



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

COMPARTMENT # 266 ENTRY YEAR: 2009

Compartment Acreage: 1586 County: Kalkaska

Stand Examiner: G.R.Grieve

Legal Description: T27N, R8W, Sec's 6, 7 & 8.

Management Goals: Maintain a variety of cover types & age class diversity which favor a variety of game & nongame species.

Soil and Topography: Kalkaska & Emmet sandy loams. Rolling hills.

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

Sections 7 & 8 are solid block ownership except for a 330 ft of a Consumers Energy Transmission line. Also in Section 7 is a one acre privately owned old school house, now a seasonal residence. In section 6 there are three unattached 80 acre blocks. One next to Smiths Lake. Except for the old school house these parcels are undeveloped & are expected to remain so.

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

The State owns the north ½ of Smiths Lake. All of the Haynes Lakes fall in State ownership.

Archeological, Historical, and Cultural Features (include only non-site specific and non-sensitive information): Two old homesteads are located in this compartment.

Special Management Designations or Considerations: Smiths & Haynes Lakes are in this compartment along with the headwaters spring for Barker Creek.

Watershed and Fisheries Considerations:

Wildlife Habitat Considerations:

Mineral Resource and Development Concerns and/or Restrictions: Surface sediments consist of an end moraine of coarse-textured till. 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 located in the area and potential is good. The Compartment is just north of the prolific Niagaran reef trend and only a few of the State minerals are currently leased.

Vehicle Access: Four county roads fall within or are on the boundaries of this compartment. There are numerous 2-tracks coming off of these county roads. None at this time are causing problems or need to be closed.

Survey Needs: None needed at this time.

Recreational Facilities and Opportunities: Smiths Lake has a fisheries population which is heavily fished. The Haynes Lakes are very shallow. Normal recreation uses are mushroom picking & hunting.

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**

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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: 266

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 | | 21 | 3 | 94 | 18 | | | | | | | | | | | | | | 136 |
| Bog or Marsh | 2 | | | | | | | | | | | | | | | | | | 2 |
| Grass | 115 | | | | | | | | | | | | | | | | | | 115 |
| Hemlock | | | | | | | | | | | | | | | | | | 5 | 5 |
| Marsh | 13 | | | | | | | | | | | | | | | | | | 13 |
| Oak | | | | | | | 4 | | 77 | 13 | | | | | | | | | 94 |
| Red Pine | | 11 | | | | 251 | 96 | | | | | | | | | | | 5 | 363 |
| Upland Brush | 91 | | | | | | | | | | | | | | | | | 4 | 95 |
| Upland Hdwds | | | | | | | 2 | | | | | | | | | | | 636 | 638 |
| Water | 19 | | | | | | | | | | | | | | | | | | 19 |
| White Pine | | | | | | 89 | | | | | | | | | | | | 17 | 106 |
| Total | 240 | 32 | 3 | 94 | 18 | 340 | 102 | | 77 | 13 | | | | | | | | 667 | 1586 |

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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: 266

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 | |
| V Bog or Marsh | | | 2 | | | | | | | | | | | | | | | | | | | | | | | | 2 | |
| G Grass | | | | | 115 | | | | | | | | | | | | | | | | | | | | | | 115 | |
| H Hemlock | | | | | | 5 | | | | | | | | | | | | | | | | | | | | | 5 | |
| N Marsh | | | | | | | | | | | 13 | | | | | | | | | | | | | | | | 13 | |
| O Oak | | | | | | | | | | | | | | 94 | | | | | | | | | | | | | 94 | |
| R Red Pine | | | | | | | | | | | | | | | | 363 | | | | | | | | | | | 363 | |
| U Upland Brush | | | | | | | | | | | | | | | | | | | | | | | | 95 | | | 95 | |
| M Upland Hdws | | | | | | | | | | | | | | | | | | | | | | | | 638 | | | 638 | |
| Z Water | | | | | | | | | | | | | | | | | | | | | | | | | 19 | | 19 | |
| W White Pine | | | | | | | | | | | | | | | | | | | | | | | | | 106 | | 106 | |
| Total | 136 | | 2 | | 115 | 5 | | | | | 13 | | | 94 | | 363 | | | | | | | | 95 | 638 | 19 | 106 | 1586 |

PERE MARQUETTE STATE FOREST

TRAVERSE CITY FOREST MGT UNIT

KALKASKA COUNTY

COMPARTMENT: **266**

Table 10 - COMPARTMENT VOLUME SUMMARY - ALL STANDS

| COMPARTMENT SUMMARY | | | |
|--------------------------|-----------|-----------------------------|----------|
| TOTAL VOLUME | | CUT VOLUME | |
| Hardwood | 9625 Cds | Hardwood | 538 Cds |
| Hardwood | 3380 Mbf | Hardwood | 52 Mbf |
| Softwood | 15465 Cds | Softwood | 3832 Cds |
| Softwood | 1550 Mbf | Softwood | 433 Mbf |
| Sum TotVol | 34950 Cds | Sum CutVol | 5340 Cds |
| Total Cmpnt Acres | | Acres Proposed For Cut..... | 366 |
| 1586 | | | |

TRAVERSE CITY FOREST MGT UNIT

**Proposed Treatments
With NO Limiting Factors**

Compartment: 266 Entry Year: 2009

| Stand | Cover Type | Acres | Age | Site Index | Mgt Obj | Condition | Method Cut | Harvest Priority | Cultural Need | FDF Status |
|---|------------|-------|-----|------------|-------------------|------------|------------------|------------------|---------------|------------------------------|
| 2 | O9 | 4 | 51 | 62 | oak | immature | shelterwood-prep | 2 | | |
| comnts Fmd : 12/11/2006 Oak stand. Needs a pre thinning release for regeneration. Could be negotiated sale. To small for exclusion area. Looking for oak or hardwood regeneration. (Grieve) | | | | | | | | | | |
| 7 | R6 | 2 | 38 | 62 | red pine | immature | thinning | 1 | | prescribed for fdf treatment |
| comnts Fmd : 11/20/2006 Needs thinning, may need to be marked. Very hilly on east side. (Grieve) | | | | | | | | | | |
| 9 | R6 | 87 | 49 | 51 | red pine | immature | thinning | 1 | | |
| comnts Fmd : 11/20/2006 Nice looking stand, ready for 2nd thinning. Mark job. (Grieve) | | | | | | | | | | |
| 10 | R6 | 4 | 38 | 62 | red pine | immature | thinning | 1 | | prescribed for fdf treatment |
| comnts Fmd : 11/20/2006 Let go for ten years. (Grieve) TS# 66-99-1 | | | | | | | | | | |
| 12 | R6 | 42 | 44 | 51 | red pine | immature | thinning | 1 | | |
| comnts Fmd : 11/20/2006 Ready for first thinning. May have to cut across rows. (Grieve) 1997 very hilly.(Lemmien) | | | | | | | | | | |
| 13 | M6 | 10 | | 60 | northern hardwood | unevenaged | thinning | 2 | | prescribed for fdf treatment |
| comnts Fmd : 12/11/2006 Selection cut, negotiated sale no exclusions, to small. Top of hill is an M3. (Grieve) | | | | | | | | | | |
| 14 | R6 | 6 | 38 | 62 | red pine | immature | thinning | 1 | | prescribed for fdf treatment |
| comnts Fmd : 11/20/2006 Needs thinning, may need to be marked. Very hilly on east side. (Grieve) | | | | | | | | | | |
| 20 | R6 | 1 | 46 | 58 | red pine | immature | thinning | 1 | | |
| comnts Fmd : 12/17/2006 This stand has never been thinned. Needs a thinning. (Grieve) | | | | | | | | | | |
| 23 | R6 | 17 | 46 | 73 | red pine | immature | thinning | 1 | | |
| comnts Fmd : 11/26/2006 Ready for next thinning. (Grieve) | | | | | | | | | | |
| 28 | R6 | 33 | 46 | 73 | red pine | immature | thinning | 1 | | |
| comnts Fmd : 11/26/2006 Ready for next thinning. (Grieve) | | | | | | | | | | |
| 30 | R6 | 26 | 46 | 73 | red pine | immature | thinning | 1 | | |
| comnts Fmd : 11/26/2006 Ready for next thinning. (Grieve) | | | | | | | | | | |
| 32 | R6 | 5 | 46 | 73 | red pine | immature | thinning | 1 | | |
| comnts Fmd : 11/26/2006 Ready for next thinning. (Grieve) | | | | | | | | | | |
| 33 | R6 | 4 | 46 | 73 | red pine | immature | thinning | 1 | | |
| comnts Fmd : 11/26/2006 Ready for next thinning. (Grieve) | | | | | | | | | | |
| 35 | R6 | 1 | 1 | 60 | red pine | immature | thinning | 1 | | |
| comnts Fmd : 11/26/2006 Thinned ten years ago. Ready for next thinning. (Grieve) ts 48-99-1 Wld : This stand, following treatment, should be allowed to regenerate naturally to expand the aspen type and acreage. | | | | | | | | | | |
| 38 | R6 | 1 | 1 | 60 | red pine | immature | thinning | 1 | | |
| comnts Fmd : 11/26/2006 Thinned ten years ago. Ready for next thinning. (Grieve) ts 48-99-1 Wld : This stand, following treatment, should be allowed to regenerate naturally to expand the aspen type and acreage. | | | | | | | | | | |
| 43 | R6 | 1 | 46 | 58 | red pine | immature | thinning | 1 | | |
| comnts Fmd : 12/17/2006 This stand has never been thinned. Needs a thinning. (Grieve) | | | | | | | | | | |
| 44 | R6 | 4 | 46 | 58 | red pine | immature | thinning | 1 | | |
| comnts Fmd : 12/17/2006 This stand has never been thinned. Needs a thinning. (Grieve) | | | | | | | | | | |

TRAVERSE CITY FOREST MGT UNIT

**Proposed Treatments
With NO Limiting Factors**

Compartment: 266 Entry Year: 2009

| Stand | Cover Type | Acres | Age | Site Index | Mgt Obj | Condition | Method Cut | Harvest Priority | Cultural Need | fdf Status | |
|--|------------|------------|-----|------------|-------------------|------------|------------|------------------|---------------|--------------------------|--|
| 45 | R6 | 1 | 46 | 52 | red pine | immature | thinning | 1 | | stand with fdf potential | |
| comnts Fmd : 12/17/2006 Thinned once, ready again, mark job. (Grieve) | | | | | | | | | | | |
| 46 | R6 | 1 | 46 | 58 | red pine | immature | thinning | 1 | | | |
| comnts Fmd : 12/17/2006 This stand has never been thinned. Needs a thinning. (Grieve) | | | | | | | | | | | |
| 47 | R6 | 1 | 46 | 58 | red pine | immature | thinning | 1 | | | |
| comnts Fmd : 12/17/2006 This stand has never been thinned. Needs a thinning. (Grieve) | | | | | | | | | | | |
| 48 | R6 | 1 | 46 | 58 | red pine | immature | thinning | 1 | | | |
| comnts Fmd : 12/17/2006 This stand has never been thinned. Needs a thinning. (Grieve) | | | | | | | | | | | |
| 49 | R6 | 1 | 46 | 58 | red pine | immature | thinning | 1 | | | |
| comnts Fmd : 12/17/2006 This stand has never been thinned. Needs a thinning. (Grieve) | | | | | | | | | | | |
| 50 | R6 | 2 | 46 | 52 | red pine | immature | thinning | 1 | | stand with fdf potential | |
| comnts Fmd : 12/17/2006 Thinned once, ready again, mark job. (Grieve) | | | | | | | | | | | |
| 52 | R6 | 9 | 46 | 52 | red pine | immature | thinning | 1 | | stand with fdf potential | |
| comnts Fmd : 12/17/2006 Thinned once, ready again, mark job. (Grieve) | | | | | | | | | | | |
| 53 | R6 | 4 | 46 | 52 | red pine | immature | thinning | 1 | | stand with fdf potential | |
| comnts Fmd : 12/17/2006 Thinned once, ready again, mark job. (Grieve) | | | | | | | | | | | |
| 66 | R6 | 8 | 46 | 52 | red pine | immature | thinning | 1 | | stand with fdf potential | |
| comnts Fmd : 12/17/2006 Thinned once, ready again, mark job. (Grieve) | | | | | | | | | | | |
| 69 | M6 | 30 | | 61 | northern hardwood | unevenaged | selection | 1 | | | |
| comnts Fmd : 12/18/2006 Very hilly area, selection cut needed. (Grieve) | | | | | | | | | | | |
| 73 | R6 | 2 | 43 | 60 | red pine | immature | thinning | 1 | | | |
| comnts Fmd : 12/18/2006 Was missed last time around. Needs a thinning, 3rd row. Do with white pine stand which is on three sides of this stand. (Grieve) | | | | | | | | | | | |
| 74 | W6 | 51 | 47 | 51 | white pine | high risk | thinning | 1 | | | |
| comnts Fmd : 12/18/2006 Starting to have some die off. High Risk, 3rd row thinning now. (Grieve) | | | | | | | | | | | |
| 77 | M6 | 3 | | 61 | northern hardwood | unevenaged | selection | 1 | | | |
| comnts Fmd : 12/18/2006 Very hilly area, selection cut needed. (Grieve) | | | | | | | | | | | |
| 81 | M6 | 1 | | 61 | northern hardwood | unevenaged | selection | 1 | | | |
| comnts Fmd : 12/18/2006 Very hilly area, selection cut needed. (Grieve) | | | | | | | | | | | |
| Total Acres..... | | 363 | | | | | | | | | |

TRAVERSE CITY FOREST MGT UNIT

**Proposed Treatments
With Limiting Factors**

Compartment: 266 **Entry Year: 2009**

| Stand | Cover Type | Acres | Age | Site Index | Mgt Obj | Condition | Method Cut | Harvest Priority | Cultural Need | FDI Status |
|-----------|------------|-------|-----|------------|------------|------------|------------|------------------|---------------|------------|
| 19 | W9 | 2 | | 56 | white pine | unevenaged | thinning | 3 | | |

TREATMENT LIMITING FACTORS: Inadequate volume due to small acreage
 Inferior quality
 Timber contractors not available

comnts Fmd : 11/22/2006 Natural stand Some weevil, should grow out of it. Thinning this time around. But this is to small to sell. (Grieve)

| | | | | | | | | | | |
|-----------|-----------|---|--|----|-------------------|------------|-----------|---|--|--|
| 72 | M6 | 1 | | 61 | northern hardwood | unevenaged | selection | 1 | | |
|-----------|-----------|---|--|----|-------------------|------------|-----------|---|--|--|

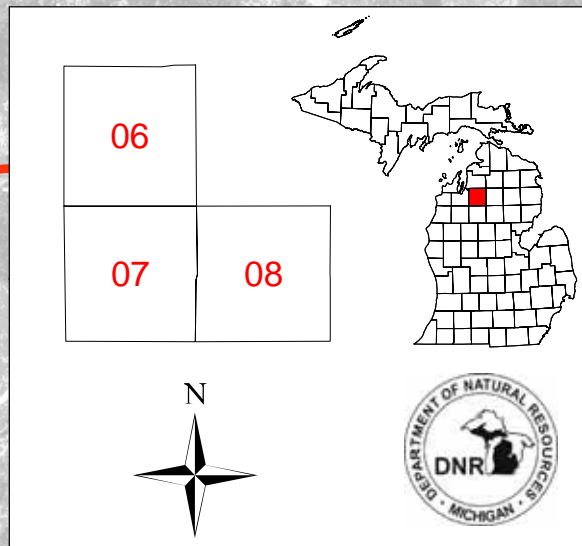
TREATMENT LIMITING FACTORS: Inadequate volume due to small acreage

comnts Fmd : 12/20/2006 Very small out of the way stand. Be good for negotiated sale only. (Grieve)

Total Acres..... 3

Field Map

Compartment 266
 T27N, R08W, Sec. 6, 7, 8
 County: Kalkaska
 Unit: Traverse City
 YOE: 2009
 Acres: 1,586 GIS Calculated
 Stand Examiner: Gerald Grieve
 Map Revised: 10/23/2007
 Map Phase: Pre-Review



Legend

- RIs Corners
- Miris Corners
- Highway
- Paved Roads
- Gravel Roads
- Poor Dirt Roads
- County Dirt Roads
- State Highway
- Stand Boundary
- 400 - Thinning
- 700 - Shelterwood - prep
- 800 - Selection

