

Shingleton Forest Management Unit Compartment Review Presentation

Compartment # 51 Entry Year: 2012 Compartment Acreage: 1003 County: Schoolcraft

Revision Date: 9/29/10

Stand Examiner: Don Kuhr and Sheila Clark

Legal Description: T43N R15W Sections 4, 9, 16, and 17.

Identified Planning Goals ('Management Area' or 'RMU', if applicable): Seney Manistique Swamp

Management Goals: The goals in this compartment include conducting multiple resource management for current and future generations. Forest health, recreation, biodiversity stewardship, wildlife, and timber management are some of the key management components within this compartment.

Soil and Topography: The soil is predominately sand, varying to sandy loam and the topography is level. Some of the stands have higher water tables resulting in saturated soils. The West Branch Manistique River and Stutts Creek flow through the compartment, stands adjacent to them are hillier.

Ownership Patterns, Development, and Land Use in and Around the Compartment: Ownership is quite broken within and just outside the compartment. There are a lot of private homes/camps in the area as well as some industrial land. There are numerous camps along Cal Road and access to part of the compartment is through a variety of private ownership. County Road 448 – Smith Lake Road goes through the compartment along with Cal Road, Merwin Truck Trail, and Brace Creek Road. These roads are used on a regular basis by the public for recreational purposes. With the Manistique River in the area, there is a high level for development and land use.

Unique, Natural Features: Wood Turtle (*Clemmys insculpta*, state special concern) are known to occur in this compartment in and along Stutts Creek. This rare reptile could also occur in this compartment in and along the North Branch Manistique River. Veiny meadow-rue (*Thalictrum venulosum*, state special concern plant) could occur along the sandy shores of the North Branch Manistique River in section 4. The prescribed treatments in this compartment are unlikely to adversely impact these species if best management practices are followed along these riparian corridors. Finally, there is potential for nesting Northern Goshawks (*Accipiter gentilis*, state special concern) to occur throughout this compartment in stands of red pine and white pine.

Archeological, Historical, and Cultural Features: At the intersection of Brace Creek Road and Smith Lake Road is the site of a former CCC Camp.

Special Management Designations or Considerations: Within the prescribed stands special consideration will be given to the visual impact of the snowmobile trail and Smith Lake Road.

Watershed and Fisheries Considerations: Fisheries Values – Poor. Both the West Branch Manistique River and Stutts Creek this far downstream are classified as Second Quality Warm Water through this area. There is no need to protect Stutts Creek from encroachment by beaver, but protection from increased sand bed load is still a high priority.

Wildlife Habitat Considerations: This compartment is located in the center of the Seney Sand Lake Plain ecological sub-subsection. The growing season in this area is less than 100 days with an extreme minimum temperature of -46 degrees F. Average annual snowfall is approximately 100 to 110 inches.

Two sizable streams (Stutts Creek and the West Branch Manistique River) traverse the compartment. Pre-settlement vegetation was likely dominated by red pine, jack pine, and big-toothed aspen on the uplands and cedar, black spruce and open marsh in the lowlands. Fires and beaver ponding were likely the primary forms of natural disturbance. Currently, the forest cover is dominated by early successional types including aspen, jack pine, and red pine. Wildlife habitat management objectives include maintaining mature upland and lowland conifer habitat and promoting age and structural diversity in the available aspen. Rare species that have been recorded in this compartment include the wood turtle, common loon, and gray wolf. Additional wildlife species of interest that occur in this compartment include brown thrasher, Blackburnian warbler, ovenbird, marten, mink, red squirrel, and bobcat.

Mineral Resource and Development Concerns and/or Restrictions: Surface sediments consist of lacustrine (lake) sand and gravel and peat and muck. There is minor local relief in the compartment. There is insufficient data to determine the glacial drift thickness. The Ordovician Stonington Formation and Big Hill Dolomite subcrop below the glacial drift. The Big Hill could be used for stone. The nearest gravel pit is 3 miles to the west. There is limited gravel potential on State lands

Vehicle Access: Vehicle access is excellent within the compartment.

Survey Needs: None at this present time.

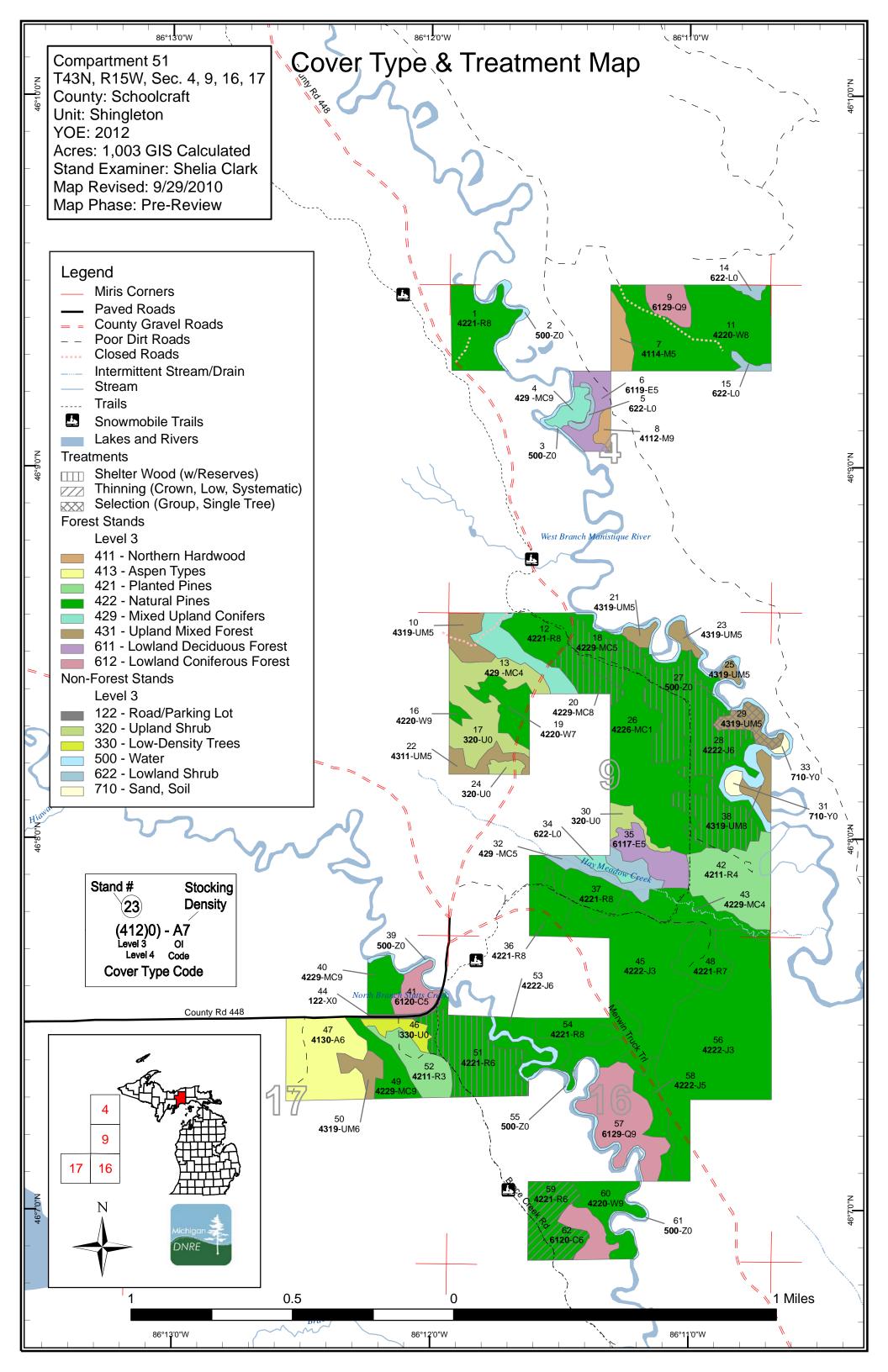
Recreational Facilities and Opportunities: There is a snowmobile trail running through the entire compartment. Also the old CCC camp site is posted and the rivers within the compartment are open to a variety of recreational activities.

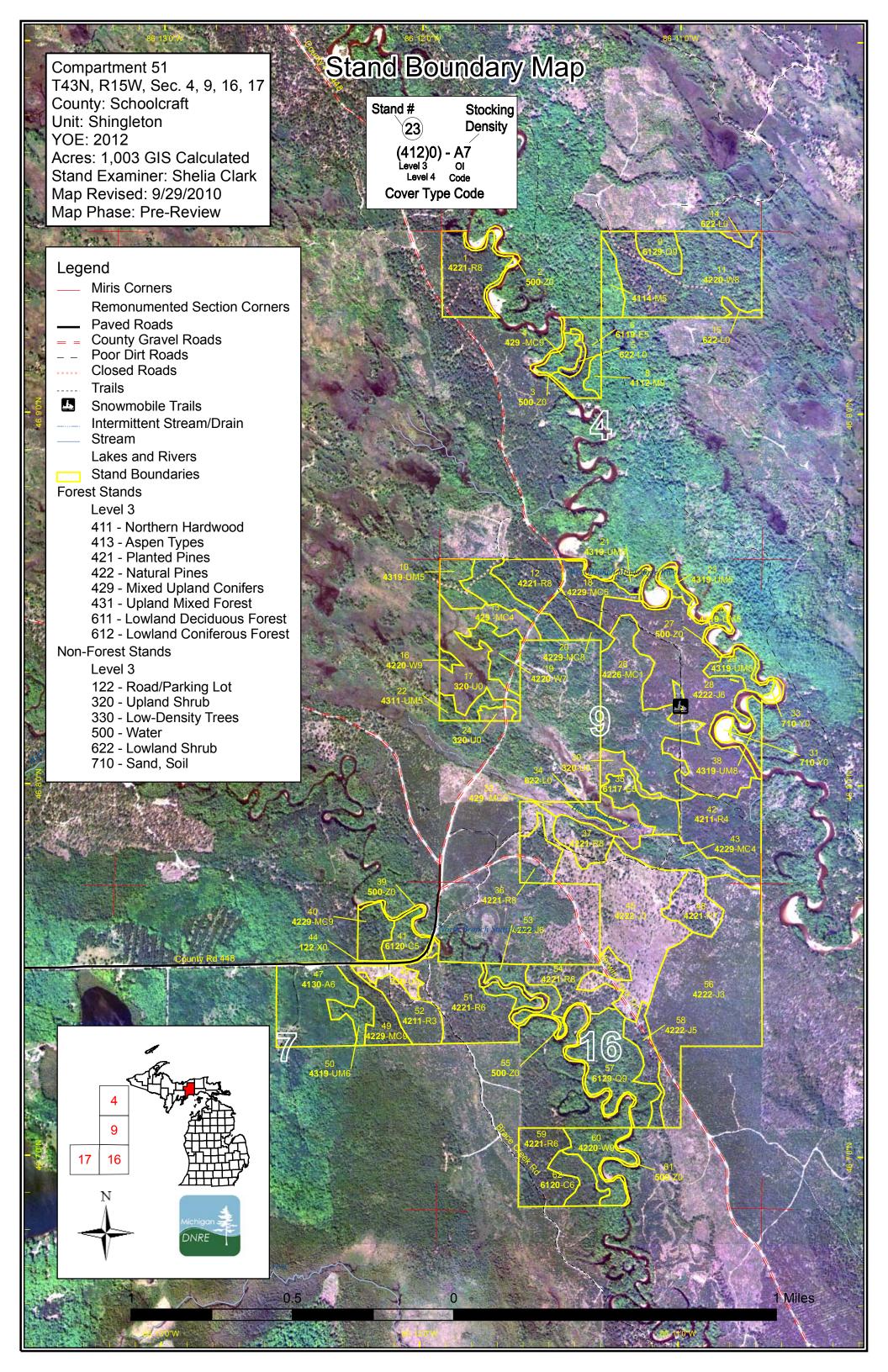
Fire Protection: There is a good deal of urban interface challenges to the west of the compartment near Smith Lake. Access is good throughout the compartment. The area is mainly comprised of pine type fuels.

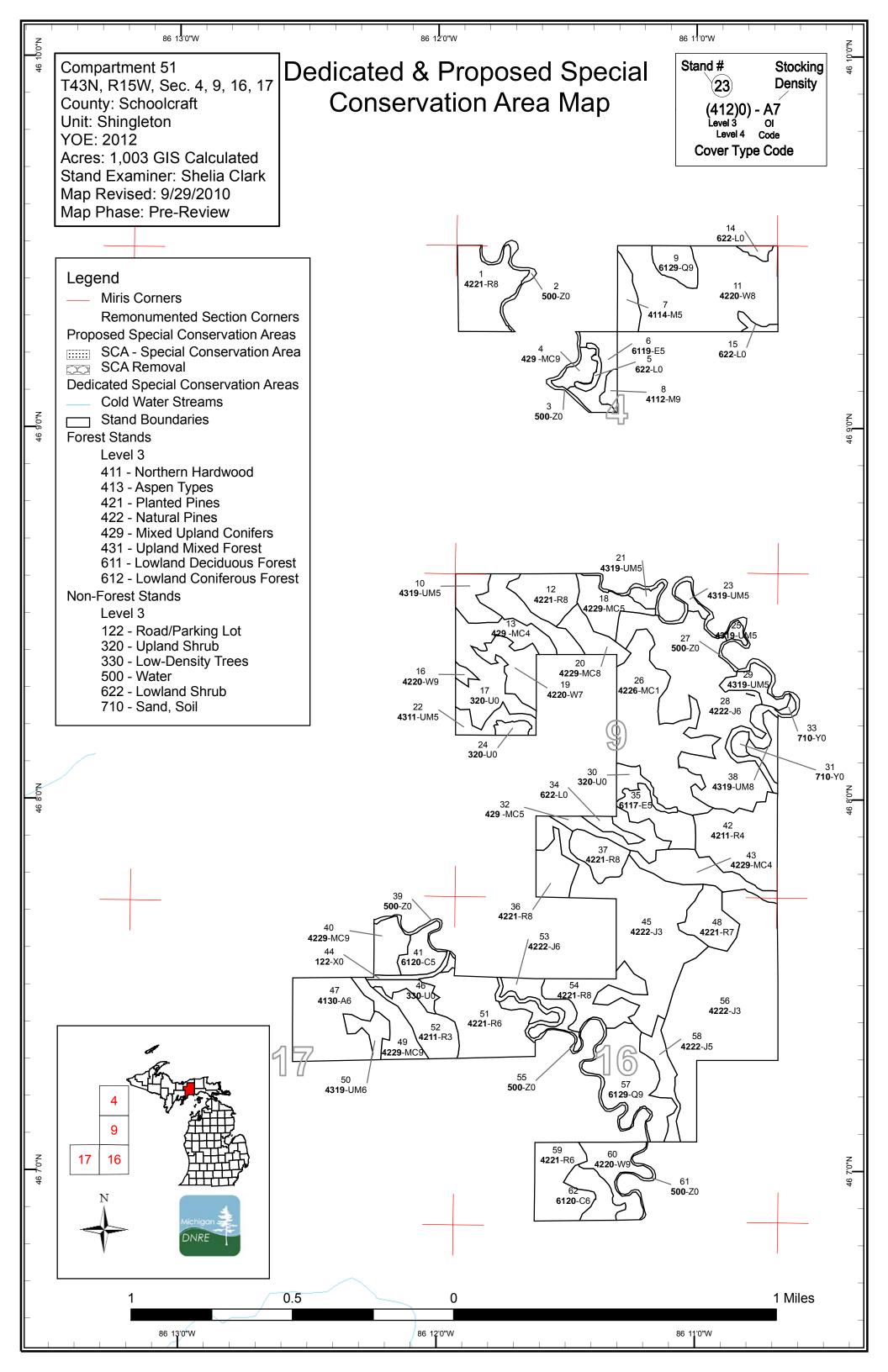
Additional Compartment Information:

- ➤ The following reports from the Inventory are attached:
 - **♦** Total Acres by Cover Type and Age Class
 - **♦** Proposed Treatment Summary
 - **♦** Proposed Treatments No Limiting Factors
 - **♦** Proposed Treatments With Limiting Factors
 - **♦** Stand Details (Forested and Nonforested)
 - **♦ Dedicated and Proposed Special Conservation Areas**
- > The following information is displayed, where pertinent, on the attached compartment maps:
 - ♦ Base feature information, stand boundaries, cover types, and numbers
 - **♦** Proposed treatments

| ♦ | Details on the road access system | |
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Data updated before 2:00 PM

Compartment 051 Year of Entry 2012



Age Class

| | AQ. | A September 1 | 8, | 0,0 | \$2. \$2. | | D. C. | \$ | \$ / | R. in | | 8 / | 00'00 12° | 70,73 | 70° 30° | S N | , § |
|---------------------|-----|---------------|----|-----|--------------|-----|---|----|------|-------|-----|-----|-----------|-------|---------|------|--------|
| Aspen | 0 | 0 | 0 | 37 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 37 | |
| Cedar | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 10 | 0 | 9 | 0 | 0 | 0 | 19 | |
| Jack Pine | 0 | 72 | 0 | 97 | 11 | 93 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 273 | |
| Low-Density Trees | 6 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 6 | |
| Lowland Conifers | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 41 | 0 | 0 | 0 | 0 | 41 | |
| Lowland Deciduous | 0 | 0 | 0 | 14 | 0 | 0 | 0 | 0 | 0 | 0 | 11 | 0 | 0 | 0 | 0 | 25 | |
| Lowland Shrub | 18 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 18 | |
| Natural Mixed Pines | 0 | 0 | 0 | 57 | 0 | 0 | 0 | 0 | 26 | 18 | 0 | 0 | 20 | 0 | 0 | 122 | |
| Northern Hardwood | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 0 | 0 | 0 | 8 | 0 | 0 | 11 | |
| Red Pine | 0 | 0 | 0 | 0 | 15 | 34 | 0 | 23 | 0 | 37 | 0 | 26 | 16 | 0 | 57 | 207 | |
| Sand, Soil | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3 | |
| Upland Conifers | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 6 | 3 | 15 | 0 | 0 | 0 | 24 | |
| Upland Mixed Forest | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 0 | 19 | 9 | 7 | 0 | 0 | 6 | 45 | |
| Upland Shrub | 42 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 42 | |
| Urban | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | |
| Water | 34 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 34 | |
| White Pine | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 15 | 16 | 63 | 0 | 0 | 0 | 0 | 94 | |
| Total | 106 | 72 | 0 | 205 | 26 | 127 | 0 | 26 | 44 | 106 | 128 | 56 | 44 | 0 | 63 | 1003 | |



Table 2 – Proposed Treatment Summaries

Data updated before 2:00 PM

Shingleton Mgt. Unit Year of Entry 2012

Compartment 051
Total Compartment Acres: 1003

Acres by Treatment Type

Commercial Harvest - 155 Site Prep - 0 Tree Planting - 0 Prescribed Burn - 0 Other - 0

Habitat Cut - 0 Opening Maintenance - 0 Tree Seeding - 0 Pesticide - 0

Cover Type by Harvest Method

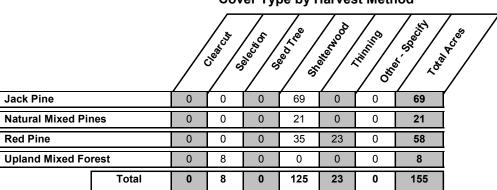


Table 3 -- Treatments Prescribed Compartment: 051 Shingleton Mgt. Unit with No Limiting Factor Year of Entry 2012 s Data updated before 2:00 PM t **Treatment** Acres Stage1 Size Stand **Treatment Treatment** Cover Type **Approval** n Method Name Objective Status CoverType Density d Age Type Medium Density 18 41051018-Cut 11.0 42290 - Natural 75 Harvest Shelterwood Natural Pine, Mixed Cmpt. Review Proposal Mixed Pine Pole Deciduous Prescription Remove all jack pine and aspen. Thin red and white pine to 50 square feet. Buffer Manistique River which will be considered retention. Leave one other retention area. Specs: **Other** Comments: Acceptable regeneration is aspen, jack pine, red pine, and white pine. Do regeneration check per work insturctions guidelines. <u>Next</u> Steps: 41051020-Cut 42290 - Natural Medium Density Shelterwood Natural Pine, Mixed Cmpt. Review 9.6 Harvest Mixed Pine Log Deciduous Proposal Prescription Remove all jack pine. Thin red and white pine 40-60 square feet. Leave a couple of islands of retention. Specs: <u>Other</u> Comments: Next Monitor the success of regeneration. Acceptable regeneration will be jack, red and white pine and aspen. Steps: Cmpt. Review 28 41051028-Cut 68.8 42220 - Natural High Density Pole Harvest Shelterwood Natural Jack Pine Jack Pine Proposal Prescription Remove all jack pine and aspen. Thin red and white pine to 40-60 square feet. Retention will be left along the river as well as a couple of patches. Specs: Other_ Comments: Scarify stand after harvest and monitor for regeneration. <u>Next</u> Steps: Single Tree Selection Mixed Upland Forest 29 41051029-Cut 7.9 4319 - Mixed Medium Density 86 Harvest Cmpt. Review **Upland Forest** Pole Proposal Prescription Thin stand to 70-90 square feet. Leave stand denser within a 100 feet of the river. Specs: <u>Other</u> Comments: <u>Next</u> Steps: 41051051-Cut 35.3 42210 - Natural Shelterwood Natural Mixed Pine High Density Pole Harvest Cmpt. Review Red Pine Proposal Prescription cut JP and reduce RP BA to 40 leave some xlog rp & wp Specs:

41051059-Cut 22.6

scarify and or underburn

42210 - Natural

Red Pine

Prescription cut JP, reduce RP to 80-90 BA, leave xlog rp & wp

High Density Pole

69

Harvest

Crown Thinning

Natural Mixed Pine

Other Comments: Next

Steps:

Specs:
Other
Comments:
Next
Steps:

59

Cmpt. Review

Proposal

Shingleton Mgt. Unit

Data updated before 2:00 PM

Stage1

CoverType

Table 3 -- Treatments Prescribed with No Limiting Factor

Stand

Age

Size

Density

Treatment

Type

Treatment

Method

Compartment: 051
Year of Entry 2012

Cover Type

Objective

DNRE Approval Status

Name Total Treatment

Treatment

s

t

n

Acreage Proposed:

155.1

Acres

Shingleton Mgt. Unit Table 4 -- Treatments Prescribed with Compartment: 051 a Limiting Factor s Year of Entry 2012 Data updated before 2:00 PM t **Treatment Treatment Cover Type** n Acres Stage1 Size Stand **Treatment Approval** Name CoverType Density Method Objective Status Age Type #Error **Prescription** Specs: <u>Other</u> Comment: <u>Next</u> Steps:

Total Treatment
Acreage Proposed:

<u>Limiting Factor and No</u> <u>Treatment Reason</u>

0

Data updated before 2:00 PM

Out of YOE -- Treatments **Prescribed with No Limiting Factor**

Year of Entry: 2012

Natural Red Pine

Cmpt. Review

Proposal

| Treatment | Acres | Stage1 | Size | Stand | Treatment | Treatment | Cover Type | Approval |
|------------------------|-------|-----------|---------|-------|-----------|---------------------------|----------------------------------|--------------------------|
| Name | | CoverType | Density | Age | Type | Method | Objective | Status |
| 41039_OutOfY OE-Cut | 14.6 | | | | Harvest | Clearcut with Reserves | Natural Pine, Mixed Deciduous | Cmpt. Review Proposal |

Prescription Cut all trees except hemlock and oak. Leave a few red pine and white pine for seed.

Specs:

Other Access to this stand will involve the installation of a temporary bridge. This could be built and placed by the logger west of this stand. Winter havest may be needed. Survey work may be needed. There is a creek / drainage located in southern part of stand, it runs east/west. Buffer 50 Comments: feet. Buffer Smith creek 100 feet. These will be the retention areas. East edge of stand has some cedar. Cedar can be cut, but sale boundary

should exclude the very dense patches.

Plant red pine on ridges to maintain component. Low ground should regenerate to mixed species. Acceptable management objectives includes Next

any species mixture currently found onsite. Steps:

41049_OutOfY 15.3 OF-Cut

Prescription Cut all species except red pine ,oak, white pine, and hemlock. Red pine and white pine should be marked. Create regeneration holes where

Harvest

Single Tree Selection

available and thin thicker areas of poles. Specs:

See MNFI comments. Winter harvest will be needed due to road conditions into treatment area. Buffer on Walsh Ditch should be placed at the

Other Comments: bottom of spoils. Protect existing red pine and white pine regeneration.

Natural regeneration of red pine, jack pine, and white pine is acceptable. Plant red pine if regeneration fails. Next

Steps:

41088 OutOfY Harvest Shelterwood Natural Red Pine Cmpt. Review **OE-Cut** Proposal

Prescription Mark red pine and white pine to 50 sq. ft. basal area to thicken crowns and prepare for regeneration harvest next year of entry. Cut all other

species except hemlock and oak. Specs:

Other_ Set up treatment as soon as it is approved at compartment review in order to combine it into one timbersale with Compartment 88, stand 43. No

Comments: additional retention small stand

Evaluate stand next year of entry for possible regeneration havest. Try to maintain management objective of natural red pine. Next

Steps:

41118 OutOfY 8.6 Harvest Crown Thinning Natural Red Pine Cmpt. Review OE_1-Cut Proposal

Prescription Cut all Jack Pine and mark Red and White Pine to 90 BA

Specs:

Other_ Cut with stand 34 comp 117

Comments:

Next Steps:

> 41179_OutOfY Harvest Single Tree Selection Sugar Maple Cmpt. Review

OE-Cut Association Proposal Prescription Cut to 80 SF using selection system. Release crop trees using the complete marker as a guide, mark for best tree in place. This stand has some

species variation across it, thin to improve diversity favor retention of mesic confers. In areas of beech use beach bark marking guidelines. Place Specs: gaps in areas of less shade tolerant species. Cut aspen clones for aspen regeneration. Leave some single aspen trees where possible for soft

Other Acceptable regeneration is a mix of hardwood species including Sugar maple, Red maple, Basswood, Black Cherry, Yellow Birch, Aspen, White

Comments: Birch, Hemlock and White Pine

Next Steps:

Total Treatment

45.1 Acreage Proposed:

| s t | Shingletor | n Mgt. Unit | | | orested Stands ated before 2:00 PN | Compartment: 051 Year of Entry: 2012 |
|-------------|--|------------------------|-------|--------------|---------------------------------------|--------------------------------------|
| a n d | Level 4 Cover Type | Size Density | Acres | Stand Age | BA Range | General Comments: |
| 1 | 42210 - Natural Red Pine | Medium Density Log | 25.6 | 109 | 81-110 | |
| 4 | 429 - Mixed Upland Conifers | High Density Log | 5.5 | 83 | 111-140 | |
| 6 | 6119 - Mixed Lowland Deciduous Forest | Medium Density Pole | 10.7 | 98 | 81-110 | |
| 7 | 4114 - Beech, Hemlock | Medium Density Pole | 8.1 | 110 | 111-140 | |
| 8 | 4112 - Maple, Beech, Cherry Association | High Density Log | 3.0 | 78 | 51-80 | |
| 9 | 6129 - Mixed Coniferous Lowland Forest | High Density Log | 8.9 | 98 | | |
| 10 | 4319 - Mixed Upland Forest | Medium Density Pole | 9.5 | 97 | 1-50 | |
| 11 | 42200 - Natural White Pine | Medium Density Log | 63.4 | 99 | 51-80 | |
| 12 | 42210 - Natural Red Pine | Medium Density Log | 15.6 | 111 | 81-110 | |
| 13 | 429 - Mixed Upland Conifers | Low Density Pole | 14.6 | 102 | 1-50 | |
| 16 | 42200 - Natural White Pine | High Density Log | 1.6 | 72 | | |
| 18 | 42290 - Natural Mixed Pine | Medium Density Pole | 13.8 | 75 | 111-140 | |
| 19 | 42200 - Natural White Pine | Low Density Log | 13.5 | 72 | 1-50 | |
| 20 | 42290 - Natural Mixed Pine | Medium Density Log | 9.6 | 111 | 111-140 | |
| 21 | 4319 - Mixed Upland Forest | Medium Density Pole | 3.1 | 69 | 81-110 | |
| 22 | 4311 - Pine, Aspen Mix | Medium Density Pole | 7.2 | 101 | 51-80 | |
| 23 | 4319 - Mixed Upland Forest | Medium Density Pole | 3.1 | 86 | 81-110 | |
| 25 | 4319 - Mixed Upland Forest | Medium Density Pole | 1.8 | 86 | 81-110 | |

| s t | Shingleton | n Mgt. Unit | | | orested Standated before 2:0 | |
|-------------|--|-------------------------|-------|--------------|------------------------------|--|
| a n d | Level 4 Cover Type | Size Density | Acres | Stand Age | BA Range | General Comments: |
| 26 | 42260 - Natural Pine, Mixed Deciduous | Low Density Sapling | 56.8 | 27 | 1-50 | |
| 28 | 42220 - Natural Jack Pine | High Density Pole | 79.1 | 48 | 111-140 | |
| 29 | 4319 - Mixed Upland Forest | Medium Density Pole | 7.9 | 86 | 81-110 | Old oxbow dry no brush. Come to a cliff with 10 foot drop. |
| 32 | 429 - Mixed Upland Conifers | Medium Density Pole | 3.5 | 92 | 1-50 | |
| 35 | 6117 - Lowland Deciduous, Mixed Coniferous | Medium Density Pole | 14.2 | 27 | 1-50 | |
| 36 | 42210 - Natural Red Pine | Medium Density Log | 11.5 | 84 | 111-140 | |
| 37 | 42210 - Natural Red Pine | Medium Density Log | 11.7 | 84 | 51-80 | |
| 38 | 4319 - Mixed Upland Forest | Medium Density Log | 5.9 | 86 | 51-80 | |
| 40 | 42290 - Natural Mixed Pine | High Density Log | 10.7 | 119 | 51-80 | old growth stand |
| 41 | 6120 - Lowland Cedar | Medium Density Pole | 9.0 | 100 | | |
| 42 | 42110 - Planted Red Pine | Low Density Pole | 34.1 | 49 | 51-80 | |
| 43 | 42290 - Natural Mixed Pine | Low Density Pole | 18.3 | 86 | 81-110 | |
| 45 | 42220 - Natural Jack Pine | High Density Sapling | 72.1 | 9 | 1-50 | |
| 47 | 4130 - Aspen | High Density Pole | 36.5 | 28 | 81-110 | good site |
| 48 | 42210 - Natural Red Pine | Low Density Log | 14.3 | 84 | 1-50 | |
| 49 | 42290 - Natural Mixed Pine | High Density Log | 12.4 | 75 | 111-140 | xlog stand |

4319 - Mixed Upland Forest

42210 - Natural Red

Pine

50

51

High Density Pole

High Density Pole 6.4

36.5

Uneven Age

Uneven Age

81-110

scattered RP logs in jp rp wp poles

| s t | Shingleto | n Mgt. Unit | | | rested Stands ed before 2:00 PM | Compartment: 051 Year of Entry: 2012 ONRE |
|-------------|--|-------------------------|-------|--------------|------------------------------------|--|
| a n d | Level 4 Cover Type | Size Density | Acres | Stand Age | BA Range | General Comments: |
| 52 | 42110 - Planted Red Pine | High Density Sapling | 15.1 | 39 | 1-50 | |
| 53 | 42220 - Natural Jack Pine | High Density Pole | 13.6 | 46 | 1-50 | |
| 54 | 42210 - Natural Red Pine | Medium Density Log | 20.3 | Uneven Age | 1-50 | |
| 56 | 42220 - Natural Jack Pine | High Density Sapling | 97.3 | 26 | 1-50 | |
| 57 | 6129 - Mixed Coniferous Lowland Forest | High Density Log | 32.3 | 99 | 51-80 | |
| 58 | 42220 - Natural Jack Pine | Medium Density Pole | 11.0 | 38 | 1-50 | |
| 59 | 42210 - Natural Red Pine | High Density Pole | 22.6 | 69 | 141-170 | dry pine site |
| 60 | 42200 - Natural White Pine | High Density Log | 15.9 | 85 | 111-140 | historic flood plain, has old oxbows |

High Density Pole

9.7

85

81-110

6120 - Lowland Cedar

62

Shingleton Mgt. Unit

6 - Nonforested Stands Data updated before 2:00 PM

Compartment: 051 Year of Entry: 2012

| Stand | Cover Type | Acres | Gen Cmts: |
|-------|----------------------------------|-------|-----------------|
| 2 | 50 - Water | 3.4 | |
| 3 | 50 - Water | 2.0 | |
| 5 | 622 - Lowland Shrub | 2.1 | |
| 14 | 622 - Lowland Shrub | 2.0 | |
| 15 | 622 - Lowland Shrub | 2.1 | |
| 17 | 320 - Upland Shrub | 33.6 | |
| 24 | 320 - Upland Shrub | 2.9 | |
| 27 | 50 - Water | 16.5 | |
| 30 | 320 - Upland Shrub | 5.5 | |
| 31 | 710 - Sand, Soil | 2.2 | |
| 33 | 710 - Sand, Soil | 1.0 | |
| 34 | 622 - Lowland Shrub | 12.1 | |
| 39 | 50 - Water | 1.9 | Stutts Creek |
| 44 | 122 - Road/Parking Lot | 2.4 | County Road 448 |
| 46 | 3302 - Low Density Conifer Trees | 6.1 | |
| 55 | 50 - Water | 8.4 | Stutts Creek |
| 61 | 50 - Water | 1.9 | Stutts Creek |
| | | | |

Shingleton Mgt. Unit

Compartment: 051 Year of Entry: 2012



7 - PROPOSED SPECIAL CONSERVATION AREA* (SCA) DETAILS

* This is a partial list of SCAs for this compartment. Not included are those areas identified under other Department initiatives (Natural Rivers, Deer Wintering Areas, etc.). Those will be identified in separate, future map and report products.

Data updated before 2:00 PM

| Stand | SCA Type | SCA Name | Acres | Comments |
|-------|----------|----------|-------|----------|
| | | | | |
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Shingleton Mgt. Unit Compartment: 051
Year of Entry 2012

8 – 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.

Data updated before 2:00 PM

ERA = Ecological Reference Area HCVA = High Conservation Value Area

SCA = Special Conservation Area

Conservation Type

Area

pe Description