



**TRAVERSE CITY FOREST MANAGEMENT UNIT
COMPARTMENT REVIEW PRESENTATION**

COMPARTMENT # 208 ENTRY YEAR: 2011

Compartment Acreage: 1296 County: Kalkaska

Stand Examiner: Dave Johnson

Legal Description: T28N-R05W, Section 31, 32 & 33

Management Goals: Maintain specie diversity and improve Northern Hardwood quality with selection thinnings. Maintain recreational opportunities on the diverse system of established trails. Practice good visual management techniques along trail corridors.

Soil and Topography: Blue Lake, Kalkaska and Rubicon Sands. Terrain is level to rolling.

Ownership Patterns, Development, and Land Use in and Around the Compartment:

Block state and pvt. ownership within compartment with solid state ownership to the north. Light or limited residential development throughout area, mostly mixed residential/ seasonal single family dwellings. Gas sweetening plant located in section 32 with associated pipelines and service roads.

Unique, Natural Features (include only non-site specific and non-sensitive information):

None

Archeological, Historical, and Cultural Features (include only non-site specific and non-sensitive information): None know or listed

Special Management Designations or Considerations: Incorporate visual management into any harvests along or near recreational trails.

Watershed and Fisheries Considerations:

Wildlife Habitat Considerations: Northern hardwood is the dominant community, with some aspen, pine, wetlands, and openings scattered throughout. Considerations for northern hardwood stands include maintaining age and tree species diversity, the protection of den/nesting trees & snags, coarse woody debris (CWD), and maintaining a scattering of mast-producing trees/shrubs. This will insure use by many species of wildlife. Examples of species include scarlet tanager, raccoon, broad-winged hawk, wild turkey, and white-tailed deer.

Aspen harvests should be designed to mimic wildfires of various intensities, when possible. This creates a mosaic of age classes and increases structural diversity within an area. The creation of dead and downed logs should be incorporated into timber prescriptions within to provide habitat for various wildlife species. Standing dead timber is usually left during harvest operations unless deemed a safety hazard. Species benefiting from continued management and age class diversification of aspen include ruffed grouse, white-footed mice, redbelly snakes, deer, yellow-billed cuckoos, and snowshoe hares.

Many wildlife species rely on small forest openings and upland shrub communities. These openings provide grassy nest sites, plentiful seeds and insects, and cover. Examples of species include wild turkeys, northern flicker, eastern chipmunk, and blue racer. Upland shrub stands are important because they contain many berry-producing trees and shrubs. Degraded sites (i.e. abandoned well sites) should be considered for revegetating to herbaceous cover.

Mineral Resource and Development Concerns and/or Restrictions: Surface sediments consist of ice-contact and glacial outwash sand and gravel and postglacial alluvium. The glacial drift thickness varies between 600 and 800 feet. Beneath the glacial drift is the Mississippian Coldwater Shale. The Coldwater does not have an economic use. A gravel pit is located in Section 31 and potential is good on the uplands. This area is located in the Guelph (Niagaran) reef trend with producing wells. The Antrim Shale gas play appears to be too deep to produce in this area. Some of the Compartment is currently leased for oil and gas development. Part of Section 32 and most of Section 33 is surface only.

Vehicle Access: No new access needed

Survey Needs: None

Recreational Facilities and Opportunities: The North Country Trail, Blue Bear Snowmobile Trail and the Kalkaska ORV Trail run through comp hunting is one of the other main opportunities

Fire Protection: This compartment is protected by the Kalkaska DNR Field Office. VFD Fire Protection is from the Blue Lake Twp. Fire Department. Access is not a problem within this compartment. Some private land is located within the compartment, but fuel types don't contribute to catastrophic fires.

Additional Compartment Information:

****** Cover type details, proposed treatments and stands designated as FDF are listed in the attached reports:**

- Cover Type by Age Class**
- Cover Type by Management Objective**
- Compartment Volume Summary**
- Proposed Treatments – No Limiting Factors**
- Proposed Treatments – With Limiting Factors**

****** The following information is displayed on the attached compartment maps:**

- Base feature information, stand numbers, cover types**
- Proposed treatments**
- Proposed road access system**
- Suggested potential old growth**

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Michigan Department of Natural Resources - Operations Inventory System
Individual Compartment Report

PERE MARQUETTE STATE FOREST

TRAVERSE CITY FOREST MGT UNIT

KALKASKA COUNTY

COMPARTMENT: 208

Table 3

(acres shown in boxes)

STAND AGE CLASS

COVER TYPE	Not Coded	0-9	10-19	20-29	30-39	40-49	50-59	60-69	70-79	80-89	90-99	100-109	110-119	120-129	130-139	140-149	150-159	All Aged	Total
Aspen			43	6	2														51
Bog or Marsh	12																		12
Grass	34																		34
Lowlnd Brush	8																		8
Mx Swmp Cnfr					23														23
Non Stocked	8																		8
Red Pine					97														97
Upland Brush					30	10												82	122
Upland Hdwds						12		29										900	941
Total	62		43	6	152	22		29										982	1296

PERE MARQUETTE STATE FOREST

TRAVERSE CITY FOREST MGT UNIT

KALKASKA COUNTY

COMPARTMENT: **208**

Table 3A

(acres shown in boxes)

MANAGEMENT OBJECTIVE TYPE

COVER TYPE	A	S	V	C	G	H	J	I	L	P	N	Q	X	O	B	R	K	Y	F	E	T	D	U	M	Z	W	Total
A Aspen	51																										51
V Bog or Marsh			12																								12
G Grass					34																						34
L Lowlnd Brush									8																		8
Q Mx Swmp Cnfr												23															23
X Non Stocked													8														8
R Red Pine																97											97
U Upland Brush																								122			122
M Upland Hdwds																								941			941
Total	51		12		34				8			23	8			97								122	941		1296

PERE MARQUETTE STATE FOREST

TRAVERSE CITY FOREST MGT UNIT

KALKASKA COUNTY

COMPARTMENT: **208**

Table 10 - COMPARTMENT VOLUME SUMMARY - ALL STANDS

COMPARTMENT SUMMARY			
TOTAL VOLUME		CUT VOLUME	
Hardwood	11555 Cds	Hardwood	209 Cds
Hardwood	2390 Mbf	Hardwood	182 Mbf
Softwood	929 Cds	Sum CutVol	573 Cds
Softwood	11 Mbf		
Sum TotVol	17286 Cds		
Total Cmpnt Acres		Acres Proposed For Cut.....	
1296		73	

TRAVERSE CITY FOREST MGT UNIT

Proposed Treatments
With NO Limiting Factors

Compartment: 208 Entry Year: 2011

Stand	Cover Type	Acres	Age	Site Index	Mgt Obj	Condition	Method Cut	Harvest Priority	Cultural Need	FDF Status	
10	M6	10		65	northern hardwood	unevenaged	selection	1		stand with fdf potential	
21	M6	63		60	northern hardwood	unevenaged	selection	1		stand with fdf potential	
comnts Fmd : Terrain varies from level to rolling. ORV trail bisects the stand. Higher Cherry BA in the eastern part of stand											
400	G0	14			grass	nonstocked		0	other - specify in remarks		
comnts Fmd : Grass opening, part of an old homestead.											
Wld : Leave as is. Re-establish northern berm.											
Total Acres.....		87									

**Proposed Treatments
With Limiting Factors**

Compartment: 208

Entry Year: 2011

Stand	Cover Type	Acres	Age	Site Index	Mgt Obj	Condition	Method Cut	Harvest Priority	Cultural Need	FD Status
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TREATMENT LIMITING FACTORS:

Total Acres..... 0

Compartment 208
 T28N, R05W, Sec. 31, 32, 33
 County: Kalkaska
 Unit: Traverse City
 YOE: 2011
 Acres: 1,296 GIS Calculated
 Stand Examiner: David Johnson
 Map Revised: 10/07/2009
 Map Phase: Pre-review

Covertypes & Treatment Map

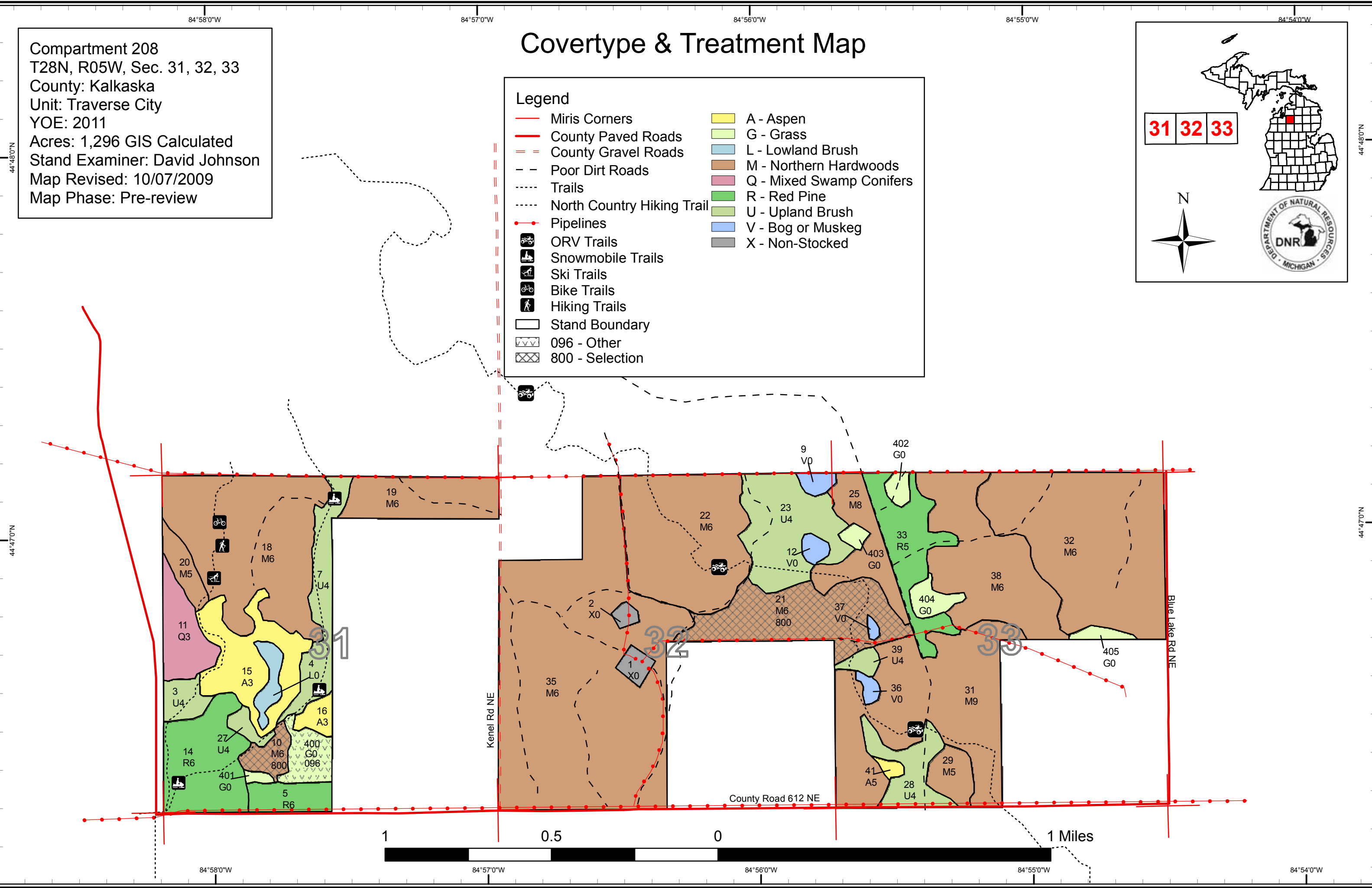
Legend

— Miris Corners	■ A - Aspen
— County Paved Roads	■ G - Grass
— County Gravel Roads	■ L - Lowland Brush
- - Poor Dirt Roads	■ M - Northern Hardwoods
⋯ Trails	■ Q - Mixed Swamp Conifers
⋯ North Country Hiking Trail	■ R - Red Pine
— Pipelines	■ U - Upland Brush
ORV Trails	■ V - Bog or Muskeg
Snowmobile Trails	■ X - Non-Stocked
Ski Trails	
Bike Trails	
Hiking Trails	
□ Stand Boundary	
▨ 096 - Other	
▩ 800 - Selection	

31 32 33

N














DEPARTMENT OF NATURAL RESOURCES
 DNR
 MICHIGAN

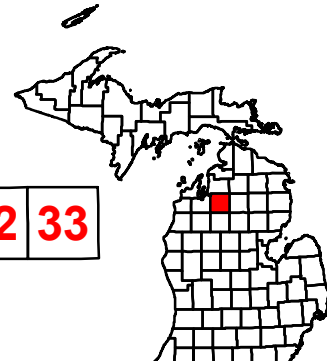


Stand Boundary Map



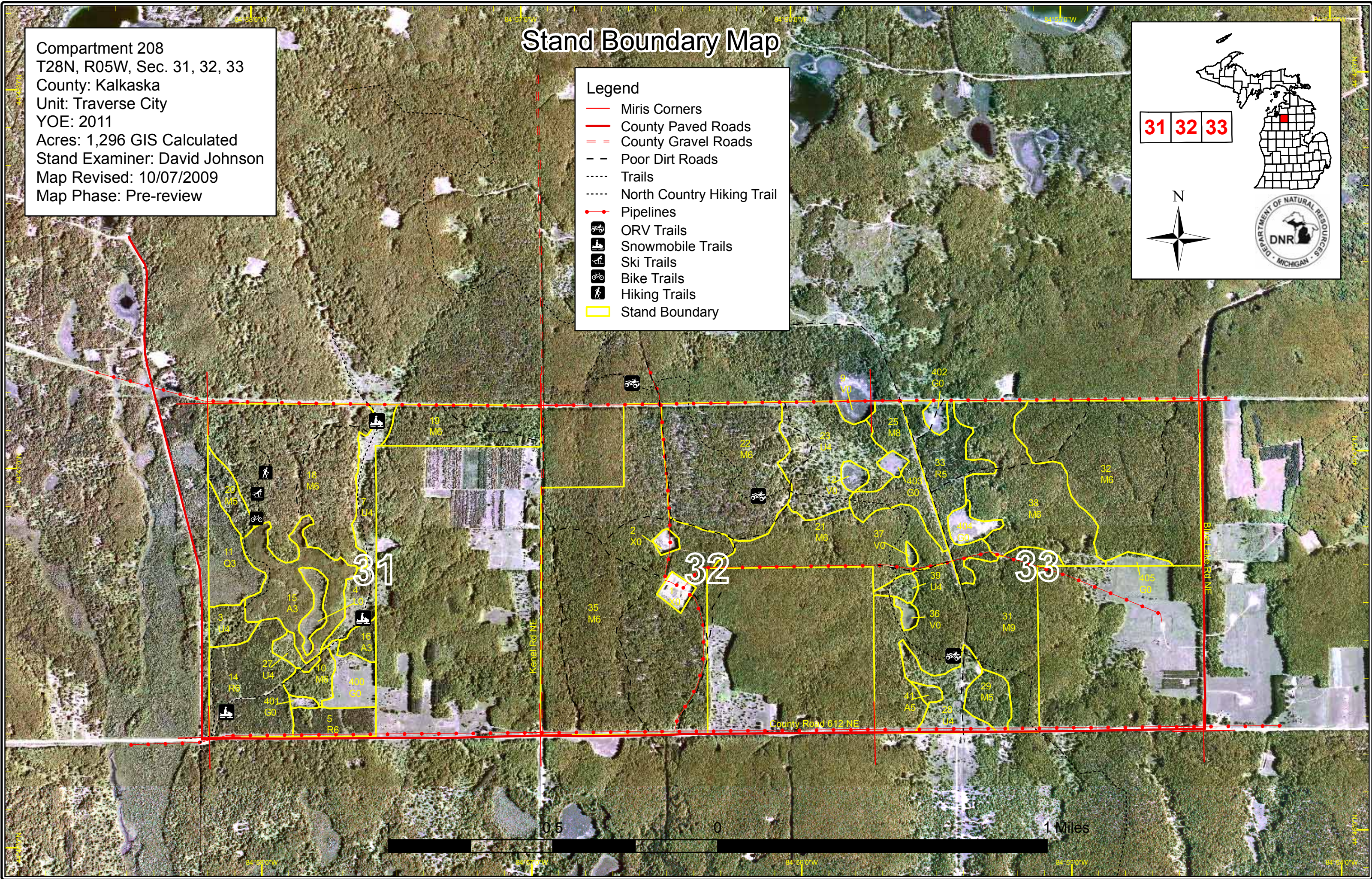
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Legend

-  Miris Corners
-  County Paved Roads
-  County Gravel Roads
-  Poor Dirt Roads
-  Trails
-  North Country Hiking Trail
-  Pipelines
-  ORV Trails
-  Snowmobile Trails
-  Ski Trails
-  Bike Trails
-  Hiking Trails
-  Stand Boundary




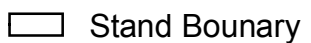




31 32 33

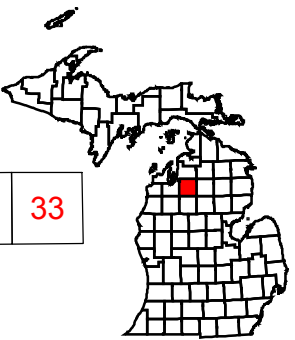




Dedicated & Proposed Special Conservation Area Map



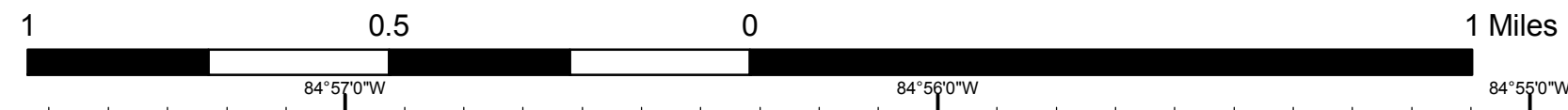
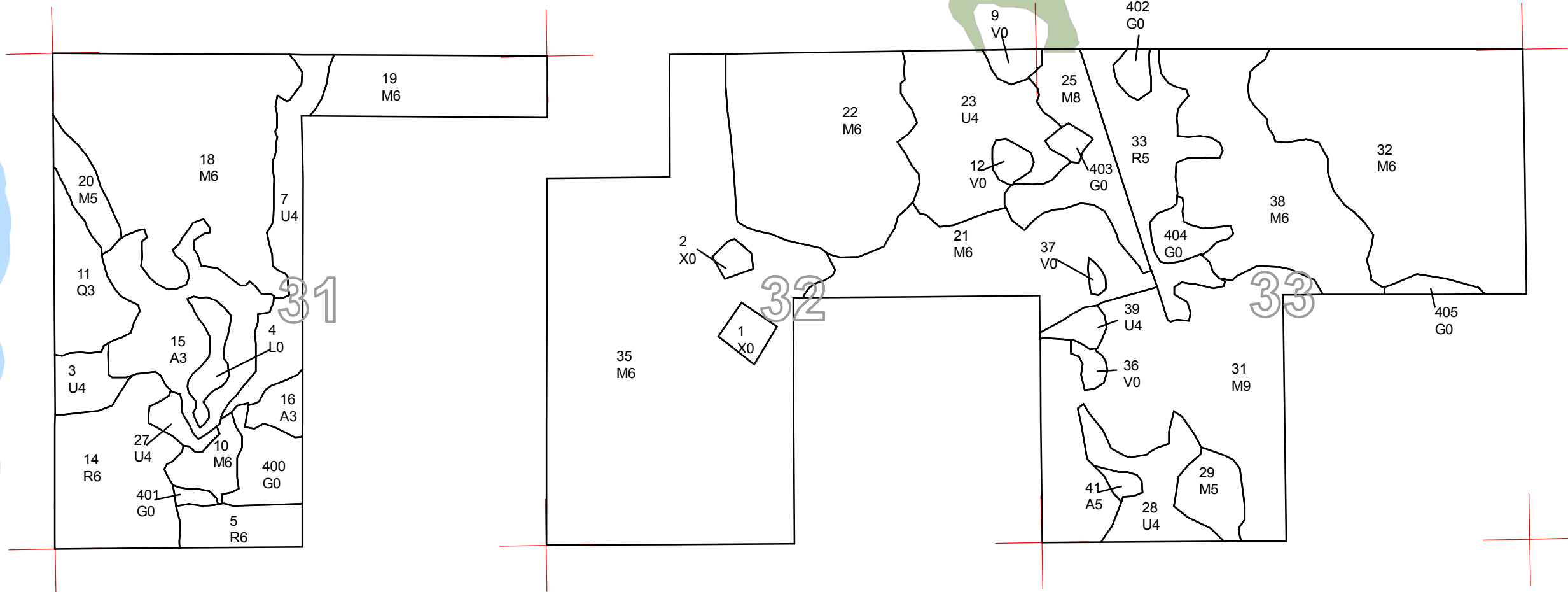
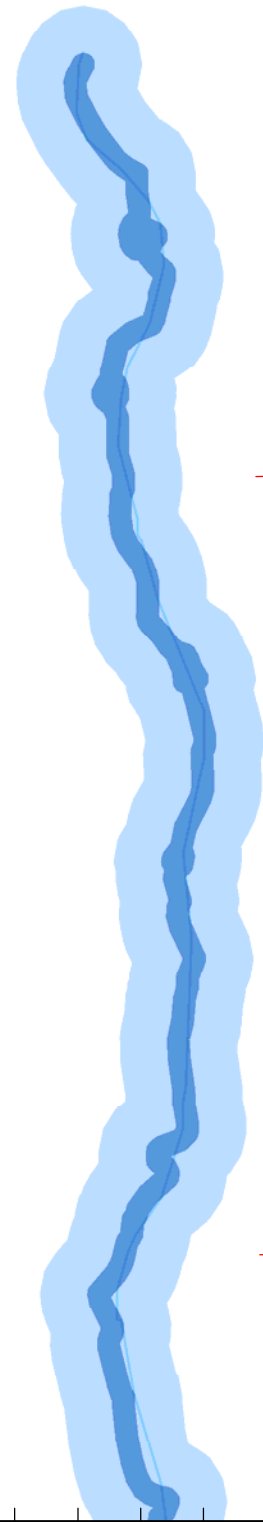
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 Stand Examiner: David Johnson
 Map Revised: 3/10/2009
 Map Phase: Pre-review

Legend

-  Miris Corners
-  Stand Boundary
- Dedicated Special Conservation Areas**
-  Cold Water Streams
-  Natural Rivers Vegetative Buffer
-  Natural Rivers Zoning District
-  OI Special Conservation Areas



31 32 33

44°47'0"N

44°47'0"N

84°58'0"W

84°57'0"W

84°56'0"W

84°55'0"W

84°54'0"W



DEDICATED CONSERVATION AREA DETAILS

* This is a list of Dedicated Biodiversity Areas for this compartment along with a 1/4 mile buffer surrounding the compartment. Refer to Dedicated Conservation Area Map for areas that the below listed Conservation Areas are located.

ERA = Ecological Reference Area
HCVA = High Conservation Value Area
SCA = Special Conservation Area

Conservation Area	Type	Description
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