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Nebraska National Forest

Oglala National Grassland

Pine Ridge Ranger District

Travel Analysis Report

2008

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INTRODUCTION

Background

In August 1999, the Washington Office of the United States Department of Agriculture (USDA) Forest Service published Miscellaneous Report FS-643 titled *Roads Analysis: Informing Decisions about Managing the National Forest Transportation System* (USDA 1999). The objective of roads analysis is to provide decision makers with critical information to develop road systems that are safe and responsive to public needs and desires, are affordable and efficiently managed, and have minimal negative ecological effects. In January 2001, the Forest Service published the *Transportation Final Rule and Administrative Policy* authorizing units to use, as appropriate, the road analysis procedure embodied in FS-643 to assist land managers making major road management decisions. In July 2003, the Rocky Mountain Region 2 published the *R2 Roads Analysis Supplement to FS-643*. This supplement supports Appendix 1 of Misc. Report FS-643 to be used in conjunction with that document. The R2 supplement is intended to provide guidance concerning the appropriate scale for addressing each question and the analysis needed.

Roads Analysis for the Nebraska National Forest is being completed in two phases. The first phase was completed in 2003 when a *Forest-wide Roads Analysis* was completed to assess National Forest System Roads maintained for passenger car use (USDA, 2003). The second phase is this current analysis of the remaining National Forest System Roads and may include selected unauthorized routes.

The Roads Analysis documented in this report is undertaken to support the Travel Management planning effort. It is the intent of roads analysis to provide critical information to develop a road system that is safe and responsive to public needs and desires, is affordable and efficiently managed, has minimal negative ecological effects on the land, and is in balance with available funding for needed management actions. Some of the routes analyzed in this phase could be designated as trails.

The Nebraska National Forest is currently developing a Travel Management Plan to implement the revised *Land and Resource Management Plan* (USDA, 2002) and the *National Travel Management Rule* (USDA, 2005). The Travel Management Plan will restrict motorized use to roads, trails, and areas designated open for motorized use, a "closed unless designated open" policy. This is a change from current management which has allowed motorized use except where specifically prohibited, an "open unless designated closed" policy.

Public participation was first solicited for the Travel Management Plan with the scoping letter and *Travel Management Proposed Action* (USDA, 2007) mailed in December of 2007. Five Open Houses were held to provide additional forums for information exchange, public interaction, and comments. The open houses were held in several locations to provide the public access to a meeting for each Ranger District. In response to issues identified from public comments, alternative(s) to the proposed action are now being developed. Alternative(s) to the Proposed Action may propose designation of additional existing roads for motorized use. These additional roads are not managed as a part of the current System; most or all were user created; they fall within the "undetermined" group in our INFRA database; and they meet the definition of "unauthorized" as provided in the *National Travel Management Rule* (USDA, 2005). Roads analysis of these additional roads may be attached to this Roads Analysis as determined by the District Ranger.

A product of Travel Management Planning will be a Motorized Vehicle Use Map (MVUM) for the public. The MVUM will identify roads, trails, and areas open to motorized use. Class of vehicle will be designated on the map, including distinction between roads open to Highway Legal Vehicles (HLV) Only and trails open to all motor vehicles (Highway Legal AND non-Highway Legal Vehicles). Note that the State of South Dakota licenses Off-Highway Vehicles/All Terrain Vehicles (OHV/ATV) for operation on public roads by licensed drivers 16 years and older. When licensed (both vehicles and operator), such vehicles would be Highway Legal Vehicles and would be allowable on all roads designated open to Highway Legal Vehicles only.

Process

Roads analysis is the six-step iterative process described in the *Road Analysis Handbook* (USDA, 1999). Additional guidance is provided in a supplement by the Rocky Mountain Region (USDA, 2004). As an analysis matures previous steps may be revisited, even revised, to reflect broader understanding of an issue or analysis need. The amount of time and effort spent on each step differs by project because of specific situations and available information. The process provides a set of possible issues and analysis questions for which answers can inform choices about road system management. Decision makers and analysts determine the relevance of key questions. They also provide for public participation in the process of Travel Management Planning.

Although the process followed in this analysis is Roads Analysis as described above, for consistency with the *National Travel Management Rule* (USDA, 2005) this report is entitled *Travel Analysis* to reflect potential inclusion of trails and areas as well as roads.

Products

The product of the analysis is a report for decision makers and the public that documents the information and analysis used to identify opportunities and set priorities for National Forest Travel Management. Tables and graphs are included in the report to display analyses and facilitate comparison of roads.

This Report

This report, the *Pine Ridge Ranger District Travel Analysis*, documents the roads analysis process used for Pine Ridge Ranger District Travel Management effort.

Step 1 – Setting up the Analysis

Geographic Scale – Objective of the Analysis

This analysis is limited to roads under Forest Service jurisdiction within the lands administered by the Pine Ridge Ranger District. This includes the Oglala National Grassland and Pine Ridge unit of the Nebraska National Forest. The Oglala National Grassland encompasses over 94,000 acres in northwestern Nebraska; it extends to the northern border of Nebraska which is also the southern extent of the Buffalo Gap National Grassland in South Dakota. The Pine Ridge unit of the Nebraska National Forest includes lands scattered from Chadron, Nebraska, south and west toward and past Crawford, Nebraska. Adjacent and intermingled State lands include: Chadron State Park, Fort Robinson State Park, and the Big Horn, Ponderosa, and Chadron Creek Wildlife Management Areas.

The primary objective of this analysis is to help inform travel management planning and an eventual decision for the Pine Ridge Ranger District component of the anticipated *Nebraska NF Travel Management EIS* by compiling the following information:

- Include only roads under Forest Service jurisdiction
- Include all roads currently managed as part of the System
- Include “undetermined” and “private” roads identified by District Ranger
- Identify and work toward resolving questions of jurisdiction
- Identify and work toward resolving data inconsistencies
- Assess potential resource impacts
- Assess access need and use
- Assess costs of maintenance and resource protection

Interdisciplinary Team Members

The Interdisciplinary Team (ID Team) members and their resource areas:

Charlie Marsh	District Ranger
Phillip A. Dobesh	Wildlife
Lora O'Rourke	Rangeland Mgmt
Amy Hedinger	Forester
Roger Keepers	Forester
Mike Watts	Forestry Tech
Kevin Heikkila	Lands
Lisa Heiser	Recreation
Kim Earney	Engineering
Randy Gage	Engineering
Leslie Burkhart	Engineering

Information Needs and Analysis Plan

Current road management information will come from the INFRA database. This data will be correlated with the GIS maps and database to provide a geospatial context for discussion and assessment.

Current resource information will come from the ID Team Members. This includes resource expertise in range, wildlife, forestry, recreation, lands, and engineering. Specific information gaps will be recorded on the assessment sheets identifying staff expertise desired for potential follow-up, for example answers to rights-of-way status or heritage resource questions.

The ID Team, including the District Ranger, reviews the questions from the Roads Analysis Handbook and adapts those which address area issues for potential resource impacts, desired human uses, and costs.

The ID Team, including the District Ranger, will assess each system road, road segment, and unauthorized travel route to describe the impacts of use. A ranking will be assigned on a relative 1 to 10 scale for potential adverse impact on ecosystem function; aquatic, riparian zone, and water quality; wildlife; and cultural and heritage resource values. The ID Team assesses the access needed and rates on a 1 to 10 relative scale for human access needs. The ID Team assesses costs and cost effectiveness, and rates on a 1 to 10 scale by both economic costs and benefit.

Additional unauthorized roads under Forest Service jurisdiction that appear to serve access needs will be identified by the ID Team from the public comment maps. These roads will be assessed as described above if so directed by the District Ranger.

Recommendations for the management of existing road and/or road segments and unauthorized travel routes will be determined by their ranking on a matrix which places potential resource impacts against human access need. This defines the parameters of possible management options for each road segment analyzed.

This initial iteration will include all National Forest System Roads (NFSR) (see *Appendix D – INFRA System Roads*) excepting:

1. **803**, from mp 0.24-1.70, Middle Fork Soldier Creek, this segment is closed to the public, maintenance level 1, and was excluded from analysis because it is within the Soldier Creek Wilderness. Subsequent analysis may consider this segment for a non-motorized trail.
2. **803_1**, Middle Fork Turnaround Loop, was lumped with the first segment of 803 so was not considered separately.
3. **903-C**, Hudson-Meng Bldg Access, is the administrative and accessible access to the building. It was included with 903-B, the Hudson-Meng Parking Loop Cut-Across.
4. **933**, Locke, excluded because it is a county road (Sioux County).

This initial iteration will also analyze existing non-NFSR roads including the four listed below.

1. **706**, East Ash, is a major access route to and through the Forest. It was thought to be under Forest Service jurisdiction, but now found to be under County jurisdiction. The Forest Service expects clear authority to manage this road in the near future (not on NFSR_2_15_2008 list but yes on UserView_2_6_2008 list). This road is grouped with the NFSR roads in this document's tables and data summaries.
2. **760**, no name or Rock Canyon, an easement on road kept for mineral access after FS exchanged-out. It was erroneously identified as a County road in INFRA, this will be (has been?) corrected.

3. **71.1** is an “undetermined” road with access directly off of State Highway 71. The road is in good shape and has potential for rock hounding and could be used for walk-in hunting.
4. **718.7** is a user created road with no known weed or aquatic problems. It accesses dispersed camping, dirt biking, and hunting; and maybe needed for upcoming vegetation treatments proposed by the District. This alignment is also non-motorized trail 24-D.

Step 2 – Describing the Situation

The Pine Ridge Ranger District manages about 144,500 acres in extreme northwestern Nebraska: the Pine Ridge portion of the Nebraska National Forest, 50,500 acres; and the Oglala National Grassland, 94,000 acres. The climate is semi-arid. Temperature extremes may range from minus 37-degrees Fahrenheit to 110-degrees Fahrenheit. Precipitation averages 18-inches per year (Chadron, Nebraska), decreasing to 15-inches per year as we move northwest (to Ardmore, South Dakota) with 80% falling between April and September.

The Pine Ridge portion of the Nebraska National Forest: Topography is dominated by the “Pine Ridge,” an escarpment of sandstone bluffs characterized by extensive growth of ponderosa pine. Vegetation/habitat types include coniferous forest dominated by ponderosa pine, open coniferous forest/ grassland (savannah), open grassland (parkland), and woody draws and riparian woodlands. Developed recreational sites include trailheads, picnic facilities, and/or campgrounds at Spotted Tail, Cliffs, Outrider, Red Cloud, Roberts, Coffee Mill, East Ash, West Ash, and Soldier Creek. The Pine Ridge National Recreation Area and the Soldier Creek Wilderness Area are also found here. Primary dispersed recreational activities include big game hunting, wildlife viewing, horseback riding, mountain biking, hiking, fishing, and camping. Primary access is off of US Highway 385 which heads through inter-mingled lands south of Chadron including Chadron State Park; and off of US Highway 20 which connects Chadron to Crawford, then cuts through Fort Robinson State Park, and continues westward just south of the Soldier Creek Wilderness Area. Most of these lands are within Dawes County, but the Soldier Creek Area and about 160 acres at the western extent is within Sioux County. (USDA, 2002b, 2003)

Oglala National Grassland: Topography is a blend of rolling plains and badlands, including highly eroded benches, clay hardpans, and bluffs. The primary vegetation/habitat type is upland grassland, a mixed grass prairie which includes badlands, prairie dog colonies, and woody draw/ riparian woodland components. The Roundtop Area consists of a ponderosa pine/ grassland mix typical of the Pine Ridge. Wetland/ aquatic habitat is restricted to lands adjacent to constructed water impoundments. Sagebrush habitat is also limited, and is found along some of the floodplain areas. The two developed recreation sites are Toadstool Geologic Park and Hudson-Meng Bison Bonebed; the two mapped points of interest are “three corners” (Wyoming/ South Dakota/ Nebraska) and Montrose. Primary dispersed recreational activities include big game hunting, limited upland game and waterfowl hunting, wildlife viewing, horseback riding, mountain biking, hiking, fishing, camping, and rock hounding. Primary access is via State Highway 71 (and State Highway 2 which occupies the same alignment through this area) and the Toadstool Road (904), which traverse the eastern half of the area trending northwest/ southeast between Crawford, Nebraska and Hot Springs, South Dakota; and the Montrose (914) and Edgemont (915/ Cty5), Roads which bisect the western half of the area. (USDA, 2002b, 2003). Most of the lands are within Sioux County; the eastern extent (about 6 miles, Range 52 West and the first (eastern) tier of Range 51 West, Sixth Principle Meridian) is within Dawes County.

Federal ownership dates back to the 1930's when the United States purchased lands as part of a program of land utilization and land use adjustment under various authorities, including the Bankhead-Jones Farm Tenant Act. There are limited Reserved Public Domain status lands, 647 acres total. Federal lands are scattered and intermingled with private and State lands. Rights-of-way for public access, private access, federal and other public agency access over or to federal lands are not always clear and can be quite complex. Jurisdiction, esp. whether there is public access, on existing roads accessing or crossing lands administered by the Forest Service is not always readily apparent. Forest staff is working on clarifying and resolving access issues where they are they are identified. The

respective organized Township boards of Dawes and Sioux Counties opened, constructed, maintained, vacated, and may have abandoned certain public roads before they were acquired by the United States. Forest staff has reviewed/ searched the Office of Register of Deeds, Deed books, Commissioners Records, Surveyors Atlas, Road Atlas, and/or Road Records of Dawes and Sioux Counties to interpret road status

The District follows national trends with increasing numbers of people enjoying National Forest System lands (including Grasslands) with motor vehicles as an integral part of their recreational experience. Off road travel by 4-wheel-drive or other high-clearance vehicles is facilitated by the open rolling terrain. Increasing numbers of people coupled with advances in the power, range, and capabilities of their vehicles increases the magnitude and intensity of potential resource effects, user conflicts, and maintenance costs (USDA, 2005). Public response to the concurrent Travel Management planning effort has run the gamut from wanting no roads to every-road and everywhere. The proposed action does not reduce system road miles, but substantially reduces potential motorized travel because it restricts use of non-system roads and cross country travel (USDA, 2007).

The ID Team selected the roads in Appendix A for analysis. The INFRA database was used for road management information inputs and location. There are 271.3 miles of road analyzed of which 130.1 miles are existing system roads. Of these system roads there are 22 roads totaling 29.2 miles that are maintained for passenger cars (maintenance level 3). The remaining roads are in maintenance level 2, open for use by high clearance vehicles (100.9 miles) or non-system routes (141.2 miles). The maintenance level 2 roads may be maintained only rarely, or when a specific problem has been identified. The non-system routes have been attributed as "undetermined and other non-NFSR roads." Many of these routes may be indistinguishable on the ground from the system roads in maintenance level 2. These routes were probably user created and are not currently managed or maintained.

Step 3 – Identifying Issues

The ID Team, including the District Ranger, reviewed the questions from the *Roads Analysis Handbook* (USDA, 1999) as supplemented by the R2 Roads Analysis Supplement (USDA, 2004) for applicability to the project. In order to focus the analysis on issues relevant to the District, only applicable key questions were adopted for consideration in the assessment of each road. Table 1 displays the questions considered in responding to the respective issues for the assessment.

Table 1 – Issues and Key Questions

Issue: Ecosystem Function
Ecosystem Functions and Processes (EF)
EF-2A. To what degree do the presence, type, and location of roads increase the introduction and spread of exotic plant and animal species, insects, diseases, and parasites?
EF-2B. What are the potential effects of such introductions to plant and animal species and ecosystem function in the area?
EF-3. To what degree do the presence, type, and location of roads contribute to the control of insects, diseases, and parasites?
EF-4. How does the road system affect ecological disturbance regimes in the area?
Issue: Aquatic, Riparian Zone, and Water Quality
Aquatic, Riparian Zone, and Water Quality (AQ)
AQ-1. How and where does the road system modify the surface and subsurface hydrology of the area?
AQ-2. How and where does the road system generate surface erosion?
AQ-3. How and where does the road system affect mass wasting?
AQ-4. How and where do road-stream crossings influence local stream channels and water quality?
AQ-6A. How and where is the road system “hydrologically connected” to the stream system?
AQ-6B. How do the connections affect water quality and quantity (such as the delivery of sediments and chemicals, thermal increases, and elevated peak flows)?
AQ-7A. What downstream beneficial uses of water exist in the area?
AQ-7B. What changes in uses and demand are expected over time?
AQ-8. How and where does the road system affect wetlands?
AQ-9. How does the road system alter physical channel dynamics, including isolation of floodplains; constraints on channel migration; and the movement of large wood, fine organic matter, and sediment?
AQ-10B. What aquatic species are affected and to what extent?
AQ-12. How and where does the road system contribute to fishing, poaching, or direct habitat loss for at-risk species?
AQ-13. How and where does the road system facilitate the introduction of non-native aquatic species?
AQ-14. To what extent does the road system overlap with areas of exceptionally high aquatic diversity or productivity, or areas containing rare or unique aquatic species or species of interest?
Issue: Wildlife
Terrestrial Wildlife (TW)
TW-1. What are the effects of the road system on terrestrial species habitat?

Table 1 – Issues and Key Questions

TW-2. How does the road system facilitate human activities that affect habitat?
TW-3A. How does the road system affect legal and illegal human activities (including trapping, hunting, poaching, harassment, road kill, or illegal kill levels)?
TW-3B. What are the effects on wildlife species?
TW-4. How does the road system directly affect unique communities or special features in the area?
Issue: Cultural and Heritage Resources
Cultural/ Heritage and Paleo Resources – Resource Impacts
What are the effects on cultural sites of existing roads, trails, and areas? (for new system roads, trails, and areas, cultural surveys will be done.)
Cultural and Heritage (CH) (W.O. revisions)
CH-1. How does the road system affect access to paleontological, archaeological, and historical sites and the values people hold for these sites?
CH-2. How does the road system and road management affect American Indian Treaty rights?
CH-3. How does road use and road management affect roads that constitute historic sites?
Issue: Economics
Economics (EC) (W.O. revisions)
EC-1A. What are the monetary costs associated with the current road system?
EC-1. How do these costs compare to the budgets for management and maintenance of the road system? Especially low budgets?
EC-3 (revised). What are the direct economic impacts of the current road system and its management upon communities around the forest?
Issue: Human Uses
HUMAN USES/ COMMODITY PRODUCTION
Minerals Management (MM)
MM-1. How does the road system affect access to locatable, leasable, and salable minerals?
Range Management (RM)
RM-1. How does the road system affect access to range allotments?
Water Production (WP)
WP-1. How does the road system affect access to, and constructing, maintaining, monitoring, and operating, of diversions, impoundments, and distribution canals, or pipes?
Special Forest Products (SP)
SP-1. How does the road system affect access for collecting special forest products?
Special Use Permits (SU)
SU-1. How does the road system affect managing special-use permit sites (concessionaires, communication sites, utility corridors, and so on)?
General Public Transportation (GT)
GT-2. How does the road system connect large blocks of land in other ownership to public roads (ad hoc communities, subdivisions, in-holdings, and so on)? Access to in-holdings. Are there constraints to public access (needed r/w)?
GT-3. How does the road system affect managing roads with shared ownership or with limited jurisdiction? (RS-2477, cost share, prescriptive rights, FLPMA easements, FRTA easements, DOT easements)? (Abandoned/ vacated section line roads)
GT-4. How does the road system address the safety of road users?

Table 1 – Issues and Key Questions

Administrative Use (AU)
AU-1. How does the road system affect access needed for research, inventory, and monitoring?
AU-2. How does the road system affect investigative or enforcement activities?
Protection (PT)
PT-1. How does the road system affect fuels management?
PT-2. How does the road system affect the capacity of the Forest Service and cooperators to suppress wildfires?
PT-3. How does the road system affect risk to firefighters and to public safety?
PT-4. How does the road system contribute to airborne dust emissions resulting in reduced visibility and human concerns?
RECREATION
Unroaded/ Non-motorized Recreation (UR)
UR-2. Is developing new roads into unroaded areas, decommissioning of existing roads, or changing the maintenance of existing roads causing substantial changes in the quantity, quality, or type of unroaded recreation opportunities?
UR-3. What are the adverse effects of noise and other disturbances caused by developing using, and maintaining roads, on the quantity, quality, and type of unroaded recreation opportunities?
UR-4. Who participates in unroaded recreation in the areas affected by constructing, maintaining, and decommissioning roads?
UR-5. What are these participants' attachments to the area, how strong are their feelings, and are alternative opportunities and locations available?
Road & Motorized Trail-Related Recreation (RR)
RR-1. Is there now or will there be in the future excess supply or excess demand for roaded recreation opportunities? Given that cross-country motorized travel will generally be prohibited, is there a need for more motorized trail vehicle/ OHV use? If so, what types?
RR-2. Is developing new roads into roaded areas, decommissioning of existing roads, or changing maintenance of existing roads causing substantial changes in the quantity, quality, or type of roaded recreation opportunities?
RR-3. What are the adverse effects of noise and other disturbances caused by construction, using and maintaining roads on the quantity, quality, or type of roaded recreation opportunities?
RR-4. Who participates in roaded recreation in the areas affected by road construction, changes in road maintenance, or road decommissioning?
RR-5. What are these participants' attachments to the area, how strong are their feeling, and are alternative opportunities and locations available?
RR-6 (former SI-8 per W.O.). How does road management affect wilderness attributes, including natural integrity, natural appearance, opportunities for solitude, and opportunities for primitive recreation?
Passive-Use Value (PV) -- Replaced/ Combined with SI per W.O.
Social Values (SI) (W.O. revisions)
SI-1A. Who are the direct users of the road system and of the surrounding areas? (such as hunters, fishers, ice fishers, birdwatchers, ranchers.)
SI-1B. What activities are they directly participating in?
SI-1C. Where are these activities taking place?
SI-2A. Why do people value their specific access to national forest and grasslands -- what opportunities does access provide?

Table 1 – Issues and Key Questions

SI-3. What are the broader social and economic benefits and costs of the current forest road system and its management?
SI-4. How does the road system and road management contribute to or affect people’s sense of place?
SI-5 What are the current conflicts between users, uses, and values (if any) associated with the road system and road management? SI-5A. Are these conflicts likely to change in the future with changes in local population, community growth, recreational use, resource developments?
Civil Rights and Environmental Justice (CR) (W.O. revisions)
CR-1. Is the road system used or valued differently by minority, low-income, or disabled populations than by the general population? CR-1A. Would potential changes to the road system or its management have disproportionate negative impacts on minority, low-income, or disabled populations?

The current INFRA and GIS databases and knowledge of the Interdisciplinary team will be used to assess the relative status of each road for each issue.

Step 4 – Assessing Benefits, Problems, and Risks

Each road or road segment is assessed by the interdisciplinary team, including the District Ranger. This assessment focuses on each issue and the respective key questions (Step 3). Problems and risks are primarily assessed under the potential resource impact issues: Ecosystem Function; Aquatic, Riparian Zone, and Water Quality; Wildlife; and Cultural and Heritage Resources. The benefits of the roads system are primarily found under the issue Human Use which describes access needs for resource management, permitted, and recreational use. The Economics issue assesses cost of maintenance as well as trying to provide prospective of cost in the context of weighing the benefits, problems, and risks. Each road or road segment is assigned a relative rating from 1 to 10 for each issue by the interdisciplinary team. Comments regarding the relevant details are also recorded on the assessment sheet. The INFRA database is coupled with the hardcopy maps of the current travel management, proposed travel management, and the subject road projected from the forest corporate GIS layer to facilitate identification and resolution of any data inconsistencies and to provide a spatial context for the assessment. The ratings are displayed in *Appendix A – Travel Analysis Summary*. Resource comments recorded for each road can be found in *Appendix B – Travel Analysis Comments*.

Resource Impacts

The resource impact issues: Ecosystem Function; Aquatic, Riparian Zone, and Water Quality; Wildlife; and Cultural and Heritage Resources are rated on a relative 1 to 10 scale for potential adverse impact. A “1” reflects the potentially most severe impact; a “10” reflects no impact. The average of all four resource impact issues are used to place the road into a High, Medium, or Low Risk group. The risk group is then used in the Travel Analysis Rating Matrix (see Step 5) to define the parameters of management for each road. Averages greater than 7.5 are considered Low Risk; averages between 7.5 and 3.5 are considered Medium Risk; and averages less than or equal to 3.5 are considered High Risk.

The road with the most severe potential impact to Ecosystem Function (rating=3) and Aquatic, Riparian Zone, and Water Quality (rating=1) was Windmill (727) on the Pine Ridge Unit of the Nebraska National Forest. It has noxious weeds, notably Canada Thistle, and runs up Little Bordeaux Creek with multiple crossing and active sediment transport. Roads with a “4” Ecosystem Function rating (the next most severe Rating) all have noxious weeds present, some were imbedded. The adjacent Collins Road (726) with a “3” Aquatic rating is experiencing some siltation at its crossing of Bordeaux Creek from the road cut. Potential Wildlife impacts were also most severe on Pine Ridge unit roads Highline (718), Schommer (725), Windmill (727), and Chasek (728), which traverse the Bighorn Sheep Management Area. Roads with the most severe Cultural and Heritage Resource potential were all on the Oglala National Grasslands, esp. in the Toadstool/ Hudson-Meng Areas which contain not only historical and cultural artifacts, but world-class fossil sites: Roads 900, 902, 902-A, 903-A, 903-B, 909, and 918 [Sugarloaf, Toadstool Park, Toadstool Park Sod House Loop, Hudson-Meng Camp Area, Hudson-Meng Parking Loop Cut-Across, Wolf Butte, and Cedar Canyon, respectively].

Five roads fell into the High Risk group (resource impacts average less than 3.5): Road 727, Windmill, and undetermined roads 12004, 702.2, 905.1T segments 1 and 2. Comments on these roads included Canada Thistle, Houndstongue, potential for weed seed dispersal, creek crossings, elk calving area, bighorn sheep, amphibians, wetlands, silt contribution, homestead site, bison jump site, and paleo sites.

Twelve roads fell into the Low Risk Group (resource impacts average greater than 7.5): Road Nos. 715, 711, 735, 714-A, 739-A, 708, 736, 916, 930, 71.1, 761 and 761-A (Red Cloud Campground, Spotted Tail Campground, Pine Ridge Work Center, Blackhills Overlook, Outrider Trailhead, Pasture 15, Deadmans, Indian Creek, Story, the “undetermined” road off of State Highway 71, and two SUP roads). Comments on these roads included ridge road, aggregate surface, no known weeds, no known problems, and cultural/paleo was insignificant or mitigated.

Human Use

The issue Human Uses attempts to identify the relative importance of each road for human activities. Human Use includes resource management and administration by District personnel for range, Special Uses, timber, wildlife, cultural and paleontological resources, fuels, fire suppression, and law enforcement activities; permittee access and use for range allotments, water, and minerals; recreational access for the full gamut of recreational activities including hunting (big game, birds, prairie dogs), fishing, bird-watching, horseback riding, rock hounding, ATV use; and general community and private land access.

The ID Team assesses each road, describes the access needed, and rates on a 1 to 10 relative scale for human access needs. A “1” reflects little to no need, a “10” reflects highly needed. The average rating was 6.2, with a median of 7 for all roads and average rating of 7.8 with a median of 8 for system roads. By observation of Appendix A, most System roads are considered important for access. The Human Use rating was used to place the road into a High, Medium, or Low Benefit/ Need group. The Benefit/ Need group is then used in the Travel Analysis Rating Matrix (see Step 5) to define the parameters of management for each road. Rating less than 3.5 were considered Low Benefit/ Need; less than 7.5 were considered Medium Benefit/ Need; and greater than/ or equal to 7.5 were considered High Benefit/ Need.

Only roads 902-A, 734 and 738 (Toadstool Park Sod House Loop, Scott, and Furman) fell in the Low Benefits/ Need group. The Sod House is a short distance (approx 300 ft) from the Toadstool Road (902); the Furman Road is a spur off the Scott Road, both are located north of private lands (a ranch) with no public access. Three roads rated a “10” (the highest of the High Benefit/ Need), Road 735, 902, and 903-B (Pine Ridge Work Center, Toadstool Park, and Hudson-Meng Parking Loop Cut-Across (accesses the covered excavation site)). These roads are obviously important.

Economics

The issue Economics attempts to assess relative direct cost and the relative value or benefit. For the most part, only roads maintained for passenger cars (maintenance level 3) receive regular maintenance during the year. Most of the roads maintained for high clearance vehicles (maintenance level 2) receive no maintenance, obviously no cost is considered cost effective. Higher use in the future may necessitate maintenance of these roads to protect resource values.

The ID Team assesses each road, describes associated direct costs, maintenance needs and potential future needs. Each road is rated on a 1 to 10 relative scale for Economic Cost, the direct costs associated with the road. A “1” reflects high cost; a “10” reflects no cost. Each road is also rated on a 1 to 10 relative scale for Economic Benefit. A “1” reflects the least effective cost benefit ratio; a “10” reflects highly cost effective.

The ratings for Economic Costs reflected moderate overall costs with an average rating of 6.3, and a median of 7 for all roads. System roads average 6.6 with a median of 7 for costs. The ratings for Economic Benefit also reflected reasonable value for money spent with an average rating of 6.4, and a median rating of 7 for all roads. System roads average 7.5 with a median of 8 for benefits. Neither the Economic Costs nor the Economic Benefit ratings are used in the Travel Analysis Rating Matrix.

Step 5 – Describing Opportunities and Setting Priorities

This analysis does not provide a single recommendation for each road. Rather, it provides the framework and parameters of reasonable management actions to be considered in developing alternative implementable Travel Management Plans. The management actions identified are based on the resource impact and human use ratings in a ratings matrix. The eventual setting of priorities for implementation is facilitated by providing a summary of the analysis in a spreadsheet. The spreadsheet can be sorted and/ or filtered such that the relative ratings become relative ranking or priorities.

Describing Opportunities

The Rating Matrix provides guidance for a range of viable management activities depending on a road’s potential Impact and its benefit or need as assessed in the road analysis process using the average Resource Impact Rating and the Human Need rating, respectively. As shown in Table 2 - Rating Matrix, management activities are Decommission for Low, Medium, or High Impact with Low or Medium Benefits/ Need; Retain for Low impact and Low, Medium, or High Benefits/ Need; Retain with very minor mitigations/ management change for roads with Medium Impacts and Low Benefits/ Need, Retain with minor mitigations/ management change for roads with Medium Impacts and Medium or High Benefits/ Need, Retain with major management change for roads with High Impacts, and Retain with major mitigation for roads with High Impacts and Medium or High Benefits/ Need.

Table 2 – Rating Matrix

		Impacts ¹		
		Low (8-9-10)	Medium (4-5-6-7)	High (0-1-2-3)
Benefits/ Need²	Low (0-1-2-3)	(1) Could get rid of but not hurting much if kept. D, R	(2) Decommission or retain with very minor mitigation; management changes. D, RM/M1	(3) Decommission or retain with major management changes. D, RC3
	Medium (4-5-6-7)	(4) Probably retain but could decommission. D, R	(5) Retain with minor mitigation or management changes, or decommission. D, RM/M2	(6) Decommission or Retain with major mitigation (relocation, reconstruction), or management changes. D, RM3, RC3
	High (8-9-10)	(7) Retain. R	(8) Retain with minor mitigation or management change. RM/M2	(9) Retain with major mitigation (such as relocation, reconstruction) or management changes. RM3, RC3
¹ From average resource impacts rating, the “break-off” values used for the average ratings were 3.5 and 7.5. ² From human use rating, the “break-off” values used for the average ratings were 3.5 and 7.5. ³ Activity Code Acronyms:				
D – Decommission			RM3 – Retain with major mitigation	
R – Retain			RC3 – Retain with major management change	
RM/M1 – Retain with very minor mitigation/management change			RM/M2 – Retain with minor mitigation/management change	

The rationale for assigning the management activity (opportunities) identified for each cell in Table 2- Rating Matrix are explained below:

- (1) The low cost/ low need “quandary” situation. No harm to retain; no harm to decommission.
- (2) If retained, some mitigation may be necessary; however, since need is low, mitigation may not be cost-effective; therefore, decommissioning will probably be common. Management changes could be used to mitigate and therefore retain.
- (3) The “no-brainer” argument for decommissioning; although no-cost or low- cost major management changes might be used to retain.
- (4) Retain and maintain, but not cost-effective to do major reconstruction.
- (5) Could retain and maintain but will usually need some generally minor mitigation. Mitigation includes possible management changes. Mitigation needs may not be cost-effective, leading to decommissioning.
- (6) Necessary mitigation will generally not be cost-effective, leading to decommissioning. Management changes, however, could allow retention.
- (7) The “no-brainer” argument for retention. The full range of maintenance and reconstruction activities can be used. Mitigation needs are none or minor. Management changes not justified by resource issues.
- (8) Retain; full range of maintenance and reconstruction activities can be used. Mitigation needs are generally minor. Mitigation includes possible management changes.
- (9) Retain; full range of maintenance and reconstruction activities can be used. Mitigation is necessary and could include relocation, reconstruction, and management changes.

Management changes include such things as seasonal closures or requiring washing of vehicles. Development of Road Management Objectives (RMOs) will guide maintenance levels, activities, and maintenance frequencies for all routes once and if retention (or addition) as National Forest System Roads or Trails is decided.

Setting Priorities

Priorities can be set by using any of the tables or spreadsheets for sorting and/or filtering by the desired criteria, presumably one or more of the issues. To facilitate comparison and ranking, all the ratings for each issue, including average impact and highest impact and the management options listed by their respective activity codes are displayed on one sheet in *Appendix A – Travel Analysis Summary*. Graphs showing distribution of rating values for each issue group by number of roads and miles of road are provided for a comparative context in *Appendix C – Travel Analysis Road Rating Graphs*.

Table 3 Specific Maintenance Opportunities for Resource Protection provides a summary of maintenance comments. Full record of recorded comments can be found in Appendix B – Travel Analysis Comments.

Table 3 - Specific Maintenance Opportunities for Resource Protection

Rd no.	Road Name	Maintenance Comments
715	RED CLOUD CAMPGROUND	hasn't been bladed for 3 yrs
719	STRONG CANYON	a major crossing with silt running down road
723	LITTLE WOLF EAST (CLIFFS)	culverts, some washing at SST, at switchback, and at drainage at east end
733	LITTLE WOLF WEST	road in bad shape (embedded); ML 2 = provides limited access from Hwy 385 to Highline road due to severe erosion on east end
803	MIDDLE FORK SOLDIER CREEK	Some siltation from cattle guard back east into Middle Fork Soldier Creek, some erosion in cut section
902	TOADSTOOL PARK	ditching in badlands area moving some silt
903	PINE BUTTE (MENG DRIVE)	some erosion going down trail to site from bathhouse
921	RABEN	some siltation in badlands
902-A	TOADSTOOL PARK SOD HOUSE LOOP	Some ponding in roadway, no drainage
903-A	HUDSON-MENG CAMP AREA	runoff into drainage to west
903-B	H-M PARKING LOOP CUT-ACROSS	some washing at hill down to building parking area
701	SECOND BENCH	1st ½ mile off County road is embedded and has moderate siltation running downhill
702	COFFEE MILL BUTTE	several sections are embedded with drainage problems (siltation and ponding)
726	COLLINS	on east end siltation from cut runs into Bordeaux Creek crossing
727	WINDMILL	silt into creek at Bordeaux Creek crossings; cost to improve and get out of creek bottom would be large
728	CHASEK	siltation into Bordeaux Creek @ north end of road; needs drainage dips; "hairy" switchback
732	TIMBER	wet/wetland areas impacting Deadhorse Creek as road runs thru, road is embedded in several areas
906	MENG RESERVOIR	Some damage on dam, stop road at gate on north end of dam
908	AGATE RESERVOIR	2 drainage crossing that get very muddy and run silt towards lake, dam has damaged from road crossing, stop road before dam
910	BOARDGATE RESERVOIR	some silt movement
918	CEDAR CANYON	Some rutting and ponding in badlands areas, road is embedded in places on south end in timber
922	AGATE	muddy mess, siltation, at Long Branch Creek crossing
925	PRAIRIE DOG	crossing near west end becomes muddy when wet
927	ANTELOPE	siltation problem at Antelope Creek culvert
803-A	BOOTS & SADDLE TRAILHEAD	may need aggregate to stabilize road going downhill to dispersed camping
804	NORTH FORK SOLDIER CREEK	within 50 ft. of the Middle Fork Soldier Creek - rutted with some silt movement; more like a trail than a road
718.7	#N/A	road "moves" when wet, braided road

Step 6 – Reporting

This document, including attached appendices, constitutes reporting for the Pine Ridge Travel Management Travel Analysis. Subsequent iterations of this report, if there are any, need not revise the body of text, but may be attached as additional appendices. It is likely that analyses of the INFRA database “undetermined” roads or other subset of (non-system) existing roads may be desired as the District progresses in its Travel Management Planning. There is no requirement to reiterate the content of this initial analysis. As determined by the Interdisciplinary Team and District Ranger, subsequent questions and rating may focus directly on suitability of grade and alignment for vehicle class; potential for mixed use; resource impacts and the actual costs of mitigation and/or maintenance (as opposed to relative rating); and the recreational value of destination. Subsequent analysis may even summarize single recommendations and rationale for “max” or other “less- than-max” travel management alternatives. It is assumed that for all desired destinations on the District, there is already a road (at least a two-track) accessing it, so it is unlikely that new alignments will be considered. Realignment may be considered to mitigate adverse resource effects or meet other needs.

Supporting Information

Appendix A – Travel Analysis Summary. The summary includes the original road identification number, new road identification number, road name, segment length, all Ratings (includes impacts, needs and use, costs), the average and high Resource Impact Rating, and recommended management actions from the Ranking Matrix.

Appendix B – Travel Analysis Resource Comments This table compiles all comments recorded for each issue group during the analysis.

Appendix C – Travel Analysis Road Rating Graphs This displays the ratings for ecosystem, aquatic, wildlife, heritage and cultural, economic and human uses in a graphic form.

Undetermined Roads

Undetermined roads were identified by the Interdisciplinary Team for consideration for including on the Forest Service System. These roads maintain historical access to recreation destinations, general area access and/or provide opportunities for “recreational travel loops.” Further consideration of these roads will be accomplished by the Travel Management Planning efforts.

Questions of Jurisdiction and Access

Table 4 compiles comments on jurisdiction and access that were generated in the ID Team meetings and further research. As can be seen, several of the jurisdiction and access issues remain to be resolved during the Travel Management Planning and probably some will continue for a longer period before they are resolved.

Table 4 - Questions of Jurisdiction and Misc. Access Considerations

Rd no.	Road Name	Jurisdiction/ Access
718	HIGHLINE	County to possibly vacate road south of Hilltop Road intersection
719	STRONG CANYON	short piece in middle that does not have easement
735	PINE RIDGE WORK CENTER	Admin. use in developed work area (work center)
900	SUGARLOAF	check with Sioux Co. on jurisdiction
903	PINE BUTTE (MENG DRIVE)	Road to pvt. Residence; may change to SU road
921	RABEN	may be County road/section line road for portion
739	OUTRIDER	no easement across pvt. to west, delete road number in 2nd FS property along road
739-A	OUTRIDER TRAILHEAD	check right-of-way off Hwy 385
903-A	HUDSON-MENG CAMP AREA	Administrative Use Only
724	ARISTOCRAT	no easement across pvt., end road @ windmill
725	SCHOMMER	Do not need approx. west 2/3rds of road; no easement across pvt.; rest for Admin. Use
726	COLLINS	needs crossing work for timber management
727	WINDMILL	no easement at south end to access Table Road; used to be county road, may convert to trail [cost to improve and get out of creek bottom would be large]
734	SCOTT	proposed to be abandoned, head cut pushes road onto pvt., may be section line road? may convert to trail, walk-in hunting...
736	DEAD MANS	may be Sioux Co. road based on testimony - waiting for survey
738	FURMAN	Proposed to be abandoned, no public access at present time
906	MENG RESERVOIR	Some damage on dam, stop road at gate on north end of dam
908	AGATE RESERVOIR	dam has been damaged from road crossing, stop road before dam
910	BOARDGATE RESERVOIR	stop road from crossing emergency spillway and dam at parking area
913	ROCK BASS RESVR	stop road from crossing dam
920	BADLANDS	check to see about ending road near C1/4 of Section 22
926	CEMETERY	1st 1+ mile is on pvt land and may be public road to cemetery on section line, MAY NOT BE NEEDED, very little public use
930	STORY	no access allowed
804	NORTH FORK SOLDIER CREEK	more like a trail than a road, Admin. use only
760	ROCK CANYON	FS easement for mineral rights access retained in land exchange
71.1	"undetermined"	could be used for walk-in hunting

Data Inconsistencies

Forest personnel are continuing to work on and correct data and mapping inconsistencies/errors as they are found. To assure consistency within this analysis, all Interdisciplinary Team work was done by projecting each road to the front of the room. Use of our Geographical Information System (GIS) in this way, for spatial context, provided that every team member was looking at the same alignment of the same road as it was discussed. These roads were attributed from the INFRA database. Segment length and beginning and ending termini were checked for consistency with records. Resolution of the data will be ongoing throughout the Travel Management Planning effort.

References

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USDA Forest Service. 2005. **36 CFR Parts 212, 251, 261, and 295 Travel Management; Designated Routes and Areas for Motor Vehicle Use; Final Rule**. Federal Register/ Vol. 70, No.216/ Wednesday November 9, 2005/ Rules and Regulations. 68265-68291. Washington D.C. <<http://www.fs.fed.us/recreation/programs/ohv/final>>

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http://www.fs.fed.us/r2/nebraska/projects/travel_management/index.shtml

Travel Management Proposed Action

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Pine Ridge Ranger District - Appendix A Travel Analysis Summary

Line #	FS Road #	New FS Route Identification	INFRA				Impacts						Use	Econ		Mgmt Options/ Activity Codes* from Rating Matrix		
			Road Name	Segment Length (miles)	maintenance level	Ecosystem	Aquatic	Wildlife	Cultural/ Paleo	mean	highest impact	Human Use		Economic Costs	Benefits	ave impact low	ave impact medium	ave impact high
1	715	715	RED CLOUD CAMPGROUND	0.30	3	7	9	8	9	8.3	7	9	7	8	R			
2	706	716	EAST ASH ROAD	4.40	3	4	5	5	8	5.5	4	9	5	9		RM/M2		
3	711	711	SPOTTED TAIL CAMPGROUND	0.50	3	7	9	8	9	8.3	7	6	7	8	D,R			
4	717	717	HILLTOP (JOB CORPS BY-PASS)	1.60	3	4	8	5	9	6.5	4	9	5	9		RM/M2		
5	718	718	HIGHLINE	1.60	3	7	7	2	6	5.5	2	9	6	9		RM/M2		
5.1	718	718	HIGHLINE	5.70	2	6	7	2	6	5.3	2	9	6	9		RM/M2		
6	719	719	STRONG CANYON	0.50	3	7	5	5	4	5.3	4	8	7	7		RM/M2		
6.1	719	719	STRONG CANYON	3.56	2	4	5	5	4	4.5	4	8	7	7		RM/M2		
7	723	723	LITTLE WOLF EAST (CLIFFS)	3.07	3	7	4	5	6	5.5	4	9	5	9		RM/M2		
8	733	733	LITTLE WOLF WEST	1.20	3	7	9	4	7	6.8	4	7	5	8		D,RM/M2		
8.1	733	733	LITTLE WOLF WEST	1.27	2	7	9	4	7	6.8	4	7	5	8		D,RM/M2		
9	735	735	PINE RIDGE WORK CENTER	0.20	3	8	9	9	9	8.8	8	10	4	9	R			
10	735-A		HOLTOM	0.25	3	6	5	5	4	5.0	4	5	5	5		D,RM/M2		
11	737	737	ROBERTS TRACT	0.80	3	7	9	7	4	6.8	4	9	5	8		RM/M2		
12	803	803	MIDDLE FORK SOLDIER CREEK	0.24	3	7	8	7	6	7.0	6	9	6	8		RM/M2		
13	805	805	SOUTH FORK SOLDIER CREEK	0.17	3	6	9	7	5	6.8	5	9	6	8		RM/M2		
14	900	900	SUGARLOAF	7.00	3	8	8	5	2	5.8	2	9	5	9		RM/M2		
15	902	902	TOADSTOOL PARK	1.43	3	5	8	5	2	5.0	2	10	6	9		RM/M2		
16	903	903	PINE BUTTE (MENG DRIVE)	0.73	3	7	8	5	4	6.0	4	10	6	9		RM/M2		
17	921		RABEN	1.22	3	8	7	5	2	5.5	2	9	8	5		RM/M2		
18	714-A	714-A	BLACKHILLS OVERLOOK	1.70	3	8	9	6	9	8.0	6	9	6	9	R			
19	739-A	739-A	OUTRIDER TRAILHEAD	0.13	3	8	9	8	9	8.5	8	9	6	9	R			
20	739	739	OUTRIDER	0.80	2	8	8	5	8	7.3	5	5	8	5		D,RM/M2		
21	902-A	902-A	TOADSTOOL PARK SOD HOUSE LOOP	0.06	2	5	8	5	2	5.0	2	3	8	5		D,RM/M1		
22	903-A	903-A	HUDSON-MENG CAMP AREA	0.10	2	8	8	5	2	5.8	2	8	7	9		RM/M2		
23	903-B		H-M PARKING LOOP CUT-ACROSS	0.29	2	5	7	5	1	4.5	1	10	6	9		RM/M2		
24	701	701	SECOND BENCH	2.00	2	4	7	5	5	5.3	4	9	6	7		RM/M2		
25	702	702	COFFEE MILL BUTTE	4.58	2	4	5	5	5	4.8	4	9	7	8		RM/M2		

Pine Ridge Ranger District - Appendix A Travel Analysis Summary

Line #	INFRA			Impacts								Use	Econ		Mgmt Options/ Activity Codes* from Rating Matrix		
	FS Road #	New FS Route Identification	Road Name	Segment Length (miles)	maintenance level	Ecosystem	Aquatic	Wildlife	Cultural/ Paleo	mean	highest impact		Human Use	Economic Costs	Benefits	ave impact low	ave impact medium
26	708	708	PASTURE 15	0.10	2	8	9	8	9	8.5	8	8	7	7	R		
27	724	724	ARISTOCRAT	3.20	2	8	9	4	4	6.3	4	8	7	7		RM/M2	
28	725	725	SCHOMMER	2.21	2	7	9	2	4	5.5	2	5	7	7		D, RM/M2	
29	726	726	COLLINS	3.30	2	4	3	4	4	3.8	3	7	3	6		D, RM/M2	
30	727	209	WINDMILL	4.06	2	3	1	1	3	2.0	1	5	0	5			D, RM3, RC3
31	728	728	CHASEK	2.31	2	4	6	2	5	4.3	2	5	4	5		D, RM/M2	
32	732	732	TIMBER	1.89	2	4	7	5	7	5.8	4	8	8	7		RM/M2	
33	734	734	SCOTT	2.21	2	4	8	5	5	5.5	4	3	7	6		D, RM/M1	
34	736	736	DEAD MANS	0.90	2	8	9	5	9	7.8	5	8	7	6	R		
35	738	738	FURMAN	1.30	2	7	9	5	9	7.5	5	3	8	8		D, RM/M1	
36	906	906	MENG RESERVOIR	0.90	2	4	8	6	9	6.8	4	8	8	8		RM/M2	
37	908	908	AGATE RESERVOIR	1.30	2	4	6	6	9	6.3	4	8	7	8		RM/M2	
38	909	909	WOLF BUTTE	6.11	2	8	7	5	2	5.5	2	8	8	8		RM/M2	
39	910	910	BOARDGATE RESERVOIR	0.50	2	4	6	6	9	6.3	4	8	8	8		RM/M2	
40	911	911	SIOUX RESVR	0.30	2	4	9	6	9	7.0	4	8	7	8		RM/M2	
41	913	913	ROCK BASS RESVR	1.70	2	4	9	4	9	6.5	4	8	7	8		RM/M2	
42	916	916	INDIAN CREEK	3.30	2	8	9	6	8	7.8	6	8	8	8	R		
43	917	917	PASTURE NO 1	3.52	2	8	8	6	5	6.8	5	8	8	8		RM/M2	
44	918	918	CEDAR CANYON	4.81	2	8	7	7	2	6.0	2	9	8	8		RM/M2	
45	920	920	BADLANDS	2.90	2	6	9	7	5	6.8	5	8	8	8		RM/M2	
46	922	922	AGATE	3.54	2	8	6	5	2	5.3	2	8	7	8		RM/M2	
47	923	923	LONG BRANCH	3.15	2	8	9	4	2	5.8	2	8	8	8		RM/M2	
48	924	924	CONKLIN	5.20	2	8	9	4	9	7.5	4	8	8	8		RM/M2	
49	925	925	PRAIRIE DOG	2.70	2	8	7	4	4	5.8	4	8	8	8		RM/M2	
50	926	926	CEMETERY	0.90	2	8	9	5	5	6.8	5	5	8	5		D, RM/M2	
51	927	927	ANTELOPE	1.71	2	4	6	5	9	6.0	4	8	6	8		RM/M2	
52	929	929	MILLER	6.20	2	4	8	5	6	5.8	4	8	8	6		RM/M2	
53	930	930	STORY	3.69	2	8	9	5	9	7.8	5	8	8	6	R		

Pine Ridge Ranger District - Appendix A Travel Analysis Summary

Line #	INFRA			Impacts								Use	Econ		Mgmt Options/ Activity Codes* from Rating Matrix		
	FS Road #	New FS Route Identification	Road Name	Segment Length (miles)	maintenance level	Ecosystem	Aquatic	Wildlife	Cultural/ Paleo	mean	highest impact		Human Use	Economic Costs	Benefits	ave impact low	ave impact medium
54	931	931	HOPPER	4.45	2	8	9	5	5	6.8	5	8	8	8		RM/M2	
55	932	932	UPPER INDIAN CREEK	3.31	2	4	7	5	5	5.3	4	8	8	8		RM/M2	
56	803-A	803-A	BOOTS & SADDLE TRAILHEAD	0.10	3	6	9	8	4	6.8	4	9	7	8		RM/M2	
57	804	804	NORTH FORK SOLDIER CREEK	0.85	2	4	5	4	5	4.5	4	8	8	3		RM/M2	
58	760	760		1.60	3	8	5	8	5	6.5	5	9	8	8		RM/M2	
Oglala Non-System Roads																	
0	12000	935		0.70	0	7	6	6	2	5.3	2	5	6	7		D,RM/M2	
0	12001			0.60	0	7	6	6	5	6.0	5	5	6	7		D,RM/M2	
0	71.1	937	SH71_41.7NW / 40.3N	1.60	0	9	8	8	6	7.8	6	8	8	8	R		
0	71.2	938		1.40	0	7	7	8	5	6.8	5	8	8	7		RM/M2	
0	900.1	939		1.40	0	7	8	8	5	7.0	5	8	8	7		RM/M2	
0	900.2	941		1.00	0	7	7	7	5	6.5	5	8	8	6		RM/M2	
0	900.3	940		1.20	0	6	6	7	5	6.0	5	8	8	7		RM/M2	
0	902.1	969		0.40	0	8	9	8	2	6.8	2	3	9	4		D,RM/M1	
0	904.1	942		1.50	0	6	7	6	5	6.0	5	6	7	6		D,RM/M2	
0	904.2	943		0.50	0	4	4	5	2	3.8	2	6	5	4		D,RM/M2	
0	905.1	944		0.60	0	4	7	4	8	5.8	4	7	4	5		D,RM/M2	
0	905.1A			0.10	0	4	7	4	5	5.0	4	5	4	5		D,RM/M2	
0	905.2	945		1.00	0	6	6	4	5	5.3	4	7	6	7		D,RM/M2	
0	905.2A			0.30	0	7	5	5	2	4.8	2	7	7	6		D,RM/M2	
0	905.3	946		0.70	0	7	5	5	5	5.5	5	6	7	6		D,RM/M2	
0	905.4	947		0.80	0	6	8	7	2	5.8	2	4	7	6		D,RM/M2	
0	905.4A			0.20	0	6	8	7	5	6.5	5	4	7	6		D,RM/M2	
0	905.6	948		1.50	0	6	6	7	2	5.3	2	5	6	6		D,RM/M2	

Pine Ridge Ranger District - Appendix A Travel Analysis Summary

Line #	FS Road #	New FS Route Identification	INFRA			Impacts						Use	Econ		Mgmt Options/ Activity Codes* from Rating Matrix		
			Road Name	Segment Length (miles)	maintenance level	Ecosystem	Aquatic	Wildlife	Cultural/ Paleo	mean	highest impact	Human Use	Economic Costs	Benefits	ave impact low	ave impact medium	ave impact high
0	906.1	949		2.60	0	7	8	7	5	6.8	5	7	7	7		D,RM/M2	
0	907.1	950		1.80	0	6	5	6	5	5.5	5	8	5	5		RM/M2	
0	907.2	951		4.68	0	6	5	5	5	5.3	5	5	7	6		D,RM/M2	
0	907.2A	952		0.50	0	7	7	6	5	6.3	5	8	7	7		RM/M2	
0	909.1	953		1.20	0	7	7	5	5	6.0	5	7	7	6		D,RM/M2	
0	909.2	953		1.30	0	6	5	4	5	5.0	4	5	6	5		D,RM/M2	
0	909.2A	953		1.30	0	7	6	4	5	5.5	4	5	6	5		D,RM/M2	
0	909.3	955		2.70	0	6	6	6	8	6.5	6	7	7	7		D,RM/M2	
0	909.4	956		2.30	0	7	8	6	5	6.5	5	8	6	7		RM/M2	
0	909.5	957		1.80	0	7	6	6	5	6.0	5	7	6	7		D,RM/M2	
0	912.1	936		0.40	0	5	5	5	2	4.3	2	7	7	6		D,RM/M2	
0	913.1			0.90	0	6	6	7	2	5.3	2	7	6	6		D,RM/M2	
0	913.2			0.20	0	6	6	7	2	5.3	2	4	6	6		D,RM/M2	
0	914.1	958		0.10	0	7	6	8	2	5.8	2	9	8	8		RM/M2	
0	914.2	959		0.71	0	6	7	6	5	6.0	5	4	7	6		D,RM/M2	
0	914.3	960		1.90	0	5	5	6	5	5.3	5	7	6	5		D,RM/M2	
0	915.1	961		1.00	0	7	5	7	2	5.3	2	7	6	6		D,RM/M2	
0	918.1	962		1.50	0	5	5	6	2	4.5	2	3	4	3		D,RM/M1	
0	920.1	928		3.60	0	7	7	6	2	5.5	2	7	7	7		D,RM/M2	
0	922.1	922		0.40	0	6	6	6	2	5.0	2	8	8	6		RM/M2	
0	924.1	963		1.00	0	7	8	7	5	6.8	5	6	8	6		D,RM/M2	
0	925.1	964		2.43	0	4	4	5	5	4.5	4	6	8	8		D,RM/M2	
0	930.1	965		1.40	0	8	7	7	5	6.8	5	3	9	5		D,RM/M1	

Pine Ridge Ranger District - Appendix A Travel Analysis Summary

INFRA			Impacts								Use	Econ		Mgmt Options/ Activity Codes* from Rating Matrix			
Line #	FS Road #	New FS Route Identification	Road Name	Segment Length (miles)	maintenance level	Ecosystem	Aquatic	Wildlife	Cultural/ Paleo	mean	highest impact	Human Use	Economic Costs	Benefits	ave impact low	ave impact medium	ave impact high
0	931.1	966		4.90	0	7	5	6	5	5.8	5	6	7	7		D,RM/M2	
0	931.2	931		1.20	0	8	7	7	5	6.8	5	4	7	7		D,RM/M2	
0	931.3	931		1.00	0	8	7	7	5	6.8	5	6	7	7		D,RM/M2	
0	932.1_seg1	967	932.1_Seg1	1.20	0	4	4	6	2	4.0	2	5	7	6		D,RM/M2	
0	932.1_seg2	967	932.1_Seg2	0.40	0	5	7	7	5	6.0	5	4	6	7		D,RM/M2	
0	932.1A			0.80	0	5	4	5	5	4.8	4	4	6	4		D,RM/M2	
0	934.1	968		1.30	0	8	6	6	8	7.0	6	6	7	7		D,RM/M2	
Pine Ridge Non-System Roads																	
0	761	761		0.10	0	8	8	8	8	8.0	8	2	9	3	D,R		
0	761A	761-A		0.10	0	8	8	8	8	8.0	8	2	9	3	D,R		
0	12002	12002		0.80	0	8	8	7	5	7.0	5	6	8	2		D,RM/M2	
0	12003	12003		1.00	0	7	5	6	8	6.5	5	4	8	3		D,RM/M2	
0	12004	12004		0.60	0	2	0	3	8	3.3	0	5	1	4			D,RM3,RC3
0	22000	762		0.60	0	5	6	4	5	5.0	4	7	6	7		D,RM/M2	
0	385.1	763		0.10	0	5	8	7	5	6.3	5	8	8	7		RM/M2	
0	701.1			0.40	0	7	8	7	5	6.8	5	5	5	4		D,RM/M2	
0	702.1_seg1	764	702.1_Seg1	0.40	0	4	4	6	8	5.5	4	7	4	5		D,RM/M2	
0	702.1_seg2	764	702.1_Seg2	0.30	0	6	6	6	8	6.5	6	7	6	6		D,RM/M2	
0	702.2	765		0.50	0	1	1	3	8	3.3	1	8	4	6			RM3,RC3
0	702.5			0.30	0	6	6	5	8	6.3	5	3	7	7		D,RM/M1	
0	704.1	766		0.10	0	4	5	6	5	5.0	4	8	7	8		RM/M2	
0	706.1	770		0.20	0	5	7	6	2	5.0	2	7	7	6		D,RM/M2	
0	706.2	769		0.10	0	5	5	5	8	5.8	5	8	7	7		RM/M2	

Pine Ridge Ranger District - Appendix A Travel Analysis Summary

Line #	INFRA			Impacts								Use	Econ		Mgmt Options/ Activity Codes* from Rating Matrix		
	FS Road #	New FS Route Identification	Road Name	Segment Length (miles)	maintenance level	Ecosystem	Aquatic	Wildlife	Cultural/ Paleo	mean	highest impact		Human Use	Economic Costs	Benefits	ave impact low	ave impact medium
0	706.2A			0.10	0	5	5	5	8	5.8	5	8	7	5		RM/M2	
0	706.3	768		0.10	0	6	5	5	5	5.3	5	7	7	6		D, RM/M2	
0	706.4_seg1	767	706.4_Seg1	0.50	0	5	6	6	2	4.8	2	7	6	4		D, RM/M2	
0	706.4_seg2	767	706.4_Seg2	0.20	0	6	6	6	5	5.8	5	7	6	5		D, RM/M2	
0	706.5	771		0.10	0	7	7	6	5	6.3	5	5	8	6		D, RM/M2	
0	706.6			0.10	0	7	7	6	8	7.0	6	5	7	7		D, RM/M2	
0	711.1	711		0.10	0	7	8	5	2	5.5	2	9	8	7		RM/M2	
0	717.1			0.50	0	8	8	6	5	6.8	5	6	8	5		D, RM/M2	
0	718.1	772		0.60	0	6	7	5	5	5.8	5	8	7	8		RM/M2	
0	718.1A	772		0.30	0	6	6	4	8	6.0	4	8	7	8		RM/M2	
0	718.2	773		0.40	0	7	7	5	2	5.3	2	7	7	7		D, RM/M2	
0	718.7	774	718_3.4E	0.50	0	7	7	5	5	6.0	5	7	7	7		D, RM/M2	
0	719.1			0.10	0	6	8	7	8	7.3	6	5	8	4		D, RM/M2	
0	723.1	775		1.80	0	3	5	2	8	4.5	2	6	4	7		D, RM/M2	
0	723.1A	775		0.10	0	6	8	2	8	6.0	2	6	4	5		D, RM/M2	
0	724.1			0.70	0	5	6	6	8	6.3	5	6	6	7		D, RM/M2	
0	724.1A			0.20	0	5	6	6	8	6.3	5	6	6	7		D, RM/M2	
0	726.1			0.10	0	6	5	5	2	4.5	2	8	7	7		RM/M2	
0	726.2			0.10	0	6	5	5	2	4.5	2	8	7	7		RM/M2	
0	728.1	776		0.40	0	5	6	2	8	5.3	2	4	7	5		D, RM/M2	
0	728.2			0.70	0	3	4	2	8	4.3	2	6	3	6		D, RM/M2	
0	732.1	777		0.90	0	4	6	6	5	5.3	4	4	4	6		D, RM/M2	
0	732.2	778		0.10	0	5	6	6	5	5.5	5	6	7	8		D, RM/M2	

Pine Ridge Ranger District - Appendix A Travel Analysis Summary

			INFRA				Impacts					Use	Econ		Mgmt Options/ Activity Codes* from Rating Matrix		
Line #	FS Road #	New FS Route Identification	Road Name	Segment Length (miles)	maintenance level	Ecosystem	Aquatic	Wildlife	Cultural/ Paleo	mean	highest impact	Human Use	Economic Costs	Benefits	ave impact low	ave impact medium	ave impact high
0	737.1	737		0.50	0	6	9	7	5	6.8	5	5	7	7		D,RM/M2	
0	739.1	779		2.20	0	6	7	5	8	6.5	5	4	6	7		D,RM/M2	
0	803_1	803	MIDDLE FORK TURNAROUND LOOP	0.10	0	9	6	6	5	6.5	5	9	8	9		RM/M2	
Trails																	
Oglala Trails																	
0	905.1M			3.20	0	4	5	2	5	4.0	2	3	3	4		D,RM/M1	
0	905.1T_seg1	945	905.1T_seg1	3.70	0	4	5	2	2	3.3	2	3	4	5			D,RC3
0	905.1T_seg2	945	905.1T_seg2	0.20	0	3	6	2	2	3.3	2	2	3	2			D,RC3
0	Area Open to Cross Country Travel			0.00	0	5	3	7	1	4.0	1	3	4	3		D,RM/M1	
Pine Ridge Trails																	
0	24C_seg1	210	24C_seg1	1.30	0	5	5	5	8	5.8	5	7	5	6		D,RM/M2	
0	24C_seg2	210	24C_seg2	0.20	0	5	5	5	2	4.3	2	4	5	6		D,RM/M2	
0	24E	206		0.40	0	5	7	5	5	5.5	5	5	7	7		D,RM/M2	
0	24EM	206		5.10	0	5	5	5	8	5.8	5	5	6	5		D,RM/M2	
0	28	214		1.30	0	5	6	6	5	5.5	5	6	5	5		D,RM/M2	
0	28.1	215		0.40	0	4	5	5	5	4.8	4	4	4	6		D,RM/M2	
0	701.1M			1.80	0	5	5	5	8	5.8	5	3	7	6		D,RM/M1	
0	702.1M	222		1.50	0	4	4	5	8	5.3	4	2	7	4		D,RM/M1	
0	702.1T	221		2.20	0	3	6	6	8	5.8	3	4	7	3		D,RM/M2	
0	702.2T	221		2.70	0	5	7	6	8	6.5	5	2	2	6		D,RM/M1	
0	702.3T	221		1.40	0	5	6	6	8	6.3	5	6	6	7		D,RM/M2	

Pine Ridge Ranger District - Appendix A Travel Analysis Summary

Line #	FS Road #	New FS Route Identification	INFRA			Impacts						Use	Econ		Mgmt Options/ Activity Codes* from Rating Matrix		
			Road Name	Segment Length (miles)	maintenance level	Ecosystem	Aquatic	Wildlife	Cultural/ Paleo	mean	highest impact		Human Use	Economic Costs	Benefits	ave impact low	ave impact medium
0	702.4T			0.50	0	5	6	5	8	6.0	5	3	6	6		D,RM/M1	
0	718.1M	202/203		1.80	0	5	6	6	8	6.3	5	4	6	7		D,RM/M2	
0	718.1T	210		0.90	0	5	6	3	5	4.8	3	4	6	7		D,RM/M2	
0	718.2T	210		1.70	0	6	5	5	8	6.0	5	6	7	7		D,RM/M2	
0	718.3T	210/211		1.40	0	6	6	6	8	6.5	6	6	7	6		D,RM/M2	
0	718.4T	203		5.60	0	5	5	5	2	4.3	2	2	3	7		D,RM/M1	
0	718.5T	205		0.90	0	5	6	6	8	6.3	5	3	3	7		D,RM/M1	
0	718.6T	213		0.90	0	5	5	6	5	5.3	5	2	2	5		D,RM/M1	
0	718.8T	214		0.10	0	6	7	6	2	5.3	2	8	3	5		RM/M2	
0	719.1T	216		2.90	0	6	6	6	8	6.5	6	3	4	6		D,RM/M1	
0	724.1M	201		1.60	0	6	5	6	5	5.5	5	3	6	5		D,RM/M1	
0	724.1T			0.80	0	5	5	6	8	6.0	5	2	6	4		D,RM/M1	
0	724.2M	200		2.90	0	5	5	5	8	5.8	5	3	5	6		D,RM/M1	
0	724.2T			0.10	0	5	8	7	5	6.3	5	2	7	6		D,RM/M1	
0	724.3T			2.00	0	4	5	5	5	4.8	4	2	3	5		D,RM/M1	
0	724.4T	213		1.90	0	5	6	6	8	6.3	5	4	6	5		D,RM/M2	
0	727.1T	209		1.60	0	6	7	3	8	6.0	3	4	6	6		D,RM/M2	
0	728.1M	208		1.00	0	6	6	3	8	5.8	3	4	6	6		D,RM/M2	
0	728.2M	207		1.00	0	7	7	2	8	6.0	2	4	7	5		D,RM/M2	
0	732.1M	219		1.30	0	6	6	6	8	6.5	6	5	6	7		D,RM/M2	
0	732.1T	218		1.80	0	4	6	6	5	5.3	4	5	4	6		D,RM/M2	
0	738.1M	217		1.20	0	5	5	5	8	5.8	5	2	6	5		D,RM/M1	
0	738.1T	218		0.70	0	5	5	5	5	5.0	5	2	6	5		D,RM/M1	

Pine Ridge Ranger District - Appendix A Travel Analysis Summary

Line #	FS Road #	New FS Route Identification	INFRA			Impacts						Use	Econ		Mgmt Options/ Activity Codes* from Rating Matrix		
			Road Name	Segment Length (miles)	maintenance level	Ecosystem	Aquatic	Wildlife	Cultural/ Paleo	mean	highest impact	Human Use	Economic Costs	Benefits	ave impact low	ave impact medium	ave impact high
0	739.1T			2.10	0	5	5	5	5	5.0	5	1	5	5		D,RM/M1	
			<i>total miles/ ave ratings:</i>	270.84		5.9	6.5	5.4	5.5			6.2	6.3	6.4			
			<i>median:</i>			6	6	5	5			7	7	7			

*Activity Codes:

- D Decommission
- R Retain
- RM/M1 Retain with very minor mitigation/ management change
- RM/M2 Retain with minor mitigation/ management change
- RC3 Retain with major management change
- RM3 Retain with major mitigation

Ratings:

- Impacts: 10 = no impact; 1 = severe impact
- Use: 10 = highly needed; 1 = little to no need
- Econ Costs: 10 = no cost; 1 = high cost
- Econ Benefits: 10 = highly cost effective; 1 = least cost effective

Intentionally Blank

Pine Ridge Ranger District - Appendix B Resource Comments

Rd no.	Road Name	Impacts				Use	Econ
		Ecosystem	Aquatic	Wildlife	Cultural/ Paleo	Human Use	Costs/ Benefits
715	RED CLOUD CAMPGROUND	Red Cloud campground, moderate potential for weed seeds dispersal from traffic.	Bench road in Red Cloud campground - only culvert is in Hwy. ROW, aggregate surface	Lots of turkeys, whitetail deer	None known	As long as site is kept open for dispersed camping, some timber management	Aggregate surfaced road placed in early 80's, 1 culvert, old style outhouse, hasn't been bladed for 3 yrs, campground with spurs, play area
706	EAST ASH ROAD	East Ash road, easement on north end, probably a county road except where FS moved road south of switchback, Canada thistle exists in the riparian areas	Road has a min. of 3 culverts at East Ash creek crossings, 1 minor area of road washing into creek, aggregate surface, several drainage dips	Turkeys, whitetail and mule deer, elk, trout fishing, songbirds, possible eagle nesting sites	Possible homestead site near trailhead	Major road linking Table Road with Hwy. 20, recreation, hunting, fishing, hiking trailhead parking, fire protection, range, dispersed camping	Aggregate surfaced road placed in mid 90's, bladed min. 3 times/yr., provides cross country access from Table Road to Hwy 385, has min. 4 culverts, 5 cattleguards, Trailhead parking area, road shoulders mowed twice/yr., road signs
711	SPOTTED TAIL CAMPGROUND	Spotted Tail dispersed camping area, Trailhead, burned over in 2006, moderate potential for weed seed dispersal from recreation vehicles and users	Ridge road, aggregate surface	Turkeys, whitetail and mule deer, songbirds	None known	Short spur off Little Wolf West road, dispersed camping, hunting, party area, timber management, hiking trailhead parking	Aggregate surface placed in early 80's, 1 culvert, old campground with spurs, bladed min. 3 times/yr
717	HILLTOP (JOB CORPS BY-PASS)	Hilltop Road (Job Corps bypass), bindweed exists along the road, moderate potential for weed seed dispersal from recreation vehicles and users, stable road no erosion	About 2/3rds flat road, crosses 2 major drainages with constructed road and culverts, min. 3 culverts, aggregate road	Turkeys, whitetail and mule deer, grouse leks in area	None known	Part of major transportation system linking Hwy 385 to Bordeaux Road, range, hunting, timber management, utility access (natural gas, waterline)	Aggregate surfaced road placed in early '80's, provides cross country access between Hwy 385 and Bordeaux Road, 3 cattleguards, min. 4 culverts, guardrail, bladed min. 3 times/yr., road shoulders mowed twice/yr., road signs

Pine Ridge Ranger District - Appendix B Resource Comments

Rd no.	Road Name	Ecosystem	Aquatic	Wildlife	Cultural/ Paleo	Human Use	Costs/ Benefits
718	HIGHLINE	Highline Road, ML 3 begins at Little Wolf East and runs north to 2nd cattleguard, County to possibly vacate road south of Hilltop Road intersection, moderate potential for weed seed dispersal from recreation vehicles and users.	Mostly bench road, runs thru 1 woody draw bottom (approx. 500 ft.), mostly grassed in, several drainage dips	Turkeys, whitetail and mule deer, elk, within the Bighorn Sheep Management Area (MA), several woody draws accessed by road	Homesteads near road	Part of major transportation system linking Hwy 385 to Bordeaux Road, range, hunting, utility access (overhead powerline), main fire protection access to large block of land, some timber management	This includes both ML 3 and 2 portions of road, native surface, ML portion bladed min. 3 times/yr., 3 cattleguards, 2 culverts, min. 15 drainage dips, ML 3 bladed min. 3 times/yr.
718	HIGHLINE	ML 2 runs from cattleguard north for 5.7 miles, moderate potential for weed seed dispersal from recreation vehicles and users, more off road use, rutting and erosion within and along road bed	0	0	0	0	0
719	STRONG CANYON	Strong Canyon road, aggregate surfaced east end with easement, part of trail system, low potential for weed seed dispersal.	About ½ ridge road, crosses min. 3 dry crossings (1 a major crossing with silt running down road, runs into Strong Canyon bottom for approx. 300',	Turkeys, whitetail and mule deer, road follows/crosses woody draw	Road runs through a homestead site	Transportation link between Hwy 385 and Highline road (718), short piece in middle that does not have easement across, range, fire protection, some timber management, hunting	At west end, first ½ mile is aggregate surface rest is native, min. 10 drainage dips, no access across pvt for public
719	STRONG CANYON	Begins at end of ML 3 portion and runs east to Highline Road, lots of Canada thistle on east end, weed seed dispersal moderate, pvt. portion in middle.	0	0	0	0	At west end, first ½ mile is aggregate surface rest is native, min. 10 drainage dips, no access across pvt for public

Pine Ridge Ranger District - Appendix B Resource Comments

Rd no.	Road Name	Ecosystem	Aquatic	Wildlife	Cultural/ Paleo	Human Use	Costs/ Benefits
723	LITTLE WOLF EAST (CLIFFS)	Little Wolf East (Cliffs road), aggregate surface, bindweed on west end, Canada thistle at Cliffs area and south along the riparian area. Low potential for weed seed dispersal from recreation vehicles and users.	Crosses Bordeaux Creek (culvert) at Cliffs, aggregate surface, min. 6 culverts, some washing at SST, at switchback, and at drainage at east end, min. 3 drainage dips	Turkeys, whitetail and mule deer, elk, several open parks in timber, pygmy nuthatch	Homesteads near road	Part of major transportation system linking Hwy 385 to Bordeaux Road, range, hunting, dispersed camping, fire protection, some timber management, rock climbing, some fishing, OHV use, party area at Cliffs	Aggregate surfaced road placed in early 80's, provides cross country access between Hwy 385 and Bordeaux Road, 4 cattleguards, min. 5 culverts, min. 5 drainage dips, bladed min. 3 times/yr., road shoulders mowed twice/yr., road signs
733	LITTLE WOLF WEST	Little Wolf west road, aggregate surface portion, begins @ Hwy 385 and runs east to MP 1.2, 1st ½ mile off Hwy 385 has easement, low potential for weed seed dispersal from recreation vehicles and users.	Mostly ridge road, min. 3 drainage dips	Turkeys, whitetail and mule deer, southern end of Bighorn Sheep Management Area	#25DW267 - old farm equipment/glass	ML 3 = range, hunting, concentrated use area	This road includes ML 2 and 3 portions of the same road, ML 3 is aggregate surfaced from the '80's, 1 cattleguard, min. 2 culverts, min 3 drainage dips.
733	LITTLE WOLF WEST	Little Wolf West road, begins at MP 1.2 and runs east to Highline, severe burned over area in 2006, moderate potential for weed seed dispersal from recreation vehicles and users, road in bad shape (embedded) with steep area on east end (rock ledge)	0	0	0	ML 2 = provides limited access from Hwy 385 to Highline road due to severe erosion on east end, hunting, parties, trail access, fire protection	ML 2 portion of road is native surfaced, embedded in several places, 1 cattleguard, accesses hiking trail

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Rd no.	Road Name	Ecosystem	Aquatic	Wildlife	Cultural/ Paleo	Human Use	Costs/ Benefits
735	PINE RIDGE WORK CENTER	Chadron Work Center loop road thru site, no known weed problem, chip/seal and concrete surfaces, some aggregate	Does not cross any drainages or impact any	Turkeys, whitetail and mule deer	None known	Admin. use in developed work area (work center)	This includes road into Work Center and to pvt. residence, Aggregate road placed in '80's to residence, road into Work Center has a chip/seal surface to gate, then mostly concrete surface drive (2007) with aggregate parking area,
735-A	HOLTOM	Chadron Work Center road off Hwy 385 to pvt. residence, burned over in 2006, low potential for weeds.	0	0	0	0	0
737	ROBERTS TRACT	Robert's Tract road, trail head and camping area, burned over in 2006, aggregate surface, low potential for weed seed dispersal from recreation vehicles and users.	Mostly a ridge road	Turkeys, whitetail and mule deer, possible eagle nesting sites	Homestead site is now a camping area, mitigated by fencing	Dispersed camping, hiking trailhead, hunting, range, fire protection	Aggregate surface placed in early '80's to dispersed camping site, 2 cattleguards, 1 culvert, bladed min. 3 times/yr., road shoulders mowed twice/yr
803	MIDDLE FORK SOLDIER CREEK	Middle Fork Soldiers Creek road, begins at cattleguard and runs NW to gate, 1-SST, aggregate surface, low potential for weed seed dispersal from recreation vehicles and users..	Some siltation from cattleguard back east into Middle Fork Soldier Creek, some erosion in cut section	Turkeys, whitetail and mule deer, elk, bighorn sheep	Area part of cattle research site - #25SX455	Access to Soldier Creek Wilderness, range, fire protection, recreation, 1-SST	Aggregate surface placed in '90's to deadend, 1 SST, bladed twice a yr.

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Rd no.	Road Name	Ecosystem	Aquatic	Wildlife	Cultural/ Paleo	Human Use	Costs/ Benefits
805	SOUTH FORK SOLDIER CREEK	South Fork Soldiers Creek road, begins off North Fork and runs south into trailhead and dispersed camping, moderate potential for weeds from horse activity, well, 2-SST's, corrals, tack shed, aggregate surface.	Road is on flat area	Turkeys, whitetail and mule deer, elk, bighorn sheep	None known, but existing tack shed may have come from the fort.	Campsight for access into Soldier Creek Wilderness, recreation, 2-SST's, corrals	Aggregate surface placed in '90's to dispersed camping, 2 SST's, water source, bladed twice a yr.
900	SUGARLOAF	Sugarloaf Road, cut across from Hwy 2/71 to Toadstool Road, aggregate surface, check with Sioux Co. on jurisdiction, no known weed problems. Low potential for weed seed dispersal from recreation vehicles and users.	Constructed road, aggregate surfaced with several culverts and drainage dips, crosses near a wetland near Sugarloaf	Pronghorned antelope, mule deer, some grouse, prairie dog town, snakes, swift fox, burrowing owls, maybe mountain plover, raptors	2 sites - #25DW62 and #25SX358	Major road linking Hwy 2/71 to Toadstool Road, range, hunting, rock hunting, fire protection, some fishing	Aggregate surface placed from mid '90's thru 2005, bladed min. 3 times a yr., road shoulders mowed twice/yr. 5 cattleguards, min. 10 culverts, road signs, provides cross country access from Hwy 2/71 to Toadstool Road
902	TOADSTOOL PARK	Toadstool Park road, aggregate surface, check railroad easement, Canada thistle in camping area, 2-SST's, abandoned well, Trailhead. Moderate potential for weed seed dispersal from recreation vehicles and users.	2 drainage crossings with 3 culverts, aggregate surface, ditching in badlands area moving some silt	Pronghorned antelope, mule deer, swift fox, snakes, golden eagles, other raptors, spade toads (in the past)	Possible sites, lots of paleo in area (the Toadstool Geologic paleo site has set the world's standard on defining the Chadron formation for types and sections - very significant), campground near sod house; a lot of theft and vandalism of fossils	Access to Toadstool Park camping area, hiking trailhead, range, hunting, fossil collection (legal and illegal), scenic views	Aggregate surface placed in '80's to and around campground, 3 culverts, 2 cattleguards, 2 SST's, 5 spurs, bladed min. 3 times/yr.,

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Rd no.	Road Name	Ecosystem	Aquatic	Wildlife	Cultural/ Paleo	Human Use	Costs/ Benefits
903	PINE BUTTE (MENG DRIVE)	Pine Butte road (Meng Drive), from Sand Creek road to Hudson-Meng parking area, aggregate surface, Russian Olive trees near pond, low potential for weed seed dispersal from recreation vehicles and users.	Mostly a ridge road, some erosion going down trail to site from bathhouse	Turkeys, mule deer, Pronghorned antelope, badger, mountain lion, snakes, raptors, fisheries in pond, woody draw to north	Main road access to Hudson-Meng Bison kill site - significant as major archy site - road allows access to site, chips	Highly needed as long as the Hudson-Meng site is open, hunting, range, fire protection	Access Hudson-Meng site and bathhouse area, aggregate surfaced in '90's, 2 cattleguards, high benefits as long as site stays open, bladed 3 times/yr., road shoulders mowed twice/yr.
921	RABEN	Raben road, no known weed problems, may be County road/section line road for portion as road access pvt. residence, aggregate surface. Low potential for weed seed dispersal from recreation vehicles and users.	Road runs in badlands and has some siltation movement	Pronghorned antelope, swift fox, prairie dog town, burrowing owls	Known fossil sites in area	Road to pvt. residence, hunting, rock hunting, range, fire protection, may change to SU road	Probably a County road, do not maintain
714-A	BLACKHILLS OVERLOOK	Black Hills Overlook road, no known weed problem, aggregate surface, above Chadron State Park. Moderate potential for weed seed dispersal from recreation vehicles and users.	Mostly a ridge road	Turkeys, whitetail and mule deer, mountain lion, possible Bigfoot sighting, songbirds	None known	Hunting, access to hiking trail, range, fire protection, scenic view at overlook, social (weddings)	Aggregate surfaced in '80's, balded min. 3 times/yr., road shoulders mowed 2 times/yr., deadends at parking area, hiking trail access

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Rd no.	Road Name	Ecosystem	Aquatic	Wildlife	Cultural/ Paleo	Human Use	Costs/ Benefits
739-A	OUTRIDER TRAILHEAD	Outrider Trailhead road (Mann road), aggregate surface, no known weed problem, potential from hay for horses at Trailhead, check right-of-way off Hwy 385. High potential for weed seed dispersal from horses (feed, manure), recreation vehicles and users.	No known problems, aggregate surface	Turkeys, whitetail and mule deer, not much road to analyze	None known close, but a burial site is south approx. ½ mile	Trailhead (horse), hunting, range, fire protection	Aggregate road surfaced in 2003, 2 cattleguards, accesses horse trailhead/corrals
739	OUTRIDER	Outrider Trailhead road - past Trailhead running west to 1st forest bdry., no easement across pvt. to west, delete road number in 2nd FS property along road, no known weed problem. High potential for weed seed dispersal from horses (feed, manure), recreation vehicles and users.	Pasture road, mostly grassed in, some minor swale crossings	Turkey, whitetail and mule deer, Bighorn Sheep, elk, open parks in timber	None known	Range, hunting, fire protection, dog walking, parties	Native surfaced road beyond 739, do not maintain
902-A	TOADSTOOL PARK SOD HOUSE LOOP	Toadstool Park sod house loop - Canada thistle at beginning of road. Moderate potential for weed seed dispersal from recreation vehicles and users.	Some ponding in roadway, no drainage	Snakes	Road accesses sod house, area has lots of paleo - see line #14 - 902	Access to sod house (social) - can be accesses by walking from 902	Native surface road to sodhouse, do not maintain, may not need

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Rd no.	Road Name	Ecosystem	Aquatic	Wildlife	Cultural/ Paleo	Human Use	Costs/ Benefits
903-A	HUDSON-MENG CAMP AREA	Hudson-Meng Camp area - Admin Use Only, orad past bathhouse and wellhouse, Russian Olive trees in area, no known weed problem. Moderate potential for weed seed dispersal from recreation vehicles and users.	Most of road is grassed in, some runoff into drainage to west	Turkeys, mule deer, Pronghorned antelope, badger, mountain lion, snakes, raptors, fisheries in pond, woody draw to north	Road to research camping area within Hudson-Meng Bison kill site	Access to non-public camping (research), flush toilet, seasonal use	Partially aggregate surfaced in '90's, road to research camping, do not maintain
903-B	H-M PARKING LOOP CUT-ACROSS	Hudson-Meng Building access road, Russian Olive trees at pond and Canada thistle. Moderate potential for weed seed dispersal from recreation vehicles and users.	Road crosses above headcut on south end, 1 culvert, some washing at hill down to building parking area	Turkeys, mule deer, Pronghorned antelope, badger, mountain lion, snakes, raptors, fisheries in pond, woody draw to north	Road accesses building/area where active digging is being performed - more impact than line #15 - 903 (This road is probably still listed as 903-C in INFRA)	Access to Hudson-Meng building - needed as long as site/building is open	Native surfaced road to building, bladed as needed (twice in last 4 yrs), 1 culvert, needed for vehicular access to building, needed as long as site stays open
701	SECOND BENCH	Second Bench road - south of Chadron State Park in Huff Allot., 1st ½ mile off County road is embedded, rest is ridge road, Canada thistle, bindweed, exists, Moderate potential for weed seed dispersal from recreation vehicles and users.	Moderate siltation running downhill in the first ½ mile, min. 4 drainage dips, no crossings	Turkeys, whitetail and mule deer, songbirds, elk, mountain lion, possible Bighorn Sheep, grouse habitat	Old vehicle near road, possible site in drainage bottom	Hunting, fire protection, timber management, range	Native surfaced, bladed min. 3 times/yr., road shoulder mowed twice/yr., 1 cattleguard, 5 drainage dips

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Rd no.	Road Name	Ecosystem	Aquatic	Wildlife	Cultural/ Paleo	Human Use	Costs/ Benefits
702	COFFEE MILL BUTTE	Coffee Mill Butte road - starts @ Table Road and ends on Deadhorse, several sections are embedded with drainage problems, Canada thistle exists in drainages. This road has serious erosion, silt and sediment problems on the north end. On the south end the road is deeply rutted which results in exposure of a buried cable. Moderate potential for weed seed dispersal from recreation vehicles and users.	Crosses Turkey Track creek (culvert) with siltation coming downhill from east and west in this area, some of road is embedded, runs around a headcut on north end, several drainage dips, ponding on roadway in several areas	Turkeys, whitetail and mule deer, elk, mountain lion, grouse, songbirds, minnows in Turkey Track creek	Possible homesites	Hunting, fire protection, range, utility access (fiber optic phone line), SU towers on south end, hiking trailhead at north end, timber management	Native surfaced road, embedded in places, repair as needed, min. 15 drainage dips, 3 cattleguards, min. 2 culverts, used by utility (phone)
708	PASTURE 15	Short segment into NRA - accessed by Dawes Co. road, no known weed problem. Low potential for weed seed dispersal from recreation vehicles and users.	No known problems	No much road to analyze, road that provides access NRA	None known	Short section of road on south end of NRA - accessed by Dawes County road, trail maintenance, range, fire protection	Native surfaced, do not maintain
724	ARISTOCRAT	Aristocrat road - begins off Highline and runs NE to pvt. - no easement across pvt., end road @ windmill, no known weed problem. Low potential for weed seed dispersal from recreation vehicles and users.	No known problems, springs in draw to east, sections are ridge road	Turkeys, whitetail and mule deer, east of Bighorn Sheep MA,	Road runs through homestead site, cistern, "Neat" site	Biggest impact is from Enduro, range, hunting, fire protection	Native surfaced, constructed min. 10 drainage dips in 2007, do not maintain

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Rd no.	Road Name	Ecosystem	Aquatic	Wildlife	Cultural/ Paleo	Human Use	Costs/ Benefits
725	SCHOMMER	Schommer road - begins off Highline and runs west to pvt. land, no easement across pvt., end road 2 approx. 1 mile, rest for Admin. use, potential for weeds due to fire in 2006. Low potential for weed seed dispersal from recreation vehicles and users.	No known problems	Turkeys, whitetail and mule deer, in Bighorn Sheep MA, open parks	Road runs near/through homestead sites	Do not need approx. west 2/3rds of road, hunting, range, fire protection	Native surfaced, proposed to shorten road, do not maintain, not much use for public
726	COLLINS	Collins road - off Bordeaux Road and runs west to north, Canada thistle @ east end along drainages. Moderate potential for weed seed dispersal from recreation vehicles and users.	Bordeaux Creek crossing on east end, siltation from cut to north running into crossing, hardwood draw in area and road crosses (400') flood plain, not 303 listed	Turkeys, whitetail and mule deer, east of bighorn Sheep MA, open parks	Road runs through homestead site, old well has been decommissioned	Rough road, timber management, range, hunting	Native surfaced, major creek crossing, min 7 drainage dips, needs crossing work for timber management
727	WINDMILL	Windmill road - begins at Little Wolf East @ Cliffs and runs south to Table Road, no easement at south end to access Table Road, runs up Little Bordeaux Creek (approx. 7 crossings), used to be county road, may convert to trail, Canada thistle and Houndstongue exist. High potential for weed seed dispersal from recreation vehicles and users.	Several (13) Bordeaux Creek crossing placing silt into creek	Turkey, whitetail deer, trout fishing and minnows in Bordeaux Creek, important elk calving area, road runs up woody draw with creek, wetland at headwaters, pygmy nuthatch	Road runs through homestead site on south end - possibly more in the area, PIT project on north end, Bison jump site	Mud bogging, mountain bike, ATV, hunting, range, timber management on south end, no access on south end across pvt. for public	Native surfaced, no public access on south, runs in creek bottom, cost to improve and get out of creek bottom would be large,

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Rd no.	Road Name	Ecosystem	Aquatic	Wildlife	Cultural/ Paleo	Human Use	Costs/ Benefits
728	CHASEK	Chasek road - begins on Windmill road and ends on Little Wolf East, Canada thistle on top. Moderate potential for weed seed dispersal from recreation vehicles and users.	North end of road drains into Bordeaux Creek, siltation occurring	Turkey, whitetail deer, elk calving area, pygmy nuthatch	Possible homestead site, old windmill/dugout, trash pile	Enduro, ATV, hunting, fire protection, timber management, range, no access on south end across pvt. for public	Native surfaced, no public access on south, road needs re-located on north end, needs drainage dips, hairy switchback
732	TIMBER	Timber road - begins on Table Road and ends on Deadhorse road, embedded in places, but mainly a ridge road, Canada thistle exists on upland next to road in places. Moderate potential for weed seed dispersal from recreation vehicles and users.	North end has wet/wetland areas impacting Deadhorse Creek as road runs thru, road is embedded in several area	Turkey, whitetail and mule deer, raptors, amphibians in wet areas at north end	Paleo concerns in butte rock, 6" pipe/survey marker	Enduro, ATV, hunting, range, timber management, hunting, range	Native surfaced, road is embedded in spots
734	SCOTT	Road thru John Stewart's ranch - begin on Table Road and run north and east, proposed to be abandoned, head cut pushes road onto pvt., may be section line road? Moderate potential for weed seed dispersal from recreation vehicles and users. Heavy infestation of Canada thistle on bordering Nebraska Game and Parks - Chadron Creek WMA.	Dry drainages (only problem when wet), where table drops off to north	Turkeys, whitetail and mule deer, grouse leks, woody draws	Homestead site with apple trees to north	Proposed to be abandoned - may convert to trail, walk-in hunting, ATV, no 4x4 access, fire protection, timber management	Native surfaced, constructed drainage dips to maintain, bladed by permittee, do not maintain

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Rd no.	Road Name	Ecosystem	Aquatic	Wildlife	Cultural/ Paleo	Human Use	Costs/ Benefits
736	DEAD MANS	Dead Man's road, may be Sioux Co. road based on testimony - waiting for survey, no known weeds. Low potential for weed seed dispersal from recreation vehicles and users.	East end near Dead Mans Creek no known problems	Turkeys, whitetail and mule deer, elk, possible prairie dogs west on pvt., isolated tract of land	None known	No grazing at present time, no public access at present time - working on getting access, hunting	Native surfaced, timber program bladed during project,
738	FURMAN	Furman road - road off 734 north of John Stewart's ranch, potential for weeds. Low potential for weed seed dispersal from recreation vehicles and users.	Road crossing flat area, no water	Turkeys, whitetail and mule deer, east of Bighorn Sheep MA,	None known, possible at windmill	Proposed to be abandoned, no public access at present time, hunting, fire protection, range, timber management	Native surfaced, do not maintain
906	MENG RESERVOIR	Meng Reservoir road - begins on Toadstool road to Meng Reservoir, side hill road, Canada thistle exists on dam area. Moderate potential for weed seed dispersal from recreation vehicles and users.	Some damage on dam, stop road at gate on north end of dam, bench type road across grassland	Mule deer, Pronghorned antelope, some fishing, waterfowl, shorebirds	None known	Range, hunting, fire protection, bird watching	Native surfaced, do not maintain

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Rd no.	Road Name	Ecosystem	Aquatic	Wildlife	Cultural/ Paleo	Human Use	Costs/ Benefits
908	AGATE RESERVOIR	Agate Reservoir road - begin off 922, crosses dam, and ties back into Hwy 2/71 to the east, access off Hwy 2/71 is not safe due to no constructed approach, Canada thistle exists along dam area. Moderate potential for weed seed dispersal from recreation vehicles and users.	2 drainage crossing that get very muddy and run silt towards lake, dam has damaged from road crossing, stop road before dam	Mule deer, Pronghorned antelope, fishing, waterfowl, shorebirds, grouse	None known	Range, hunting, fishing, rock hunting, bird watching	Native surfaced, do not maintain, 2 culverts
909	WOLF BUTTE	Wolf Butte road - begins off Snook road at east end to Hwy 2/71 on west, mostly a ridge road, no known weed problem. Low potential for weed seed dispersal from recreation vehicles and users.	Deep wet drainage on west end (blew out culverts), rest is mainly ridge road	Mule deer, Pronghorned antelope, grouse, swift fox, several woody draws, water point south of road on east end	Headstone on east end north of road, important cultural site at tower site - #25DW224	Range, hunting, fire protection, Wolf Butte radio tower site, some rock hunting	Native surfaced, do not maintain, good road
910	BOARDGATE RESERVOIR	Boardgate Reservoir - begins at 900 and runs to/across dam, end in parking flat before emergency spillway on east side of reservoir, Canada thistle exists. Moderate potential for weed seed dispersal from recreation vehicles and users.	Road drains downhill toward Boardgate Reservoir, some silt movement, stop road from crossing emergency spillway and dam at parking area	Mule deer, Pronghorned antelope, waterfowl, shorebirds, fishing	None known	Range, hunting, fishing, rock hunting, some fire protection	Native surfaced, do not maintain, good road

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Rd no.	Road Name	Ecosystem	Aquatic	Wildlife	Cultural/ Paleo	Human Use	Costs/ Benefits
911	SIOUX RESERVOIR	Sioux Reservoir - begins on Hwy 2/71 and runs NW to dam site, Canada thistle exists along dam. Moderate potential for weed seed dispersal from recreation vehicles and users.	No known problems	Mule deer, Pronghorned antelope, waterfowl, shorebirds, fishing	None known	Range, hunting, some fire protection, some rock hunting	Native surfaced, do not maintain, 1 cattleguard
913	ROCK BASS RESERVOIR	Rock Bass Reservoir, begins on Hwy 2/71 and runs east across dam to east grassland bdy., end road at emergency spillway on west end of dam, Canada thistle exists. Moderate potential for weed seed dispersal from recreation vehicles and users.	No known problems, stop road from crossing dam	Mule deer, Pronghorned antelope, waterfowl, shorebirds, fishing, raptor nesting	Big area east of dam - #25DW213	Range, hunting, fishing (in the future), some rock hunting, bird watching	Native surfaced, 1 cattleguard, 1 sign, do not maintain
916	INDIAN CREEK	Indian Creek road begins on Sioux Co. road (Indian Creek) and runs west to 917, no known weed problem. Low potential for weed seed dispersal from recreation vehicles and users.	Ridge top road, no known problems	Mule deer, Pronghorned antelope, waterfowl, shorebirds, fishing, BIG mule deer	None known, but may be old wagon trail to north	Range, hunting, fire protection	Native surfaced, do not maintain
917	PASTURE NO 1	Pasture No. 1 road - begins on Schnurr road and ends at Wyoming border, no know weed problem. Low potential for weed seed dispersal from recreation vehicles and users.	1 dry crossing on south end, mostly ridge road	Mule deer, Pronghorned antelope, waterfowl enclosure near creek, grouse	5 sites in area - #25SX313, 25SX312, 25SX311, 25SX310	Range, hunting, fire protection	Native surfaced, do not maintain

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Rd no.	Road Name	Ecosystem	Aquatic	Wildlife	Cultural/ Paleo	Human Use	Costs/ Benefits
918	CEDAR CANYON	Cedar Canyon road - begins off Orella Road and runs south to Sand Creek Road, check Row on north end, no known weed problem. Low potential for weed seed dispersal from recreation vehicles and users.	Some rutting and ponding in badlands areas, road is embedded in places on south end in timber	Mule deer, Pronghorned antelope	Road runs through Special Interest Area, lots of paleo; greater number of theft sites	Range, hunting, major illegal fossil collecting, dispersed camping, main access into a large block of land, NEEDS A LOT OF THOUGHT	Native surfaced, do not maintain
920	BADLANDS	Badlands road - begins on Toadstool Road and runs NE to grassland bdry., check to see about ending road near C1/4 of Section 22, Canada thistle at dams in area. Low potential for weed seed dispersal from recreation vehicles and users.	Road crosses flat area - no crossings, no known problems	Mule deer, Pronghorned antelope	1 site #25DW4; Buttes significant fossil/theft;skeet shooting	Range, hunting, fire protection, some rock hunting	Native surfaced, do not maintain, good access
922	AGATE	Agate road - begins on Hwy 2/71 in north and runs south to 900, no known weed problems. Low potential for weed seed dispersal from recreation vehicles and users.	Road crosses Long Branch Creek and has created a muddy mess, siltation, otherwise road crosses typical pasture land	Mule deer, Pronghorned antelope, swift fox, grouse	None known: fossil sites;evidence of theft	Range, hunting, fire protection, rock hunting	Native surfaced, 1 cattleguard, do not maintain
923	LONG BRANCH	Long Branch road - begins on 922 and runs west to grassland bdry., no known weed problem. Low potential for weed seed dispersal from recreation vehicles and users.	Ridge road - no known problems	Mule deer, Pronghorned antelope, swift fox, grouse, prairie dogs, burrowing owls	None known fossil sites; evidence of theft	Range, hunting, fire protection, rock hunting	Native surfaced, do not maintain

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Rd no.	Road Name	Ecosystem	Aquatic	Wildlife	Cultural/ Paleo	Human Use	Costs/ Benefits
924	CONKLIN	Conklin road - begins Hat Creek Road and runs south to grassland bdry., ridge road, no known weed problems. Low potential for weed seed dispersal from recreation vehicles and users.	Ridge road, no known problems	Mule deer, Pronghorned antelope, swift fox, grouse, eagles and other raptors	None known	Range, hunting, fire protection	Native surfaced, do not maintain
925	PRAIRIE DOG	Prairie Dog road - begins on Hat Creek Road and runs east to 924, no known weed problem. Low potential for weed seed dispersal from recreation vehicles and users.	Mostly ridge road except at dry drainage crossing near west end which becomes muddy when wet	Mule deer, Pronghorned antelope, swift fox, grouse, runs thru prairie dog town, badger	Homestead site close - #25SX183, old wells close to creek, big site on west end - #25SX69	Range, hunting, fire protection	Native surfaced, do not maintain
926	CEMETERY	Cemetery road - begins on Hat Creek Road and runs west to grassland bdry near C1/4 of section 32, 1st 1+ mile is on pvt land and may be public road to cemetery on section line, no known weed problem. Low potential for weed seed dispersal from recreation vehicles and users.	Open flat area, no known problems	Intense prairie dog management, bobcat, burrowing owl	Possible teepee rings, cemetery (location on FS or pvt.)	Sport hunting (prairie dog), range, fire protection, MAY NOT BE NEEDED	Native surfaced, do not maintain, very little public use

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Rd no.	Road Name	Ecosystem	Aquatic	Wildlife	Cultural/ Paleo	Human Use	Costs/ Benefits
927	ANTELOPE	Good road that begins on Montrose Road and runs NW to 929, crosses pvt. that allows access from east, Canada thistle exists. Moderate potential for weed seed dispersal from recreation vehicles and users.	Road crosses Antelope Creek (culvert), road going up out of Antelope Creek to north drains back into creek,	Mule deer, Pronghorned antelope, swift fox, grouse, big prairie dog town near on pvt.,	None known	Range, hunting, fire protection	Native surfaced, do not maintain, 1 culvert at Antelope Creek with siltation problem coming in from the north
929	MILLER	No access off Edgemont Road on west end of loop, Canada thistle on south loop. Moderate potential for weed seed dispersal from recreation vehicles and users.	North portion of road is mostly a ridge road, the southern portion runs thru a small riparian area - minimal impact	Pronghorned antelope, prairie dogs, burrowing owl, swift fox	Homestead site between road locations, not much impact	Range, some hunting, fire protection	Native surfaced, do not maintain, no access allowed on west end for public
930	STORY	Story road - begins off Edgemont Road and runs NW to South Dakota border, no known weed problem. Low potential for weed seed dispersal from recreation vehicles and users.	Ridge road, no known problems	Pronghorned antelope, swift fox, grouse, mule deer	None known	Range, hunting, fire protection	Native surfaced, do not maintain, no access allowed
931	HOPPER	Hopper road - begins on 917 and runs east to grassland bdry, no known weed problem. Low potential for weed seed dispersal from recreation vehicles and users.	Ridge road, no known problems	Pronghorned antelope, swift fox, grouse, mule deer	Site #25SX18 near middle point	Range, hunting, fire protection	Native surfaced, do not maintain

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Rd no.	Road Name	Ecosystem	Aquatic	Wildlife	Cultural/ Paleo	Human Use	Costs/ Benefits
932	UPPER INDIAN CREEK	Upper Indian Creek road - begins on 916 and runs west and south to 917, Canada thistle along creek. Low potential for weed seed dispersal from recreation vehicles and users.	Road runs near Indian Creek, some impact with siltation/rutting	Pronghorned antelope, swift fox, grouse, mule deer, possible raptor nesting, feral pigs	3 sites - #25SX309, 25SX17, and 25SX23	Range, hunting, fire protection	Native surfaced, do not maintain
803-A	BOOTS & SADDLE TRAILHEAD	Boots & Saddle Trailhead road - begins on 803 and runs south to Trailhead, aggregate surface, same as 803, potential for weeds from hay. Moderate potential for weed seed dispersal from horse feed, manure and recreation vehicles and users.	Road crosses a flat area, no known problems	Low impact, some fishing	Research site - building foundation, fort used area for target shooting	Provides dispersed camping	Native surfaced, do not maintain, may need aggregate to stabilize road going downhill to dispersed camping
804	NORTH FORK SOLDIER CREEK	North Fork Soldier Creek road - begin at 803 and run NW toward the old officers club area. Canada thistle and leafy spurge exists on drainage next to creek. Moderate potential for weed seed dispersal from horse manure and recreation vehicles and users.	Road drops down into grasses dispersed area, rutted with some silt movement, within 50 ft. of the Middle Fork Soldier creek	Turkeys, whitetail and mule deer, elk, Bighorn Sheep, trout fishing	Officer's Quarters at north end, sites #25SX461 and 25SX464	Range, hunting, hiking, dirt biking	Native surfaced, do not maintain, more like a trail than a road, Admin. use only

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Rd no.	Road Name	Ecosystem	Aquatic	Wildlife	Cultural/ Paleo	Human Use	Costs/ Benefits
760	ROCK CANYON	Easement only for a road that ran thru FS lands that were exchanged out - across the road west of Squaw Mound, easement kept for mineral rights, no known weed problems. Low potential for weed seed dispersal from recreation vehicles and users.	Easement only, no known problems but nobody has checked road in several years	Easement only, turkeys, whitetail and mule deer, elk, No Hunting (FS retained jurisdiction of this road because of the mineral rights they retained on the land that they traded.)	1 site next to road #25DW23	Easement only - FS kept mineral rights	Aggregate surface at one time, do not maintain, FS has easement only
Oglala Non-System Roads							
12000	#N/A	Good road, stable, up on top. Low potential for weed seed dispersal from recreation vehicles and users.	Good road, stable, up on top	Mule deer, pronghorn, and a good woody draw nearby	Road expected to have a moderate effect on Cultural Resources and Paleo is present. Paleo sites; Chamberlain Pass Fm	recreation access	Native surface, do not maintain
12001	#N/A	Up on top, good road, stable. Low potential for weed seed dispersal from recreation vehicles and users.	Up on top, good road, stable	Mule deer, pronghorn, and a good woody draw nearby	The road is expected to have a moderate impact on Cultural Resources, and there are no known Paleo sites present.	recreation access	Native surface, do not maintain
71.1	#N/A	Good for agate collection, upland. Low potential for weed seed dispersal from recreation vehicles and users.	Good for agate collection, upland	Pronghorned antelope, swift fox, sharp-tailed grouse, long-billed curlew	The road is expected to have a moderate impact on Cultural Resources, and there are no known Paleo sites present.	recreation access, some cultural present, rock hunting, can be used as walk-in hunting	Native surface, do not maintain, rocky in spots
71.2	#N/A	Agate collection area. Low potential for weed seed dispersal from recreation vehicles and users.	The road appears to be upland, but may taper down to a creek on its west end.	Mule deer, Pronghorned antelope, sharp-tailed grouse, swift fox	The road is expected to have a moderate impact on Cultural Resources, and there are no known Paleo sites present.	recreation access	Native surface, do not maintain

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Rd no.	Road Name	Ecosystem	Aquatic	Wildlife	Cultural/ Paleo	Human Use	Costs/ Benefits
900.1	#N/A	Upland, continues down to creek, near agate area, the road currently tends to disappear on the ground about 1/2 mile before it is slatted to end and currently is shown going through an ungated fence. We should consider cutting the road shorter than what it is currently proposed or rerouting the road. Low potential for weed seed dispersal from recreation vehicles and users.	Upland, continues down to creek, near agate area, the road currently tends to disappear on the ground about 1/2 mile before it is slatted to end and currently is shown going through an ungated fence. We should consider cutting the road shorter than what it is currently proposed or rerouting the road.	Pronghorned antelope, mule deer, some grouse, snakes, swift fox	The road is expected to have a moderate impact on Cultural Resources, and there are no known Paleo sites present.	recreation access	Native surface, do not maintain, rocky in spots
900.2	#N/A	Stable road, will hit draw bottom if continue down, goes to prairie dog town, agate collecting. Low potential for weed seed dispersal from recreation vehicles and users.	Stable road, will hit draw bottom if continue down	Pronghorned antelope, mule deer, some grouse, prairie dog town, snakes, swift fox, burrowing owls, maybe mountain plover, raptors, coyotes	The road is expected to have a moderate impact on Cultural Resources, and there are no known Paleo sites present.	recreation access	Native surface, do not maintain, rocky in spots
900.3	#N/A	Dips and dives (low spots), agate collecting, prairie dogs	Dips and dives (low spots)	Pronghorned antelope, mule deer, some grouse, snakes, swift fox	The road is expected to have a moderate impact on Cultural Resources, and there are no known Paleo sites present.	recreation access	Native surface, do not maintain, rocky in spots

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Rd no.	Road Name	Ecosystem	Aquatic	Wildlife	Cultural/ Paleo	Human Use	Costs/ Benefits
902.1	#N/A	Driveway to private home; all high, dry ground, no erosion. Low potential for weed seed dispersal from recreation vehicles and users.	Driveway to private home; all high, dry ground	Pronghorned antelope, mule deer, some grouse, snakes, swift fox	The road is expected to have a high impact on Cultural Resources, and there are no known Paleo sites present.	Not used much by public, Most of use is nearby pvt.	Native surface, do not maintain, private drive
904.1	#N/A	Along fence, below hill, middle of pasture, riparian area on very north end, lots of hunting use. Low potential for weed seed dispersal from recreation vehicles and users.	Along fence, below hill, riparian area on very north end	Turkeys, mule and whitetail deer, elk	The road is expected to have a moderate impact on Cultural Resources, and there are no known Paleo sites present.	Primarily used during hunting season.	Native surface, do not maintain
904.2	#N/A	Goes to campsite, not good road, erodes down into draw, used heavily during hunting season. Low potential for weed seed dispersal from recreation vehicles and users.	Goes to campsite, not good road, erodes down into draw	Turkeys, mule and whitetail deer, elk	The road is expected to have a low impact on Cultural Resources, but there are Paleo sites present in the area. fossil sites	Primarily used during hunting season.	Native surface, do not maintain
905.1	#N/A	Uphill to private land, sandy soils, rutted, runs along edge of trees, lots of dispersed camping and visitor use, cultural items in area. Moderate potential for weed seed dispersal from recreation vehicles and users.	Uphill to private land, sandy soils, rutted, runs along edge of trees	Mule and whitetail deer, elk, pygmy nuthatch, turkeys, sharp-tailed grouse, near an elk calving area	The road is expected to have a low impact on Cultural Resources, and there are no known Paleo sites present.	Primarily used during hunting season. Occasional OHV use.	Native surface, limited maintenance

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Rd no.	Road Name	Ecosystem	Aquatic	Wildlife	Cultural/ Paleo	Human Use	Costs/ Benefits
905.1A	#N/A	Uphill to private land, sandy soils, rutted, runs along edge of trees, lots of dispersed camping and visitor use, cultural items in area. Moderate potential for weed seed dispersal from recreation vehicles and users.	Same as 905.1	Mule and whitetail deer, elk, pygmy nuthatch, turkeys, sharp-tailed grouse, near an elk calving area	The road is expected to have a moderate impact on Cultural Resources, and there are no known Paleo sites present.	Used for camping during big game hunting seasons.	Native surface, do not maintain
905.2	#N/A	On north side of beaver dams, access to private property, main access for ATV riders, permittee access to well. Low potential for weed seed dispersal from recreation vehicles and users.	On north side of beaver dams, access to private property, main access for ATV riders	Mule and whitetail deer, elk, pygmy nuthatch, turkeys, near an elk calving area	The road is expected to have a moderate impact on Cultural Resources, and there are no known Paleo sites present.	Primarily used during hunting season. Occasional ohv use.	Native surface, do not maintain
905.2A	#N/A	Goes into beaver dams, pretty good road, road receives lots of use, sandy soil. Low potential for weed seed dispersal from recreation vehicles and users.	Goes into beaver dams, pretty good road, road receives lots of use, sandy soil	Mule and whitetail deer, elk, pygmy nuthatch, turkeys, near an elk calving area	The road is expected to have a high impact on Cultural Resources, and there are no known Paleo sites present.	Access to pvt. And ponds. Most of public use is during hunting seasons.	Native surface, do not maintain, private drive
905.3	#N/A	Access to dispersed campsite, mainly used during hunting season, does not cross stream, within 200 yards of beaver dams. Low potential for weed seed dispersal from recreation vehicles and users.	Access to dispersed campsite, mainly used during hunting season, does not cross stream, within 200 yards of beaver dams	Mule and whitetail deer, elk, pygmy nuthatch, turkeys, possibly bighorn sheep, near an elk calving area	The road is expected to have a moderate impact on Cultural Resources, and there are no known Paleo sites present.	Dispersed campsite used during deer season. Hunting access.	Native surface, do not maintain

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Rd no.	Road Name	Ecosystem	Aquatic	Wildlife	Cultural/ Paleo	Human Use	Costs/ Benefits
905.4	#N/A	Access to Harwood's field, all upland, sandy. Low potential for weed seed dispersal from recreation vehicles and users.	Access to Harwood's field, all upland, sandy	Pronghorned antelope, mule deer, sharp-tailed grouse, snakes, swift fox	The road is expected to have a high impact on Cultural Resources, and there are no known Paleo sites present.	Used by permittee and hunters.	Native surface, do not maintain, limited use
905.4A	#N/A	Access to Harwood's field, all upland, sandy. Low potential for weed seed dispersal from recreation vehicles and users.	Same as 905.4	Pronghorned antelope, mule deer, sharp-tailed grouse, snakes, swift fox	The road is expected to have a moderate impact on Cultural Resources, and there are no known Paleo sites present.	Used by permittees and hunters	Native surface, do not maintain
905.6	#N/A	Goes past windmill and tank and down the hill, main access to Sand Creek without using railroad crossing, on contour of slope, not too bad except when wet. Low potential for weed seed dispersal from recreation vehicles and users.	Goes past windmill and tank and down the hill, main access to Sand Creek without using railroad crossing, on contour of slope, not too bad except when wet	Pronghorned antelope, mule deer, sharp-tailed grouse, snakes, swift fox	The road is expected to have a moderate impact on Cultural Resources, and there are Paleo sites present in the area. Paleo sites; access to FS and private land; theft sites recorded in area.	Used by permittees and pronghorn hunters.	Native surface, do not maintain
906.1	#N/A	Nice loop, north of dam, upland, some agate hunting in area. Low potential for weed seed dispersal from recreation vehicles and users.	Nice loop, north of dam, upland	Pronghorned antelope, swift fox, sharp-tailed grouse, mule deer, potential site for waterfowl when Meng Reservoir has water	The road is expected to have a moderate impact on Cultural Resources, and there are no known Paleo sites present.	Recreation access	Native surface, do not maintain, rutted in spots

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Rd no.	Road Name	Ecosystem	Aquatic	Wildlife	Cultural/ Paleo	Human Use	Costs/ Benefits
907.1	#N/A	Goes through prairie dog town, parallels creek, draws on every side, fairly high use. Moderate potential for weed seed dispersal from recreation vehicles and users.	Parallels creek, draws on every side, fairly high use	Pronghorn antelope, swift fox, sharp-tailed grouse, mule deer, burrowing owls, golden eagles, a greater sage grouse was reported in this area (not confirmed)	The road is expected to have a moderate impact on Cultural Resources, and there are no known Paleo sites present.	Prairie dog and pronghorn hunters.	Native surface, do not maintain
907.2	#N/A	Low potential for weed seed dispersal from recreation vehicles and users. Road leads to a homestead site and loops to the south near badlands area. Fairly stable road.	The road parallels a couple of draws, and it crosses a draw in one location. I'm not sure if it contains water year round or even seasonally.	Pronghorn, mule deer, swift fox, sharp-tailed grouse, prairie dogs, burrowing owls, golden eagles, potential habitat for Barr's milkvetch, and Dakota buckwheat	The road is expected to have a moderate impact on Cultural Resources, and there are no known Paleo sites present.	Used by permittees, recreation access, some prairie dog shooting and hunter access	Native surface, do not maintain,
907.2A	#N/A	Goes to pond and homestead site, prairie dog town, antelope in area, road stays on bend until it reaches homestead site. Low potential for weed seed dispersal from recreation vehicles and users.	Goes to pond and homestead site	Pronghorn antelope, swift fox, sharp-tailed grouse, mule deer, prairie dog town, burrowing owls, golden eagles	The road is expected to have a moderate impact on Cultural Resources, and there are no known Paleo sites present.	Recreation access	Native surface, do not maintain

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Rd no.	Road Name	Ecosystem	Aquatic	Wildlife	Cultural/ Paleo	Human Use	Costs/ Benefits
909.1	#N/A	Agates in area, good stable road, curlew area. This road also goes right through an archy site and we should consider using an alternate road in order to access this part of the Grasslands. There are currently a couple of 2-tracks in the area that would be better suited as part of the travel system without the archy issues. Low potential for weed seed dispersal from recreation vehicles and users.	Good stable road.	Mule deer, Pronghorned antelope, sharp-tailed grouse, swift fox, long-billed curlew	The road is expected to have a moderate impact on Cultural Resources, and there are no known Paleo sites present.	Recreation access	Native surface, do not maintain, sensitive resources
909.2	#N/A	Crosses drainage, grouse leks in area. Low potential for weed seed dispersal from recreation vehicles and users.	Crosses drainage	Mule deer, Pronghorned antelope, sharp-tailed grouse leks in the area, swift fox, long-billed curlew	The road is expected to have a moderate impact on Cultural Resources, and there are no known Paleo sites present.	Primarily used by hunters for access.	Native surface, do not maintain, good road
909.2A	#N/A	Goes to a couple of tanks, upland. Low potential for weed seed dispersal from recreation vehicles and users.	Goes to a couple of tanks, upland	Mule deer, Pronghorned antelope, sharp-tailed grouse, swift fox, long-billed curlew	The road is expected to have a moderate impact on Cultural Resources, and there are no known Paleo sites present.	Primarily used by hunters for access.	Native surface, do not maintain
909.3	#N/A	Huge cultural area, high country, high use by hunters. Low potential for weed seed dispersal from recreation vehicles and users.	High country	Mule deer, Pronghorned antelope, sharp-tailed grouse, swift fox	The road is expected to have a low impact on Cultural Resources, and there are no known Paleo sites present.	Recreation access.	Native surface, do not maintain

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Rd no.	Road Name	Ecosystem	Aquatic	Wildlife	Cultural/ Paleo	Human Use	Costs/ Benefits
909.4	#N/A	Nice upland road, agate hunters use it. Low potential for weed seed dispersal from recreation vehicles and users.	Nice upland road	Mule deer, Pronghorned antelope, sharp-tailed grouse, swift fox	The road is expected to have a moderate impact on Cultural Resources, and there are no known Paleo sites present.	Recreation access.	Native surface, do not maintain
909.5	#N/A	Mostly upland. Low potential for weed seed dispersal from recreation vehicles and users.	Mostly upland	Mule deer, Pronghorned antelope, sharp-tailed grouse, swift fox	The road is expected to have a moderate impact on Cultural Resources, and there are no known Paleo sites present.	Recreation access.	Native surface, do not maintain, crosses creek
912.1	#N/A	Road goes up draw to windmill, dispersed campsite, hunters use it. Low potential for weed seed dispersal from recreation vehicles and users.	Road goes up draw to windmill	Mule deer, pronghorn, and a good woody draw nearby	The road is expected to have a high impact on Cultural Resources, and there are no known Paleo sites present.	Recreation access	Native surface, do not maintain
913.1	#N/A	Alternate play area, badlands, marshy. Moderate potential for weed seed dispersal from recreation vehicles and users.	Alternate play area, badlands, marshy	Mule deer, Pronghorned antelope, sharp-tailed grouse, possibly swift fox	The road is expected to have a moderate impact on Cultural Resources, and there are Paleo sites present in the area. fossil sites	Access to Rock Bass area. No fish in Res, Some recreation use.	Native surface, limited maintenance
913.2	#N/A	Same as 913.1	Same as 913.1	Mule deer, Pronghorned antelope, sharp-tailed grouse, possibly swift fox	The road is expected to have a high impact on Cultural Resources, and there are no known Paleo sites present.	Not used much by public,	Native surface, no not maintain
914.1	#N/A	Trailhead, parking area. Moderate potential for weed seed dispersal from recreation vehicles and users.	Trailhead, parking area. This area is not that large and would will stop prior to entering any drainages.	Pronghorned antelope, swift fox, sharp-tailed grouse, mule deer, burrowing owls, golden eagles, a greater sage grouse was reported in this area (not confirmed)	The road is expected to have a high impact on Cultural Resources, and there are no known Paleo sites present.	Recreation access and parking for War Bonnet	Native surface, limited maintenance sensitive resource

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Rd no.	Road Name	Ecosystem	Aquatic	Wildlife	Cultural/ Paleo	Human Use	Costs/ Benefits
914.2	#N/A	Low potential for weed seed dispersal from recreation vehicles and users. Fairly stable road.	The road appears to be mainly upland, but does come near a couple of drainages.	Pronghorn, swift fox, mule deer, burrowing owls, and there are prairie dogs nearby	The road is expected to have a moderate impact on Cultural Resources, and there are no known Paleo sites present.	Occasional use by hunters.	Native surface, do not maintain,
914.3	#N/A	Crosses creek—bad when creek is high; goes to back of reservoir; used by hunters; antelope, grouse and tanks in area. Low potential for weed seed dispersal from recreation vehicles and users.	Crosses creek—bad when creek is high; goes to back of reservoir; used by hunters; antelope, grouse and tanks in area	Pronghorned antelope, swift fox, sharp-tailed grouse, mule deer, prairie dog town, burrowing owls, golden eagles, a greater sage grouse was reported in this area (not confirmed)	The road is expected to have a moderate impact on Cultural Resources, and there are no known Paleo sites present.	Recreation access.	Native surface, limited maintenance, crosses creek
915.1	#N/A	Road goes to pond and through couple of draws, used by hunters. Low potential for weed seed dispersal from recreation vehicles and users.	Road goes to pond and through couple of draws	Pronghorned antelope, swift fox, mule deer	The road is expected to have a high impact on Cultural Resources, and there are no known Paleo sites present.	Recreation access.	Native surface, do not maintain
918.1	#N/A	Bad, erosive road with low use. Low potential for weed seed dispersal from recreation vehicles and users.	Bad, erosive road with low use	Pronghorned antelope, mule deer, some grouse, prairie dog town, snakes, swift fox, burrowing owls, the area also contains potential habitat for Barr's milkvetch and Dakota buckwheat	The road is expected to have a high impact on Cultural Resources, and there are Paleo sites present in the area. Provides access to the Toadstool SIA, theft sites documented	Recreation access	Native surface, do not maintain, sensitive resources

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Rd no.	Road Name	Ecosystem	Aquatic	Wildlife	Cultural/ Paleo	Human Use	Costs/ Benefits
920.1	#N/A	Pretty good road, road on top of bench, partly grown over on east/west portion, lots of antelope in area, good cut across from highway. Low potential for weed seed dispersal from recreation vehicles and users.	Pretty good road, road on top of bench, partly grown over on east/west portion	Mule deer, lots of Pronghorned antelope, sharp-tailed grouse, swift fox, a woody draw to the south on private land	The road is expected to have a moderate impact on Cultural Resources, and there are Paleo sites present in the area. between 920 and 920.1 there are 3 graves	Recreation access	Native surface, do not maintain, stays out of riparian,
922.1	#N/A	High and dry—mostly upland, goes to dispersed site and agate area. Low potential for weed seed dispersal from recreation vehicles and users.	High and dry—mostly upland	Mule deer, Pronghorned antelope, swift fox, sharp-tailed grouse, the road heads to a riparian area	The road is expected to have a moderate impact on Cultural Resources, and there are Paleo sites present in the area. fossil sites	Access to agates.	Native surface, do not maintain
924.1	#N/A	Goes nowhere, use by hunters and agate collectors. Low potential for weed seed dispersal from recreation vehicles and users.	Goes nowhere, but appears to cross one drainage and may affect a second one. The road probably doesn't have a lot of effects on aquatics.	Pronghorned antelope, swift fox, sharp-tailed grouse, mule deer, burrowing owls	The road is expected to have a moderate impact on Cultural Resources, and there are no known Paleo sites present.	Recreation access.	Native surface, do not maintain,

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Rd no.	Road Name	Ecosystem	Aquatic	Wildlife	Cultural/ Paleo	Human Use	Costs/ Benefits
925.1	#N/A	Moderate potential for weed seed dispersal from recreation vehicles and users. Road goes through prairie dog town that has a lot of bare ground and invasive species such as broom snake weed, common mullein, cheatgrass, and others. Good potential for spreading these species and establishing noxious weeds.	There appears to be 6 drainage crossings some of which may contain water at least seasonally	Burrowing owls, prairie dogs, various raptors including eagles and hawks, pronghorn, mule deer, potential mountain plover habitat, swift fox, badgers, rattle snakes	The road is expected to have a moderate impact on Cultural Resources, and there are no known Paleo sites present.	Prairie dog shooting and hunting access (coyotes, deer, pronghorn, etc), used by permittee, and some recreational access.	Native surface, do not maintain,
930.1	#N/A	Road goes to pond and then on to private land, can barely see road, crosses a couple of dry draws, very low use. Low potential for weed seed dispersal from recreation vehicles and users.	Road goes to pond and then on to private land, can barely see road, crosses a couple of dry draws, very low use	Pronghorned antelope, swift fox, mule deer, long-billed curlew	The road is expected to have a moderate impact on Cultural Resources, and there are no known Paleo sites present.	Rarely used. Hunters use for access.	Native surface, do not maintain, limited use

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Rd no.	Road Name	Ecosystem	Aquatic	Wildlife	Cultural/ Paleo	Human Use	Costs/ Benefits
931.1	#N/A	Road at head of draws, heavy use during hunting season, mule deer area. This road is also heavily rutted and there is some serious water erosion going on in at least one location that should be addressed. Moderate potential for weed seed dispersal from recreation vehicles and users.	Road at head of draws, heavy use during hunting season, mule deer area. This road is also heavily rutted and there is some serious water erosion going on in at least one location that should be addressed.	Pronghorned antelope, swift fox, sharp-tailed grouse, mule deer, burrowing owls	The road is expected to have a moderate impact on Cultural Resources, and there are no known Paleo sites present.	Primarily used by hunters for access.	Native surface, do not maintain,
931.2	#N/A	Could make a good road on high ground, but currently it is barely even visible (if at all) on the ground. Most traffic on this road comes during the big game hunting seasons. Low potential for weed seed dispersal from recreation vehicles and users.	Could make a good road on high ground, but currently it is barely even visible (if at all) on the ground. Most traffic on this road comes during the big game hunting seasons.	Pronghorned antelope, swift fox, sharp-tailed grouse, mule deer, long-billed curlew	The road is expected to have a moderate impact on Cultural Resources, and there are no known Paleo sites present.	Occasional use by hunters.	Native surface, do not maintain
931.3	#N/A	Goes through a few dry draws, good road. Low potential for weed seed dispersal from recreation vehicles and users.	Goes through a few dry draws, good road	Pronghorned antelope, swift fox, sharp-tailed grouse, mule deer, long-billed curlew	The road is expected to have a moderate impact on Cultural Resources, and there are no known Paleo sites present.	Primarily used by hunters for access.	Native surface, do not maintain

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Rd no.	Road Name	Ecosystem	Aquatic	Wildlife	Cultural/ Paleo	Human Use	Costs/ Benefits
932.1_seg1	#N/A	Contributes silt, on top of creek, Ft. Laramie to Deadwood Trail, lots of hunting use. Low potential for weed seed dispersal from recreation vehicles and users.	One bad crossing, contributes silt, on top of creek, lots of hunting use	Pronghorned antelope, swift fox, sharp-tailed grouse, mule deer, long-billed curlew	The road is expected to have a high impact on Cultural Resources, and there are no known Paleo sites present.	Primarily used by hunters for access.	Native surface, do not maintain, goes to historical marker, crosses creek
932.1_seg2	#N/A	Historic 3-corner monument, used by hunters. Low potential for weed seed dispersal from recreation vehicles and users.	Road segment is mainly upland	Pronghorned antelope, swift fox, sharp-tailed grouse, mule deer, long-billed curlew	The road is expected to have a moderate impact on Cultural Resources, and there are no known Paleo sites present.	Occasional use by recreationists.	Native surface, do not maintain, goes to historical marker.
932.1A	#N/A	Crosses creek, prime deer hunting. Low potential for weed seed dispersal from recreation vehicles and users.	Crosses creek	Pronghorned antelope, swift fox, sharp-tailed grouse, mule deer, prime deer hunting	The road is expected to have a moderate impact on Cultural Resources, and there are no known Paleo sites present.	Primarily used for hunting access.	Native surface, do not maintain, crosses creek
934.1	#N/A	Goes to tank, swift fox area, lek in area which may be inactive. Low potential for weed seed dispersal from recreation vehicles and users.	Goes to tank, the road is mainly upland	Pronghorned antelope, swift fox, sharp-tailed grouse, mule deer, long-billed curlew	The road is expected to have a low impact on Cultural Resources, and there are no known Paleo sites present.	Recreation access.	Native surface, do not maintain
Pine Ridge Non-System Roads							
761	#N/A	SUP to private land, they maintain. Low potential for weed seed dispersal from recreation vehicles and users.	SUP to private land, they maintain, road appears to be upland	Turkey, pygmy nuthatch, whitetail and mule deer, Bighorn Sheep, elk	The road is expected to have a low impact on Cultural Resources, and there are no known Paleo sites present.	mostly pvt. use.	Native surface, do not maintain, private drive

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Rd no.	Road Name	Ecosystem	Aquatic	Wildlife	Cultural/ Paleo	Human Use	Costs/ Benefits
761A	#N/A	SUP road to private land, they maintain. Low potential for weed seed dispersal from recreation vehicles and users.	SUP road to private land, they maintain, road appears to be upland	Turkey, pygmy nuthatch, whitetail and mule deer, Bighorn Sheep, elk	The road is expected to have a low impact on Cultural Resources, and there are no known Paleo sites present.	mostly pvt. use.	Native surface, do not maintain, private drive
12002	#N/A	SUP road. Low potential for weed seed dispersal from recreation vehicles and users.	SUP road, it parallels a woody draw, but is upland	Turkeys, pygmy nuthatch, whitetail and mule deer, elk, bighorn sheep	The road is expected to have a moderate impact on Cultural Resources, and there are no known Paleo sites present.	mostly pvt. use.	Native surface, do not maintain, private drive
12003	#N/A	Goes to Broken Plow, they maintain. Low potential for weed seed dispersal from recreation vehicles and users.	Goes to Broken Plow, they maintain, is near Chadron Creek, and passes directly by and over some spring areas. There is a culvert by the main spring area.	Turkeys, whitetail and mule deer, songbirds, elk, mountain lion, Bighorn Sheep, pygmy nuthatch	The road is expected to have a low impact on Cultural Resources, and there are no known Paleo sites present.	mostly pvt. use.	Native surface, do not maintain, private drive
12004	#N/A	Lots of wildlife in area, some use during hunting season, used by horseback riders, McCance driveway. Low potential for weed seed dispersal from recreation vehicles and users.	There are seven creek crossing on this road withing the span of about 1/2 mile, McCance driveway	There are seven creek crossing on this road withing the span of about 1/2 mile. Lots of wildlife in area, species in the area include turkeys, pygmy nuthatch, whitetail and mule deer, elk bighorn sheep, and various species of reptiles, amphibians and minnows.	The road is expected to have a low impact on Cultural Resources, and there are no known Paleo sites present.	Hunting access and to pvt. Residence.	Native surface, do not maintain, private drive

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Rd no.	Road Name	Ecosystem	Aquatic	Wildlife	Cultural/ Paleo	Human Use	Costs/ Benefits
22000	#N/A	Erosive soils, steep slopes, rutting, a lot of use, used by target shooters and by hunters	Erosive soils, steep slopes, rutting, a lot of use	Turkeys, pygmy nuthatch, whitetail and mule deer, elk, bighorn sheep, sharp-tailed grouse habitat, the road is located in a Bighorn Sheep management area	The road is expected to have a moderate impact on Cultural Resources, and there are no known Paleo sites present.	Used by target shooters and hunting access.	Native surface, do not maintain,
385.1	#N/A	Used by hunters, goes from highway to WMA, huge patch of Canada thistle next to road. Moderate potential for weed seed dispersal from recreation vehicles and users.	Mainly upland	Turkeys, pygmy nuthatch, whitetail and mule deer, elk, mountain lions	The road is expected to have a moderate impact on Cultural Resources, and there are no known Paleo sites present.	Hunter parking off of highway.	Native surface, do not maintain
701.1	#N/A	Potential SUP road for Jerry Berry to have access to his land, the road is upland, and all other comments would be similar to 701. Low potential for weed seed dispersal from recreation vehicles and users.	The road is upland, and runs across an open meadow	Turkeys, whitetail and mule deer, songbirds, elk, mountain lion, Bighorn Sheep, grouse habitat, pygmy nuthatch	The road is expected to have a moderate impact on Cultural Resources, and there are no known Paleo sites present.	Some hunter access. Mostly used by Jerry Berry to access his property.	Native surface, do not maintain
702.1_seg1	#N/A	Road goes to windmill, terrible road, road goes straight up and contributes silt and sediment to Trunk Butte Creek, it is ok on top, popular road. Moderate potential for weed seed dispersal from recreation vehicles and users.	Road goes to windmill, terrible road, road goes straight up and contributes silt and sediment to Trunk Butte Creek, it is ok on top, popular road	Turkeys, pygmy nuthatch, whitetail and mule deer, elk, mountain lion, grouse, songbirds, bighorn sheep	The road is expected to have a low impact on Cultural Resources, and there are no known Paleo sites present.	Access to dispersed camping and used for hunting access.	Native surface, do not maintain, first hill in poor condition

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Rd no.	Road Name	Ecosystem	Aquatic	Wildlife	Cultural/ Paleo	Human Use	Costs/ Benefits
702.1_seg2	#N/A	Road goes to dispersed site, steep slope. Low potential for weed seed dispersal from recreation vehicles and users.	Road goes to dispersed site, steep slope	Turkeys, pygmy nuthatch, whitetail and mule deer, elk, mountain lion, grouse, songbirds, bighorn sheep	The road is expected to have a low impact on Cultural Resources, and there are no known Paleo sites present.	Dispersed camping site, occasional use.	Native surface, do not maintain, goes to dispersed site and windmill
702.2	#N/A	Road goes to Turkey Track Springs, crosses creek at least three times, it gets a lot of use by ATVs and hunters. Road contributes significant silt and sediment loads to the creek. Moderate potential for weed seed dispersal from recreation vehicles and users.	Road goes to Turkey Track Springs, crosses creek at least three times, it gets a lot of use by ATVs and hunters	Turkeys, pygmy nuthatch, whitetail and mule deer, elk, mountain lion, grouse, songbirds, minnows in Turkey Track creek	The road is expected to have a low impact on Cultural Resources, and there are no known Paleo sites present.	Access to dispersed campsite used occasionally. Hunter access.	Native surface, do not maintain,
702.5	#N/A	Goes out on flat in open pasture. Low potential for weed seed dispersal from recreation vehicles and users.	Goes out on flat in open pasture, the road is upland	Turkeys, pygmy nuthatch, whitetail and mule deer, elk, mountain lion, grouse, songbirds	The road is expected to have a low impact on Cultural Resources, and there are no known Paleo sites present.	Occasional use by road hunters.	Native surface, do not maintain,
704.1	#N/A	Spur to west ash picnic ground, on creek, contributes to ecosystem effects, weeds there that could be transported. Moderate potential for weed seed dispersal from recreation vehicles and users.	Spur to west ash picnic ground, on creek, contributes to ecosystem effects	Turkeys, pygmy nuthatch, whitetail and mule deer, elk bighorn sheep, and various species of reptiles and amphibians	The road is expected to have a moderate impact on Cultural Resources, and there are no known Paleo sites present.	Used for camping and picnicing.	Native surface, do not maintain

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Rd no.	Road Name	Ecosystem	Aquatic	Wildlife	Cultural/ Paleo	Human Use	Costs/ Benefits
706.1	#N/A	Spur from east ash, on top of ridge, south of switchbacks. Low potential for weed seed dispersal from recreation vehicles and users.	Spur from east ash, on top of ridge, south of switchbacks	Turkeys, pygmy nuthatch, whitetail and mule deer, elk, bighorn sheep	The road is expected to have a high impact on Cultural Resources, and there are no known Paleo sites present.	Used for camping and parking for hunting.	Native surface, do not maintain
706.2	#N/A	Spur from west from east ash to Pine Ridge Trail, no concerns on camping, parking, popular area. Low potential for weed seed dispersal from recreation vehicles and users.	Spur west from east ash road to Pine Ridge Trail, popular area, spur lie right next to the creek	Turkeys, pygmy nuthatch, whitetail and mule deer, elk, bighorn sheep	The road is expected to have a low impact on Cultural Resources, and there are no known Paleo sites present.	Camping area primarily during hunting seasons. Parking for hunting.	Native surface, do not maintain
706.2A	#N/A	No concerns as long as they don't leave road. Low potential for weed seed dispersal from recreation vehicles and users.	No concerns as long as they don't leave road, but there is a creek nearby	Turkeys, pygmy nuthatch, whitetail and mule deer, elk, bighorn sheep	The road is expected to have a low impact on Cultural Resources, and there are no known Paleo sites present.	Camping primarily during deer season.	Native surface, do not maintain
706.3	#N/A	No major concerns, scotch thistle, open flat in draw bottom. Low potential for weed seed dispersal from recreation vehicles and users.	Open flat in draw bottom	Turkeys, pygmy nuthatch, whitetail and mule deer, elk, bighorn sheep	The road is expected to have a moderate impact on Cultural Resources, and there are no known Paleo sites present.	Camping primarily during deer season.	Native surface, do not maintain
706.4_seg1	#N/A	Steep and very rutted off of east ash-drain into creek, goes to private land. Low potential for weed seed dispersal from recreation vehicles and users.	Steep and rutted off of east ash, goes to private land	Turkeys, pygmy nuthatch, whitetail and mule deer, elk, bighorn sheep	The road is expected to have a high impact on Cultural Resources, and there are no known Paleo sites present.	Access for hunters	Native surface, do not maintain

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Rd no.	Road Name	Ecosystem	Aquatic	Wildlife	Cultural/ Paleo	Human Use	Costs/ Benefits
706.4_seg2	#N/A	May cross private, goes to dispersed site. Low potential for weed seed dispersal from recreation vehicles and users.	May cross private, goes to dispersed site. The road parallels a couple of drainages and the dispersed camp site may be near a third drainage.	Turkeys, pygmy nuthatch, whitetail and mule deer, elk, bighorn sheep	The road is expected to have a moderate impact on Cultural Resources, and there are no known Paleo sites present.	Campsite access not used very often. Hunting access.	Native surface, do not maintain
706.5	#N/A	Road does not show up well. Low potential for weed seed dispersal from recreation vehicles and users.	Road does not show up well, is mainly upland, and leads to a dispersed camp site	Turkeys, pygmy nuthatch, whitetail and mule deer, elk, bighorn sheep	The road is expected to have a moderate impact on Cultural Resources, and there are no known Paleo sites present.	Recreation access not used very often.	Native surface, do not maintain
706.6	#N/A	Access to dispersed campsite west of east ash. Low potential for weed seed dispersal from recreation vehicles and users.	Access to dispersed campsite west of east ash, road is upland	Turkeys, pygmy nuthatch, whitetail and mule deer, elk, bighorn sheep	The road is expected to have a low impact on Cultural Resources, and there are no known Paleo sites present.	Dispersed site used during deer season.	Native surface, do not maintain
711.1	#N/A	Parking lot loop for trailhead, in good shape but a little low on gravel, vandalism on sign in area. Low potential for weed seed dispersal from recreation vehicles and users.	In good shape but a little low on gravel, this is an upland short loop parking area near the old Spottedtail Campground	Turkey, pygmy nuthatch, whitetail and mule deer, Bighorn Sheep, elk	The road is expected to have a high impact on Cultural Resources, and there are no known Paleo sites present.	Access to trailhead. Some camping. Target shooting issues. Vandalism to signs.	Graveled, limited maintenance
717.1	#N/A	Closed to public, spur to north from 717, dump road, it goes past PRJC dump and access private, good road. Low potential for weed seed dispersal from recreation vehicles and users.	Closed to public, spur to north from 717, dump road, it goes past PRJC dump and access private, good upland road	Turkeys, pygmy nuthatch, whitetail and mule deer, grouse leks in area, mountain lions	The road is expected to have a moderate impact on Cultural Resources, and there are no known Paleo sites present.	Access to private. Some hunter access.	Native surface, do not maintain

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Rd no.	Road Name	Ecosystem	Aquatic	Wildlife	Cultural/ Paleo	Human Use	Costs/ Benefits
718.1	#N/A	Road eventually turns into mountain bike trail. Moderate potential for weed seed dispersal from recreation vehicles and users.	Road eventually turns into mountain bike trail, mainly upland with a little rutting, and the road surface is native material	Turkey, mule and whitetail deer, near elk calving area, pygmy nuthatch, near sharp-tailed grouse lek (This road is a portion of 718_3.4E)	The road is expected to have a moderate impact on Cultural Resources, and there are no known Paleo sites present.	Mtn. Bike route used by motorized recreationists, campers and hunters.	Native surface, do not maintain
718.1A	#N/A	Spur to campsite, spur keeps growing and going closer to elk calving area. Low potential for weed seed dispersal from recreation vehicles and users.	Spur to campsite, mainly upland, and the road surface is native material	Turkey, mule and whitetail deer, near elk calving area, pygmy nuthatch, sharp-tailed grouse	The road is expected to have a low impact on Cultural Resources, and there are no known Paleo sites present.	Access to campsite used by hunters.	Native surface, do not maintain
718.2	#N/A	Goes to private land, pretty good road, gate at bottom is locked. Low potential for weed seed dispersal from recreation vehicles and users.	Goes to private land, pretty good upland road, gate at bottom is locked	Turkeys, whitetail and mule deer, elk, pygmy nuthatch	The road is expected to have a high impact on Cultural Resources, and there are no known Paleo sites present.	Access to pvt. Used for hunting access.	Native surface, do not maintain, old logging road
718.7	#N/A	Off Highline Road to dispersed site, goes to windmill. Low potential for weed seed dispersal from recreation vehicles and users.	Off Highline Road to dispersed site, goes to windmill, the road is upland, and not major issues have been cited	Turkeys, whitetail and mule deer, elk, sharp-tailed grouse	The road is expected to have a moderate impact on Cultural Resources, and there are no known Paleo sites present.	Access to dispersed campsite. Hunter parking.	Native surface, do not maintain, braided road moves when wet
719.1	#N/A	Closed to public, goes to windmill, Strong Canyon allotment, next to Pine Ridge Trail, does not get much use. Low potential for weed seed dispersal from recreation vehicles and users.	Closed to public, goes to windmill, Strong Canyon allotment, next to Pine Ridge Trail, does not get much use, it's a short upland spur, and should have little effect on aquatics	Turkeys, pygmy nuthatch, whitetail and mule deer, elk, sharp-tailed grouse	The road is expected to have a low impact on Cultural Resources, and there are no known Paleo sites present.	Primarily hunter parking.	Native surface, do not maintain

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Rd no.	Road Name	Ecosystem	Aquatic	Wildlife	Cultural/ Paleo	Human Use	Costs/ Benefits
723.1	#N/A	Goes to dispersed site, north half of road is very rutted, very steep, multi-tracked, a lot of erosion, good hunter access during elk season. Moderate potential for weed seed dispersal from recreation vehicles and users.	Goes to dispersed site, north half of road is very rutted and prone to erosion due to its steep incline, goes through at least one draw	Turkey, mule and whitetail deer, elk calving area, pygmy nuthatch, mountain lions	The road is expected to have a low impact on Cultural Resources, and there are no known Paleo sites present.	Access to dispersed site used during hunting seasons. Hunter access.	Native surface, do not maintain, old logging road
723.1A	#N/A	Goes to dispersed site, road is up on top. Low potential for weed seed dispersal from recreation vehicles and users.	Goes to dispersed site, road is up on top, no known aquatics issues	Turkey, mule and whitetail deer, elk calving area, pygmy nuthatch, mountain lions	The road is expected to have a low impact on Cultural Resources, and there are no known Paleo sites present.	Dispersed campsite used mainly during hunting season.	Native surface, do not maintain, dispersed site
724.1	#N/A	Road goes up a slope to private land, road is pretty stable, sandy, butte rock, gets some ATV and mountain bike use. Low potential for weed seed dispersal from recreation vehicles and users.	Road goes up a slope to private land, road is pretty stable, sandy, butte rock, gets some ATV and mountain bike use	Turkeys, pygmy nuthatch, whitetail and mule deer, elk, east of Bighorn Sheep MA,	The road is expected to have a low impact on Cultural Resources, and there are no known Paleo sites present.	Access to pvt. Land. Occasional hunter use.	Native surface, do not maintain
724.1A	#N/A	Same as 724.1	Same as 724.1	Turkeys, pygmy nuthatch, whitetail and mule deer, elk, east of Bighorn Sheep MA,	The road is expected to have a low impact on Cultural Resources, and there are no known Paleo sites present.	Access to pvt. Land. Occasional hunter use.	Native surface, do not maintain

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Rd no.	Road Name	Ecosystem	Aquatic	Wildlife	Cultural/ Paleo	Human Use	Costs/ Benefits
726.1	#N/A	Goes to dispersed site, near homestead site, road in flat area, gets heavy use. Moderate potential for weed seed dispersal from recreation vehicles and users.	Goes to dispersed site, road in flat bottom area right off of Bordeaux Creek, gets heavy use	Turkeys, whitetail and mule deer, pygmy nuthatch, elk, east of bighorn Sheep MA, open parks	The road is expected to have a high impact on Cultural Resources, and there are Paleo sites present in the area. fossil sites	Most of use is for camping during deer season.	Native surface, do not maintain,
726.2	#N/A	Spur to dispersed campsite, same as 726.1 Where this road leaves the drainage and goes up the hill, there are several ruts and multitracked, erosion.	Spur to dispersed campsite, same as 726.1	Turkeys, whitetail and mule deer, pygmy nuthatch, elk, east of bighorn Sheep MA, open parks	The road is expected to have a high impact on Cultural Resources, and there are no known Paleo sites present.	Most of use is for camping during deer season.	Native surface, do not maintain
728.1	#N/A	Spur, goes to windmill, erosive knob. Low potential for weed seed dispersal from recreation vehicles and users.	Spur, goes to windmill, erosive knob	Turkey, mule and whitetail deer, elk calving area, pygmy nuthatch, mountain lions	The road is expected to have a low impact on Cultural Resources, and there are no known Paleo sites present.	Some hunter access. Access for permittee.	Native surface, do not maintain, old logging road
728.2	#N/A	Use from hunters and ATVs. Moderate potential for weed seed dispersal from recreation vehicles and users.	Heads down toward and crosses Bordeaux Creek. At this time there is no improve crossing at that location.	Turkey, mule and whitetail deer, elk calving area, pygmy nuthatch, mountain lions	The road is expected to have a low impact on Cultural Resources, and there are no known Paleo sites present.	OHV and Mtn. Bike use.	Native surface, do not maintain, old logging road
732.1	#N/A	Steep, blowout areas, thistle patches nearby. Moderate potential for weed seed dispersal from recreation vehicles and users.	Steep, blowout areas, the road crosses several dry draws	Turkey, whitetail and mule deer, elk, raptors, amphibians, pygmy nuthatch	The road is expected to have a moderate impact on Cultural Resources, and there are no known Paleo sites present.	Mostly used for hunting access.	Native surface, do not maintain

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Rd no.	Road Name	Ecosystem	Aquatic	Wildlife	Cultural/ Paleo	Human Use	Costs/ Benefits
732.2	#N/A	Spur to campsite, lots of use during hunting season. Moderate potential for weed seed dispersal from recreation vehicles and users.	Spur to campsite, the spur is short and upland with a draw nearby	Turkey, whitetail and mule deer, elk, raptors, amphibians, pygmy nuthatch	The road is expected to have a moderate impact on Cultural Resources, and there are no known Paleo sites present.	Dispersed camp and parking area used mainly during hunting seasons.	Native surface, do not maintain, dispersed site
737.1	#N/A	Spur to dispersed campsite and home site. Moderate potential for weed seed dispersal from recreation vehicles and users.	Spur to dispersed campsite, the spur is upland and parallels a dry draw	Turkeys, pygmy nuthatch, whitetail and mule deer, elk, possible eagle nesting sites	The road is expected to have a moderate impact on Cultural Resources, and there are no known Paleo sites present.	Recreation access.	Native surface, do not maintain, dispersed site
739.1	#N/A	Cultural site, some use during hunting season, goes to two windmills, party site, shooting and tobogganing in area. Moderate potential for weed seed dispersal from recreation vehicles and users.	Goes to two windmills, the road is mainly upland, but does cross and come near a few draws	Turkey, pygmy nuthatch, whitetail and mule deer, Bighorn Sheep, elk, open parks in timber, sharp-tailed grouse habitat	The road is expected to have a low impact on Cultural Resources, and there are no known Paleo sites present.	Recreation access primarily during hunting season.	Native surface, limited maintenance
803_1	#N/A	Loop road at Soldier Creek, graveled, right off of creek, old foundations in area. Moderate potential for weed seed dispersal from recreation horses and users.	Loop road at Soldier Creek, graveled, right off of creek	Turkeys, whitetail and mule deer, elk, bighorn sheep	The road is expected to have a moderate impact on Cultural Resources, and there are no known Paleo sites present.	Soldier Creek campground loop.	Native surface, do not maintain
Trails							
Oglala Trails							

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Rd no.	Road Name	Ecosystem	Aquatic	Wildlife	Cultural/ Paleo	Human Use	Costs/ Benefits
905.1M	#N/A	Single track, enduro trail, very erosive, crosses draws, sandy soils, near spring and elk calving area, bighorn are using this area. Moderate potential for weed seed dispersal from recreation vehicles and users.	Single track, enduro trail, very erosive, crosses draws, sandy soils, near spring	Turkeys, pygmy nuthatch, whitetail and mule deer, elk, bighorn sheep. The area appears to be important to bighorn sheep and it is also an elk calving area.	The road is expected to have a moderate impact on Cultural Resources, and there are no known Paleo sites present.	Single track trail used mostly during the Enduro.	Native surface, do not maintain
905.1T_seg1	#N/A	OHV trail, enduro trail, erosive. Moderate potential for weed seed dispersal from recreation vehicles and users.	OHV trail, enduro trail, erosive	Turkeys, pygmy nuthatch, whitetail and mule deer, elk, bighorn sheep. The area appears to be important to bighorn sheep and it is also an elk calving area.	The road is expected to have a moderate impact on Cultural Resources, and there are Paleo sites present in the area. fossil sites	Single track trail used mostly during the Enduro.	Native surface, do not maintain
905.1T_seg2	#N/A	Cuts switchback. Moderate potential for weed seed dispersal from recreation vehicles and users.	Cuts switchback	Turkeys, pygmy nuthatch, whitetail and mule deer, elk, bighorn sheep. The area appears to be important to bighorn sheep and it is also an elk calving area.	The road is expected to have a high impact on Cultural Resources, and there are no known Paleo sites present.	OHV trail that cuts switchback of two track.	Native surface, do not maintain

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Rd no.	Road Name	Ecosystem	Aquatic	Wildlife	Cultural/ Paleo	Human Use	Costs/ Benefits
Area Open to Cross Country Travel	#N/A	Barr's milk vetch, drains into Sand Creek, Play area is 2000 ac. Moderate potential for weed seed dispersal from recreation vehicles and users.	Drains into Sand Creek, Area is 2000 ac.	This is a 2000 acre proposed play area. The area contains habitat for Barr's Milkvetch and Dakota Buckwheat. Surveys for Barr's Milkvetch will be conducted in the spring of 2009. Other wildlife species of interest in this area include swift fox, long-billed curlew, pronghorn, mule deer, and coyotes.	A 2000 acre area open to cross country travel. Concentration of vertebrate sites; theft documented; vandalism of fossils by ATV/OHV documented; skeet shooting trash documented	The area is 2000 acres that has Occasional use as a play area by OHV's.	2000 acre area, Native surface, sensitive resources, highly erosive
Pine Ridge Trails							
24C_seg1	#N/A	Mountain bike route, gets use from motorcycles and ATVs, one section has problems. Low potential for weed seed dispersal from recreation vehicles and users.	Mountain bike route, one section has problems, the route goes right up a drainage	Turkeys, whitetail and mule deer, elk, several open parks in timber, pygmy nuthatch	The road is expected to have a low impact on Cultural Resources, and there are no known Paleo sites present.	Mtn. Bike Route that receives motorized use.	Native surface, do not maintain
24C_seg2	#N/A	Trail on upper bench, ties in with logging road, not used much. Low potential for weed seed dispersal from recreation vehicles and users.	Trail on upper bench, ties in with logging road, not used much	Turkeys, whitetail and mule deer, elk, several open parks in timber, pygmy nuthatch	The road is expected to have a high impact on Cultural Resources, and there are no known Paleo sites present.	Occasional motorized and Mtn. Bike use.	Native surface, do not maintain

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Rd no.	Road Name	Ecosystem	Aquatic	Wildlife	Cultural/ Paleo	Human Use	Costs/ Benefits
24E	#N/A	Mountain bike route, goes to tank and windmill, follows fence line, ties in to loop trail. Low potential for weed seed dispersal from recreation vehicles and users.	Mountain bike route, crosses a drainage, goes to tank and windmill, follows fence line, ties in to loop trail	Turkeys, pygmy nuthatch, whitetail and mule deer, elk, motorized trail follows/crosses woody draws	The road is expected to have a moderate impact on Cultural Resources, and there are no known Paleo sites present.	Mtn. Bike route that receives motorized use.	Native surface, do not maintain
24EM	#N/A	Existing enduro trail, upland, route goes down drainage, this needs to be looked at on the ground. Moderate potential for weed seed dispersal from recreation vehicles and users.	Existing enduro trail, upland, route goes down drainage, this needs to be looked at on the ground	Turkeys, pygmy nuthatch, whitetail and mule deer, elk, motorized trail follows/crosses woody draws	The road is expected to have a low impact on Cultural Resources, and there are no known Paleo sites present.	Part of enduro SUP route that gets some use other than the race.	Native surface, do not maintain
28	#N/A	Follows canyon, goes by Whiskey Cave and through a woody draw, proposed for ATV use. Moderate potential for weed seed dispersal from recreation vehicles and users.	Follows canyon, goes by Whiskey Cave and through a woody draw, proposed for ATV use	Turkeys, pygmy nuthatch, whitetail and mule deer, elk	The road is expected to have a moderate impact on Cultural Resources, and there are no known Paleo sites present.	Mtn.Bike Route	Native surface, do not maintain
28.1	#N/A	Dozer line through Strong Canyon burn, gets some use, line is pretty much healed up, does run some water. Low potential for weed seed dispersal from recreation vehicles and users.	Dozer line through Strong Canyon burn, gets some use, line is pretty much healed up, does run some water	Turkeys, pygmy nuthatch, whitetail and mule deer, elk	The road is expected to have a moderate impact on Cultural Resources, and there are no known Paleo sites present.	Old dozer line for Strong Canyon Burn. Not a good layout for a trail. Erosive steep slopes.	Native surface, do not maintain

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Rd no.	Road Name	Ecosystem	Aquatic	Wildlife	Cultural/ Paleo	Human Use	Costs/ Benefits
701.1M	#N/A	Narrow, steep, wet canyon—moist, but no long-term water. Low potential for weed seed dispersal from recreation vehicles and users.	Narrow, steep, wet canyon—moist, but no long-term water	Turkeys, whitetail and mule deer, songbirds, elk, mountain lion, Bighorn Sheep, grouse habitat, pygmy nuthatch	The road is expected to have a low impact on Cultural Resources, and there are no known Paleo sites present.	Used to be part of the Enduro. Hasn't been used for many years. Borders CSP and Camp Norwesca.	Native surface, do not maintain
702.1M	#N/A	Parallels canyon and goes into canyon above springs, does not get much use—mainly enduro every few years. Low potential for weed seed dispersal from recreation vehicles and users.	Parallels canyon and goes into canyon above springs, does not get much use—mainly enduro every few years	Turkeys, pygmy nuthatch, whitetail and mule deer, elk, mountain lion, grouse, songbirds	The road is expected to have a low impact on Cultural Resources, and there are no known Paleo sites present.	Primary use is from enduro .	Native surface, do not maintain
702.1T	#N/A	Goes up Trunk Butte Canyon, green ash and potential impact on woody regeneration on north end, woody draw. Low potential for weed seed dispersal from recreation vehicles and users.	Goes up Trunk Butte Canyon, green ash and potential for woody on north end, woody draw	Turkeys, pygmy nuthatch, whitetail and mule deer, elk, mountain lion, grouse, songbirds, minnows in Turkey Track creek, follows woody draw	The road is expected to have a low impact on Cultural Resources, and there are no known Paleo sites present.	Primary use is from enduro . Occasional OHV use. Crosses creek at least twice. Pine Drops found in canyon next to trail.	Native surface, do not maintain
702.2T	#N/A	On top, next to pasture and edge of trees, proposed new trail. Low potential for weed seed dispersal from recreation vehicles and users.	On top (upland), next to pasture and edge of trees, proposed new trail	Turkeys, pygmy nuthatch, whitetail and mule deer, elk, mountain lion, grouse, songbirds	The road is expected to have a low impact on Cultural Resources, and there are no known Paleo sites present.	Proposed new trail along edge of timber.	Native surface, do not maintain

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Rd no.	Road Name	Ecosystem	Aquatic	Wildlife	Cultural/ Paleo	Human Use	Costs/ Benefits
702.3T	#N/A	Trail goes along edge of timber, partly user created, no major resource issues. Low potential for weed seed dispersal from recreation vehicles and users.	Trail goes along edge of timber, partly user created, the trail is upland, and there are no major resource issues	Turkeys, pygmy nuthatch, whitetail and mule deer, elk, mountain lion, grouse, songbirds	The road is expected to have a low impact on Cultural Resources, and there are no known Paleo sites present.	Old logging road used for recreation access.	Native surface, do not maintain
702.4T	#N/A	Cow trail or user created, connector. Low potential for weed seed dispersal from recreation vehicles and users.	Cow trail or user created, the trail is upland	Turkeys, pygmy nuthatch, whitetail and mule deer, elk, mountain lion, grouse, songbirds	The road is expected to have a low impact on Cultural Resources, and there are no known Paleo sites present.	User created trail on top along edge of timber.	Native surface, do not maintain
718.1M	#N/A	Part of an enduro route, it starts in canyon and then goes along edge, ends up on top of ridge, rolling dips. Low potential for weed seed dispersal from recreation vehicles and users.	Part of an enduro route, it starts in canyon and then goes along edge, ends up on top of ridge, rolling dips	Turkeys, whitetail and mule deer, elk, pygmy nuthatch, motorized trail follows/crosses woody draws	The road is expected to have a low impact on Cultural Resources, and there are no known Paleo sites present.	Part of Enduro trail. Some use other than during race.	Native surface, do not maintain
718.1T	#N/A	Trail goes from dispersed campsite to cliffs, follows along ridge and drops into draw, some thistle in area. Moderate potential for weed seed dispersal from recreation vehicles and users.	Trail goes from dispersed campsite to cliffs, follows along ridge and drops into draw	Turkey, mule and whitetail deer, near elk calving area, pygmy nuthatch	The road is expected to have a moderate impact on Cultural Resources, and there are no known Paleo sites present.	Part of trail is Enduro route The rest is proposed new.	Native surface, do not maintain
718.2T	#N/A	Trail follows along property line to the cliffs, old logging road. Low potential for weed seed dispersal from recreation vehicles and users.	Trail follows along property line to the cliffs, old logging road, south east portion of the trail approaches Bordeaux Creek	Turkeys, whitetail and mule deer, elk, several open parks in timber, pygmy nuthatch	The road is expected to have a low impact on Cultural Resources, and there are no known Paleo sites present.	Old logging road kept open by motorized use.	Native surface, do not maintain

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Rd no.	Road Name	Ecosystem	Aquatic	Wildlife	Cultural/ Paleo	Human Use	Costs/ Benefits
718.3T	#N/A	Existing logging road. Erosion at bottom of trail, silt into Bordeaux Creek. Moderate potential for weed seed dispersal from recreation vehicles and users.	Existing logging road, the trail is mainly upland but heads down slope towards Bordeaux Creek	Turkeys, whitetail and mule deer, elk, several open parks in timber, pygmy nuthatch	The road is expected to have a low impact on Cultural Resources, and there are no known Paleo sites present.	Old logging road kept open by motorized use.	Native surface, do not maintain
718.4T	#N/A	First section of the trail is an enduro trail, trail cuts across side slopes of canyon, may be in a heron rookery area. Moderate potential for weed seed dispersal from recreation vehicles and users.	First section of the trail is an enduro trail, trails cuts across side slopes of canyon	Turkeys, whitetail and mule deer, elk, several open parks in timber, pygmy nuthatch, motorized trail follows/crosses woody draws, may be in a heron rookery area	The road is expected to have a low impact on Cultural Resources, but there are Paleo sites present in the area. fossil sites	Proposed new trail except for the western segment which is part of the Enduro. Steep slopes.	Native surface, do not maintain
718.5T	#N/A	Dozer line from Spotted Tail fire. Moderate potential for weed seed dispersal from recreation vehicles and users.	Dozer line from Spotted Tail fire, the trail is upland	Turkeys, whitetail and mule deer, elk, several open parks in timber, pygmy nuthatch, motorized trail follows/crosses woody draws	The road is expected to have a low impact on Cultural Resources, and there are no known Paleo sites present.	Proposed new trail along dozer line from 2006 fire.	Native surface, do not maintain
718.6T	#N/A	Newly created, follows ridge and drops down into a draw, would need a switchback, homestead to the south. Low potential for weed seed dispersal from recreation vehicles and users.	Newly created, follows ridge and drops down into a draw, would need a switchback	Turkeys, pygmy nuthatch, whitetail and mule deer, elk, east of Bighorn Sheep MA, motorized trail follows/crosses woody draws	The road is expected to have a moderate impact on Cultural Resources, and there are no known Paleo sites present.	Proposed new trail mostly along ridge to connect 718 and 724.	Native surface, do not maintain

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Rd no.	Road Name	Ecosystem	Aquatic	Wildlife	Cultural/ Paleo	Human Use	Costs/ Benefits
718.8T	#N/A	Cuts across county road to get from mixed use road to mixed use road, does not currently exist, lek in area, parallels road. Low potential for weed seed dispersal from recreation vehicles and users.	Cuts across county road to get from mixed use road to mixed use road, does not currently exist, lek in area, parallels road, short segment, little aquatic effect	Turkeys, whitetail and mule deer, elk, sharp-tailed grouse	The road is expected to have a high impact on Cultural Resources, and there are no known Paleo sites present.	Proposed new trail to connect two mixed use roads.	Native surface, do not maintain
719.1T	#N/A	Starts at parking, there are existing user 2-tracks there, would require some new construction, there will be some steep slopes, 2-track is a good road. Low potential for weed seed dispersal from recreation vehicles and users.	Starts at parking area, there are existing user 2-tracks there, would require some new construction, there will be some steep slopes, 2-track is a good road, aquatic effects would largely depend on how the proposed motorized trail would be constructed.	Turkeys, pygmy nuthatch, whitetail and mule deer, proposed trail will likely follow/cross several woody draws once developed	The road is expected to have a low impact on Cultural Resources, and there are no known Paleo sites present.	Proposed new trail. Some steep areas. Borders pvt. Residences.	Native surface, do not maintain
724.1M	#N/A	Drops into canyon briefly and then parallels, mountain mahogany area, enduro route. Moderate potential for weed seed dispersal from recreation vehicles and users.	Drops into canyon briefly and then parallels, mountain mahogany area, enduro route	Turkeys, pygmy nuthatch, whitetail and mule deer, elk, east of Bighorn Sheep MA, motorized trail follows/crosses woody draws	The road is expected to have a moderate impact on Cultural Resources, and there are no known Paleo sites present.	Part of Enduro. Not used very often outside of race.	Native surface, do not maintain
724.1T	#N/A	Comes out of draw bottom to private land, follows fence line, sandy soils, butte rock. Low potential for weed seed dispersal from recreation vehicles and users.	Comes out of draw bottom to private land, follows fence line, sandy soils, butte rock	Turkeys, pygmy nuthatch, whitetail and mule deer, elk, east of Bighorn Sheep MA, motorized trail follows/crosses woody draws	The road is expected to have a low impact on Cultural Resources, and there are no known Paleo sites present.	Proposed trail rarely used	Native surface, do not maintain

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Rd no.	Road Name	Ecosystem	Aquatic	Wildlife	Cultural/ Paleo	Human Use	Costs/ Benefits
724.2M	#N/A	Starts northeast of windmill, edges canyons and crosses a couple, part of enduro route, soil eroded down to butte rock in places, steep pitches. Moderate potential for weed seed dispersal from recreation vehicles and users.	Starts northeast of windmill, edges canyons and crosses a couple, part of enduro route, soil eroded down to butte rock in places, steep pitches	Turkeys, pygmy nuthatch, whitetail and mule deer, elk, east of Bighorn Sheep MA, motorized trail follows/crosses woody draws	The road is expected to have a low impact on Cultural Resources, and there are no known Paleo sites present.	Enduro Trail. Occasional use outside of race.	Native surface, do not maintain
724.2T	#N/A	Runs along property line, connects two 2-tracks, sandy, butte rock. Low potential for weed seed dispersal from recreation vehicles and users.	Runs along property line, connects two 2-tracks, short, upland, sandy, butte rock	Turkeys, pygmy nuthatch, whitetail and mule deer, elk, east of Bighorn Sheep MA, motorized trail follows/crosses woody draws	The road is expected to have a moderate impact on Cultural Resources, and there are no known Paleo sites present.	Proposed new trail.	Native surface, do not maintain
724.3T	#N/A	Trail zigzags a lot, rolling and steeper terrain, sandy, highly erodable, lots of deer in area. Low potential for weed seed dispersal from recreation vehicles and users. Low potential for weed seed dispersal from recreation vehicles and users.	Trail zigzags a lot, rolling and steeper terrain, sandy, highly erodable	Turkeys, pygmy nuthatch, whitetail and mule deer, elk, east of Bighorn Sheep MA, motorized trail follows/crosses woody draws, lots of deer in area	The road is expected to have a moderate impact on Cultural Resources, and there are no known Paleo sites present.	Proposed new trail.	Native surface, do not maintain

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Rd no.	Road Name	Ecosystem	Aquatic	Wildlife	Cultural/ Paleo	Human Use	Costs/ Benefits
724.4T	#N/A	Pretty good grade, along north edge of mountain mahogany, 2-track converted to trail, some steep areas. Low potential for weed seed dispersal from recreation vehicles and users.	Pretty good grade, along north edge of mountain mahogany, 2-track converted to trail, some steep areas	Turkeys, pygmy nuthatch, whitetail and mule deer, elk, east of Bighorn Sheep MA	The road is expected to have a low impact on Cultural Resources, and there are no known Paleo sites present.	Proposed new trail along user created 2 track.	Native surface, do not maintain
727.1T	#N/A	Enduro route, along edge of timber, part of it goes through dry canyon. Moderate potential for weed seed dispersal from recreation vehicles and users.	Enduro route, along edge of timber, part of it goes through dry canyon	Turkey, mule and whitetail deer, elk calving area, pygmy nuthatch	The road is expected to have a low impact on Cultural Resources, and there are no known Paleo sites present.	Part of Enduro Route.	Native surface, do not maintain
728.1M	#N/A	Half of trail is in canyon, the rest is along hillside, part of enduro trail. Moderate potential for weed seed dispersal from recreation vehicles and users.	Half of trail is in canyon, the rest is along hillside, part of enduro trail	Turkey, mule and whitetail deer, elk calving area, pygmy nuthatch	The road is expected to have a low impact on Cultural Resources, and there are no known Paleo sites present.	Part of Enduro Route.	Native surface, do not maintain
728.2M	#N/A	Trail follows edge of timber, enduro route, all upland, slightly rolling. Moderate potential for weed seed dispersal from recreation vehicles and users.	Trail follows edge of timber, enduro route, all upland, slightly rolling	Turkey, mule and whitetail deer, elk calving area, pygmy nuthatch	The road is expected to have a low impact on Cultural Resources, and there are no known Paleo sites present.	Part of Enduro Route.	Native surface, do not maintain
732.1M	#N/A	Goes cross slope, ties into cut across road, enduro route. Moderate potential for weed seed dispersal from recreation vehicles and users.	Goes cross slope, ties into cut across road, enduro route	Turkey, whitetail and mule deer, elk, raptors, amphibians, pygmy nuthatch	The road is expected to have a low impact on Cultural Resources, and there are no known Paleo sites present.	Part of Enduro Route Near pvt residence.	Native surface, do not maintain

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Rd no.	Road Name	Ecosystem	Aquatic	Wildlife	Cultural/ Paleo	Human Use	Costs/ Benefits
732.1T	#N/A	Crosses canyon and goes up steep rocky hill, rocky ledge coming out of canyon. Moderate potential for weed seed dispersal from recreation vehicles and users.	Crosses canyon and goes up steep rocky hill, rocky ledge coming out of canyon	Turkey, whitetail and mule deer, elk, raptors, amphibians, pygmy nuthatch	The road is expected to have a moderate impact on Cultural Resources, and there are no known Paleo sites present.	Used for hunting access and some OHV use	Native surface, do not maintain
738.1M	#N/A	Proposed single track, old homestead and apple orchard in area, enduro route. Moderate potential for weed seed dispersal from recreation vehicles and users.	Proposed single track, enduro route, follows a draw	Turkeys, whitetail and mule deer, elk, pygmy nuthatch, woody draws	The road is expected to have a low impact on Cultural Resources, and there are no known Paleo sites present.	Part of Enduro. Not used very often outside of race.	Native surface, do not maintain
738.1T	#N/A	Canyon is wider than 738.1M, small climb out of canyon. Low potential for weed seed dispersal from recreation vehicles and users.	Canyon is wider than 738.1M, small climb out of canyon	Turkeys, whitetail and mule deer, elk, pygmy nuthatch, woody draws	The road is expected to have a moderate impact on Cultural Resources, and there are no known Paleo sites present.	Proposed new trail.	Native surface, do not maintain
739.1T	#N/A	Trail goes down one canyon and up another, adverse climbs, old enduro route. Low potential for weed seed dispersal from recreation vehicles and users.	Trail goes down one canyon and up another, canyons usually dry, adverse climbs, old enduro route	Turkey, pygmy nuthatch, whitetail and mule deer, Bighorn Sheep, elk	The road is expected to have a moderate impact on Cultural Resources, and there are no known Paleo sites present.	Former Enduro Route. Last used over 10 years ago, Rarely used.	Native surface, do not maintain

Pine Ridge Ranger District
Appendix C - Travel Analysis Road Rating Graphs

