Engineering Report:

Lassen National Forest

Eagle Lake Ranger District

Analysis of

National Forest System Road (NFSR)

# 33N06

for Motorized Mixed Use Designation
Introduction: This segment of Little Harvey Mountain Road is located on the east side of Lassen National Forest (LNF) in the Champs Flat quadrangle, approximately .5 miles northwest of Little Harvey Mountain. NFSR 33N06 begins at an intersection with NFSR 33N02 near Burgess Well and ends at an intersection with NFSR 33N50 near Salt Cabin. The road starts in Section 24, southwest of Burgess Well and travels southeast to Little Harvey Mountain and an intersection with Lassen County Road 105. County Road 105 then utilizes 33N06 as its alignment as it trends northeast past the Champs Flat Meadow and the intersection with 35N05. The road provides an easy grade access from the pine forest around Burgess Well to the grazing land of Champs Flat/Fleming Well. The entire road is currently managed by LNF as an ML3 open only to highway-legal vehicles.

The road segment was recommended in the LNF Travel Analysis (2008) for an engineering analysis of motorized mixed use. The purpose of this engineering analysis is to investigate the potentials, and associated risks, for transporting both highway-legal vehicles (motor vehicles, including the operators, that are licensed or certified for general operation on public roads within the State) and non-highway-legal vehicles (motor vehicles, including the operators, that are not licensed or certified for general operation on public roads within the State) from the intersection of Lassen County Road 105 approximately 1 mile to the
intersection of 33N61. The LNF Travel Analysis (June 2008) identified this road section as a connector for recreational off-highway vehicle (OHV) loop opportunities on the adjacent road network, of which a portion is currently managed as open to non-highway-legal vehicle use.
Study Segment road data from the forest transportation atlas:

Segment 1: Beginning Mile Post: 1.65 Ending Mile Post: 2.40
33N61 to Lassen County Road 105

The following information is applicable to both segments:

Traffic Service Level: □ A □ B ✗ C □ D
Objective Maintenance Level: □ 1 □ 2 ✗ 3 □ 4 □ 5
Operational Maintenance Level: □ 1 □ 2 ✗ 3 □ 4 □ 5

Maintenance by: Forest Service (FS)

Non-Forest Service ROW or jurisdiction? □ Yes ✗ No

Any road use agreements, maintenance agreements, or other encumbrances?
□ Yes ✗ No

Description of agreements or encumbrances:

No agreements are documented in this segment.

Subject to Highway Safety Act? ✗ Yes □ No

Non-highway-legal vehicles currently permitted? □ Yes ✗ No

Would motorized mixed use be consistent with State and local laws? □ Yes ✗ No

Description of inconsistency with State and local law:

According to California Vehicle Code section 38026, Designating Highways: Combined Use, off-highway operators on a Combined Use highway must be in possession of a valid driver’s license.

Based on the Forest Service purpose and need of allowing all motor vehicles on this segment, designation for motorized mixed use would involve the preemption of state law if the road is to remain a highway.
Description of road management objectives (RMOs), existing use, and proposed use:

The road currently serves as a ML3 collector road and functions as access from the pine forest area by Burgess Well and 33N02, unto the meadow/grazing area by Champs Flat and the Salt Cabin. Situated near the mid western boundary of the Champs Flat quadrangle in the Eagle Lake Ranger District, this route connects to a network of lower standard ML2 system roads that access NFS lands near Little Harvey Mountain, Logan Mountain, and Squaw Valley.

The road has traditionally served range access to Salt Cabin and Fleming Well as well as the pine forest by Burgess Well for commodity extraction, fire suppression, and recreation.

The road is signed at each end with correct horizontal ML3 route identification markers, but along the road’s alignment the route identification markers’ are vertical ML2 fiberglass posts with reflective number stickers.

Most of the year it is currently managed as open only to highway legal traffic. The road is considered a highway by the forest service and is managed in accordance with the Highway Safety Act.

Proposed use is to allow mixed motor vehicle use on this segment to connect from NFSR ML2 33N61 to Lassen County Road 105 and then to connect through Road 105 to NFSR ML2 33N07 as a connector to an existing NFSR ML2 road system. This ML3 connector as described above is not a legal possibility as half of the segment resides on Lassen County Road 105 and Lassen County has not approved motor vehicle mixed use on it’s forest highway system. As-is the segment of 33N06 that is NFSR will not provide access to anywhere but a County forest highway where it is currently against California Motor Vehicle Code to operate a non-highway legal vehicle upon forest highways.

General Considerations:

All motor vehicle operators need to be cognizant of the applicable state laws, and how they pertain to each age group, vehicle type, and national forest system road classification (see next bullet).

Through authorities delegated by the Secretary, the Forest Service may restrict or control use to meet road management objectives (36 CFR 212.5). The LNF currently manages this road as a highway, in accordance with the Highway Safety Act. The road is therefore subject to the provisions of the California Vehicle Code (CVC) for highways. The other portion of this connector route proposed to connect 33N61 via 33N06 to 33N07 is Lassen County Road 105. Lassen County currently manages the road as a highway and the provisions of the California Vehicle Code for highways.
State OHV Regulations: any motor vehicle must have a street-legal license plate to operate on highways. To operate on public lands, off of highways, motor vehicles must have either a street-legal license plate or a red sticker or a green sticker. For more information, see the CA State Parks Off-Highway Motor Vehicle Recreation site, available @ [http://ohv.parks.ca.gov/](http://ohv.parks.ca.gov/)

California has:
- requirements for ATV safety
- conditions for operating ATVs
- OHV equipment requirements
- OHV operation requirements

**Summary of Findings:**

Implementing the universal mitigation measures, especially improved signing and better communication, will reduce crash probability.

Road mitigation should be prioritized regardless of mixed use, along with implementing a comprehensive communication, management, and enforcement plan. Associated implementation costs will depend on the designated allowed use for the road.

The road is an observed 1-lane operational maintenance level 3 standard throughout the selected segment.

The road is maintained to a standard allowing efficient passenger car through traffic at speeds up to 30 mph for reasonable and prudent drivers on straightaways. Based on speeds and their associated risk for crash severity, designating the road as open only to highway-legal vehicles will provide the lowest crash probability and severity.

**Factors Considered:**

1. Operator considerations:

   - Based on engineering judgment and experience/observation on other national forest management units, the LNF has an above average standard of road. Topologically, the unit is dry and flat with pronounced relief features, once roads are improved for management activities, the improvements are long lasting. Culverts are common drainage features on maintenance level 2 roads and standard on maintenance level 3 roads. Often roads on this national forest could be classified one maintenance level higher.
   
   - Allowing non-highway-legal vehicles to use the road segment can involve
both non-highway-legal equipment and non-licensed operators, including children.

- In California, children under the age of 18 must take a prescribed safety course, be under direct supervision of an adult possessing appropriate safety certificate, or possess the appropriate safety certificate in order to operate an ATV. In addition, children under the age of 14 cannot operate an ATV without direct supervision by parent, guardian, or authorized adult.

- The Lassen National Forest currently manages this road as a highway, in accordance with the Highway Safety Act. The road is subject to the provisions of the California Vehicle Code (CVC) for highways.

- The current use on NFSR 33N06 appears to be consistent with state law and forest policy for operational maintenance level 3 roads.

- Many roads in this vicinity, including the study segment, were dry and contributed significant dust when driven over.

2. Crash history:

At the time of this analysis, there are no records of vehicle crashes on this road.

3. Traffic volume and type:

Non-highway-legal vehicles:
□ < 12 inch tread width □ < 50 inch tread width □ >50 inch tread width

Highway-legal vehicles:
□ < 12 inch tread width □ < 50 inch tread width □ >50 inch tread width

☒ Passenger cars ☒ Commercial vehicles ☐ Recreation vehicles (RV's)


No vehicles observed.
4. Speed - Anticipated average speed (85th percentile):

The speed greatly varies, depending on the roadway conditions. The 85th percentile would be estimated at: 30 mph.

5. Road surface type:

The segment has a combination of native rock and red volcanic cinder aggregate surfacing. Portions of the traveled way are raised and the shoulders are soft and non-compactd. The segment was approximately 16' wide. The surface appeared well-maintained.

6. Intersections with other roads and trails:

The study segment begins at an intersection with NFSR ML2 33N61 and ends with an intersection with Lassen County Road 105. 33N61 and 33N47 are maintenance level 2 roads. They intersect with 33N06 which is signed on this segment as a maintenance level 2 road as well. 33N06 lacks the appropriate intersection signing needed to provide for the appropriate traffic management strategies of discourage off highway vehicle use. 33N06 is a maintenance level 3 road and lacks the appropriate ML3 route identification signing along it's alignment of discourage off highway vehicles.

7. Other roadway factors:

- Low vertical curves are present.
- Roadway alignment was adequate for the assigned maintenance level.
- The road was maintained with a traveled way width of 16', approximately.
- The road provides administrative access for a range allotment and commodity extraction. Summer and fall seasons will experience peak use, winter and spring can bring snowy and icy conditions along with snowmobile traffic.
8. Roadside conditions:

- The segment runs from rangeland to an open pine forest.
- Cross slope is 0-5%.
- Grade is 0-2%.
- Pine trees are $\leq 18''$ and numerous volcanic rocks. Emergency run-out is possible.

9. Risk without mitigation:

Crash probability: [ ] High [x] Med [ ] Low

Crash severity: [x] High [ ] Med [ ] Low

Crash probability was assessed based on:
- Traffic volume, dust, rates of speed, alignment, sight distance, traveled way surface and width.

Crash severity was assessed based on:
- Roadway geometry (including embankments), difference in vehicle sizes, difference in speeds of OHVs and full-size passenger vehicles.

Alternatives and Mitigation Measures:

Alternatives and mitigation measures are presented to assist with safe road management. They are to be considered, should the agency have the appropriate time, workload, and funding based on competing priorities.

For all situations, the following mitigation measures apply:
- Clear communication and education to the visitors on allowed uses, safe motor vehicle use, and natural resources (informational signing and kiosks, maps, website, etc.).
- Improved route identification signing. Repair and replace devices as needed.
- Clear brush, especially along curves, to improve sight distance.
- Combine the appropriate enforcement measures with the allowed uses for the road.
- Coordinate with other agencies to improve enforcement consistency.
- Utilize a monitoring program to better determine the appropriate management strategy for the types of use, new technologies, changes in visitor demands, and resource protection measures.

In addition, these mitigation measures would apply to the following alternatives. Although the following alternatives are not comprehensive for the situation, they represent the most likely and/or practical options based on engineering judgment.

**Alternative 1**: Designate the road segments as “open to highway-legal vehicles only”. Manage the road in accordance with maintenance level 3 standards.

- Maintain all roadway signing to MUTCD standards.
- Consider designing new trails, a new trailhead, and/or a new camping area to provide better opportunities for non-highway-legal motor vehicle traffic to access the area and the adjacent maintenance level 2 roads.
- Approximate Implementation Cost: $ 0
- Expected risk:
  - Crash probability: □ High □ Med ☑ Low
  - Crash severity: □ High □ Med ☑ Low

**Alternative 2**: Designate the road as “open to all motor vehicles”, including highway-legal and non-highway-legal vehicles. Downgrade the road segment in accordance with maintenance level 2 standards. This would require removing culverts and ditches, reconstructing the template and narrowing the roadway.

- Install appropriate route identification signing (vertical fiberglass type)
- Approximate Implementation Cost: $ 75,000
- Expected risk
  - Crash probability: □ High □ Med ☑ Low
  - Crash severity: □ High ☑ Med □ Low
Final Comments:

Signing on national forest system roads should conform to the standards presented in the FS sign and poster guidelines (available @ http://fsweb.wo.fs.fed.us/eng/roads_trails/signs_05/index.htm).

In addition, roads managed under the highway safety act, including the study segments here, must comply with the standards in the MUTCD (available @ http://mutcd.fhwa.dot.gov/).

According to the Sign and Poster Guidelines for the Forest Service (2005):

The following priorities are to be used to minimize the potential conflicts of mixed use:

- Provide separate facilities.
- Separate use periods. Roads may be designated for separate use periods such as season, weekday/weekend, or day/night. Notify the public of the locations, effective dates, times, and duration that the roads may or may not be used. Provide appropriate signs as shown in Chapter 3A.

- Manage concurrent use.

Upon designation and prior to allowing any mixed use, the Forest Supervisor is responsible for appropriately signing and mapping the route such that the dual traffic use is clear to all users.
Maps & Photos:
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**Engineering Report:**

Lassen National Forest

Eagle Lake Ranger District

Analysis of

National Forest System Road (NFSR)

# 33N08

for Motorized Mixed Use Designation
Forest: Lassen  District: Eagle Lake

Road Number: 33N08  Road Name: Harvey Mountain Lookout Road

Introduction: The 33N08 Road segment studied is located on the east side of Lassen National Forest (LNF) in the Harvey Mountain quadrangle, on the flanks of Harvey Mountain. NFSR 33N08 begins at a 5-way intersection, primary of which is 35N04, and ends at Harvey Mountain Lookout. The road starts approximately 10 miles due north of State Highway 44, approximately 1.5 miles south of the Eagle Lake RD and Hat Creek RD boundary on NFSR ML3 35N04. From this point the 33N08 road travels east approximately 2 miles to the toe of slope of Harvey Mountain where the road follows a due north traverse up the west flank of the mountain approximately 1 mile to the summit.

The entire road is currently managed by LNF as open only to highway-legal vehicles. The road segment analyzed was recommended in the LNF Travel Analysis (2008) for an engineering analysis of motorized mixed use. The purpose of this engineering analysis is to investigate the potentials, and associated risks, for operating/transporting both highway-legal vehicles (motor vehicles, including the operators, that are licensed or certified for general operation on public roads within the State) and non-highway-legal vehicles (motor vehicles, including the operators, that are not licensed or certified for general operation on public roads within the State) on 33N08, from the intersection of 35N04 to the summit of the mountain. The LNF Travel Analysis (June 2008) identified this road section as a connector for recreational off-
highway vehicle (OHV) loop opportunities on the adjacent road network, of which a portion is currently managed as open to non-highway-legal vehicle use.
Study Segment road data from the forest transportation atlas:

Segment 1: Beginning Mile Post: 0.00  Ending Mile Post: 2.47

35N04 to terminus/summit

Traffic Service Level: □ A  □ B  □ C  □ D
Objective Maintenance Level: □ 1  □ 2  □ 3  □ 4  □ 5
Operational Maintenance Level: □ 1  □ 2  □ 3  □ 4  □ 5

Maintenance by: Forest Service (FS)

Non-Forest Service ROW or jurisdiction? □ Yes  □ No

Any road use agreements, maintenance agreements, or other encumbrances?
□ Yes  □ No

Description of agreements or encumbrances:

No agreements are documented.

Subject to Highway Safety Act? □ Yes  □ No

Non-highway-legal vehicles currently permitted? □ Yes  □ No

Would motorized mixed use be consistent with State and local laws? □ Yes  □ No

Description of inconsistency with State and local law:

According to California Vehicle Code section 38026, Designating Highways: Combined Use, off-highway operators on a Combined Use highway must be in possession of a valid driver’s license.

Based on the Forest Service purpose and need of allowing all motor vehicles on this segment, designation for motorized mixed use would involve the preemption of state law if the road is to remain a highway.
Description of road management objectives (RMOs), existing use, and proposed use:

The road currently serves as a ML3 local road and functions as a fire lookout station access as well as commodity extraction from Harvey Mountain to the State of California Highway 44.

The road provides summit access from a saddle on the west flank of Harvey Mountain which is the intersections of 35N04/ML3, 33N85/ML2, 34N37/ML2, 35N04/ML3, and 33N08A/ML2. Road 33N08 provides an important function as an ML3 local road providing access to a staffed fir lookout tower. From the lookout tower it is approximately 12.5 miles on NFSR maintenance level 3 roads to State Highway 44 which is an all-weather two lane asphalt highway. This intersection is approximately 2 miles west of the forest service Bogard Work Center which is home to the Lassen Hotshot fire crew as well as Engine xx and Water Tender xx.

Most of the year it is currently managed as open only to highway legal traffic. The road is considered a highway by the forest service and is managed in accordance with the Highway Safety Act.

The proposed use for 33N08/ML3 identified in this analysis is to authorize motorized mixed vehicle class use. The proposal is to utilize the ML3 road to connect adjacent ML2 roads into a loop for off highway motorized vehicle use.

General Considerations:

All motor vehicle operators need to be cognizant of the applicable state laws, and how they pertain to each age group, vehicle type, and national forest system road classification (see next bullet).

Through authorities delegated by the Secretary, the Forest Service may restrict or control use to meet road management objectives (36 CFR 212.5). The LNF currently manages this road as a highway, in accordance with the Highway Safety Act. The road is therefore subject to the provisions of the California Vehicle Code (CVC) for highways.

State OHV Regulations: any motor vehicle must have a street-legal license plate to operate on highways. To operate on public lands, off of highways, motor vehicles must have either a street-legal license plate or a red sticker or a green sticker. For more information, see the CA State Parks Off-Highway Motor Vehicle Recreation site, available @ http://ohv.parks.ca.gov/
California has:
- requirements for ATV safety
- conditions for operating ATVs
- OHV equipment requirements
- OHV operation requirements

Summary of Findings:

Implementing the universal mitigation measures, especially improved signing and better communication, will reduce crash probability.

Road mitigation should be prioritized regardless of mixed use, along with implementing a comprehensive communication, management, and enforcement plan. Associated implementation costs will depend on the designated allowed use for the road.

The road is an observed 1-lane operational maintenance level 2+ standard throughout its length.

The road is maintained to a standard allowing efficient passenger car through traffic at speeds up to 25 mph for reasonable and prudent drivers on straightaways. Based on speeds and their associated risk for crash severity, designating the road as open only to highway-legal vehicles will provide the lowest crash probability and severity.

Factors Considered:

1. Operator considerations:

- Based on engineering judgment and experience/observation on other national forest management units, the LNF has an above average standard of road. A "typical ML2" road is a two-track through the forest, usually without culverts, and many times without a constructed road-prism. The Lassen is not "typical" in it's road's adherence to maintenance levels. This road is an objective ML3 as it provides fire lookout tower access which necessitates a higher level emergency access road that is not a recreational opportunity and is not identified in the ROS or Recreational Opportunity Spectrum. As a remote emergency fire detection and communication station the road does not receive much public traffic but does provide daily access in all-weather spring-summer-fall conditions for the lookout's staff as well as weekly deliveries of drinking/cooking/bathing potable water via a large commercial water truck as well as regular deliveries of propane via a large commercial propane gas truck. Topologically, the unit is semi-mountainous, fairly dry, and sandwiched between the Pacific Southwest Research Station's research forest, Black's
Mountain Experimental Forest to the west, and the forest rangeland of the Champs Flat area to the east. The operational level of this road is classified as a 2+ or 3-, something we call a Super-2 here on the Lassen. The road has a management objective of maintenance level 3 to provide for all-weather (during fire season May to October) fire staffing access and fire vehicle emergency access. The objective of the road is to provide emergency fire detection access. Lookout tower staff perform a vital fire crew communication, area dispatch, and area navigation function for interagency Wildland fire suppression forces. As an existing ML3 road public access for visitors is provided to visit the lookout which provides a public educational opportunity as well as a scenic driving opportunity for highway legal vehicles. All-terrain vehicle access may not benefit unrestricted access of professional forest fire detection and suppression staff and large fire vehicles.

- Allowing non-highway-legal vehicles to use the road segment can involve both non-highway-legal equipment and non-licensed operators, including children.
- In California, children under the age of 18 must take a prescribed safety course, be under direct supervision of an adult possessing appropriate safety certificate, or possess the appropriate safety certificate in order to operate an ATV. In addition, children under the age of 14 cannot operate an ATV without direct supervision by parent, guardian, or authorized adult.
- The Lassen National Forest currently manages this road as a highway, in accordance with the Highway Safety Act. The road is subject to the provisions of the California Vehicle Code (CVC) for highways.
- The current use on NFSR 33N08 appears to be consistent with state law and forest policy for operational maintenance level 3 roads.
- Many roads in this vicinity, including the study segment, were dry and contributed significant dust when driven over.

2. Crash history:

At the time of this analysis, there are no records of vehicle crashes on this road.
3. Traffic volume and type:

Non-highway-legal vehicles:
☐ < 12 inch tread width  ☐ < 50 inch tread width  ☐ >50 inch tread width

Highway-legal vehicles:
☐ < 12 inch tread width  ☐ < 50 inch tread width  ☐ >50 inch tread width

☐ Passenger cars  ☐ Commercial vehicles  ☐ Recreation vehicles (RV's)

Vehicle distribution from a 1-hour observation July 30, 2008.
No vehicles observed.

4. Speed - Anticipated average speed (85th percentile):

The speed greatly varies, depending on the roadway conditions. The 85th percentile would be estimated at: 25 mph.

5. Road surface type:

The road has a combination of crushed rock aggregate and red volcanic cinder aggregate surfacing. Portions of the traveled way are raised and the shoulders are soft and non-compacted. The road is approximately 16' wide. The surface appeared well-maintained.

6. Intersections with other roads and trails:

The beginning of 33N08 is a five-way intersection with the following;
- 35N04/ML3
- 35N04/ML2
- 33N85/ML2
- 34N37/ML2
- 33N08A/ML2
There are also four additional forest roads with access from 33N08, they are:
- 33N30Y/ML2
- 34N01/ML2
- 33N08B/ML2
- 33N32Y/ML2

These maintenance level 2 roads have historically provided forest management access, fire suppression access, commodity access, and hunting and firewood gathering access.

The proposed MMU intersection of 35N04/ML3 may result in higher traffic merging speeds.

7. Other roadway factors:

- Substantial horizontal and vertical curves are present.
- Roadway alignment was adequate for the assigned maintenance level.
- The road was maintained with a traveled way width of 16’, approximately.
- The road provides administrative access for fire lookout access. Summer and fall seasons will experience peak use, winter and spring can bring snowy and icy conditions.

8. Roadside conditions:

- The segment runs through open pine forest.
- Cross slope is 0-35%.
- Grade is 0-8%.
- Pine trees are ≥18” and numerous rocks. Emergency run-out is not possible for the majority of the road as it climbs up the flank of Harvey Mountain and vertical drops are commonplace.

9. Risk without mitigation:

Crash probability: ☐ High ☐ Med ☒ Low
Crash severity: ☒ High ☐ Med ☐ Low
Crash probability was assessed based on:
- Traffic volume, dust, rates of speed, alignment, sight distance, traveled way surface and width.

Crash severity was assessed based on:
- Roadway geometry (including embankments), difference in vehicle sizes, difference in speeds of OHVs and full-size passenger vehicles.

Alternatives and Mitigation Measures:
Alternatives and mitigation measures are presented to assist with safe road management. They are to be considered, should the agency have the appropriate time, workload, and funding based on competing priorities.

For all situations, the following mitigation measures apply:
- Clear communication and education to the visitors on allowed uses, safe motor vehicle use, and natural resources (informational signing and kiosks, maps, website, etc.).
- Improved route identification signing. Repair and replace devices as needed.
- Clear brush, especially along curves, to improve sight distance.
- Combine the appropriate enforcement measures with the allowed uses for the road.
- Coordinate with other agencies to improve enforcement consistency.
- Utilize a monitoring program to better determine the appropriate management strategy for the types of use, new technologies, changes in visitor demands, and resource protection measures.

In addition, these mitigation measures would apply to the following alternatives. Although the following alternatives are not comprehensive for the situation, they represent the most likely and/or practical options based on engineering judgment.

Alternative 1: Designate the road segments as “open to highway-legal vehicles only”. Manage the road in accordance with maintenance level 3 standards.
- Maintain all roadway signing to MUTCD standards.
- Consider designing new trails, a new trailhead, and/or a new camping area to provide better opportunities for non-highway-legal motor vehicle
traffic to access the area and the adjacent maintenance level 2 roads.

- Approximate Implementation Cost: $0
- Expected risk:
  
  Crash probability:  
  - High
  - Med
  - Low

  Crash severity:
  - High
  - Med
  - Low

Alternative 2: Designate the road segment as “open to all motor vehicles”, including highway-legal and non-highway-legal vehicles.

- Recognize that this situation would involve different allowed uses and would complicate communication and enforcement.
- Improve education and enforcement communication to explain the complexities of various allowed uses on the road.
- Install appropriate signs of a type approved by the Department of Transportation on and along the highway to identify and communicate the potential hazards related to motorized mixed use.
- Notify the Commissioner of the California Highway Patrol and review their opinion.
- Approximate Implementation Cost: $3500
- Expected risk:

  Crash probability:  
  - High
  - Med
  - Low

  Crash severity:
  - High
  - Med
  - Low
- Approximate Implementation Cost: $ 50,000
- Expected risk:

  Crash probability:  □ High  □ Med  □ Low

  Crash severity:  □ High  □ Med  □ Low

Final Comments:

Signing on national forest system roads should conform to the standards presented in the FS sign and poster guidelines (available @ http://fsweb.wo.fs.fed.us/eng/roads_trails/signs_05/index.htm).

In addition, roads managed under the highway safety act, including the study segments here, must comply with the standards in the MUTCD (available @ http://mutcd.fhwa.dot.gov).

According to the Sign and Poster Guidelines for the Forest Service (2005):

The following priorities are to be used to minimize the potential conflicts of mixed use:

  o Provide separate facilities.

  o Separate use periods. Roads may be designated for separate use periods such as season, weekday/weekend, or day/night. Notify the public of the locations, effective dates, times, and duration that the roads may or may not be used. Provide appropriate signs as shown in Chapter 3A.

  o Manage concurrent use.

Upon designation and prior to allowing any mixed use, the Forest Supervisor is responsible for appropriately signing and mapping the route such that the dual traffic use is clear to all users.
Maps & Photos:
Prepared by
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Reviewed by
George Kulick
Region 5 Qualified Engineer
Region 5 Office of Engineering

Date 9/29/08