

## **APPENDIX L2. ROAD INVENTORY EXAMPLES**

### **Road Inventory Project Inga-South Project and Whyte Project Areas Superior National Forest Monitoring Program August and September, 2005**

#### **Background**

Unknown roads within Inga South and Whyte Project Areas were inventoried in July and August of 2005 by biological technicians from the SNF Monitoring Program to assess current use of each road. Unknown roads are typically roads which exist on GIS data layers but current use and/or suitability for use by motorized vehicles is unknown. Photographs were taken at the beginning of each road, at any barrier, culvert, wetland, gravel pit and at the end of the unknown road. Any current use by motorized vehicles was documented. Environmental impacts (i.e. wetland crossing) resulting from motorized use was noted, as well as any "brushed-in" roads showing no signs of use. The intent of this inventory was to assess only those roads classified on the data layers as "unknown". Other forest personnel have conducted inventories on unclassified roads and other road types with known usage.

#### **Data Collection**

Through a GIS query, a map was created using existing data layers highlighting the unknown roads within the Inga South Project Area. Unknown roads were then physically surveyed to determine current use by motorized vehicles. In addition to all unknown roads, roads not depicted on the current map but found while in the field were also surveyed.

#### **Materials Used**

Maps of existing data layers depicting all roads to be surveyed  
Data Sheets  
Camera  
Trimble Geo Explorer

#### **Protocol**

An attempt was made to locate each unknown road within the Inga South project area. If the road location could not be reached via motorized vehicle, the site was reached either by bicycle or by foot. Photos were taken at the beginning point, the end, and other significant features within the road, including barriers, gravel pits, culverts and wetland crossing. Beginning point of each unknown road was at the junction with a known road. Ending point of an unknown road was determined where any ATV/OHV use was absent or unlikely; however, game trails or foot paths may exist further from this ending point and was noted in remarks. Consequently, in these circumstances, the entire road length depicted on the map would not have been surveyed. This GPS survey was conducted using a Trimble Geo Explorer containing a data dictionary specific to the Inga South road inventory project. A "line-feature" was created in the Trimble's data dictionary to create actual road routes and generated GPS coordinates, shape, and distance of each road surveyed. Waypoints were taken at the start of each road, at the end, and at any significant feature (see above) and stored within the rover file on the Trimble. The road line-feature with the data dictionary specifically characterized the surveyed road based on apparent use, surface material, and road prism width. A classification and road closure recommendation was made according to predetermined criteria.

Classifications used are defined as follows:

**UND:** Unclassified-Drivable by highway licensed vehicles

**UATV:** Unclassified-ATV's are using

**ATVT:** A user developed ATV trail

Data Sheets were completed at each sight including the file name (in the Trimble data dictionary), the adjacent main road number that intersects the unknown road, photo number, and description and any additional comments.

## Inga South Project Area

### ROADS SURVEYED

Many varying conditions were found while undergoing field surveys for unknown roads within the Inga South Project Area. There were some instances in which roads were not located, or which roads were located and receiving significant, little, or no motorized use. Roads we encountered received different levels (or types) of use, from trails supporting only foot traffic or game trails, to those that were capable of supporting all motorized vehicles.

#### **I. No Road Found**

These refer to any unknown mapped road that was not located while conducting field surveys. Any unknown mapped road that was not located by surveyors in the field, the GPS coordinates were used to search the road site if road/road prism was still not found, no waypoint was taken, a note was made on the map "DNE " stating that the specific road does not exist. **25 of the total roads surveyed were not found. See Appendix A for road attributes.**

#### **II. No Motorized Use (UCNU)**

These are roads receiving no motorized use but still possess a road prism and have at one time supported motorized vehicle use. Many of these roads were roads that had been effectively closed with barriers such as earthen berms or boulders, or have naturally vegetated in with surrounding flora. **Thirty-eight (or 24.7%) of the total roads were found to have no motorized use. The total area receiving no motorized use covered a length of 4.3 miles (or 23.9 % of the total surveyed).**



**081605 ROAD 10-No Use**



**072305 ROAD 0-No Use**



**081605 RD 22-Foot Traffic Only**

**III. Unknown Roads with ATV Use (UATV)**



**071905 ROAD 16-ATV Use**

Unknown roads possess a defined road prism and received only motorized use by ATVs. Notes were made if the road passed through a wetland by taking a waypoint and recording the length of the disturbed area. Also noted were areas that were braided or rutted to avoid wetlands or barriers. **Thirty (or 24.7%) of the total roads surveyed appeared to be receiving some ATV use. The total area receiving use by ATV's covered 5.1 miles in length (or 23.9% of the total surveyed).**



**081505 ROAD 02-ATV Use**



**072305 ROAD Q-ATV Use**

**IV. Unknown Roads with 4wd Vehicle Use**



**081605 ROAD 07-4wd Use**

These roads were determined as being capable of supporting travel by a 4wd vehicle (OHVs). **Twenty-two (or 14.3%) of the total roads surveyed were supporting use by 4wd vehicles.** This area covered about 1.8 miles (or 10% of the total



**081605 ROAD 11-4wd Use**

area surveyed).



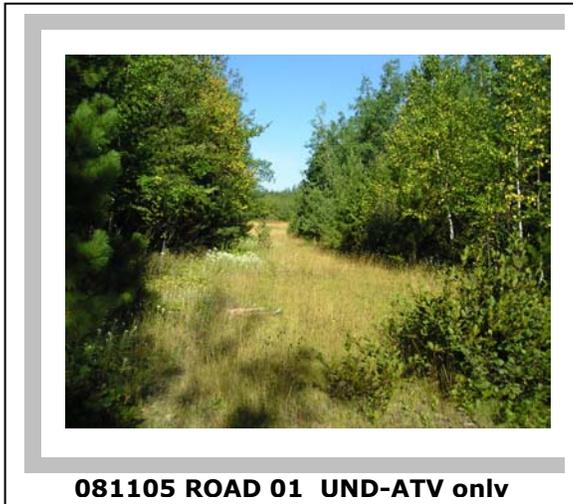
**VI. User Created ATV Trail (ATVT)**

An ATVT, or user created ATV trail, is a mapped unknown road that was found to not contain a road prism and appeared to have been created by an ATV rider to gain access to private property, a stream, lake or deer stand. **Nine (or 5.84%) of the total roads surveyed were found to be a user created ATV trails. The area covered totaled 1.7 miles (or 9.44 % of the total area surveyed.)**



**VII. UND ATV Use Only:**

Roads are mapped unknown roads that contain a road prism & appear to be used only by ATVs, although they may be capable of supporting 4WD vehicles as well. Four (or 2.6%) of the total roads surveyed were found to be used by ATVs. The area covered totaled 0.5 miles or 2.8 % of the area surveyed.



**081105 ROAD 01 UND-ATV onlv**



**072905 ROAD 04 UND-ATV ONLY**



**072305 ROAD O UND-ATV ONLY**

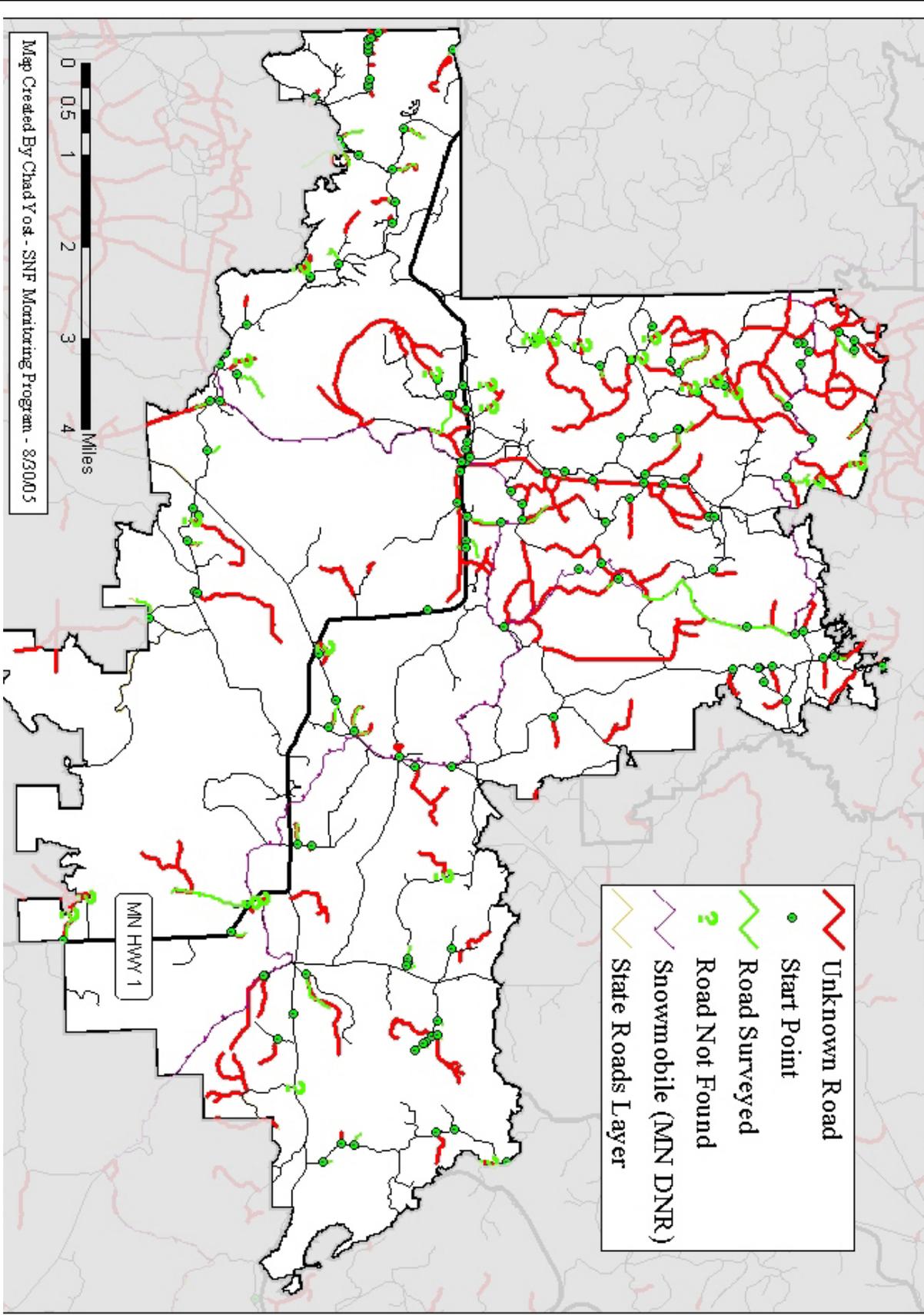
**Summary of Findings**

At the time of this report approximately 90% of all unknown roads within the Inga South Project Area had been surveyed. Below is a table summarizing the monitoring visits.

<b>Classification</b>	<b>Total # of sights</b>	<b>% of Total #</b>	<b>Total Length (mi)</b>	<b>% of Tot Lngth</b>
<b>Roads Surveyed</b>	<b>126</b>	<b>NA</b>	<b>18.6</b>	<b>NA</b>
No Road	9	7	N/A	N/A
No Motorized Use	38	31	4.3	23.9
UATV	30	24	5.1	28.3
UND-4wd only	22	17	1.8	10.0
UND-All Autos	14	11	5.2	28.9
ATVT	9	7	1.7	9.44
UND- ATV only	4	3	0.5	2.8



# Inga South Road Inventory and ATV Use Project



**Table 1. Road Attributes from GPS Data Dictionary**

<b>Datafile (Road Line)</b>	<b>Road Class</b>	<b>Current Use</b>	<b>Surface Type</b>	<b>Prism</b>	<b>Comment</b>	<b>Close to Motorized</b>	<b>Continues?</b>	<b>Length (Km)</b>
070605 ROAD01.cor	uatv unclass atv use	atv only	native,hard/gra vel	1 4	LITTLE ATV USE	yes	no	0.45 7
070605 ROAD02.cor	ucnu uncl not useabl	no motorized use	native,hard/gra vel	1 4		yes	no	0.51 9
070605 ROAD03.cor	uatv unclass atv use	atv only	native,hard/gra vel	1 4		yes	no	0.11 9
070605 ROAD04.cor	ucnu uncl not useabl	no motorized use	native,hard/gra vel	1 4	berm boulder moved, no evidence of current ATV use.	yes	no	0.36 6
070605 ROAD05.cor	ucnu uncl not useabl	no motorized use	native,hard/gra vel	1 4		yes	no	0.10 7
070605 ROAD05.cor	und unclass drivable	4wd auto	native, soil/soft	1 4	BEING LOGGED?	yes	yes, wet/flooded	0.87 0
070605 ROAD06.cor	ucnu uncl not useabl	no motorized use	native,hard/gra vel	1 4	heavily overgrown in spots	yes	yes,grown in	0.49 6
070605 ROAD07.cor	und unclass drivable	4wd auto	native,hard/gra vel	1 4	used to dump brush, burn piles? no use after burn piles.	no	yes,grown in	0.14 8
070605 ROAD08.cor	uatv unclass atv use	atv only	native,hard/gra vel	1 4		no	yes,grown in	0.15 9
070605 ROAD09.cor	und unclass drivable	all autos	native,hard/gra vel	1 4	used to dump brush, burn piles? no use after burn piles.	no	yes,grown in	0.06 5
070705 ROAD04.cor	ucnu uncl not useabl	no motorized use	native,hard/gra vel	1 4		no	yes,grown in	0.26 0
070705 ROAD05.cor	uatv unclass atv use	atv only	native,hard/gra vel	1 4		no	yes,grown in	0.08 7
070705 ROAD06.cor	und unclass drivable	4wd auto	native,soil/soft	1 4	LEADS TO CLEARCUT, LOST THE ROAD	no		0.54 3
070705 ROAD07.cor	ucnu uncl not useabl	no motorized use	native,hard/gra vel	1 4		no	yes,grown in	0.18 7
070705 ROAD08.cor	ucnu uncl not useabl	no motorized use	native,hard/gra vel	1 4		no	yes,grown in	0.46 9
070705 ROAD09.cor	und unclass drivable	4wd auto	native,hard/gra vel	1 4	Road crosses river, continues on other side.	no	yes,wet/flooded	0.31 8
070705 ROAD10.cor	und unclass drivable	4wd auto	native,hard/gra vel	1 4		no	yes,wet/flooded	0.33 1
070705 ROAD11.cor	uatv unclass atv use	atv only	native,soil/soft	1 4		no	yes,grown in	0.64 9
070705 ROADB.cor	uatv unclass atv	atv only	native,hard/gra	1		no	no	0.15

Datafile (Road Line)	Road Class	Current Use	Surface Type	Prism	Comment	Close to Motorized	Continues?	Length (Km)
	use		vel	4				5
070705 ROADB.cor	und unclass drivable	4wd auto	native,hard/gra vel	1	NOT ON MAP		yes,grown in	0.00
			vel	4				3
070705 ROADE.cor	ucnu uncl not useabl	no motorized use	native,hard/gra vel	1	??UCNU?	yes	yes,grown in	0.09
			vel	4				4
070705 ROADF.cor	und unclass drivable	4wd auto	native,hard/gra vel	1	TO TIMBER STD	no	no	0.07
			vel	4				3
070705 ROADG.cor	atvt user atv trail	atv only	native,hard/gra vel	1	PINE PLANTATION	yes	no	0.00
			vel	4				1
070705 ROADG.cor	atvt user atv trail	atv only	native,hard/gra vel	1	PINE PLANTATION	yes	no	0.69
			vel	4				9
070705 ROADG.cor	uatv unclass atv use	atv only	native,hard/gra vel	1		no	no	0.15
			vel	4				0
071905 ROAD14.cor	ucnu uncl not useabl	no motorized use	native,hard/gra vel	1	PINE/BALSAM AND LOGS IN ROAD	yes	no	0.25
			vel	4				7
071905 ROAD16.cor	atvt user atv trail	atv only	native,soil/soft	1		no	no	0.14
				0				8
071905 ROAD16.cor	atvt user atv trail	atv only	native,soil/soft	1		no	no	0.44
				0				5
071905 ROAD16.cor	uatv unclass atv use	atv only	native,soil/soft	1	FS LAND?	no	no	0.05
				0				7
071905 ROAD19.cor	atvt user atv trail	atv only	native,soil/soft	8	STOPPED AT PRIVATE PROPERTY	no	yes, non-fed. land	0.30
								8
072205 ROAD05.cor	ucnu uncl not useabl	no motorized use	native,hard/gra vel	1		no	no	0.02
			vel	4				8
072205 ROAD09.cor	ucnu uncl not useabl	no motorized use	native,hard/gra vel	1		no	no	0.05
			vel	4				2
072205 ROAD11.cor	ucnu uncl not useabl	no motorized use	native,hard/gra vel	1	DOWNED LOGS/BRUSHED IN	no	yes,grown in	0.26
			vel	4				6
072305 ROADB.cor	uatv unclass atv use	atv only	native,hard/gra vel	1	ENDS AT ROW	no	no	0.12
			vel	0				5
072305 ROADE.cor	und unclass drivable	all autos	native,hard/gra vel	1		no	yes, non-fed. land	0.09
			vel	4				0
072305 ROADG.cor	ucnu uncl not useabl	no motorized use	native,soil/soft	1	BRUSHED IN	no	no	0.03
				0				8
072305 ROADI.cor	ucnu uncl not useabl	no motorized use	native,hard/gra vel	1	BRUSHED IN	no	yes,grown in	0.00
			vel	2				6
072305 ROADI.cor	ucnu uncl not useabl	no motorized use	native,hard/gra vel	1	BRUSHED IN	no	yes,grown in	0.02
			vel	2				8

<b>Datafile (Road Line)</b>	<b>Road Class</b>	<b>Current Use</b>	<b>Surface Type</b>	<b>Prism</b>	<b>Comment</b>	<b>Close to Motorized</b>	<b>Continues?</b>	<b>Length (Km)</b>
072305 ROAD0.cor	ucnu uncl not useabl	no motorized use	native,soil/soft	1	BRUSHED IN	no	yes,grown in	0.11
072305 ROAD0.cor	und unclass drivable	4wd auto	pit gravel	2				2
072305 ROAD0.cor	und unclass drivable	4wd auto	pit gravel	1		no	no	0.90
072305 ROADQ.cor	und unclass drivable	atv only	native,hard/gravel	4		no	no	4
072305 ROADU.cor	ucnu uncl not useabl	no motorized use	native,soil/soft	1	DOWNED TREE	no	yes,grown in	2.59
072805 ROAD01.cor	und unclass drivable	all autos	crushed gravel	4		no	no	1
072805 ROAD02.cor	und unclass drivable	all autos	crushed gravel	1	NO USE	no	no	0.29
072905 ROAD01.cor	ucnu uncl not useabl	no motorized use	native,soil/soft	0	Private Drive	no	no	0.08
072905 ROAD04.cor	und unclass drivable	atv only	native,hard/gravel	1	CONNECTS TO HW1	no	no	0.00
072905 ROAD05.cor	ucnu uncl not useabl	no motorized use	native,soil/soft	4		yes	no	6
072905 ROAD06.cor	ucnu uncl not useabl	no motorized use	native,soil/soft	1	POSSIBLE OLD SKID TRAIL	no	no	0.10
080205 ROAD02.cor	und unclass drivable	atv only	native,hard/gravel	4		yes	yes,grown in	1
080805 ROAD01.cor	ucnu uncl not useabl	no motorized use	native,hard/gravel	1	ETURNS TO UATV: ENDS IN FIELD	no	no	1.23
080905 ROAD01.cor	und unclass drivable	4wd auto	native,hard/gravel	4	BRUSHED IN	yes	yes,grown in	4
080905 ROAD02.cor	ucnu uncl not useabl	no motorized use	native,soil/soft	1	SKI TRAILS KEEP GOING		yes	0.03
080905 ROAD03.cor	ucnu uncl not useabl	no motorized use	native,soil/soft	4	HARD TO FIND	yes	yes,grown in	7
080905 ROAD04.cor	atvt user atv trail	atv only	native,soil/soft	1	GROWN IN W/ YOUNG ASPEN	yes	yes,grown in	0.11
080905 ROAD04.cor	atvt user atv trail	atv only	native,soil/soft	4	USER CREATED FALL USE	yes	no	0.07
080905 ROAD04.cor	uatv unclass atv use	atv only	native,soil/soft	1	START OF OLD ROAD BED	yes	yes,grown in	0.12
081005	und unclass	4wd auto	native,hard/gravel	4	LANDING	no	no	2

<b>Datafile (Road Line)</b>	<b>Road Class</b>	<b>Current Use</b>	<b>Surface Type</b>	<b>Prism</b>	<b>Comment</b>	<b>Close to Motorized</b>	<b>Continues?</b>	<b>Length (Km)</b>
ROAD01.cor	drivable		vel	4				2
081005	uatv unclass atv use	atv only	native,hard/gra vel	1	ENDS IN A LANDING	no		0.41
ROAD02.cor	und unclass drivable	4wd auto	native,hard/gra vel	4		no	yes	7
081005	uatv unclass atv use	atv only	native,hard/gra vel	1	DEFINITE ATV USE	yes	yes,grown in	0.04
ROAD02.cor	und unclass drivable	4wd auto	native,hard/gra vel	4			yes	1
081005	ucnu uncl not useabl	no motorized use	native,soil/soft	1	GROWN IN	yes	yes,grown in	0.21
ROAD03.cor	und unclass drivable	atv only	native,hard/gra vel	4				7
081005	ucnu uncl not useabl	no motorized use	native,soil/soft	1	GROWN IN	yes	yes,grown in	0.13
ROAD03.cor	und unclass drivable	atv only	native,hard/gra vel	4				5
081005	ucnu uncl not useabl	no motorized use	native,soil/soft	1	GROWN IN	yes	yes,grown in	0.02
ROAD05.cor	und unclass drivable	atv only	native,hard/gra vel	4	SEE DATA SHEET	no	yes	3
081105	ucnu uncl not useabl	no motorized use	native,soil/soft	1	GROWN IN	yes	yes,grown in	0.09
ROAD01.cor	und unclass drivable	4wd auto	native,soil/soft	4				9
081105	ucnu uncl not useabl	no motorized use	native,soil/soft	1	GROWN IN	yes	yes,grown in	0.25
ROAD02.cor	uatv unclass atv use	atv only	wetland	0	ROAD STARTS FROM A LOGGING LANDING	no	yes	1
081105	ucnu uncl not useabl	no motorized use	native,soil/soft	8	ATV USE IN WETLAND	no	yes,wet/flooded	0.04
ROAD03.cor	und unclass drivable	4wd auto	native,hard/gra vel	8				6
081405	ucnu uncl not useabl	no motorized use	native,soil/soft	1	ROAD ENDS	yes	no	0.06
ROAD01.cor	und unclass drivable	atv only	native,hard/gra vel	0				3
081405	ucnu uncl not useabl	no motorized use	native,soil/soft	8	SEE DATA SHEET	yes	no	0.24
ROAD02.cor	und unclass drivable	atv only	native,hard/gra vel	8				8
081405	ucnu uncl not useabl	no motorized use	native,soil/soft	1	BRUSHED IN	yes	no	0.06
ROAD03.cor	uatv unclass atv use	atv only	native,hard/gra vel	0				5
081405	ucnu uncl not useabl	no motorized use	native,soil/soft	1	BRUSHED IN ,ROAD ENDS	no	no	0.47
ROAD04.cor	uatv unclass atv use	atv only	native,hard/gra vel	0				7
081405	ucnu uncl not useabl	no motorized use	native,soil/soft	8	BRUSHED IN ,ROAD ENDS	no	no	0.43
ROAD05.cor	uatv unclass atv use	atv only	native,hard/gra vel	8				9
081405	ucnu uncl not useabl	no motorized use	native,soil/soft	1	BRUSHED IN ,ROAD ENDS	no	no	0.50
ROAD06.cor	uatv unclass atv use	atv only	native,hard/gra vel	8				7
081405	ucnu uncl not useabl	no motorized use	native,soil/soft	1	BRUSHED IN ,ROAD ENDS	no	no	0.16
ROAD07.cor	uatv unclass atv use	atv only	native,hard/gra vel	0	URNS INTO FOOT TRAIL AFTER BLIND	no	yes	1
081405	ucnu uncl not useabl	no motorized use	native,soil/soft	1	URNS INTO FOOT TRAIL AFTER BLIND	no	yes	0.05
ROAD08.cor	uatv unclass atv use	atv only	native,hard/gra vel	4	ACCESS TO OVA LAKE	no	no	2
081405	ucnu uncl not useabl	no motorized use	native,soil/soft	8	ACCESS TO OVA LAKE	no	no	0.38
ROAD09.cor	uatv unclass atv use	atv only	native,hard/gra vel	8				1
081405	ucnu uncl not useabl	no motorized use	native,soil/soft	1	ACCESS TO OVA LAKE	no	no	0.38
ROAD09.cor	uatv unclass atv use	atv only	native,hard/gra vel	8				1
081405	ucnu uncl not useabl	no motorized use	native,soil/soft	1	POSSIBLY OLD ROAD GRADE	yes	yes,grown in	0.07
ROAD10.cor	und unclass drivable	4wd auto	native,hard/gra vel	4				5

<b>Datafile (Road Line)</b>	<b>Road Class</b>	<b>Current Use</b>	<b>Surface Type</b>	<b>Prism</b>	<b>Comment</b>	<b>Close to Motorized</b>	<b>Continues?</b>	<b>Length (Km)</b>
081405	uatv unclass atv use	atv only	native,hard/gravel	1	SEE DATA SHEET	no	no	0.45
ROAD11.cor				0				8
081505	ucnu uncl not useabl	no motorized use	native,hard/gravel	1	FOOT TRAIL/ANIMAL PATH	no	no	0.46
ROAD10.cor				4				2
081505	und unclass drivable	all autos	crushed gravel	1		no	no	0.29
ROAD11.cor				4				3
081505	atvt user atv trail	atv only	native,hard/gravel	1	Network of ATV trails. Need more survey work in this area.	no	no	0.93
ROAD12.cor				0				9
081505	uatv unclass atv use	atv only	native,hard/gravel	1		no	no	0.43
ROAD12.cor				4				9
081505	und unclass drivable	4wd auto	native,hard/gravel	1	LEADS TO WETLAND	no	no	0.19
ROAD12.cor				4				6
081505	und unclass drivable	all autos	pit gravel	1	PRIVATE ROAD	no	no	0.06
ROAD13.cor				4				0
081505	und unclass drivable	all autos	crushed gravel	1	COMMUNITY CTR ROAD	no	no	0.48
ROAD14.cor				4				0
081605	ucnu uncl not useabl	no motorized use	native,hard/gravel	1	ROAD BRUSHED IN	yes	yes,grown in	0.06
ROAD02.cor				4				6
081605	ucnu uncl not useabl	no motorized use	native,hard/gravel	1	ROAD BRUSHED IN	yes	yes,grown in	0.02
ROAD03.cor				4				6
081605	atvt user atv trail	atv only	native,soil/soft	1	LEADS TO GRAVEL PIT	no	no	0.08
ROAD04.cor				0				5
081605	und unclass drivable	4wd auto	native,hard/gravel	6		no	yes,grown in	0.07
ROAD05.cor								1
081605	ucnu uncl not useabl	no motorized use		5	BRUSHED IN	yes	yes,grown in	0.05
ROAD05.cor								1
081605	uatv unclass atv use	atv only	pit gravel	5		no	no	0.03
ROAD06.cor								2
081605	und unclass drivable	all autos	pit gravel	1		no	yes	0.04
ROAD06.cor				4				6
081605	und unclass drivable	4wd auto	pit gravel	8	PERIMETER OF CLEARCUT	no	yes	0.23
ROAD07.cor								6
081605	uatv unclass atv use	atv only	pit gravel	1	TIMBER SALE	no	no	0.11
ROAD08.cor				4				7
081605	uatv unclass atv use	atv only	native,hard/gravel	1		no	yes,grown in	0.03
ROAD09.cor				4				3
081605	ucnu uncl not useabl	no motorized use	native,hard/gravel	1	BRUSHED IN ALDER-THICK	yes	no	0.04
ROAD10.cor				4				0
081605	und unclass	4wd auto	pit gravel	1	NORTH FORK SEE DATA SHEET	no	yes,grown in	0.26

<b>Datafile (Road Line)</b>	<b>Road Class</b>	<b>Current Use</b>	<b>Surface Type</b>	<b>Prism</b>	<b>Comment</b>	<b>Close to Motorized</b>	<b>Continues?</b>	<b>Length (Km)</b>
ROAD11.cor	drivable			4				1
081605	und unclass	4wd auto	pit gravel	1	DIT	no	no	0.09
ROAD11.cor	drivable			4				4
081605	uatv unclass atv	atv only	native,hard/gravel	1	BRUSHED IN	yes	no	0.02
ROAD12.cor	use			4				8
081605	und unclass	all autos	pit gravel	1		no	yes	0.11
ROAD12.cor	drivable			4				6
081605	und unclass	4wd auto	pit gravel	1	LEADS TO GRAVEL PIT	no	no	0.10
ROAD13.cor	drivable			4				8
081605	und unclass	all autos	pit gravel	1	MAIN GRAVEL RD TO PIT OFF 369	no	no	0.23
ROAD13.cor	drivable			8				3
081605	und unclass	all autos	pit gravel	1	PRIVATE DRIVE	no	no	0.25
ROAD14.cor	drivable			4				3
081605	und unclass	all autos	pit gravel	1	PRIVATE DRIVE	no	no	0.50
ROAD15.cor	drivable			4				5
081605	und unclass	4wd auto	native,hard/gravel	6	BRUSHED IN ALDER-THICK IN PLACES	no	no	0.52
ROAD16.cor	drivable			7				7
081605	uatv unclass atv	atv only	native,soil/soft	1		no	yes	0.24
ROAD20.cor	use			4				0
081605	ucnu uncl not	no motorized	native,soil/soft	1	FOOT TRAIL/ANIMAL PATH	yes	no	0.30
ROAD21.cor	useabl	use		0				2
081605	ucnu uncl not	no motorized	native,soil/soft	1	FOOT TRAIL/ANIMAL PATH	yes	yes,grown in	0.35
ROAD22.cor	useabl	use		4				1
081605	uatv unclass atv	atv only	native,soil/soft	1		no	no	0.08
ROAD23.cor	use			4				3
081605	uatv unclass atv	atv only	native,soil/soft	1		no	yes	0.69
ROAD24.cor	use			0				1
081605	und unclass	all autos	native,hard/gravel	1		no	no	0.12
ROAD25.cor	drivable			4				7
081605	und unclass	all autos	native,hard/gravel	1		no	no	0.07
ROAD26.cor	drivable			4				2
081605	ucnu uncl not	no motorized	native,soil/soft	1	NO USE	yes	yes,grown in	0.02
ROAD27.cor	useabl	use		4				8
081605	uatv unclass atv	atv only	native,hard/gravel	1		no	no	0.95
ROAD28.cor	use			4				0
081605	ucnu uncl not	no motorized	native,soil/soft	1		yes	no	0.02
ROAD29.cor	useabl	use		0				6
081605	ucnu uncl not	no motorized	native,hard/gravel	1	BURMED/NO USE	yes	no	0.21
ROAD30.cor	useabl	use		4				7

<b>Datafile (Road Line)</b>	<b>Road Class</b>	<b>Current Use</b>	<b>Surface Type</b>	<b>Prism</b>	<b>Comment</b>	<b>Close to Motorized</b>	<b>Continues?</b>	<b>Length (Km)</b>
081605 ROAD31.cor	und unclass drivable	4wd auto	native,soil/soft	1 4		no	yes	0.08 1

## Road Project Data Dictionary for Trimble GPS Units

"roads", Dictionary  
"road", line, "", 15, meters, Code  
  "road number", filename, normal, normal  
  "road class", menu, normal, normal  
    "und unclass drivable"  
    "uatv unclass atv use"  
    "atvt user atv trail"  
    "ucnu uncl not useabl"  
    "deco decommissioned"  
    " cs seasonal"  
    "cw winter"  
    "ca all season"  
    "unk unknown"  
  "current use", menu, normal, normal  
    "all autos"  
    "4wd auto"  
    "atv only"  
    "no motorized use"  
  "surface type", menu, normal, normal  
    "crushed gravel"  
    "pit gravel"  
    " native,hard/gravel"  
    "native,soil/soft"  
    "wetland"  
  "road prism width", numeric, 0, 5, 50, 14, normal, "feet", normal  
  "comment", text, 60, normal, normal  
  "close to motorized?", menu, normal, normal  
    "yes"  
    "no", default  
  "road continues?", menu, normal, normal  
    "no", default  
    "yes"  
    "yes,wet/flooded"  
    "yes,grown in"  
    "yes, non-fed. land"  
  
"culvert", point, "", 1, seconds, 1, Code  
  "comment", text, 30, normal, normal  
  
"barrier", point, "", 1, seconds, 1, Code  
  "barrier type", menu, normal, normal  
    "berm"  
    "boulders"  
    "gate"  
  "comment", text, 30, normal, normal  
  
"mudhole", point, "", 1, seconds, 1, Code  
  " length in feet", numeric, 0, 5, 5000, 5, normal, normal  
  "comment", text, 30, normal, normal  
  
"gravel pit", point, "", 1, seconds, 1, Code  
  "comment", text, 30, normal, normal  
  
"start point", point, "for roads <150 ft.", 1, seconds, 1, Code  
  "comment", text, 30, normal, normal

## Whyte Project Area September 2005

<b>WHYTE PROJECT AREA - ROAD CLASSIFICATION DISTANCE TOTALS (from GIS)</b>			
<b>Class</b>	<b>Class Description</b>	<b>Km</b>	<b>Miles</b>
RR	Rail Road	275.0	171.9
ca	Classified All Season Road	104.9	65.5
cs	Classified Seasonal Road	138.4	86.5
cw	Classified Winter Use	53.1	33.2
deco	Decommissioned (was uc)	143.5	89.7
nj	Non-jurisdictional	108.0	67.5
nja	?	2.3	1.4
njat	Non-jurisdictional - ATVs are using	27.0	16.9
njc	Non-jurisdictional - Closed	199.9	124.9
njd	Non-jurisdictional - May be maintained	52.7	33.0
njtr	Non-jurisdictional - Trail	2.1	1.3
su	Special Use Permit Road	15.6	9.7
su-t	Special Use Permit Road - Temporary	0.7	0.4
tr	Trails (system trails)	26.3	16.4
uatv	Drivable by an ATV or smaller	33.7	21.1
uc	Unclassified	1.8	1.1
und	Unclassified - Drivable by Hwy Licensed Vehicles	36.9	23.0
<b>unk</b>	<b>Unknown</b> (unknown type 1)	55.7	<b>34.8</b>
	<b>No classification listed in travel_routes.aat</b> (unknown type 2)	82.1	<b>51.3</b>
<b>Total distance of roads within the Whyte Project Area*</b>			<b>849.6</b>
<i>* Data Source: road_arcs_6_6_2005.shp provided to SNF Monitoring by Tim Catton</i>			

**Table 1. Whyte Project Area – Road Classification Totals from GIS Analysis.**

This GPS survey was conducted using a Trimble Geo Explorer containing a general use roads data dictionary developed for use on the LaCroix district (see Appendix C). A "line-feature" was created in the Trimble's data dictionary to map actual road routes and generated GPS coordinates, shape, and distance of each road surveyed. Waypoints were taken at the start of each road, at the end, and at any significant feature (see above) and stored within the rover file on the Trimble. The road line-feature with the data dictionary specifically characterized the surveyed road based on apparent use, surface material, and road prism width. A classification and road closure recommendation was made according to predetermined criteria.

**Classifications used are defined as follows:**

**UND:** Unclassified-Drivable by highway licensed vehicles

**UATV:** Unclassified-ATV's are using

**ATVT:** A user developed ATV trail

**UCNU:** Unclassified-not useable by any motorized vehicle

Data Sheets (see attached) were completed at each sight including the file name (in the Trimble data dictionary), the road number that the unknown road intersects, photo number and description, and any additional comments (see Appendix D).

### **Data creation and filing scheme:**

A rover file on the GPS was created for each unknown road surveyed and used the following naming convention: MMDDYY ROAD## (i.e. 070605 ROAD01). This file name corresponds with information on the data sheets, folders containing pictures for each road and GIS shapefiles generated from the GPS data, and can be considered a unique identifier for each road surveyed. The following shapefiles were generated from this work and can be found on the data CD that accompanies this report and also on K:\nr\monitoring\Mid Levels-NEPA Projects\Whyte\Road Survey Data:

**road\_gps.shp** – Road line feature with attributes.

**start\_po.shp** – Start point of unknown road surveyed with attributes.

**barrier.shp** – Point feature of berm or other type of road blockage encountered.

**mudhole.shp** – Point feature of wet areas encountered along roads surveyed.

**gravel\_p.shp** – Point feature for gravel pits encountered.

**no\_road.shp** – Point feature digitized in office and placed over roads unable to locate in the field.

Attribute tables for start points and road line features are included in the Appendix of this report.

## **ROADS SURVEYED**

Many varying conditions were found while conducting field surveys for unknown roads within the Whyte Project Area. There were many instances in which roads could not be accessed or were not located. Roads we did encounter received different levels (or types) of motorized use, from no use at all, to trails supporting only foot traffic or animal use, to those that were capable of supporting all types of motorized vehicles.

### **I. No Road Located**

These refer to any unknown mapped road that was not located while conducting field surveys. No waypoint was taken for these particular roads and was annotated on the map as DNE (Does Not Exist). Many of the unknown roads in this project area were continuous, or adjacent, from decommissioned roads that were brushed in and not traversable, or roads that could not be accessed due to vegetative regeneration. Other unknown roads that we could not access were continuous and or adjacent to winter use only type trails. These roads were typically found with standing water, or water just below the surface and possessing hydric soils, peat, and vegetation patterns. In this case the unknown road was marked on the map with CNA (Could Not Access) and recommended for removal from the final map. However, Unknown roads adjacent or continuous from decommissioned roads may yet still exist. Roads not located totaled 10.7 miles (derived from GIS data layers), of which, 8.2 miles were Forest Service ownership, and 2.5 miles were of non-Forest Service ownership.

## **II. Unclassified-not useable (UCNU)**

These are roads receiving no motorized use but still possess a road prism and have at one time supported motorized vehicle use. Many of these roads were roads that had been effectively closed with barriers such as earthen berms or boulders, or have naturally vegetated in with surrounding flora. Through our inspections, we surveyed 3.1 miles receiving no detectable motorized use.



083005 Road B1- Brushed In



082405 Road 2A- Brushed In

## **III. Unknown Roads with ATV Use (UATV)**

These are unknown roads that possess a defined road prism and receive motorized use only by ATVs. They may have existed as a traversable road or logging road at one time. We measured 21.68 miles of road that appeared to be receiving some ATV use. Notes were made if the road passed through a wetland by taking a waypoint and recording the length of the disturbed area. Also noted were areas that were braided or rutted to avoid wetlands or barriers. Any other unusual uses (such as hunting cabins) or abuses (like destroyed bridges) were also noted.



083005 Road 01- ATV Use



081805 Road 20- ATV Use

**IV. Unknown Roads with 4wd Vehicle Use**

These roads were determined as being capable of supporting travel by a 4wd vehicle (OHVs). Again, any abuses of the road or resources as well as unusual sights were noted. Unknown roads we visited totaled 6.73 miles supporting, or capable of supporting use by 4wd vehicles.



082205 Road 3B- 4WD Use



081805 Road 20- 4WD Use

**V. Unknown Roads with use by All Motorized Vehicles (UND).**

These roads were found to be supporting use by all motorized vehicles and accounted for 4.4 miles of road.



083105 Road 40- All Vehicle Use



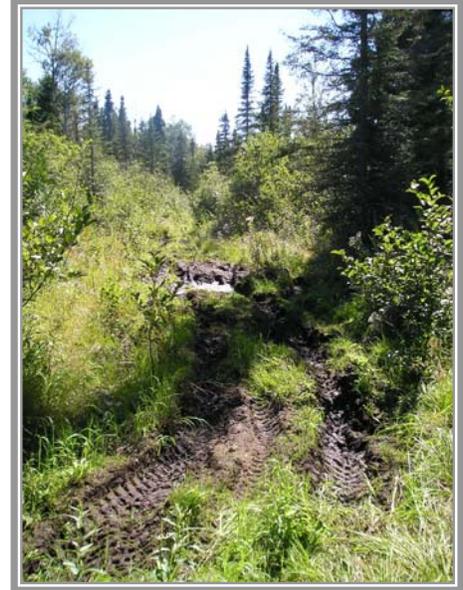
081705 Road 02- All Vehicle Use

**VI. User Created ATV Trail (ATVT)**

An ATVT, or user created ATV trail, is a mapped unknown road that was found to not contain a road prism and appeared to have been created by an ATV rider to gain access to private property, a stream, lake or hunting stand. We located and measured 7.78 miles of user created trails in the Whyte project area. Also counted in this category were roads where ATV defeated a berm or other road decommissioning device.



082405 Road 2A- User Created



082305 Road 04- User Created

**VII. UND ATV Use Only:**

These roads are mapped unknown roads that contain a road prism and appear to be used only by ATVs, although these roads may be capable of supporting 4WD vehicles as well. In some cases these were snowmobile or other designated trails. These road types accounted for 21.0 miles of the roads we surveyed.



082305 Road 05-UND ATV Use Only



081805 Road 05-UND ATV Use Only (Left)

## Summary of Findings and Recommendations

At the time of this report, all accessible and/or existing unknown roads within the Whyte Project Area were surveyed. Table 2 summarizes types of roads encountered and associated miles. We surveyed 41 miles of unknown roads. Those roads not surveyed were deemed to be inaccessible, no longer existing, or belonging to ownership, other than the U.S. Forest Service.

<b>WHYTE ROAD SURVEY ACCOMPLISHMENTS</b>		
<b>Survey Classification</b>	<b>Current Use</b>	<b>Miles</b>
atvt user atv trail	atv only	7.78
uatv unclass atv use	atv only	21.00
uatv unclass atv use	no motorized use	0.68
ucnu uncl not useable	no motorized use	0.42
und unclass drivable	4wd auto	6.73
und unclass drivable	all autos	4.40
<b>Total Miles Surveyed</b>		<b>41.00</b>
<b>Total Distance of Roads Classed as Unknown</b>		<b>86.10</b>

**Table 2.** Within the Whyte Project area, monitoring Personnel surveyed 41 miles of the potential 86.1 miles of unknown roads. Those miles not surveyed were deemed to be inaccessible, no longer existing, or belonging to ownership, other than the U.S. Forest Service.

<b>Table 3. Findings and recommendations based on survey and GIS analysis</b>	<b>Miles</b>
1. Classify as nj (non-jurisdictional)	15.1
2. Classify as appropriate for FS ownership)	3.0
3. Could not access (CNA) on FS ownership	9.0
4. Could not access (CNA) on non-FS ownership	1.5
5. Road not found (RNF) on FS ownership	8.2
6. Road not found (RNF) on non-FS ownership	2.5
7. Did not survey	6.9
8. Unknown roads surrounded by decommissioned roads on FS ownership	3.7
9. Unknown roads surrounded by decommissioned roads on non-FS ownership	4.2
10. Completely brushed-in. Unusable by any motorized vehicle	3.1

Table 3 presents a summary of roads types encountered and areas of consideration we believe are pertinent to management decisions. Recommendations are as follows:

### **1. Classify as nj (non-jurisdictional)**

These are unknown road segments that are surrounded by and connected to roads classed as nj (non-jurisdictional occur on non-FS ownership). These roads may simply need to be updated in the GIS. This analysis was based on visual inspection of a GIS layout and summation of road lengths.

### **2. Classify as appropriate for FS ownership**

These are unknown road segments that are surrounded to and connected to roads with a classification in the GIS and may simply need to be updated. This analysis was based on visual inspection of a GIS layout and summation of road lengths.

### **3. Could not access (CNA) on FS ownership**

These are unknown road segments that could not be reached because the travel route either became impassable by any type of motorized vehicle, or access was blocked do to gates, streams, or unstable bridges. A point feature (CNA) shapefile was created based on the field notes and digitized in the approximate location. This analysis was based on field notes, visual inspection of a GIS layout and summation of road lengths.

#### **4. Could not access (CNA) on non-FS ownership**

Same explanation as 3, but occur on non-Forest Service land ownership.

#### **5. Road not found (RNF) on FS ownership**

The unknown road segment was not located. Most of these situations may be the result of the unknown road being completely brushed-in or not apparent from the access road. A point feature (RNF) shapefile was created based on the field notes and digitized in the approximate location. This analysis was based on field notes, visual inspection of a GIS layout and summation of road lengths.

#### **6. Road not found (RNF) on non-FS ownership**

Same explanation as 5, but occur on non-Forest Service land ownership.

#### **7. Did not survey**

These are roads that did not get surveyed due to lack of time and logistics.

#### **8. Unknown roads surrounded by decommissioned roads on FS ownership**

These are unknown road segments surrounded by and/or accessed only by decommissioned roads and may be in some state of decommissioning. This analysis was based on visual inspection of a GIS layout and summation of road lengths.

#### **9. Unknown roads surrounded by decommissioned roads on non-FS ownership**

Same explanation as 8, but occur on non-Forest Service land ownership.

#### **10. Completely brushed-in. Unusable by any motorized vehicle**

These are unknown road segments that were described in the field notes as "brushing-in" and becoming impassible by any type of motor vehicle. This analysis was done by summing the remaining road length after the point of brushing-in.

### **Logistical Requirements**

This project required 60 person days to complete from start to finish. This time does not include office and field training which varied from person to person. Days were spent collecting data in the field and downloading Trimble GPS data and photos. A considerable portion of this time was used traveling to and from and within the project area. Also, an appreciable amount of time was used attempting to locate roads no longer existing as well as encountering roads not on data layers used. Approximately 12 person days were spent in the office proofing, downloading, and merging data into GIS layers to generate new maps. Typically, 1 truck and 2 people worked together. On several occasions, 2 groups of 2 people were in the field. This entire project was completed by driving and walking. Reductions in person days to complete a similar sized project are very realistic. Utilizing bikes and ATVs could both reduce the time in the field and increase the areas covered. For safety reasons and unfamiliarity of the area, monitors worked in pairs.

**Appendix A. Roads Not Found (see GIS or printed map for locations)**

<b>RNF #</b>	<b>Comments</b> (see GIS or printed map for locations)
1	Could not locate this section
2	Could not find. May be brushed in.
3	Brushed in. No use
4	Could not find.
5	Could not find.
6	Brushed in?
7	Brushed in?
8	Either did not do or did not find.
9	Could not find, may be brushed in completely.
10	Could not find.
11	Could not find.
12	Could not find. May be completely brushed in.
13	Could not find. May be completely brushed in.
14	Could not find.
15	Could not find.
16	Could not find.
17	Could not find.
18	Could not find.
19	Could not find.
20	Could not find.
21	Could not find.
22	Could not find. May be brushed in.
23	Could not find. May be brushed in.
24	Could not find May be brushed in.
25	Could not find, may be brushed in.
26	Could not find, may be brushed in.
27	Could not find, may be brushed in.
28	Could not find.
29	Could not find.
30	Could not find.
31	Could not find.
32	Could not find.
33	may be digitized in wrong spot or brushed in.
34	Could not get to. Access brushes in.

**Appendix B. Could Not Access (see GIS or printed map for locations)**

<b>CNA #</b>	<b>Comments</b>
1	Could not reach this unknown road. Access difficult - brushed in.
2	Could not access unknown road after this point. Not accessible by ATV.
3	Gate, No ATV use after gate.
4	Could not walk after here. Did not get to unknown road.
5	Gate "Private Property No Trespassing"
6	Could not access because of gate at CNA point #5
7	Could not access because of gate at CNA point #5
8	Could not access because of gate at CNA point #5

<b>CNA #</b>	<b>Comments</b>
9	GATE - ATV use only after gate.
10	Could not access because of gate
11	could not access because of gate
12	Could not access.
13	Could not access.
14	Unstable bridge. Could not cross and thus unable to access unknown roads past this point.
15	Could not find a way to access.
16	River crossing, but no bridge. Could not access unknown roads past this point.
17	Washed out bridge.
18	Road completely brushed in. Unable to access unknown section.
19	Could not reach this road.
20	This road not accessible from FR913.
21	Brushes in. ATV use only.
22	Road brushes in.
23	Stream crossing. No ATV use.
24	Road brushes in.
25	Winter use? Wet area. Unable to access unknown roads in this area.
26	Decommissioned road. Brushed in. Unable to reach unknown road.
27	Could not reach this road.
28	Could not access this road - winter use?. Classify as nj winter use?
29	No Trespassing Sign

### Appendix C. Surveyed Road Attribute Data.

DATAFILE	NUMBER	ROAD CLASS	CURRENT USE	SURFACE	COMMENT	CONTINUES?	MILES
081705 ROAD01.cor	1	und unclass drivable	4wd auto	native,hard/gravel	DEAD ENDS -TIBER SALE	no	0.09
081705 ROAD02.cor	2A	uatv unclass atv use	atv only	native,hard/gravel	NOT ON FS LAND	yes	0.03
081705 ROAD02.cor	2	und unclass drivable	all autos	pit gravel	NO CHANGE FROM ACCESS RD	no	0.10
081705 ROAD03.cor	3	und unclass drivable	all autos	native,hard/gravel	LEADS TO PRIVATE DR - R. KRECH,SR.	yes, non-fed. land	0.02
081705 ROAD04.cor	4	und unclass drivable	all autos	pit gravel	SEE DATA SHEET	yes	1.08
081705 ROAD20.cor	20	uatv unclass atv use	atv only	native,soil/soft	OPENS TO TIMBERSTAND	no	0.14
081705 ROAD20.cor	20A	uatv unclass atv use	atv only	native,soil/soft		no	0.40
081705 ROAD20.cor	20B	uatv unclass atv use	atv only	native,soil/soft		yes,grown in	0.57
081705 ROAD20.cor	20C	uatv unclass atv use	atv only	native,soil/soft		no	0.77
081705 ROAD21.cor	21	und unclass drivable	4wd auto	native,hard/gravel		no	1.65
081805 ROAD01.cor	1	uatv unclass atv use	atv only	native,hard/gravel	SIGNED AS ATV BRANCHES INTO WOODS FROM POWER LINE	no	0.48
081805 ROAD02.cor	2	uatv unclass atv use	atv only	native,hard/gravel	POWER LINE SNOWMOBILE TRAIL	yes	0.03
081805 ROAD03.cor	3	und unclass drivable	all autos	native,hard/gravel	WILDHURST PARKING LOT?	no	0.06
081805 ROAD04.cor	4	und unclass drivable	all autos	pit gravel	WILDHURST LODGE. RD		0.25
081805 ROAD05.cor	5	und unclass drivable	all autos	pit gravel	TO DNR SIGN - ATV+SNOWMBL AND FIRE NO 4804	yes	0.09
081805 ROAD06.cor	6	und unclass drivable	all autos	pit gravel	ENDS AT PRIVATE PROP	no	0.28
081805 ROAD07.cor	7	uatv unclass atv use	atv only	native,hard/gravel	SHOULDER OVERGROWN AT EAST END	yes	0.80
081805 ROAD07.cor	7	und unclass drivable	4wd auto	native,hard/gravel	ENDS AT BAPTISM RVR	yes	0.21
081805 ROAD10.cor	10	und unclass drivable	all autos	crushed gravel	PRIVATE DRIVE 7275	no	0.12
081805 ROAD20.cor	21	und unclass drivable	4wd auto	native,hard/gravel		no	2.36
081805 ROAD20.cor		und unclass drivable	all autos	native,hard/gravel	Ends at wetland. Not drivable after this point.	yes,wet/flooded	0.01
081805 ROAD21.cor	21	und unclass drivable	all autos	native,hard/gravel		yes, non-fed. land	0.42
081805 ROAD22.cor	22	uatv unclass atv use	atv only	native,soil/soft		yes, non-fed. land	0.65
082205 ROAD01.cor	01	uatv unclass atv use	atv only	wetland		yes,grown in	0.14
082205 ROAD02.cor	02	ucnu uncl not useabl	no motorized use	native,soil/soft	HISTORIC USE	no	0.04
082205 ROAD03.cor	03B	und unclass drivable	4wd auto	native,soil/soft	FOLLOWS RR TRACKS	no	0.07
082205 ROAD03.cor	03A	und unclass drivable	all autos	native,hard/gravel	ENDS AT RR TRACKS/BRUSHED IN	yes,grown in	0.52
082205 ROAD04.cor	04	ucnu uncl not useabl	no motorized use		RR TRACK	no	0.09
082205 ROAD05.cor	05	ucnu uncl not useabl	no motorized use	native,soil/soft	EFFECTIVE BERM/FOOT PATH ONLY	yes,grown in	0.13
082205 ROAD06.cor	06	und unclass drivable	all autos	pit gravel	STARTS AT GATE	yes, non-fed. land	0.55
082205 ROAD07.cor	07	und unclass drivable	all autos	native,hard/gravel		yes	0.13
082205 ROAD08.cor	08	uatv unclass atv use	atv only	native,soil/soft	EDGE OF TIMBERSTAND	yes	0.29
082205 ROAD09.cor	09	und unclass drivable	4wd auto	native,soil/soft		no	0.04
082205 ROAD10.cor	10	und unclass drivable	all autos	pit gravel	ENDS AT PRIVATE GATE	yes	0.18
082205 ROAD11.cor	11	und unclass drivable	all autos	pit gravel	DRIVEWAY	yes, non-fed. land	0.08

DATAFILE	NUMBER	ROAD CLASS	CURRENT USE	SURFACE	COMMENT	CONTINUES?	MILES
082205 ROAD12.cor	12	und unclass drivable	all autos	pit gravel		yes, non-fed. land	0.18
082205 ROAD13.cor	13	uatv unclass atv use	atv only	native,soil/soft		no	0.11
082305 ROAD01.cor	1	und unclass drivable	4wd auto	native,hard/gravel	ATV ONLY AT STREAM	yes,wet/flooded	0.21
082305 ROAD02.cor	2	uatv unclass atv use	no motorized use	native,hard/gravel		no	0.32
082305 ROAD03.cor	3	ucnu uncl not useabl	no motorized use	native,hard/gravel	ALL BRUSHED IN	no	0.01
082305 ROAD04.cor	4	atvt user atv trail	atv only	wetland	MOST OF ROAD IS WETLAND, DIDNT WALK ALL OF IT	yes,wet/flooded	0.54
082305 ROAD04.cor	4A	atvt user atv trail	atv only	native,soil/soft	LEADS TO BEAR BLIND	no	0.06
082305 ROAD05.cor	5	und unclass drivable	4wd auto	pit gravel	MAY BE PART OF SNOWMOBILE TRAIL	yes	0.18
082305 ROAD06.cor	6	und unclass drivable	all autos	pit gravel	PRIVATE DRIVE	yes	0.02
082405 ROAD02.cor	2D	atvt user atv trail	atv only	native,soil/soft	URNS INTOFOOT PATH	yes,grown in	0.10
082405 ROAD02.cor	2	uatv unclass atv use	atv only	native,hard/gravel	ENTERS WETLAND AND TURNS TO FOOT PATH	yes,wet/flooded	0.76
082405 ROAD02.cor	2C	uatv unclass atv use	atv only	native,hard/gravel	NOT REALLY USED, MAYBE GOES TO A LAKE	yes,grown in	0.32
082405 ROAD02.cor	2E	uatv unclass atv use	atv only	native,hard/gravel	DID NOT WALK ALL OF IT	yes	0.08
082405 ROAD02.cor	2A	ucnu uncl not useabl	no motorized use	native,hard/gravel	BRUSHED IN	yes,grown in	0.02
082405 ROAD02.cor	2B	ucnu uncl not useabl	no motorized use	native,hard/gravel	BRUSHED IN	yes,grown in	0.02
082505 ROAD01.cor	01	atvt user atv trail	atv only	native,soil/soft		no	0.03
082905 ROAD01.cor	01	atvt user atv trail	atv only	native,soil/soft	WET AREAS	no	0.22
083005 ROAD01.cor	1	uatv unclass atv use	atv only	native,soil/soft	SEE DATA SHEET	yes	1.33
083005 ROAD01.cor	1A	uatv unclass atv use	atv only	native,hard/gravel	SEE DATA SHEET	no	0.03
083005 ROAD01.cor	1B	uatv unclass atv use	atv only	native,hard/gravel	SEE DATA SHEET	no	0.06
083005 ROADA.cor	A	uatv unclass atv use	atv only	native,hard/gravel		yes,grown in	0.55
083005 ROADA.cor	B1	ucnu uncl not useabl	no motorized use	native,soil/soft		yes,grown in	0.12
083005 ROADC.cor	C	uatv unclass atv use	atv only	native,soil/soft		yes,grown in	0.14
083105 ROAD40.cor	40	und unclass drivable	all autos	pit gravel		yes	0.32
083105 ROAD41.cor	41	uatv unclass atv use	atv only	native,hard/gravel		no	1.42
083105 ROAD41.cor	41A	uatv unclass atv use	atv only	native,soil/soft		no	0.22
083105 ROAD41.cor	41B	uatv unclass atv use	atv only	native,soil/soft		no	0.02
083105 ROAD41.cor	41C	uatv unclass atv use	atv only	wetland		no	0.46
083105 ROAD41.cor	41D	uatv unclass atv use	atv only	native,soil/soft		no	0.06
083105 ROAD42.cor	42	uatv unclass atv use	no motorized use	pit gravel		yes,grown in	0.13
083105 ROADA.cor	A1	und unclass drivable	4wd auto	native,hard/gravel		no	0.08
083105 ROADB.cor	B3	atvt user atv trail	atv only	native,soil/soft		no	0.29
083105 ROADB.cor	B2	uatv unclass atv use	atv only	native,soil/soft		no	2.25
083105 ROADC.cor	C1	und unclass drivable	4wd auto	native,soil/soft		yes	0.89
090805 ROAD11.cor	11	uatv unclass atv use	atv only	wetland		yes, non-fed. land	0.32
090805 ROAD12.cor	12	uatv unclass atv use	atv only	wetland		no	0.10
090805 ROAD20.cor	20	uatv unclass atv use	atv only	wetland		no	0.18
090805 ROAD21.cor	21	uatv unclass atv use	atv only	wetland		yes	0.04
090805 ROAD22.cor	22	atvt user atv trail	atv only	native,soil/soft	ENDS AT LAKE	no	0.03
090805 ROAD23.cor	23A	atvt user atv trail	atv only	wetland		no	0.03

DATAFILE	NUMBER	ROAD CLASS	CURRENT USE	SURFACE	COMMENT	CONTINUES?	MILES
090805 ROAD23.cor	23B	uatv unclass atv use	atv only	native,hard/gravel		yes,wet/flooded	1.11
090805 ROAD24.cor	24	atvt user atv trail	atv only	native,soil/soft		no	0.24
090805 ROAD25.cor	25	atvt user atv trail	atv only	native,soil/soft		no	0.41
091205 ROAD11.cor	12	uatv unclass atv use	atv only	native,soil/soft		yes, non-fed. land	0.09
091205 ROAD11.cor	1A	uatv unclass atv use	atv only	native,soil/soft		yes, non-fed. land	0.20
091305 ROAD01.cor	01	uatv unclass atv use	atv only	native,soil/soft	ENDS AT PRIVATE CABIN	no	0.06
091305 ROAD02.cor	02	uatv unclass atv use	atv only	native,soil/soft		no	0.63
091305 ROAD02.cor	2A	uatv unclass atv use	atv only	native,soil/soft		no	0.01
091305 ROAD02.cor	02C	uatv unclass atv use	atv only	native,hard/gravel		no	0.09
091305 ROAD02.cor	02D	uatv unclass atv use	atv only	native,hard/gravel		no	0.06
091305 ROAD02.cor	02E	uatv unclass atv use	atv only	native,hard/gravel		no	2.27
091305 ROAD02.cor	2B	und unclass drivable	4wd auto	native,soil/soft		yes, non-fed. land	0.74
091305 ROAD03.cor	03	uatv unclass atv use	atv only	native,soil/soft		no	0.04
091305 ROAD04.cor	04	uatv unclass atv use	atv only	native,soil/soft		no	0.22
091305 ROAD05.cor	05	uatv unclass atv use	atv only	native,soil/soft		no	0.10
091305 ROAD06.cor	06	uatv unclass atv use	atv only	native,soil/soft		no	0.94
091305 ROAD07.cor	07	uatv unclass atv use	atv only	native,soil/soft		yes, non-fed. land	0.14
091305 ROAD08.cor	08	uatv unclass atv use	atv only	native,soil/soft		no	1.03
091305 ROADA.cor	A2	atvt user atv trail	atv only	native,soil/soft		no	0.99
091305 ROADA.cor	A1	uatv unclass atv use	atv only	native,soil/soft		no	0.50
091305 ROADA.cor	A1	uatv unclass atv use	atv only	native,soil/soft		no	0.45
091305 ROADB.cor	B	atvt user atv trail	atv only	native,soil/soft	NOT ON MAP	no	1.62
091305 ROADB.cor	B2	atvt user atv trail	atv only	native,soil/soft		no	0.53
091405 ROADA.cor	A	atvt user atv trail	atv only	native,soil/soft	NOT ON MAP	no	0.10
091405 ROADB.cor	B	atvt user atv trail	atv only	native,soil/soft		no	0.28
091405 ROADD.cor	D1	atvt user atv trail	atv only	native,soil/soft		yes,wet/flooded	1.36
091405 ROADD.cor	D	uatv unclass atv use	atv only	wetland		yes,grown in	0.09
091405 ROADE.cor	E	uatv unclass atv use	no motorized use	native,soil/soft		yes,grown in	0.23
091605 ROAD01.cor	01	uatv unclass atv use	atv only	native,soil/soft	ENDS AT SALT LICK	no	0.22
091605 ROAD02.cor	02A	atvt user atv trail	atv only	wetland		yes,wet/flooded	0.22
091605 ROAD02.cor	02B	atvt user atv trail	atv only	native,hard/gravel		no	0.26
091605 ROAD02.cor	02C	atvt user atv trail	atv only			no	0.29
091605 ROAD03.cor	01	und unclass drivable	4wd auto	native,hard/gravel	CABIN AT END	no	0.22
091605 ROAD04.cor	01	atvt user atv trail	atv only	native,hard/gravel		no	0.19

### Appendix D. Start Point Attribute Table

<b>Datafile (Start Point)</b>	<b>Comment</b>	<b>Northing</b>	<b>Easting</b>
081705 ROAD01.cor	K C ROAD	5261058.581	627068.989
081705 ROAD02.cor	NOT E	5261092.875	627172.285
081705 ROAD02.cor	ROAD START NOT ON FS LAND	5261038.851	627575.982
081705 ROAD03.cor	PRIVATE DRIVE	5261040.628	627579.377
081705 ROAD04.cor		5264095.477	624518.290
081705 ROAD20.cor		5252822.237	603699.798
081705 ROAD21.cor		5254616.040	603300.365
081805 ROAD01.cor		5258667.104	626932.378
081805 ROAD02.cor	JOINS ROAD01 AT POWER LINE	5258685.575	627056.292
081805 ROAD03.cor	SNOWMOBILE/AUTO PARKING?	5257687.974	627238.901
081805 ROAD04.cor	DRIVEWAY TO WILDHURST LODGE	5257685.096	627254.537
081805 ROAD05.cor	DOYLE LAKE RD	5256739.995	628177.914
081805 ROAD06.cor	FIRE NO 7219+7223	5256737.561	628135.410
081805 ROAD07.cor		5255603.724	629599.213
081805 ROAD07.cor	WALKED TO THIS PT	5254546.038	628033.214
081805 ROAD07.cor	ATV BRANCHES N * S	5254577.475	628266.177
081805 ROAD07.cor	ATV BRANCH TO N	5254597.689	628361.123
081805 ROAD07.cor	ATV BRANCHES N * S	5254763.824	628520.407
081805 ROAD07.cor	GREEN TRAILOR	5254980.402	628582.119
081805 ROAD08.cor	PRIVATE DRIVE	5255923.198	629507.365
081805 ROAD09.cor	PRIVATE DRIVE 7265	5257076.802	627765.581
081805 ROAD10.cor	FIRE NO 7275	5257148.075	627689.400
081805 ROAD20.cor		5254628.536	603305.055
081805 ROAD22.cor		5256879.995	588825.576
082205 ROAD01.cor	CUTS THROUGH BOG	5260213.920	612803.396
082205 ROAD02.cor	CUTS THROUGH BOG	5260385.993	612564.305
082205 ROAD03.cor	FOLLOWS RR TRACKS	5247355.918	603236.627
082205 ROAD03.cor	03B START	5246860.873	603805.538
082205 ROAD04.cor	RR TRACK	5241572.855	600300.942
082205 ROAD05.cor		5240205.454	598426.809
082205 ROAD06.cor		5239098.603	596491.848
082205 ROAD07	Digitized in office	0.000	0.000
082205 ROAD08.cor		5238109.815	599344.710
082205 ROAD09.cor		5238515.344	600982.866
082205 ROAD10.cor		5240319.710	602405.692
082205 ROAD11.cor	DRIVEWAY	5238724.380	602657.595
082205 ROAD12.cor	LEFT BRANCH GATED	5238793.503	603155.751
082205 ROAD13.cor		5239706.419	604618.463
082305 ROAD01.cor	WHERE UNKNOWN PART BEGINS	5239032.942	605126.946
082305 ROAD02.cor		5246536.857	614183.835
082305 ROAD03.cor		5246533.342	617101.517
082305 ROAD04.cor	NOT ON MAP	5252793.890	621320.677
082305 ROAD04.cor	BRANCHES OFF 0823 ROAD04	5252732.637	621272.243
082305 ROAD06.cor	CROWN CREEK RD	5256843.506	627997.018
082405 ROAD01.cor	FS102 ATV AFTER HERE	5259981.882	617777.760
082405 ROAD02.cor	WHERE UNKNOWN PART BEGINS	5255061.844	622960.365

<b>Datafile (Start Point)</b>	<b>Comment</b>	<b>Northing</b>	<b>Easting</b>
082405 ROAD02.cor	START OF WETLAND AND Y.BIRCH	5254627.088	622446.006
082405 ROAD02A.cor	BRUSHED IN	5254647.440	622574.806
082405 ROAD02B.cor	BRANCH OFF ROAD02	5254678.388	622736.389
082405 ROAD02C.cor	BRANCH OFF ROAD02	5254706.498	622750.571
082405 ROAD02D.cor	BRANCH OFF ATV TR OFF SFR243	5254899.695	622748.748
082405 ROAD02E.cor	BRANCH OFF ATV TR OFF SFR243	5255463.057	623088.953
082505 ROAD01.cor		5257212.043	613643.570
082905 ROAD01.cor		5252697.346	613725.751
083005 ROAD01.cor	FS 813 EXTENSION	5259554.333	599875.380
083005 ROADA.cor		5256386.489	599374.558
083005 ROADB.cor	NO TRESPASSING SIGN	5253541.700	595625.146
083005 ROADC.cor		5258330.629	592610.791
083105 ROAD40.cor		5256140.250	589368.643
083105 ROAD41.cor		5257331.173	588237.067
083105 ROADA.cor		5257862.980	609055.331
083105 ROADB.cor		5256569.511	603783.288
083105 ROADC.cor		5242084.721	615003.506
083105 ROADD.cor		5239454.514	606993.917
090805 ROAD11.cor		5267299.210	602132.050
090805 ROAD12.cor		5259723.709	602490.157
090805 ROAD20.cor	OFF OF DECOM ROAD	5242099.168	605248.339
090805 ROAD21.cor		5241975.735	604978.280
090805 ROAD22.cor		5242678.710	604889.193
090805 ROAD23.cor		5238853.797	605322.592
090805 ROAD24.cor		5239036.472	605123.985
090805 ROAD25.cor		5239266.224	605073.002
091305 ROAD01.cor		5242423.804	618652.687
091305 ROAD02.cor		5241562.812	619114.732
091305 ROAD03.cor		5238395.409	618592.882
091305 ROAD04.cor		5239267.210	619477.330
091305 ROAD05.cor		5238978.333	619560.463
091305 ROAD06.cor		5240047.647	618749.648
091305 ROAD07.cor		5240298.454	617438.201
091305 ROAD08.cor		5240297.920	617443.361
091305 ROADA.cor		5262241.163	585705.966
091305 ROADB.cor		5261134.203	586632.418
091405 ROADA.cor		5260857.069	586751.908
091405 ROADB.cor		5254246.388	596048.244
091405 ROADE.cor		5256101.029	593493.218
091605 ROAD01.cor		5260824.912	592774.739
091605 ROAD02.cor		5261119.088	592366.339
091605 ROAD03.cor		5261110.416	592694.684
091605 ROAD04.cor		5261090.454	592614.436

## 7-29-05 Field Visit of Selected Inventoried Roads Within VEIS

On 7-29-05 I visited the north & northwest sections of the Virginia EIS (VEIS) project area to validate effectiveness of proposed and previous road management decisions and to assess effects on ROS. The intent is to use this documentation as part of the VEIS review scheduled this fall. This visit was brief and was of limited sample size but several findings were noteworthy and need to be shared.

I looked at the following roads:

- FR 274D. OML1. Open to ATV/OHV Season Use.
- U1274D01. Unclassified to be Designated OML1 & open to ATV/OHV.
- U1274D01A. Unclassified to be decommissioned.
- FR 274A. OML1. Open to ATV/OHV Season Use.
- U127406. Unclassified. Not closed in EIS or Closure Order. Assumed open.
- U12785. Unclassified to be Designated OML1 & open to ATV/OHV.

Findings.

(1) Three of the roads open (signed or on 9/04 travel Maps) to ATV's travel through &/or terminate in sensitive wet forest or wetlands.



**FR 274D Road travels through lowland areas & becomes intermittently brushed in.**



**FR 274D Road travels through lowland areas & becomes intermittently brushed in.**



**U1274D01. Road does not exist. Mapped road occurs within wetland.**



**U1274D01A. Road does not exist. Naturally "Decommissioned".**

**FR 274A. Road terminates at wetland within ¼ of starting point.**



**U127406. Road terminates at wetland within ¼ of starting point.**



## **Conclusions**

**(1)** One existing, mapped OML 1 road open to ATV's traversed numerous wet areas and at time became brushed in. ATV travel on this road could result in intermittent impacts to wet soils and cutting or trampling of shrubs.

**(2)** One mapped unclassified road designated as OML 1 open to ATV's did not exist on the ground. The mapped road occurred within a wetland and ATV use here would result in significant impacts. Technically one could ride ATV's in this area as it is shown on the map & is listed open in the 9/04 Forest Order.

**(3)** Short road segments (1/4 or less) that terminate within or adjacent to sensitive wetland habitats are being designated or otherwise open to recreational motor vehicles. Our maps or open road signs attract recreational motor enthusiasts to designated areas. Once they arrive, unload their vehicles, & begin their riding they soon find their experience short lived. This can result in frustrated riders and/or resource impacts.

**(4)** Two roads designated for decommissioning did not exist. In reality they are naturally “decommissioned”. To re-enter these areas and mechanically decommission them would cause unnecessary damage and waste dollars.

**(5)** Within three of the inventoried SPNM visited, **non** Forest Service ownership comprises the majority of lands. These other lands are currently roaded & because of this the inventoried areas do not meet SPNM ROS criteria. One Forest Plan objective is to increase the % of SPNM during the 1<sup>st</sup> decade and this increase is assumed to occur on NFS lands. Because other ownerships within the inventoried SPNM boundaries are roaded and because we have no jurisdiction over future roading upon these lands, our inventoried SPNM areas are incorrect.

## **Recommendations**

(1) Ensure road inventories are thorough. Roads need to be assessed beyond what a pickup can drive. Failure to do so will result in us designating open roads within sensitive habitats and/or closing roads that would otherwise be suitable for motorized travel.

(2) Roads scheduled for decommissioning should be evaluated closely within the NEPA document to determine if roads have naturally re-vegetated or if management actions are necessary to meet decommissioning objectives. Without a thorough evaluation, unnecessary costly actions may be implemented or scheduled.

(3) Thoroughly assess inventoried SPM and SPNM ROS areas as part of the NEPA process to determine if these areas do indeed meet Forest Plan criteria. If not consider management actions necessary to maintain the integrity of inventoried ROS or if this is unattainable, consider management of other areas within the project area for remote character SPNM ROS.