,582 people in the Power County block groups.

7 **Low-Income Analysis:** Low-income environmental justice communities are identified in Power County.

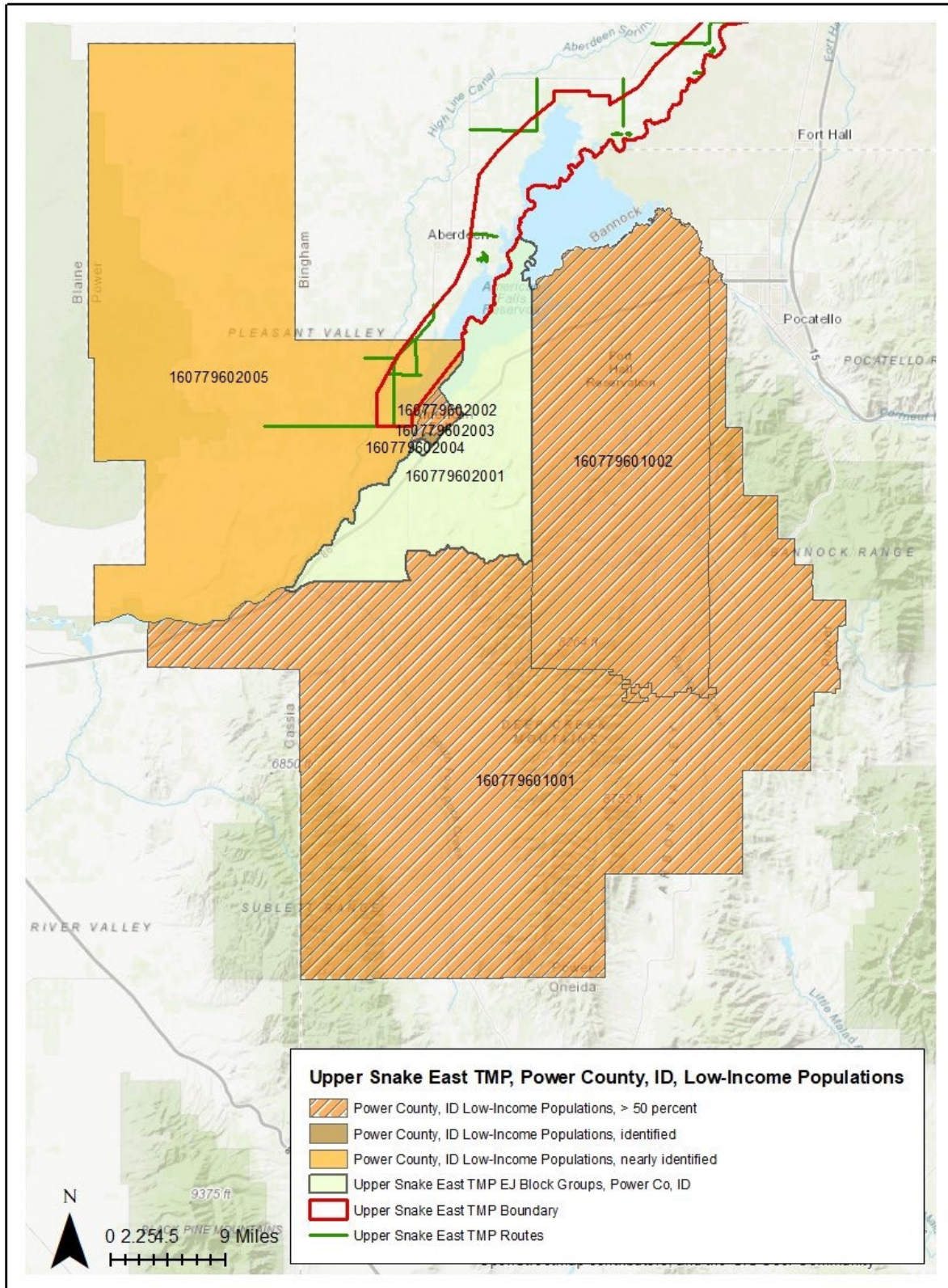
8 There are 3,331 people (43.9 percent) in selected Power block groups that are identified in a low-income
9 analysis.

10 **Minority Analysis:** Minority environmental justice communities are identified in Power County. There are
11 2,953 people (39.0 percent) in selected Power block groups are identified in a minority analysis.

12 **Tribal Analysis:** Tribal environmental justice communities are identified in Power County. There are 531
13 people (7.0 percent) in selected Power block groups are identified in a Tribal analysis.

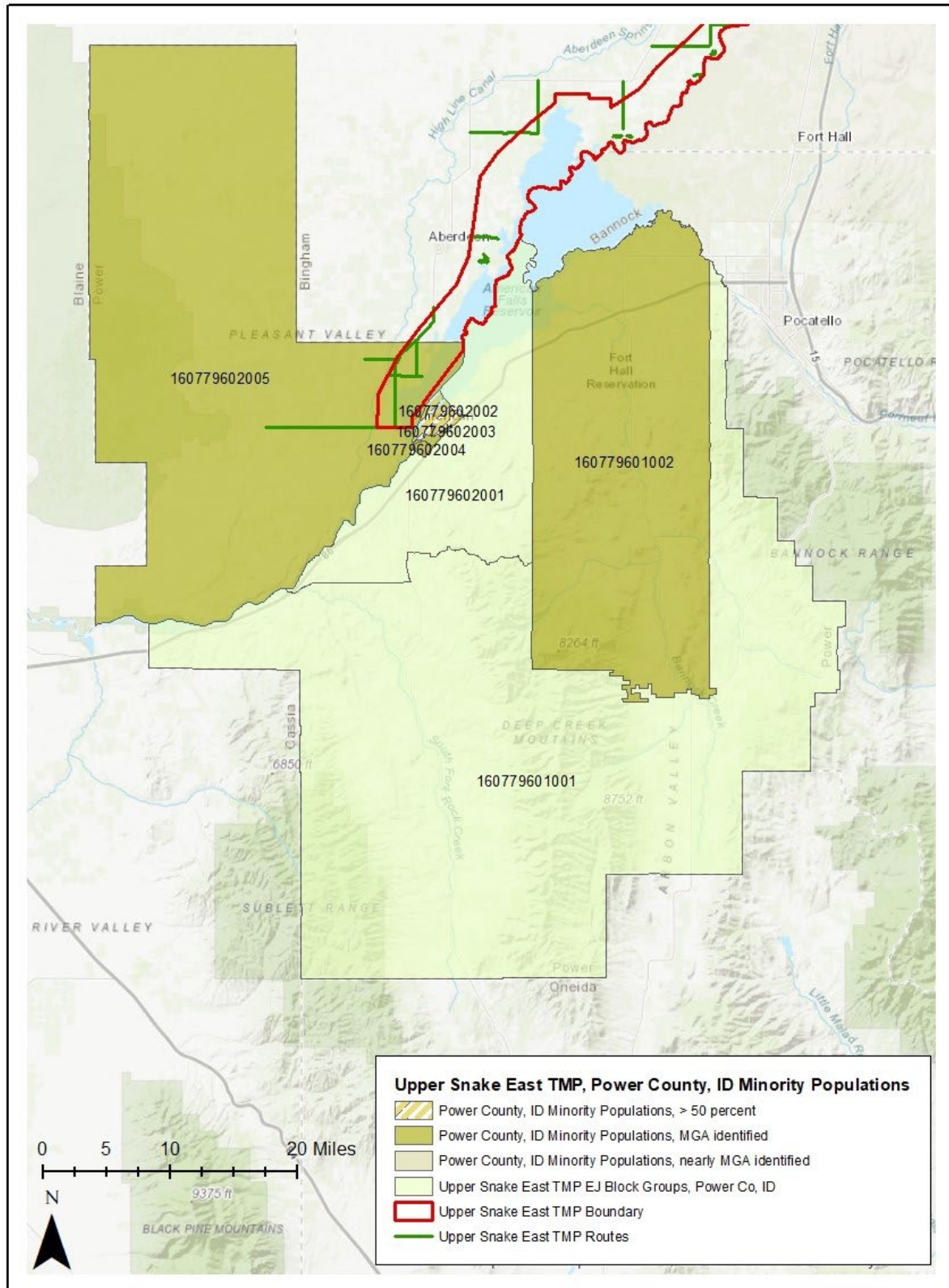
14

1 Figure 23: Power County, ID; Low-Income Environmental Justice Communities



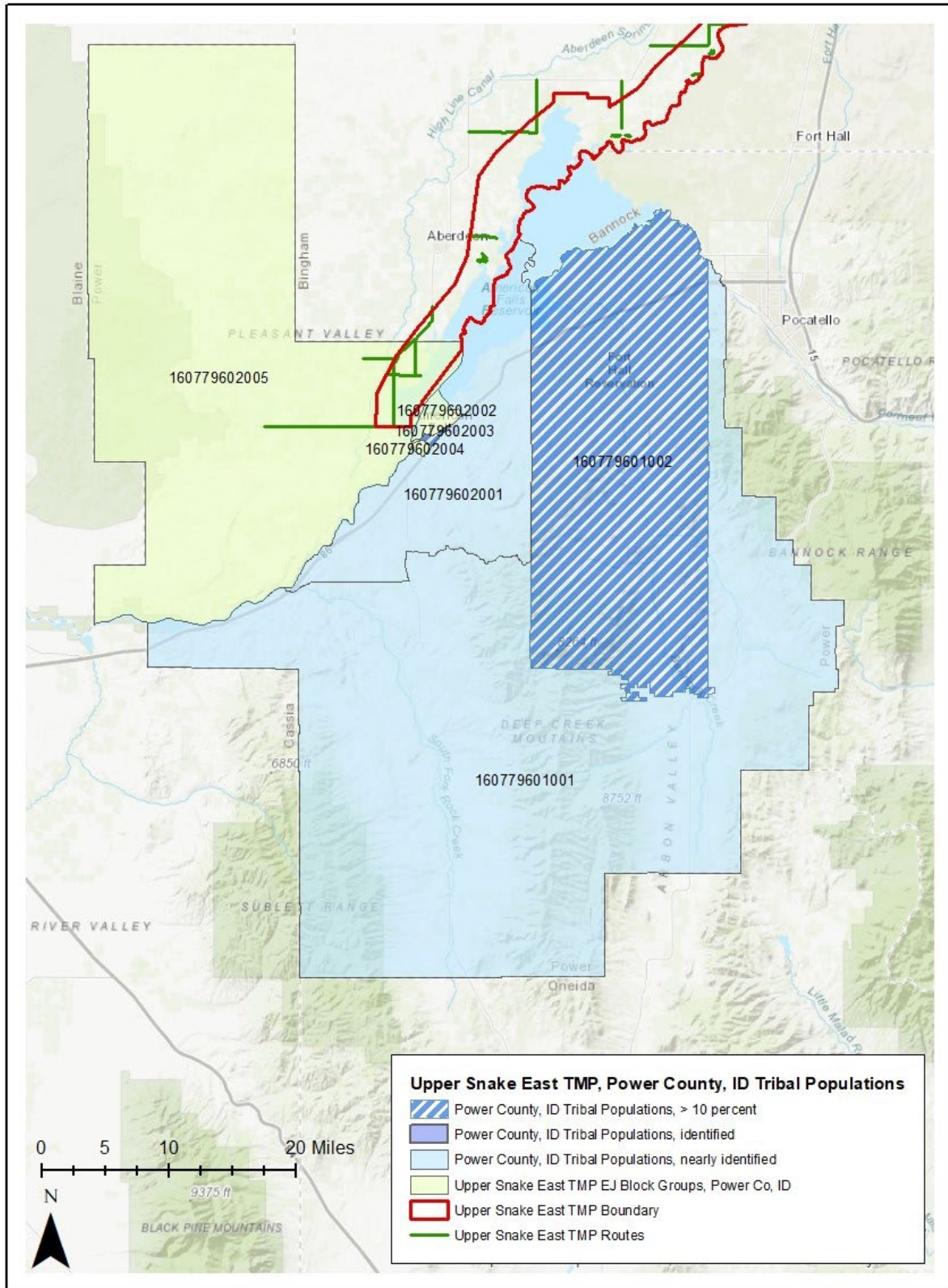
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1 Figure 24: Power County, ID; Minority Environmental Justice Communities



2

1 Figure 25: Power County, ID; Tribal Environmental Justice Communities



2

1 **Upper Snake East TMP Environmental Justice Study Area: Teton County**

2

3 Table 10: Teton County Environmental Justice Baseline Analysis

| Block Group | Description | Low-Income % | Minority % | Tribal % |
|--------------|--------------------------------------|--------------|-------------|------------|
| 160819601011 | ID, Teton Co., Tetoria | 12.91 | 6.15 | 0.00 |
| 160819601012 | ID, E Teton Co. | 0.00 | 0.00 | 0.00 |
| 160819601013 | ID, E Teton Co. | 0.00 | 0.00 | 0.00 |
| 160819601021 | ID, NW Teton Co. | 100.00 | 67.02 | 0.00 |
| 160819601022 | ID, NE Teton Co. | 100.00 | 0.00 | 0.00 |
| 160819601031 | ID, Teton Co., S of Driggs | 2.09 | 12.56 | 5.18 |
| 160819601032 | ID, Teton Co., Wild Cat Loop | 83.75 | 16.25 | 0.00 |
| 160819601033 | ID, SW Teton Co. | 23.43 | 0.00 | 0.00 |
| 160819601034 | ID, Teton Co., Huntsman Springs Golf | 47.18 | 68.63 | 0.00 |
| 160819601041 | ID, Teton Co., S and SE Driggs | 9.15 | 42.08 | 0.00 |
| 160819601042 | ID, Teton Co., E Driggs | 12.94 | 15.89 | 1.41 |
| 160819601043 | ID, E Teton Co., Driggs-Reed Airport | 13.09 | 0.00 | 0.00 |
| 160819601051 | ID, E Teton Co., N of Victor | 3.35 | 0.00 | 0.00 |
| 160819601052 | ID, Teton Co., N Victor | 35.74 | 33.02 | 12.01 |
| 160819601053 | ID, Teton Co., Elliott Creek | 11.91 | 8.11 | 0.00 |
| 160819601061 | ID, Teton Co., E. Victor | 16.82 | 10.01 | 7.11 |
| 160819601062 | ID, Teton Co., Little Pine Creek | 35.35 | 0.00 | 0.00 |
| 160819601071 | ID, Teton Co., Victor | 26.76 | 17.63 | 4.97 |
| 160819601072 | ID, Teton Co., E and S Victor | 36.13 | 34.89 | 2.64 |
| | Thresholds for Identification | 31.3 | 20.9 | 2.6 |
| | County Percentages | 23.5 | 18.9 | 0.8 |

4

5 **Teton County, ID**

6 There are an estimated 11,776 people in the Teton County block groups.

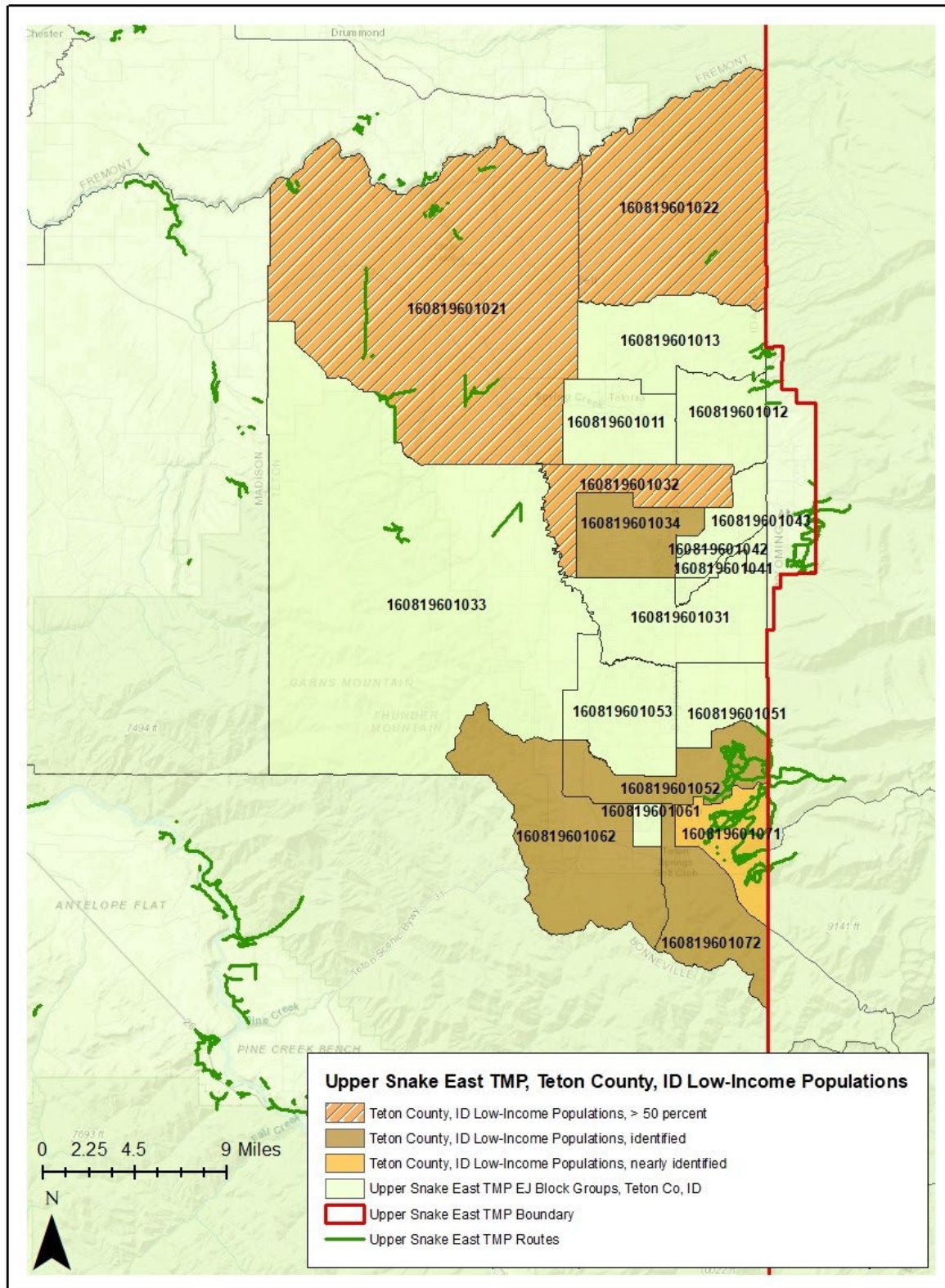
7 **Low-Income Analysis:** Low-income environmental justice communities are identified in Teton County. There
 8 are 2,763 people (23.5 percent) in selected Teton block groups that are identified in a low-income analysis.

9 **Minority Analysis:** Minority environmental justice communities are identified in Teton County. There are
 10 2,227 people (18.9 percent) in selected Teton block groups that are identified in a minority analysis.

11 **Tribal Analysis:** Tribal environmental justice communities are identified in Teton County. There are 88
 12 people (0.8 percent) in selected Teton block groups that are identified in a Tribal analysis.

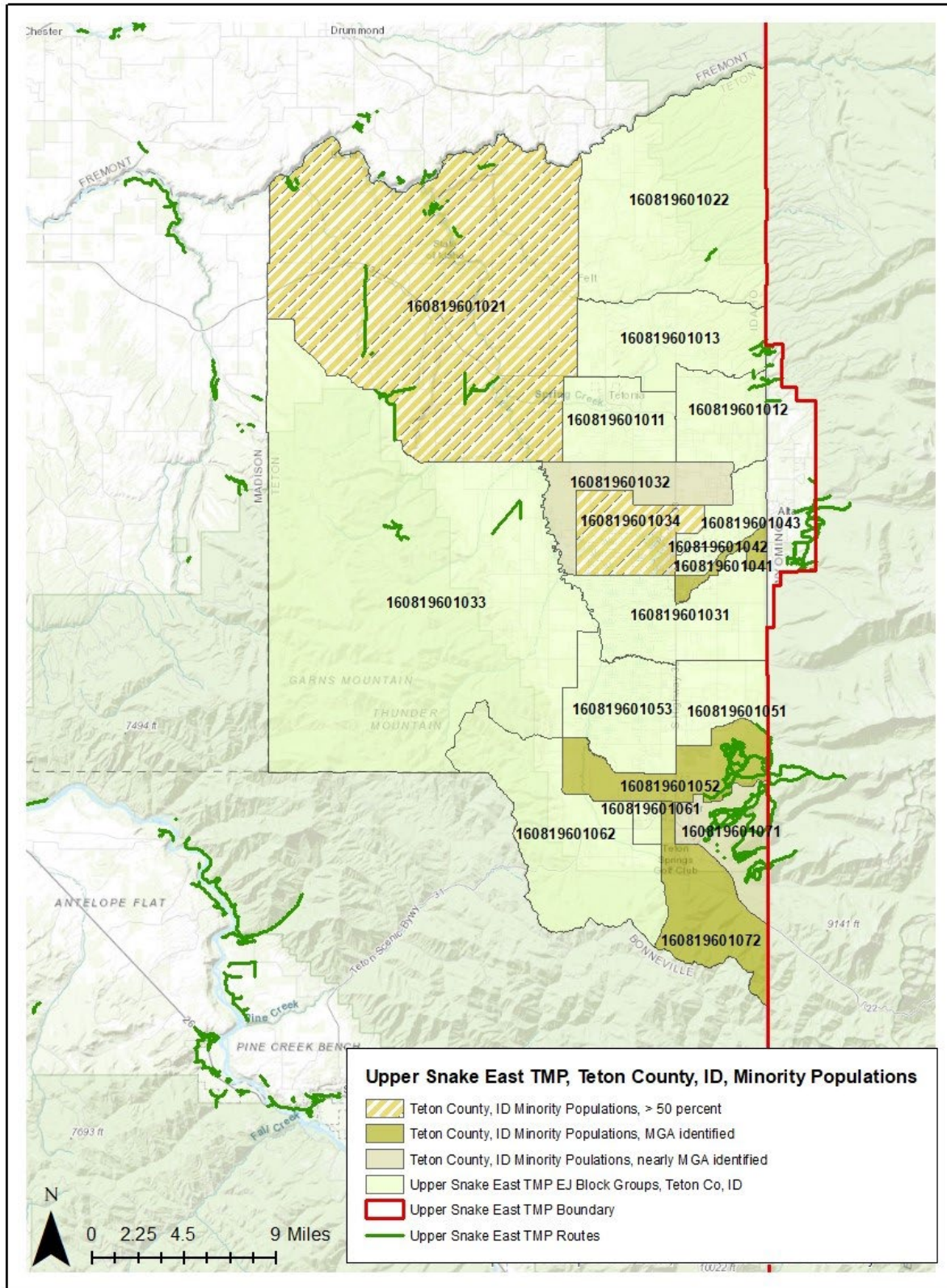
13

1 Figure 26: Teton County, ID; Low-Income Environmental Justice Communities



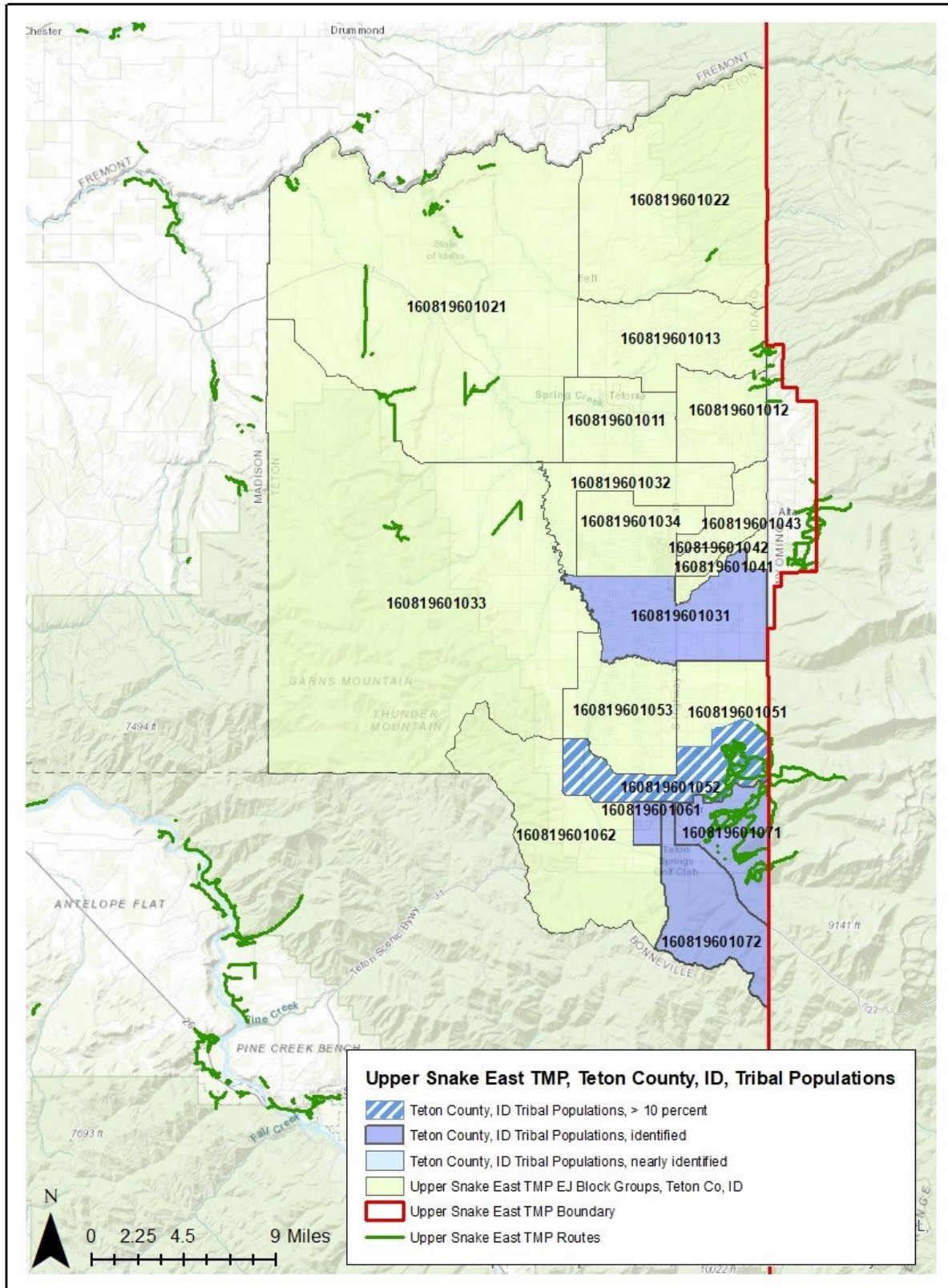
2

1 Figure 27: Teton County, ID; Minority Environmental Justice Communities



2

1 Figure 28: Teton County, ID; Tribal Environmental Justice Communities



2

1 **Upper Snake East TMP Environmental Justice Study Area: Montana and Wyoming**

2

3 Table 11: Montana and Wyoming Environmental Justice Baseline Analysis

| Block Group | Description | Low-Income % | Minority % | Tribal % |
|--------------|--|--------------|-------------|------------|
| 300010001002 | MT, Beaverhead Co., Lima | 36.79 | 10.05 | 0.32 |
| 300310015001 | MT, Gallatin Co., Hebgen Lake | 15.97 | 1.33 | 3.23 |
| 300310015002 | MT, Gallatin Co., S West Yellowstone | 46.93 | 35.31 | 0.00 |
| 300310015003 | MT, Gallatin Co., N West Yellowstone | 37.76 | 10.05 | 7.13 |
| 300570001021 | MT, Madison Co., Cliff Lake | 26.81 | 14.82 | 0.62 |
| 560239780011 | WY, Lincoln Co., Alpine, Star Valley | 9.66 | 12.33 | 0.59 |
| 560239780012 | WY, Lincoln Co., Thayne, Star Valley | 23.50 | 7.54 | 0.29 |
| 560239780022 | WY, Lincoln Co., Star Valley Ranch | 19.56 | 2.73 | 0.09 |
| 560239780023 | WY, Lincoln Co., Etna, Star Valley | 17.80 | 5.15 | 3.61 |
| 560239780024 | WY, Lincoln Co., Star Valley Ranch | 6.28 | 1.06 | 1.33 |
| 560239781001 | WY, Lincoln Co., Auburn | 23.72 | 5.19 | 2.17 |
| 560239781002 | WY, Lincoln Co., W Afton | 38.03 | 15.43 | 4.32 |
| 560239781003 | WY, Lincoln Co., E Afton | 28.73 | 12.19 | 3.92 |
| 560239781004 | WY, Lincoln Co., Fairview, Smoot | 16.03 | 2.63 | 0.00 |
| 560399676011 | WY, SW Teton Co. | 12.80 | 21.57 | 1.14 |
| 560399676012 | WY, Teton Co., YNP, N of Jackson Hole | 36.27 | 17.32 | 0.00 |
| 560399676013 | WY, Teton Co., Natl Elk Refuge | 21.62 | 31.20 | 0.00 |
| 560399676021 | WY, Teton Co., GTNP, Teton Village | 24.37 | 15.48 | 0.00 |
| 560399676022 | WY, Teton Co., GTNP, N of Jackson Hole, Jackson Lake | 35.44 | 1.81 | 0.00 |
| 560399676023 | WY, Teton Co., Jackson Hole Airport | 6.39 | 10.87 | 0.00 |
| 560399677011 | WY, Teton Co., E Jackson | 19.34 | 5.76 | 0.00 |
| 560399677012 | WY, Teton Co., Jackson | 35.22 | 32.82 | 0.00 |
| 560399677031 | WY, Teton Co., C-V Ranch School | 12.07 | 0.32 | 0.43 |
| 560399677032 | WY, Teton Co., Teton Pines | 16.11 | 0.48 | 0.48 |
| 560399677041 | WY, Teton Co., Mosquito Cr | 18.22 | 7.50 | 0.00 |
| 560399677042 | WY, Teton Co., Jackson Hole, Boyles Hill | 26.81 | 11.96 | 0.00 |
| 560399677043 | WY, Teton Co., N of Jackson Hole | 0.00 | 0.00 | 1.79 |
| 560399678011 | WY, Teton Co., Jackson | 28.57 | 18.47 | 0.00 |
| 560399678012 | WY, Teton Co., Jackson | 45.68 | 47.63 | 0.97 |
| 560399678013 | WY, Teton Co., S Jackson | 17.92 | 50.47 | 0.00 |
| 560399678021 | WY, Teton Co., S of Jackson, Cache Creek | 8.83 | 18.98 | 0.58 |
| 560399678022 | WY, Teton Co., Jackson Hole | 34.40 | 33.89 | 0.00 |
| 560399678023 | WY, Teton Co., Club at 3 Creek | 1.98 | 17.57 | 0.00 |
| 560399678024 | WY, Teton Co., S of Jackson Hole, Flat Creek | 16.35 | 11.89 | 1.40 |
| | Thresholds for Identification | 31.3 | 20.9 | 2.6 |
| | Combined Percentages | 22.8 | 14.6 | 1.0 |

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Selected Montana and Wyoming Block Groups

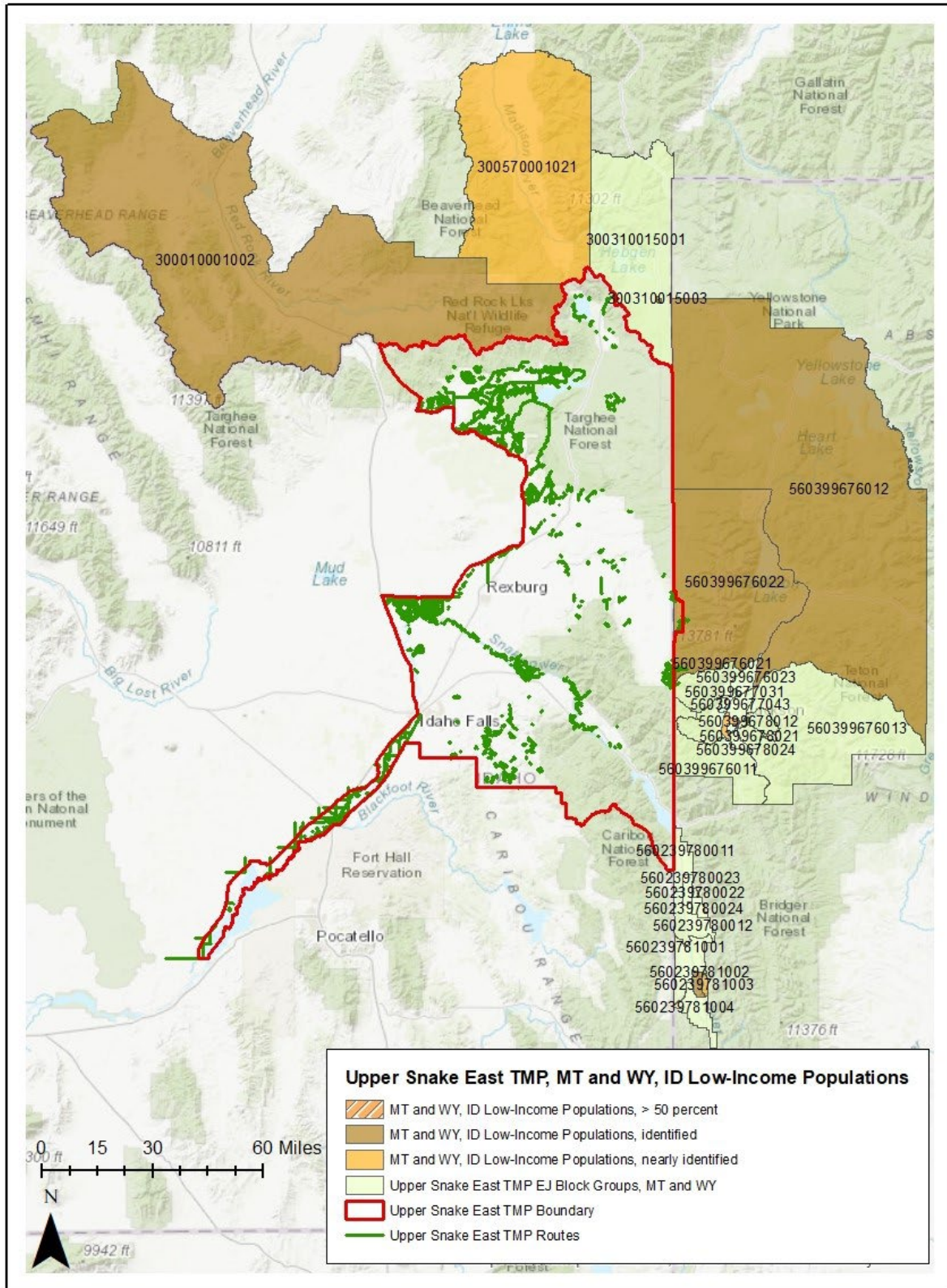
There are an estimated 40,420 people in the selected Montana and Wyoming block groups.

Low-Income Analysis: Low-income environmental justice communities are identified in the selected Montana and Wyoming block groups. There are 9,225 people (22.8 percent) in the selected Montana and Wyoming block groups. that are identified in a low-income analysis.

Minority Analysis: Minority environmental justice communities are identified in the selected Montana and Wyoming block groups. There are 5,900 people (14.6 percent) in the selected Montana and Wyoming block groups that are identified in a minority analysis.

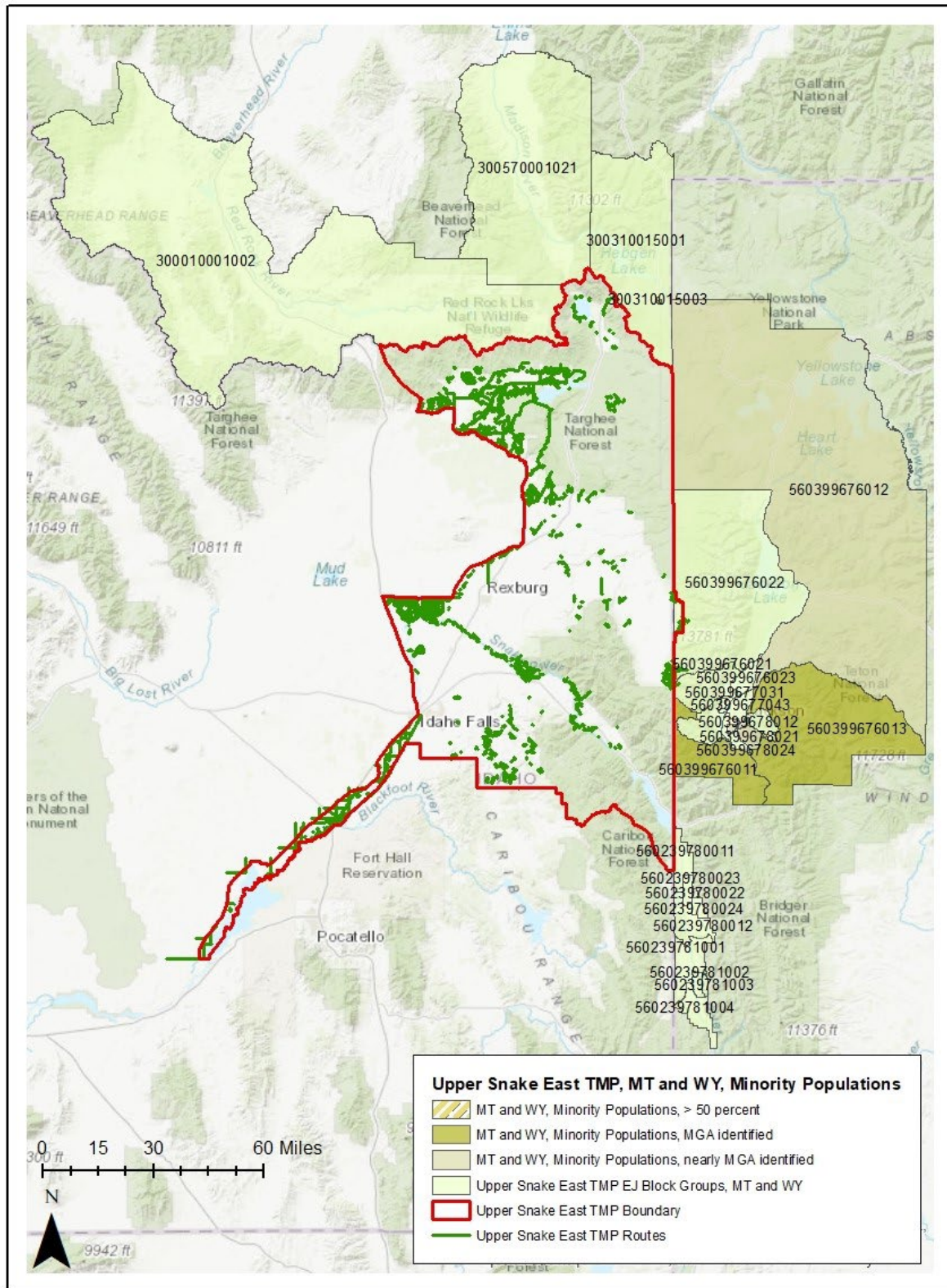
Tribal Analysis: Tribal environmental justice communities are identified in the selected Montana and Wyoming block groups. There are 404 people (1.0 percent) in the selected Montana and Wyoming block groups that are identified in a Tribal analysis.

1 Figure 29: Selected Montana and Wyoming BGs; Low-Income Environmental Justice Communities



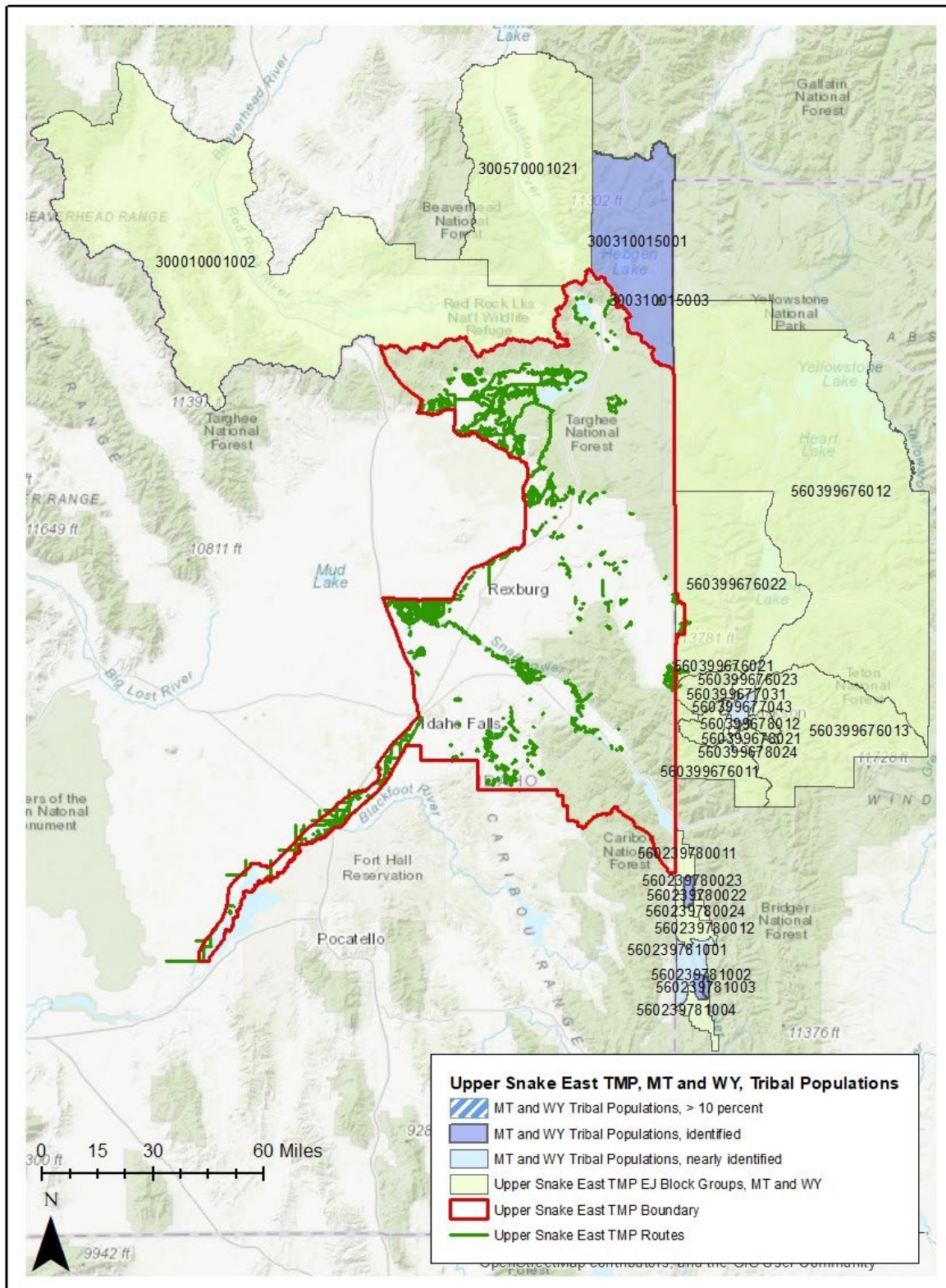
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1 Figure 30: Selected Montana and Wyoming BGs; Minority Environmental Justice Communities



2

1 Figure 31: Selected Montana and Wyoming BGs; Tribal Environmental Justice Communities



2

Appendix F. Route Reports

Introduction

Following completion of the travel route inventory and adjustments to existing BLM GIS data, a BLM IDT met for several week-long planning sessions to systematically review and evaluate each of the inventoried travel routes. During route evaluation, the BLM IDT used the ARS Route Evaluation software and GIS to systematically review, discuss, and document each route's location, physical characteristics, current management, operation and maintenance, authorized and permitted uses, public uses, associated biomes, all known natural and cultural resources, proximity to resources of concern, specially designated areas, and resource issues. Each intensive evaluation session included ongoing interactive IDT and Cooperator discussions of each route's resource and resource use concerns, as well as any route-specific public scoping information and Cooperator input available at the time of the evaluation process.

For each route, the IDT also considered and addressed the 43 CFR 8342.1 Designation Criteria, selecting applicable rationale demonstrating how the route would minimize impacts for each of the route's preliminary alternative designations. The process resulted in extremely thorough data capture, produced a preliminary range of reasonable designation alternatives for each route based on the alternative themes, and created a complete record of the process as documented in the route reports.

The full collection of route reports is available on the BLM's ePlanning site. Route reports provide a record of the BLM Identification Team (IDT) evaluation of each route identified during the route inventory. The header of each page of a route report displays the number that was used to identify the route during evaluation (e.g., UE1038). The number placed on published maps and used on route signs may not be the same. Each route report includes three sections: "General Background," "Evaluation Information," and "Designation Alternatives."

General Background

The first part of the "General Background" section of a route report shows the route's evaluation session date, the name of the session's contracted facilitator (in this case, planners working for BLM's contractor), and the BLM resource specialists (biologists, archaeologists, recreation planners, etc.) responsible for evaluation of the route. The second part of the "General Background" section provides physical information about the route such as length, width, use, jurisdictions over which it passes, and origin (if known). This section also discloses the level of maintenance a route receives, if any. Routes that are noted as *bladed* or *regularly maintained* are likely to see a higher level of use and, because they are bladed and tend to be wider as a result of routine blading, minimize the need for vehicles to travel off-route for the purposes of passing or parking. Routes that are *infrequently (minimally) maintained* or for which no maintenance is recorded in the route report may occasionally receive light maintenance but tend to be narrower user-created two-track type routes. Other information may also be included along with citizen comments and proposals, as applicable.

1 **Route report for UE1038**

Facilitator(s): Les Weeks; Cole Weeks

Initial Evaluation Date: 3/29/2016

Evaluators: **Jarom Gilbert**, GIS Specialist **Deena Teel**, Supervisory Natural Resource Specialist
Marissa King, Archaeologist **Monica Zimmerman**, Outdoor Recreation Planner
Amy Forsgren, Recreation Technician **Ryan Beatty**, Fisheries Biologist
Ben Dyer, Fuels **Jordan Hennefer**, Range Management Specialist
Justin Frye, Wildlife Biologist **Heather Schlenker**, Realty Specialist
Becky Lazdauskas, Realty Specialist **Devin Englestead**, Wildlife Biologist

2

TMA: USFO East
Length: 0.35 mi. **Width:** ATV Track **Class:** Primitive Road **Use Level:** Medium
Route Type(s): Connector
Surface: None identified by IDT **Maintained:** None identified by IDT
Origin: None identified by IDT **Constructed:** None identified by IDT
Jurisdictions: BLM; County Land

3

Additional Information: Route designation applies only to those portions of the route located on public lands managed by BLM.

General Evaluation Questions

| |
|--|
| <p>Does this route:</p> <ul style="list-style-type: none"> • either wholly or in part, have a right-of-way grant or is it simply an officially-recognized route maintained by a county or another government agency? YES • provide commercial, private property, or administrative access, e.g., via permit, ingress/egress rights or other jurisdictional responsibility? YES • provide a principal means of connectivity within a Travel Management Area or Management Zone? NO • exist as a result of a previous agency land use or implementation-level planning document decision and is managed as a transportation facility asset? NO • provide an important linkage between Travel Management Areas or Management Zones? NO |
| <p>Does this route provide network connectivity that contributes to recreational opportunities, access to specific recreation sites, public safety, or other public multi-use access opportunities enumerated in agency Organic laws? YES</p> |
| <p>Might the continued use of this route potentially impact:</p> <ul style="list-style-type: none"> • State or Federal special status species or their habitat? YES • cultural or any other specially-protected resources or objects identified in Agency planning documents? YES • any special area designations, e.g., National Monuments? YES • any other resources of concern? YES |
| <p>Can the anticipated potential impacts to the identified resources be avoided, minimized, i.e., reduced to acceptable levels, or be mitigated? YES</p> |
| <p>Can the commercial, private property, recreation or public uses of this route be adequately met by another route or routes that may minimize impacts to the resources identified as part of this evaluation or that may minimize cumulative effects on various other resources? NO</p> |

1 Evaluation Information

2 Introduction

3 Evaluation information in a route report is divided into three colored boxes that address the topics of CAPE
4 (yellow), public uses (blue), and special resource concerns (green).

5

6 CAPE

7 The first part of the “Evaluation Information” section focuses on CAPE issues. “CAPE” is an acronym that
8 represents the umbrella topic of commercial, administrative, and property owner access—and economics. In

1 the CAPE section, the general issue questions for CAPE are answered, and a listing of facilities and access is
2 provided. There are three types of access identified:

- 3 • Primary = Main access
- 4 • Alternate = Secondary or backdoor access
- 5 • Link = Route necessary for use of the primary access

Evaluation Information

| Commercial, Administrative, Property and Economics | |
|---|---|
| The following items help to identify the <u>purpose and need</u> of this route. This route provides access to the following facilities and/or jurisdictions for the purpose of carrying out administrative and/or authorized operations or for jurisdictional access. | |
| <u>Primary Access</u> <i>(leads directly to the listed jurisdiction or facility, and IS the main route used for access)</i> | |
| Type | Description |
| Lease Facilities | ROW - Road (IDI 28624; Links to IDI 6974) ROW - Utilities (IDI 26763,) Withdrawals (EO 1535; IDI 14886) |
| <u>Alternate Access</u> <i>(leads directly to the listed jurisdiction or facility, but IS NOT the main route used for access)</i> | |
| Type | Description |
| Jurisdictional Access | County Lands or Park |
| <u>Link Access</u> <i>(does not lead directly to the listed jurisdiction or facility, but is required to access a primary access route)</i> | |
| Type | Description |
| Agency Facilities | Recreation Site |
| Lease Facilities | ROW - Road (IDI 28624; Links to IDI 6974) |

6 Public Uses

7 The second part of the “Evaluation Information” section focuses on public uses and provides a list identifying
8 the facilities, modes of transportation, and activities associated with the route. If a facility, mode of
9 transportation, or activity was not identified as associated with the route, it is not listed. As in CAPE, facility
10 access is listed using the categories of “Primary,” “Alternate,” and “Link.” Mode of transportation and activity
11 are indicated by:

- 12 • Primary = Main mode or activity on the route
- 13 • Secondary = Other common modes and activities
- 14 • Infrequent = Uncommon modes or activities

15

Recreational Uses

The following items help to identify the purpose and need of this route. This route:

- provides public travel access to the listed recreation sites using the listed travel modes, and/or
- provides for recreational activity and experience opportunities in the area, and/or
- provides important route network connectivity for recreational access between two or more other routes.

Primary Access/Uses (main route used to access the destinations or use activities listed)

| Type | Description |
|-------------------------|-----------------------------|
| Activities | Hunting |
| | OHV Play |
| | Dispersed/Primitive Camping |
| | Snowmobiling |
| Modes of Transportation | Motorcycle |
| | UTV |
| | ATV |

Alternate Access / Secondary Uses (used to access the destinations or use activities listed, but not considered the main route)

| Type | Description |
|------------------------|-------------|
| None identified by IDT | |

Link Access / Infrequent Uses (rarely used to access the destinations or use activities listed)

| Type | Description |
|------------------------|----------------------------|
| Recreation Destination | Boat Ramp - Undeveloped |
| | Campground - Developed |
| | Campground - Undeveloped |
| | Day Use Area |
| | Parking Area - Undeveloped |

1 Resource and Resource Use Issues

2 The third part of the “Evaluation Information” section focuses on special resource concerns. General issue
3 questions for special resource concerns are answered. Then resources and concerns are identified. These are
4 grouped into general categories such as:

- 5 • Biome
- 6 • Special status animals
- 7 • Managed species
- 8 • Resource issues, etc.

- 1 In the “Special Resource Concerns” box, routes are characterized as:
- 2 • In = Route or a portion of the route is in the resource area or area of concern
 - 3 • Leads To = Route provides access to the resource area or area of concern but is not in the resource or
 - 4 area
 - 5 • Crosses = Route crosses the resource (e.g., a route crossing a stream or a cultural site directly on the
 - 6 route)
 - 7 • Prox = Proximate to; the route is near the resource or area of concern as indicated by the:
 - 8 • Dist = Proximate distance

Resource and Use Issues

The following items help to identify potential natural and cultural resource issues associated with the location and use of this route. This route is located in, leads to, crosses, or is within a set distance of the following resources or issues.

| Resource Type | Description |
|--------------------------|---|
| Biomes | In Mountain Big Sagebrush In Mixed Evergreen Deciduous Forest |
| Special Status Animals | In Grizzly Management Unit (GMU) Within 1 mile of Bald Eagle Nest (Admin only item.) |
| Managed Species | In Pronghorn Crucial Habitat |
| Cultural Resources | In Inventoried (Admin only item. Class III - All) |
| VRM/RSC | In VRM Class II - Retain existing character |
| Special Management Areas | In ACEC - Area of Critical Environmental Concern (Henrys Lake) |
| Resource Issues | In Invasive Vegetation (concern/location) |

9 Designation Alternatives

10 The route report also contains the IDT’s evaluation of alternative designations for each route. Alternative A
 11 (No Action/Current Management) simply states the current management of a route and its area designation (no
 12 color). The action alternatives (Alternatives B, C, and D in this example) are color-coded to “Open
 13 w/Management” or “Open” (green), “Limited w/Management” or “Limited” (orange), and “Closed” (pink).

14 For Open and Limited designations, “w/ Management” indicates that there are types of limitations, and that
 15 there would be adaptive management or other specific mitigation, maintenance, and/or monitoring that was
 16 identified during evaluation. The “w/ Management” portion of Limited and Open designation labels are route
 17 specific; it is not used in designation labels found earlier in this document. If there is management assigned to
 18 the selected designation for the route, that management will be required as part of the TMP.

19 Limited alternatives include specific limitations regarding route use (e.g., limited by season, vehicle width,
 20 etc.). For Closed alternatives, information is provided about how routes would be closed/decommissioned.
 21 Also, if a route is redundant to another route, that is specified.

22 The Designation Alternatives also documents how the BLM IDT assessed the manner in which each potential
 23 route designation within the TMA is consistent with 43 CFR 8342.1.

Potential Alternative Route Designations

Alternative A (Current Management, No Action Alternative)

Area Designation:

Limited to Designated Routes

Route Designation:

Open

Specific designations by user type:

Administrative/Official Users: All Federal, State and Local agencies may use this route by all motorized modes, year-round.

Authorized/Permitted Users: Currently authorized users may use this route by all motorized modes, year-round.

Additional users may be authorized by the BLM through future authorizations.

Non-motorized Public: The public may use this route by all non-motorized modes, year-round.

OHV Public: **Designation per 43 CFR § 8342.1: Open** - The public may use this route by all motorized modes, year-round.

Alternative B

Comprehensive Designation:

CLOSED

This route will be decommissioned and not managed as a BLM transportation asset. Unless otherwise signed, cross-country foot and animal use is allowed in the area.

OHV Public: Designation per 43 CFR § 8342.1: Closed

Specific Designation Criteria Addressed and Relevant to Route Issues:

- 43 CFR § 8342.1 (a) Areas and trails shall be located to minimize damage to soil, watershed, vegetation, air, or other resources of the public lands, and to prevent impairment of wilderness suitability.
- 43 CFR § 8342.1 (b) Areas and trails shall be located to minimize harassment of wildlife or significant disruption of wildlife habitats. Special attention will be given to protect endangered or threatened species and their habitats.

How Designation Addresses Criteria Above: Closing this route, along with natural reclamation, would reduce visual contrast created by the route. Closing this route would reduce overall impact of vehicle use and route footprint in the area. Closing this route would enhance wildlife habitat by eliminating motorized use and removing the route footprint. Closing this route would enhance wildlife movement by reducing fragmentation. Closing this route would eliminate motorized use, minimizing the potential for harassment of wildlife. The ROW associated with this route is the determining document with regard to a designation. The Route Evaluation Process carries forward the ROW decision and the data is used for cumulative effects analysis during the NEPA portion of the development of a Travel Management Plan.

Designation Criteria Addressed but Not Relevant to Route Issues:

(no known conflicts among users or no known resource concerns to minimize for)

- 43 CFR § 8342.1 (c)
- 43 CFR § 8342.1 (d)

Closure Method: Sign Closed; Natural rehabilitation

Alternative C

Comprehensive Designation:

LIMITED W/ MANAGEMENT

Comprehensive Designation Type:

Limited to transportation type.

Specific designations by user type:

Administrative/Official Users: All Federal, State and Local agencies may use this route by all motorized modes, year-round.

Authorized/Permitted Users: Currently authorized users may use this route by all motorized modes, year-round.

Additional users may be authorized by the BLM through future authorizations.

Non-motorized Public: The public may use this route by all non-motorized modes, year-round.

OHV Public: Designation per 43 CFR § 8342.1: Limited - The public may use this route by vehicles under 50 inches wide and smaller (including ATVs, motorcycles and all non-motorized modes), year-round.

Designation Criteria Addressed and Relevant to Route Issues:

• 43 CFR § 8342.1 (a) Areas and trails shall be located to minimize damage to soil, watershed, vegetation, air, or other resources of the public lands, and to prevent impairment of wilderness suitability.

• 43 CFR § 8342.1 (b) Areas and trails shall be located to minimize harassment of wildlife or significant disruption of wildlife habitats. Special attention will be given to protect endangered or threatened species and their habitats.

• 43 CFR § 8342.1 (c) Areas and trails shall be located to minimize conflicts between off-road vehicle use and other existing or proposed recreational uses of the same or neighboring public lands, and to ensure the compatibility of such uses with existing conditions in populated areas, taking into account noise and other factors.

How Designation Addresses Criteria Above: Allowing continued use of this route would minimize potential impacts to documented resources by concentrating motorized use (rather than dispersing it) on an alignment capable of accommodating the route's anticipated traffic volume. By limiting vehicle width to 50" wide or less, larger vehicles would be prevented from adding to surface impacts and route widening. Additionally, the potential for conflicts between users of different vehicle types would be reduced. The ROW associated with this route is the determining document with regard to a designation. The Route Evaluation Process carries forward the ROW decision and the data is used for cumulative effects analysis during the NEPA portion of the development of a Travel Management Plan.

Designation Criteria Addressed but Not Relevant to Route Issues:

(no known conflicts among users or no known resource concerns to minimize for)

• 43 CFR § 8342.1 (d)

Potential Management Actions:

Mitigation: Signing - Regulatory

Potential management actions may be incorporated with an overall monitoring strategy that would assess the status and/or integrity of the potentially impacted sensitive resource or resource issues identified as they relate to various external factors, e.g., climate cycles, exotic species introduction, visitor use levels (type, intensity, and season of use), etc. Monitoring data that indicate a decline in resource integrity or reveal methods of mitigation that proved to be unsuccessful would then trigger adaptive and appropriate responses aimed at restoring integrity or successfully mitigating undesirable conditions.

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Alternative D

Comprehensive Designation:

OPEN

Specific designations by user type:

Administrative/Official Users: All Federal, State and Local agencies may use this route by all motorized modes, year-round.

Authorized/Permitted Users: Currently authorized users may use this route by all motorized modes, year-round.

Additional users may be authorized by the BLM through future authorizations.

Non-motorized Public: The public may use this route by all non-motorized modes, year-round.

OHV Public: Designation per 43 CFR § 8342.1: Open - The public may use this route by all motorized modes, year-round.

Designation Criteria Addressed and Relevant to Route Issues:

- 43 CFR § 8342.1 (a) Areas and trails shall be located to minimize damage to soil, watershed, vegetation, air, or other resources of the public lands, and to prevent impairment of wilderness suitability.
- 43 CFR § 8342.1 (b) Areas and trails shall be located to minimize harassment of wildlife or significant disruption of wildlife habitats. Special attention will be given to protect endangered or threatened species and their habitats.
- 43 CFR § 8342.1 (c) Areas and trails shall be located to minimize conflicts between off-road vehicle use and other existing or proposed recreational uses of the same or neighboring public lands, and to ensure the compatibility of such uses with existing conditions in populated areas, taking into account noise and other factors.

How Designation Addresses Criteria Above: Allowing continued use of this existing route, which provides the best access to OHV routes, would minimize the potential for new disturbances to documented resources from cross-country use or the need for construction of new routes to provide similar access. Allowing continued use of this route would minimize the potential for impacts to documented resources by providing targeted recreation activity and experience opportunities that reduce or eliminate the inclination for users to travel off-route. The ROW associated with this route is the determining document with regard to a designation. The Route Evaluation Process carries forward the ROW decision and the data is used for cumulative effects analysis during the NEPA portion of the development of a Travel Management Plan.

Designation Criteria Addressed but Not Relevant to Route Issues:

(no known conflicts among users or no known resource concerns to minimize for)

- 43 CFR § 8342.1 (d)

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Appendix G. Glossary

1
2 **Access:** The opportunity to approach, enter, and/or cross public lands.

3 **Adaptive management:** A type of natural resource management in which decisions are made as part of an
4 ongoing science-based process. Adaptive management involves testing, monitoring, and evaluating
5 applied strategies, and incorporating new knowledge into management approaches that are based on
6 scientific findings and the needs of society. Results are used to modify management policy, strategies,
7 and practices.

8 **Administrative use:** Travel-related access for official use by BLM employees and agency representatives
9 during the course of their duties using whatever means is necessary. Access is for resource
10 management and administrative purposes and may include fire suppression, cadastral surveys, permit
11 compliance, law enforcement, and resource monitoring or other access needed to administer BLM-
12 managed lands or uses.

13 **All-terrain vehicle (ATV):** A wheeled vehicle other than a snowmobile, which is defined as having a
14 wheelbase and chassis of 50 inches in width or less, handlebars for steering, generally a dry weight of
15 800 pounds or less, three or more low-pressure tires, and a seat designed to be straddled by the
16 operator.

17 **Alternatives:** Other options to the proposed action by which the BLM can meet its purpose and need. The
18 BLM is directed by the NEPA to “study, develop, and describe appropriate alternatives to
19 recommended courses of action in any proposal which involves unresolved conflicts concerning
20 alternative uses of available resources....”

21 **Asset:** A non-building facility and transportation construction, which include roads, primitive roads, and trails
22 that are included in FAMS. The BLM maintains assets through the annual and deferred maintenance
23 programs.

24 **Authorized use:** Travel-related access for users authorized by the BLM or otherwise officially approved.
25 Access may include motorized access for permittees, lessees or other authorized users, along with
26 approved access across BLM-administered public lands for other state and federal agencies.

27 **Code of Federal Regulations (CFR):** The codification of the general and permanent rules published in the
28 Federal Register by the departments and agencies of the Federal Government. It is divided into 50
29 titles that represent broad areas subject to Federal regulation.

30 **Cooperating agency:** Assists the lead Federal agency in developing an environmental assessment or
31 environmental impact statement. These can be any agencies with jurisdiction by law or special
32 expertise for proposals covered by NEPA (40 CFR 1501.6). Any tribe or Federal, State, or local
33 government jurisdiction with such qualifications may become a cooperating agency by agreement
34 with the lead agency.

35 **Crucial habitat:** Habitat that is basic to maintaining viable populations of fish and wildlife during certain
36 seasons of the year or specific reproduction periods (IDFG).

37 **Critical habitat:** An area occupied by a threatened or endangered species on which are found physical and
38 biological features that are (1) essential to the conservation of the species, and (2) may require special
39 management considerations or protection.

40 **Cultural resource:** A definite location of human activity, occupation, or use identifiable through field
41 inventory (survey), historical documentation, or oral evidence. The term includes archaeological,
42 historic, or architectural sites, structures, or places with important public and scientific uses, and may
43 include definite locations (sites or places) of traditional cultural or religious importance to specified
44 social and/or cultural groups. Cultural resources are concrete, material places and things that are

1 located, classified, ranked, and managed through the system of identifying, protecting, and utilizing
2 for public benefit. They may be but are not necessarily eligible for the National Register of Historic
3 Places (NRHP).

4 **Cultural resource inventory classes:**

- 5 • Class I - existing information inventory: a study of published and unpublished documents, records,
6 files, registers, and other sources, resulting in analysis and synthesis of all reasonably available data.
7 Class I inventories encompass prehistoric, historic, and ethnological/sociological elements, and are in
8 large part chronicles of past land uses. They may have major relevance to current land use decisions.
- 9 • Class II - probabilistic field survey: a statistically based sample survey designed to help characterize
10 the probable density, diversity, and distribution of archaeological properties in a large area by
11 interpreting the results of surveying limited and discontinuous portions of the target area.
- 12 • Class III - intensive field survey: a continuous, intensive survey of an entire target area, aimed at
13 locating and recording all archaeological properties that have surface indications, by walking close-
14 interval parallel transects until the area has been thoroughly examined. Class III methods vary
15 geographically, conforming to the prevailing standards for the region involved.

16 **Decision record (DR):** The BLM document associated with an EA that describes the action to be taken
17 when the analysis supports a finding of no significant impact.

18 **Decommission:** The process of removing travel routes (i.e., transportation linear features) that are
19 unauthorized or no longer needed. Transportation linear features that are not part of the defined travel
20 route network or transportation system are transportation linear disturbances. Linear features
21 identified as transportation linear disturbances will remain in the national geospatial dataset until
22 reclamation and subsequent monitoring is complete or all on-the-ground indications of the route have
23 vanished. After that, the BLM will remove these features from the national ground transportation
24 linear feature dataset(s), but store them in a secondary local dataset of decommissioned and reclaimed
25 routes. (BLM 2016)

26 **Designated routes:** Specific roads and trails identified by the BLM where some type of use is appropriate and
27 allowed.

28 **Disposal:** Transfer of public land out of Federal ownership to another party through sale, exchange, Recreation
29 and Public Purposes Act, Desert Land Entry or other land law statutes.

30 **Easement:** A right afforded a person or agency to make limited use of another's real property for other
31 purposes.

32 **E-bike:** Two- or three-wheeled cycle with fully operable pedals and an electric motor of not more than 750
33 watts (1 h.p.) that meets the requirements of one of the following three classes:

- 34 (1) Class 1 electric bicycle shall mean an electric bicycle equipped with a motor that provides
35 assistance only when the rider is pedaling, and that ceases to provide assistance when the
36 bicycle reaches the speed of 20 miles per hour.
- 37 (2) Class 2 electric bicycle shall mean an electric bicycle equipped with a motor that may be used
38 exclusively to propel the bicycle, and that is not capable of providing assistance when the
39 bicycle reaches the speed of 20 miles per hour.
- 40 (3) Class 3 electric bicycle shall mean an electric bicycle equipped with a motor that provides
41 assistance only when the rider is pedaling, and that ceases to provide assistance when the
42 bicycle reaches the speed of 28 miles per hour

43 **Effects**

44 East Travel Management Plan Environmental Assessment

- 1 • Adverse or detrimental: Contribute to degradation of a resource or resource use.
- 2 • Adverse effect to historic properties: An adverse effect is found when an undertaking may alter,
- 3 directly or indirectly, any of the characteristics of a historic property that qualify the property for
- 4 inclusion in the National Register in a manner that would diminish the integrity of the property's
- 5 location, design, setting, materials, workmanship, feeling, or association.
- 6 • Beneficial: Contribute to enhancement or restoration of a resource or resource use.
- 7 • Cumulative: According to the Code of Federal Regulations (40 CFR 1508.7), a cumulative effect “is
- 8 the impact on the environment which results from the incremental impact of the action when added to
- 9 other past, present, and reasonably foreseeable future actions regardless of what agency (Federal or
- 10 non-Federal) or person undertakes such other actions. Cumulative effects can result from individually
- 11 minor but collectively significant actions taking place over a period of time” (GPO 2012). In other
- 12 words, these effects are the sum of the direct and indirect effects of an action and the direct and
- 13 indirect effects of other actions on the same affected resources/uses.
- 14 • Direct: Caused by alternative (same time and place).
- 15 • Indirect: Caused by alternative but later in time or further in distance but still reasonably foreseeable.
- 16 • Long-term: Generally considered to last 10 years or more.
- 17 • Minor: The effect or impact is slight but detectable: there would be a small change to the quality of the
- 18 physical, biological, social, and economic values and resources.
- 19 • Negligible: The effect or impact is at the lower level of detection; there would be no measurable
- 20 change to the quality of the physical, biological, social, and economic values and resources.
- 21 • Residual: Direct and indirect effects that remain after the application of all mitigation measures.
- 22 • Short-term: Generally considered to last from the point of occurrence to several weeks or months but
- 23 not expected to last beyond a year or two.

24 **Eligible cultural resource:** See National Register of Historic Places.

25 **Endangered Species Act (ESA):** The purpose of the ESA is to protect and recover imperiled species and the
 26 ecosystems upon which they depend. It is administered by the U.S. Fish and Wildlife Service
 27 (Service) and the Commerce Department's National Marine Fisheries Service (NMFS). Under the
 28 ESA, species may be listed as either endangered or threatened. “Endangered” means a species is in
 29 danger of extinction throughout all or a significant portion of its range. “Threatened” means a species
 30 is likely to become endangered within the foreseeable future. All species of plants and animals, except
 31 pest insects, are eligible for listing as endangered or threatened. For the purposes of the ESA,
 32 Congress defined species to include subspecies, varieties, and, for vertebrates, distinct population
 33 segments.

34 **Environmental assessment (EA):** Public document for which a federal agency is responsible that serves to: 1)
 35 Briefly provide sufficient evidence and analysis for determining whether to prepare an environmental
 36 impact statement or a finding of no significant impact; 2) Aid an agency’s compliance with the
 37 National Environmental Policy Act when no environmental impact statement is necessary; 3)
 38 Facilitate preparation of an environmental impact statement when one is necessary. Shall include brief
 39 discussions of the need for the proposal, of alternatives, of the environmental impacts of the proposed
 40 action and Alternatives, and a listing of agencies and persons consulted.

41 **Environmental Impact Statement (EIS):** Federal agencies prepare an Environmental Impact Statement (EIS)
 42 if a proposed major federal action is determined to significantly affect the quality of the human
 43 environment. The regulatory requirements for an EIS are more detailed and rigorous than the
 44 requirements for an environmental assessment (EA).

45 **Erosion:** Detachment and movement of soil from the land by wind, water, or gravity.

1 **Facility Asset Management System (FAMS):** The BLM’s official database for the management of
2 transportation system assets and facilities.

3 **Facility:** All or any portion of a building, structure, site improvement, element, pedestrian route, or vehicular
4 way located on a site. An element is an architectural or mechanical component, generally including
5 toilets, picnic tables, grills, registration kiosks, etc. at a site (including a staging site).

6 **Finding of No Significant Impact (FONSI):** A finding that explains that an action will not
7 have a significant effect on the environment and, therefore, an EIS will not be required.

8 **Forage:** All browse and herbaceous foods that are available to grazing animals.

9 **Geographic Information System (GIS):** “System designed to capture, store, manipulate, analyze, manage,
10 and present all types of geographical data. The key word to this technology is Geography – this means
11 that some portion of the data is spatial. In other words, data that is in some way referenced to locations
12 on the earth. Coupled with this data is usually tabular data known as attribute data. Attribute data can
13 be generally defined as additional information about each of the spatial features. An example of this
14 would be schools. The actual location of the schools is the spatial data. Additional data such as the
15 school name, level of education taught, student capacity would make up the attribute data. It is the
16 partnership of these two data types that enables GIS to be such an effective problem-solving tool
17 through spatial analysis. GIS is more than just software. People and methods are combined with
18 geospatial software and tools, to enable spatial analysis, manage large datasets, and display
19 information in a map/graphical form.” (University of Wisconsin-Madison Libraries 2018)

20 **Ground Transportation Linear Feature (GTLF):** A geospatial database of all transportation linear features
21 (from motorized to foot use) as they exist on the ground, not just those in the BLM transportation
22 system (refer to the Ground Transportation Linear Features Data Standard Report, October 22, 2014,
23 version 2.0 or later, for detailed information on the GTLF data standard).

24 **Habitat fragmentation:** The degree to which an area of habitat is divided into smaller patches of habitat as a
25 result of human activities and developments (e.g., trails, roads, fencing) or as a result of natural
26 barriers (e.g. cliffs, rivers).

27 **Historic property:** Historic property means any prehistoric or historic district, site, building, structure, or
28 object included in, or eligible for inclusion in, the National Register of Historic Places maintained by
29 the Secretary of the Interior. This term includes artifacts, records, and remains that are related to and
30 located within such properties. The term includes properties of traditional religious and cultural
31 importance to an Indian tribe or Native Hawaiian organization and that meet the National Register
32 criteria.

33 **Impassable:** Roads intended for full-size vehicle passage that are otherwise impassable as a result of road
34 deterioration or vegetation overgrowth; project-level road maintenance is required to make these roads
35 passable. Road deterioration or vegetation overgrowth may be a result of neglect, irregular
36 maintenance, or management decisions.

37 **Implementation decisions:** Decisions that take action to implement land use planning; generally appealable to
38 Interior Board of Land Appeals under 43 CFR 4.410. These decisions are generally more site-specific
39 than land-use plan decisions.

40 **Implementation plan:** An area or site-specific plan written to implement decisions made in a land use plan.
41 Implementation plans include both activity plans and project plans. Examples of implementation plans
42 include interdisciplinary management plans, habitat management plans, and allotment management
43 plans.

44 **Interdisciplinary Team:** A group of individuals with different training, representing the physical sciences,
45 social sciences, and environmental design arts, assembles to solve a problem or perform a task. The
46 members of the team proceed to a solution with frequent interaction so that each discipline may

1 provide insights to any stage of the problem and disciplines may combine to provide new solutions.
2 The number and disciplines of the members preparing the plan vary with circumstances. A member
3 may represent one or more disciplines or BLM program interests.

4 **Land use plan:** A set of decisions that establish management direction for land within an administrative area,
5 as prescribed under the planning provisions of FLPMA; an assimilation of land-use-plan level
6 decisions developed through the planning process outlined in 43 CFR 1600, regardless of the scale at
7 which the decisions were developed. The term includes both resource management plans (RMPs) and
8 management framework plans (MFPs).

9 **Linear disturbance:** A human-made linear travel or transportation related disturbance that is not part of the
10 BLM's transportation system or travel network. Transportation linear disturbances may include
11 engineered (planned) but no longer needed features, as well as unplanned routes that have been
12 identified for decommissioning and reclamation either passively or actively. Linear disturbances may
13 also include authorized realty features (e.g., pipelines or power lines) that may or may not have travel
14 routes maintained in association with them.

15 **Linear feature:** A linear ground disturbance that results from travel across or immediately over the surface of
16 BLM-administered public lands. These features include engineered roads and trails, as well as user-
17 defined, non-engineered routes, created as a result of public or unauthorized use. Linear features may
18 also include authorized realty features (e.g., pipelines or power lines) that may or may not have travel
19 routes maintained in association with them.

20 **Mechanized travel:** Moving by means of mechanical devices not powered by a motor, such as a bicycle.

21 **Minimize:** Limit the degree or magnitude of.

22 **Mitigation:** measures that avoid, minimize, or compensate for effects caused by a proposed

23 action or alternatives as described in an environmental document or record of decision and that have a
24 nexus to those effects. While NEPA requires consideration of mitigation, it does not mandate the form
25 or adoption of any mitigation. Mitigation includes: 1. Avoiding the impact altogether by not taking a
26 certain action or parts of an action; 2. Minimizing impacts by limiting the degree or magnitude of the
27 action and its implementation; 3. Rectifying the impact by repairing, rehabilitating, or restoring the
28 affected environment; 4. Reducing or eliminating the impact over time by preservation and
29 maintenance operations during the life of the action; 5. Compensating for the impact by replacing or
30 providing substitute resources or environments (40 CFR Section 1508.1(s)).

31 **Monitoring:** The process of tracking the implementation of land use plan decisions and collecting and
32 assessing data necessary to evaluate the effectiveness of land use planning decisions.

33 **Motorized vehicles:** Vehicles propelled by motors or engines, such as cars, trucks, off-highway vehicles,
34 motorcycles, snowmobiles, and boats.

35 **Multiple use:** The management of the public lands and their various resource values so that they are utilized in
36 the combination that will best meet the present and future needs of the American people; making the
37 most judicious use of the land for some or all of these resources or related services over areas large
38 enough to provide sufficient latitude for periodic adjustments in use to changing needs and conditions;
39 the use of some land for less than all of the resources; a combination of balanced and diverse resource
40 uses that takes into account the long-term needs of future generations for renewable and nonrenewable
41 resources, including, but not limited to, recreation, range, timber, minerals, watershed, wildlife and
42 fish, and natural scenic, scientific and historical values; and harmonious and coordinated management
43 of the various resources without permanent impairment of the productivity of the land and the quality
44 of the environment with consideration being given to the relative values of the resources and not

1 necessarily to the combination of uses that will give the greatest economic return or the greatest unit
2 output (FLPMA) (from M6840, Special Status Species Manual).

3 **National Environmental Policy Act (NEPA):** Requires federal agencies to assess and disclose the
4 environmental effects of proposed actions prior to making decisions. BLM travel management must
5 conform to NEPA requirements. This legislation established a landmark national environmental policy
6 which, among other things, encourages environmental protection and informed decision-making. It
7 provides the means to carry out these goals by:

- 8 ○ mandating that every Federal agency prepare a detailed statement of the effects of “major
9 Federal actions significantly affecting the quality of the human environment.”
- 10 ○ establishing the need for agencies to consider alternatives to those actions.
- 11 ○ requiring the use of an interdisciplinary process in developing alternatives and
- 12 ○ analyzing environmental effects.
- 13 ○ requiring that each agency consult with and obtain comments of any Federal agency which
14 has jurisdiction by law or special expertise with respect to any environmental impact
15 involved.
- 16 ○ requiring that detailed statements and the comments and views of the appropriate Federal,
17 State, tribal, and local agencies be made available to the public.

18 **National Historic Preservation Act (NHPA):** 1966 legislation establishing the National Register of Historic
19 Places and extending the national historic preservation programs to properties of State and local
20 significance.

21 **National Register of Historic Places (NRHP):** Official inventory of districts, sites, buildings, structures, and
22 objects significant in American history, architecture, archeology, engineering and culture.

- 23 ● **Eligible:** Cultural resources that are listed or recommended eligible for inclusion on the National
24 Register of Historic Places (National Register), are those resources that express the quality of
25 significance in American history, architecture, archeology, engineering, and culture and are
26 represented as districts, sites, buildings, structures, and objects that possess integrity of location,
27 design, setting, materials, workmanship, feeling, and association. To be listed or recommended
28 eligible the cultural resource must possess the relevant aspects of integrity and meet at least one of the
29 following National Register Criteria:

- 30 A. Associated with events that have made a significant contribution to the broad patterns of
31 our history; or
- 32 B. Associated with the lives of significant persons in our past; or
- 33 C. Embody the distinctive characteristics of a type, period, or method of construction, or that
34 represent the work of a master, or that possess high artistic values, or that represent a
35 significant and distinguishable entity whose components may lack individual
36 distinction; or
- 37 D. Have yielded or may be likely to yield, information important in history or prehistory. 36
38 CFR Part 800 defines National Register-eligible cultural resources as “historic
39 properties.”

- 40 ● **Not eligible:** Cultural resources that do not meet the National Register Criteria or maintain the
41 relevant aspects of integrity.

42 **Native vegetation:** Plant species that were in the Project Area prior to European settlement, and consequently
43 are in balance with these ecosystems because they have well developed parasites, predators, and
44 pollinators.

- 1 **Naturalness:** Refers to an area that “generally appears to have been affected primarily by the forces of nature,
2 with the imprint of man’s work substantially unnoticeable” (Section 2[c] of the Wilderness Act of
3 1964).
- 4 **Non-mechanized travel:** Moving by foot or by stock or pack animal.
- 5 **Not eligible cultural resource:** See National Register of Historic Places.
- 6 **Noxious weeds:** A plant species designated by Federal or State law as generally possessing one or more of the
7 following characteristics: aggressive and difficult to manage; parasitic; a carrier or host of serious
8 insects or disease; or non-native, new, or not common to the US.
- 9 **Objective:** A description of a desired condition for a resource. Objectives can be quantified and measured and,
10 where possible, have established time frames for achievement.
- 11 **Off-highway vehicle (OHV):** Any motorized vehicle capable of, or designed for, travel on or immediately
12 over land, water, or other natural terrain, excluding: 1) any non-amphibious registered motorboat; 2)
13 any military, fire, emergency, or law enforcement vehicle while being used for emergency purposes;
14 3) any vehicle whose use is expressly authorized by the authorized officer, or otherwise officially
15 approved; 4) vehicles in official use; and 5) any combat or combat support vehicle when used in times
16 of national defense emergencies (as defined in 43 CFR 8340.0-5(a)).
- 17 **Off-highway vehicle (OHV) area designation:** A land use planning decision that permits, establishes
18 conditions for, or prohibits OHV activities on specific areas of public lands. The BLM is required to
19 designate all public lands as open, limited, or closed to OHVs. Below are definitions of these
20 designations as taken from the 2016 BLM Travel and Transportation Management Manual (BLM
21 2016):
- 22 ○ **OHV Closed Areas:** An area where OHV use is prohibited. Access by means other than
23 OHVs, such as by motorized vehicles that fall outside the definition of an OHV or by
24 mechanized or non-mechanized means, is permitted. The BLM designates areas as closed, if
25 necessary, to protect resources, promote visitor safety, or reduce user conflicts (see 43 CFR
26 8340.0-5(h)).
 - 27 ○ **OHV Limited Areas:** An area where OHV use is restricted at certain times, in certain areas,
28 and/or to certain vehicular use. Examples of restrictions include numbers or types of vehicles;
29 time or season of use; permitted or licensed use only; use limited to existing, designated roads
30 and trails; or other restrictions necessary to meet resource management objectives, including
31 certain competitive or intensive use areas that have special limitations (43 CFR 8340.0-5 (g)).
 - 32 ○ **OHV Open Areas:** A designated area where all types of OHV travel is permitted at all times,
33 anywhere in the area subject only to the operating restrictions set forth in subparts 8341
34 without restriction (43 CFR 8340.0-5(f)). Open area designations are made to achieve a
35 specific recreational goal, objective and setting and are only used in areas managed for
36 intensive OHV activity where there are no special restrictions or where there are no
37 compelling resource protection needs, user conflicts, or public safety issues to warrant
38 limiting cross-country travel.
- 39 **Off-highway vehicle (OHV) route designations:** Management designations applied to individual routes (as
40 opposed to OHV areas) during interdisciplinary route evaluation sessions. The BLM designates
41 routes as open, limited, or closed, and the designation must be included in all route-specific
42 decisions and recorded in the national ground transportation linear feature dataset(s).
43 Definitions and the designation criteria used in this decision making process stem from those
44 provided for OHV areas in 43 CFR 8340.0-5(f), (g), and (h).

- 1 ○ **OHV Open:** OHV travel is permitted where there are no special restrictions or no compelling
2 resource protection needs, user conflicts, or public safety issues to warrant limiting the timing
3 or season of use, the type of OHV, or the type of OHV user.
- 4 ○ **OHV Limited:** OHV travel on routes, roads, trails, or other vehicle ways is subject to
5 restrictions to meet specific resource management objectives. Examples of restrictions
6 include numbers or types of vehicles; time or season of use; permitted or licensed use only; or
7 other restrictions necessary to meet resource management objectives, including certain
8 competitive or intensive uses that have special limitations.
- 9 ○ **OHV Closed:** OHV travel is prohibited on the route. Access by means other than OHVs,
10 such as by motorized vehicles that fall outside of the definition of an OHV or by mechanized
11 or non-mechanized means, is permitted. The BLM designates routes as closed to OHVs if
12 necessary to protect resources, promote visitor safety, reduce use conflicts, or meet a specific
13 resource goal or objective.

14 **Perennial stream:** Perennial streams carry flowing water continuously throughout the year, regardless of
15 weather conditions. It exhibits well-defined geomorphologic characteristics and in the absence of
16 pollution, thermal modifications, or other man-made disturbances has the ability to support aquatic
17 life.

18 **Planning area:** A geographic area for which land use and resource management plans are developed and
19 maintained.

20 **Primitive road:** A linear route managed for use by four-wheel drive or high-clearance vehicles. Primitive
21 roads do not normally meet any BLM road design standards. Unless specifically prohibited, primitive
22 roads can also include other uses such as hiking, biking, and horseback riding.

23 **Primitive route:** Any transportation linear feature located within a WSA or lands with wilderness
24 characteristics designated for protection by a land use plan and not meeting the wilderness inventory
25 road definition.

26 **Reclamation:** Returning disturbed lands to a form and productivity that will be ecologically balanced and in
27 conformity with a predetermined plan.

28 **Record of decision (ROD):** Decision document associated with an EIS (equivalent to an EA's DR).

29 **Recreation Management Information System (RMIS):** The official BLM database for recording and
30 tracking visitor use and acres with OHV area designations on BLM-managed lands; the BLM also
31 uses it to track TMP completion and implementation; tool used by the BLM to record number of
32 visits, types of activities, permits, partnerships, and agreements.

33 **Recreation management zone (RMZ):** A subdivision of a recreation management area that further delineates
34 specific recreation opportunities and recreation setting characteristics.

35 **Resource management plan (RMP):** A land use plan as prescribed by the Federal Land Policy and
36 Management Act that establishes, for a given area of land, land use allocations, coordination
37 guidelines for multiple-use, objectives, and actions to be achieved.

38 **Restoration:** The process by which areas are brought back to a former, original or specific desired condition
39 or appearance. Could involve putting vegetation back in an area where vegetation previously existed,
40 which may or may not simulate natural conditions.

41 **Right-of-way (ROW):** A grant, easement, or permit which authorizes certain public land to be used for a
42 specified purpose (e.g., roads, power lines, pipelines) for a specific period of time. A ROW holder is
43 an authorized user for their ROW.

44 **Riparian area:** A form of wetland transition between permanently saturated wetlands and upland areas.
45 Riparian areas exhibit vegetation or physical characteristics that reflect the influence of permanent

1 surface or subsurface water. Typical riparian areas include lands along, adjacent to, or contiguous with
2 perennially and intermittently flowing rivers and streams, glacial potholes, and the shores of lakes and
3 reservoirs with stable water levels. Excluded are ephemeral streams or washes that lack vegetation and
4 depend on free water in the soil.

5 **Road:** A linear route declared a road by the owner, managed for use by low-clearance vehicles which have
6 four or more wheels, and maintained for regular and continuous use. Often, many types of uses are
7 allowed on roads. BLM allowed uses on roads are often hierarchical such that if motorized use is
8 allowed on a road, various forms of non-motorized use are also allowed.

9 **Rock Art:** Petroglyphs (carvings) or pictographs (paintings) created on natural rock surfaces by native people
10 and depicting their history and culture.

11 **Route Evaluation:** The careful and systematic review of each route by a BLM interdisciplinary team in
12 conjunction with resource data collection and discussion of minimizing potential impacts during
13 preliminary alternative designations. It is the process through which a BLM interdisciplinary team of
14 resource specialists assess individual routes and documents potentially affected resources and/or
15 resource uses associated with each route. During route evaluation, BLM staff will:

- 16 ○ Propose individual route designations for each route in a TMA based on individual alternative
17 themes.
- 18 ○ Address how each route will minimize impacts on resources per 40 CFR 8342.1.
- 19 ○ Document rationales for each alternative designation choice.

20 **Route Inventory:** Collection of route line data for maps (may also include collection of point data and
21 photos). Data may be collected in the field with GPS units or drawn on a computer screen from aerial
22 imagery.

23 **Routes:** Multiple roads, trails and primitive roads; a group or set of roads, trails, and primitive roads that
24 represents less than 100 percent of the BLM transportation system. Generically, components of the
25 transportation system are described as “routes.”

26 **Scoping (Internal and External):** Process by which the BLM solicits internal and external input on the issues
27 and effects that will be addressed, as well as the degree to which those issues and effects will be
28 analyzed, in the NEPA document. Scoping is one form of public involvement in the NEPA process.
29 Scoping occurs early in the NEPA process and generally extends through the development of
30 alternatives (the public comment periods for EIS review are not scoping). Internal scoping is simply
31 federal or cooperators review to decide what needs to be analyzed in a NEPA document. External
32 scoping, also known as formal scoping, involves notification and opportunities for feedback from
33 other agencies, organizations, and the public.

34 **Sensitive Species:** Species designated as sensitive by the BLM State Director, including species that are under
35 status review, have small or declining populations, live in unique habitats, or require special
36 management. BLM Manual 6840 provides policy and guidance for managing special status species.

37 **Solitude:** The state of being alone or remote from habitations; isolation. A lonely or secluded place. Factors
38 contributing to opportunities for solitude may include size, natural screening, topographic relief,
39 vistas, physiographic variety, and the ability of the user to find a secluded spot.

40 **Special recreation management area (SRMA):** An administrative unit where the existing or proposed
41 recreation opportunities and recreation setting characteristics are recognized for their unique value,
42 importance, or distinctiveness, especially compared to other areas used for recreation.

43 **Special recreation permits (SRPs):** Permits issued to businesses, organizations, and individuals to allow the
44 use of specific public land and related waters for commercial, competitive, and organized group use.
45 Special Recreation Permits allow land stewards to coordinate and track commercial and competitive

1 use of public lands. They also provide resource protection measures to ensure the future enjoyment of
2 those resources by the public.

3 **Special status species:** Species that are proposed for listing, officially listed as threatened or endangered, or
4 are candidates for listing as threatened or endangered under the provisions of the Endangered Species
5 Act (ESA); those listed by a State in a category such as threatened or endangered implying potential
6 endangerment or extinction; and those designated by each State BLM Director as sensitive.

7 **State Historic Preservation Office (SHPO):** Office in State or territorial government that administers the
8 preservation programs under the National Historic Preservation Act.

9 **Surface-disturbing activities:** Human-caused disturbance resulting in direct and pronounced alteration,
10 damage, removal, displacement, or mortality of vegetation, soil, or substrates; usually entail motorized
11 or mechanized vehicles or tools; typically can also be described as disruptive activities. Examples of
12 typical surface disturbing activities include:

- 13 ○ Earth-moving and drilling
- 14 ○ Geophysical exploration
- 15 ○ Off-route motorized and mechanized travel
- 16 ○ Vegetation treatments including woodland thinning with chainsaws
- 17 ○ Pyrotechnics and explosives
- 18 ○ Construction of powerlines, pipelines, oil and gas wells, recreation sites, livestock
19 improvement facilities, wildlife waters, or new roads

20 **Threatened species:** Any plant or animal species defined under the Endangered Species Act as likely to
21 become endangered within the foreseeable future throughout all or a significant portion of its range;
22 listings are published in the Federal Register.

23 **Traditional uses:** Longstanding, socially conveyed, customary patterns of thought, cultural expression, and
24 behavior, such as religious beliefs and practices, social customs, and land or resource uses. Traditions
25 are shared generally within a social and/or cultural group and span generations. Usually, traditional
26 uses are reserved rights resulting from treaty and/or agreements with Native American groups.

27 **Trail:** A linear route managed for human-powered, stock, or off-road vehicle forms of transportation or for
28 historical or heritage values. The BLM does not generally manage trails for use by four-wheel-drive or
29 high-clearance vehicles.

30 **Travel management area (TMA):** Portion of land (often represented with a polygon) where areas have been
31 classified as open, closed, or limited; TMAs have an identified and/or designated network of roads,
32 trails, ways, and other routes that provide for public access and travel. All designated travel routes
33 within TMAs should have a clearly identified need and purpose as well as clearly defined activity
34 types, modes of travel, and seasons or time-frames for allowable access or other limitations.

35 **Travel management plan (TMP):** A document that describes decisions related to the selection and
36 management of a travel network and transportation system.

37 **Travel network:** Routes occurring on public lands or within easements granted to the BLM that are
38 recognized, designated, decided upon, or otherwise authorized for use through the planning process or
39 other travel management decisions. These may or may not be part of the transportation system and
40 may or may not be administered by the BLM.

41 **Unevaluated (to the Natural Register):** A site that has not been evaluated to determine if it is eligible to the
42 National Register of Historic Places.

43 **Utility Terrain Vehicle (UTV):** Any recreational motor vehicle other than an ATV, motorbike or over snow
44 vehicle designed for and capable of travel over designated unpaved roads, traveling on four (4) or
45 more low-pressure tires, maximum width less than seventy-four (74) inches, usually a maximum

1 weight less than two thousand (2000) pounds, or having a wheelbase of ninety-four (94) inches or
2 less. Does not include vehicles specially designed to carry a person with disabilities.

3 **Visual Resource Inventory (VRI):** An inventory taken to identify visual resource values and quality.

4 **Visual Resource Management (VRM):** The system by which BLM classifies and manages scenic values and
5 visual quality of public lands. The system is based on research that has produced ways of assessing
6 aesthetic qualities of the landscape in objective terms. After inventory and evaluation, lands are given
7 relative visual ratings (management classes) that determine the extent of modification allowed for the
8 basic elements of the landscape

9 **Visual resources:** The visible physical features on a landscape, (topography, water, vegetation, animals,
10 structures, and other features) that comprise the scenery of the area.

11 **Way:** See *Primitive route*.

12 **Wetland:** Permanently wet or intermittently water-covered areas, such as swamps, marshes, bogs, potholes,
13 swales, and glades.

14 **Wilderness characteristics:** Wilderness characteristics include size, the appearance of naturalness,
15 outstanding opportunities for solitude or a primitive and unconfined type of recreation. Indicators of
16 an area's naturalness include the extent of landscape modifications; the presence of native vegetation
17 communities; and the connectivity of habitats. Outstanding opportunities for solitude or primitive and
18 unconfined types of recreation may be experienced when the sights, sounds, and evidence of other
19 people are rare or infrequent, in locations where visitors can be isolated, alone or secluded from
20 others, where the use of the area is through non-motorized, non-mechanical means, and where no or
21 minimal developed recreation facilities are encountered.

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