



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

COMPARTMENT # 158 ENTRY YEAR: 2009

Compartment Acreage: 1772 County: Kalkaska

Stand Examiner: Dave Johnson

Legal Description: T27N, R8W, Sec. 31-33

Management Goals: To maintain the integrity of the North Branch of the Boardman River.

Soil and Topography: Ranges from Rubicon to Grayling sands. Topography is generally flat.

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

Ownership patterns are primarily state lands with some scattered private parcels. Land use in and around the compartment is fishing, ORVing and snowmobiling.

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

This compartment falls within landtype associations (LTA) 5111 of sub-subsection VII.2.2. LTA 5111 is characterized by broad flat outwash plains with few kettle lakes and excessively drained sand. GLO surveyors frequently reported the occurrence of large wildfires within LTA 5111. These fires were among the largest in the state, covering several square miles.

Archeological, Historical, and Cultural Features (include only non-site specific and non-sensitive information):

Special Management Designations or Considerations: The North Branch of the Boardman River and its tributaries are under the Natural Rivers Act and also fall under HCVA (High Conservation Value Area). All prescriptions within 400 feet of the river and tributaries further the conservation goals of these HCVA's. The North Branch is also a blue ribbon trout stream.

Watershed and Fisheries Considerations: The North Branch of the Boardman River flows through a portion of this compartment. The North Branch of the Boardman River is a Designated Trout Stream, a Natural River, and supports a cold water fishery consisting of brook and brown trout. The Natural River designation stipulates a vegetative buffer of 100 feet within State land in this compartment.

Wildlife Habitat Considerations: All of compartment 158 is underlain by a dry sandy outwash plain (LTA 5111). The sandy soil found here was often the setting for large wildfires. These fires sustained a variety of fire driven communities, mainly conifer forests at the time of the GLO surveys. Present habitat types include upland mixed stands of pine-oak-aspen, of various ages. Upland non-forested stands currently consist mainly of old well pads. Opportunities to increase productive non-forested stands should be pursued. A jack pine final harvest with very low jack pine regeneration has been proposed for conversion to a grassland/barrens complex. This project should be designed to add important habitat components (i.e. forage, nesting habitat, bugging areas, etc) to the landscape. Also, the compartment should continue to be managed for a variety of successional stages of pine-oak-aspen forest and grass-shrub openings, with some

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mid to late successional forest in and adjacent to stream corridors. Oak is a very important component of forests here and should be maintained or regenerated as much as possible. Timber harvests should be designed to mimic wildfires of various intensities, when possible. An aspen stand and several pine stands have been proposed for treatment this entry period. The creation of dead and down logs will be included in some sales. Standing dead timber is usually left during harvest operations unless deemed a safety hazard. Some species found in these early to mid-successional communities include: white-tailed deer, ruffed grouse, wild turkey, eastern bluebird, smooth green snake, long-tailed weasel, and red-tailed hawk. Also, many endangered, threatened, or special concern species can be found in these fire maintained ecosystems. The North Branch Boardman River runs through this sandy outwash plain, but only barely makes it into this compartment. However, the proximity of the river to this compartment does provide habitat diversity as well as a riparian corridor through an otherwise dry landscape.

Mineral Resource and Development Concerns and/or Restrictions: Surface sediments consist of glacial outwash sand and gravel and postglacial alluvium. The glacial drift thickness varies between 400 and 600 feet. Beneath the glacial drift is the Mississippian Coldwater Shale. The Coldwater does not have a current economic use. Gravel pits are not located in the area and potential appears to be limited. The Compartment is within the prolific Niagaran reef trend and all State minerals are leased.

Vehicle Access: Roads within this compartment are: Vroom, Crofton, Boardman River, North Branch and Section 6. A few trail roads snake off from these roads into the compartment.

Survey Needs: None needed at this time.

Recreational Facilities and Opportunities: The Boardman Valley Snowmobile Trail and the MCCCT ORV Trail run through this compartment.

Fire Protection:

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**

PERE MARQUETTE STATE FOREST

TRAVERSE CITY FOREST MGT UNIT

KALKASKA COUNTY

COMPARTMENT: 158

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	136																										136
G Grass					21																						21
J Jack Pine							950																				950
L Lowlnd Brush									18																		18
N Marsh											2																2
O Oak														204													204
R Red Pine																365											365
M Upland Hdwds																								70			70
Z Water																									2		2
W White Pine																										4	4
Total	136				21		950		18		2			204		365								70	2	4	1772

PERE MARQUETTE STATE FOREST

TRAVERSE CITY FOREST MGT UNIT

KALKASKA COUNTY

COMPARTMENT: **158**

Table 10 - COMPARTMENT VOLUME SUMMARY - ALL STANDS

COMPARTMENT SUMMARY			
TOTAL VOLUME		CUT VOLUME	
Hardwood	3502 Cds	Hardwood	891 Cds
Hardwood	748 Mbf	Softwood	3110 Cds
Softwood	8446 Cds	Softwood	295 Mbf
Softwood	1226 Mbf	Sum CutVol	4591 Cds
Sum TotVol	15896 Cds		
Total Cmpnt Acres		Acres Proposed For Cut.....	
1772		529	

TRAVERSE CITY FOREST MGT UNIT

**Proposed Treatments
With NO Limiting Factors**

Compartment: 158 **Entry Year: 2009**

Stand	Cover Type	Acres	Age	Site Index	Mgt Obj	Condition	Method Cut	Harvest Priority	Cultural Need	FDF Status
4	A4	68	31	53	aspen (upland)	high risk	final harvest	1		
comnts Fmd : Stand has good wildlife understory of Alder, Thornapple and Dogwood. Cut eastern half of stnd now while watertable is low. Western part of stnd more vigorous. After sale layout make new stand out of west part. Dkj										
5	J1	28	5	49	jack pine	sparse		0	planting	
comnts Fmd : Natural reproduction very sparse - plant to jack pine										
8	R6	143	47	54	red pine	immature	delayed removal	1		
comnts Fmd :										
11	R9	87	78	64	red pine	mature	selection	1		
comnts Fmd :										
17	J6	231	47	51	jack pine	immature	shelterwood-prep	1		
comnts Fmd : Remove jp and mx hdwd - area shows sings of fair jp and rp regeneration										
Total Acres.....		557								

**Proposed Treatments
With Limiting Factors**

Compartment: 145

Entry Year: 2009

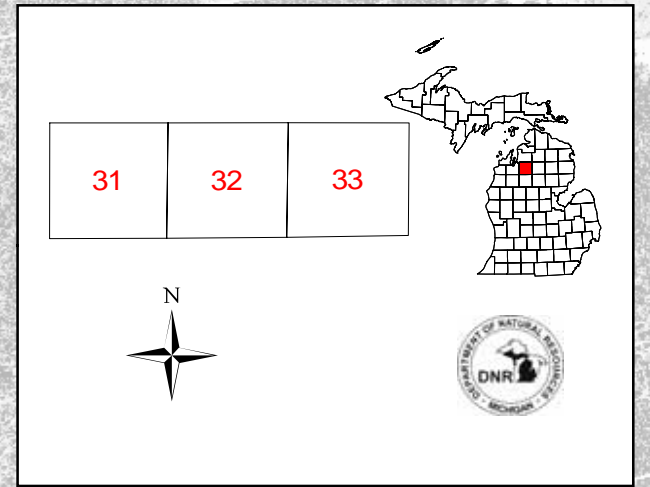
Stand	Cover Type	Acres	Age	Site Index	Mgt Obj	Condition	Method Cut	Harvest Priority	Cultural Need	FD Status
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TREATMENT LIMITING FACTORS:

Total Acres..... **o**

Field Map

Compartment: 158
T27N, R08W, Sec. 31, 32, 33
County: Kalkaska
Unit: Traverse City
YOE: 2009
Acres: 1,772 GIS Calculated
Stand Examiner: David Johnson
Map Revised: 10/08/2007
Map Phase: Pre-review



Legend

- ◆ RIs Corners
- Miris Corners
- ▬ Gravel Roads
- ▬ County Gravel Roads
- - - Poor Dirt Roads
- ⋯ Trails
- Water Features
- ☒ Snowmobile Trails
- ▭ Stand Boundary
- ▨ 015 - Planting/Mechanical, Other
- ▨ 100 - Final Harvest
- ▨ 600 - Delayed Removal
- ▨ 700 - Shelterwood - prep
- ▨ 800 - Selection

