



**Shingleton Forest Management Unit
Compartment Review Presentation
Compartment #142 Entry Year: 2012
Compartment Acreage: 2376 County: Alger**

Revision Date: 9-23-2010

Stand Examiner: Jesse Bramer

Legal Description: 48N 15W Sections: 19, 20, 28, 29, 30

Identified Planning Goals ('Management Area' or 'RMU', if applicable): Danaher Kingston Outwash

Management Goals: To manage for Wildlife, timber, and natural history while providing recreational opportunities to the public.

Soil and Topography: The terrain within this compartment is rolling to flat Outwash Transition, Kingston Outwash.

Ownership Patterns, Development, and Land Use in and Around the Compartment: The Forest Land Group owns land to the North, West, and South of this compartment.

Unique, Natural Features: Pine stump reservoir in are within parts of this compartment. **Loon** (*Gavia immer*, state threatened) have been recorded nesting in nearby Nevin's Lake and Nugent Lake.

Archeological, Historical, and Cultural Features:

Special Management Designations or Considerations:

Watershed and Fisheries Considerations: Fisheries Values – There are no fisheries values within this compartment. Only a shallow pond exists within the compartment.

Wildlife Habitat Considerations: This compartment lies in the Grand Marais Sandy End Moraine and Outwash sub-subsection ecological unit. It is characterized by a growing season of less than 100 days. Winter temperatures can reach lows of –40 degrees F. Average annual snowfall may exceed 200 inches. The original notes from the land surveyors indicate that this area was dominated by an upland mix of northern hardwood and conifers. Species mentioned include hemlock, white pine, sugar maple, red maple, beech, yellow birch, white birch, spruce (probably white spruce) and fir. After the initial wave of logging removed the timber circa 1900, hot slash fires swept across this compartment consuming not only the residual wood, but also the organic content within the soil. This combination of logging and slash fires produced a large open plains with raw sand soils. Today, the compartment is dominated by hardwood and white pine (similar in species composition as the presettlement forest) on the west and south. Pine plantations and upland openings cover the north, central and eastern portion of the compartment. The upland openings contain a large number of old stumps that serve as a reminder of the natural history in this area. Wildlife habitat management objectives for this compartment include maintaining the large opening complexes for openland species and historical purposes. The goal for the hardwood and white pine stands is to continue to encourage species diversity that reflects presettlement conditions. Wildlife species of interest known to occupy this compartment include the sharp-tailed grouse, merlin, sandhill cranes and martens. Common Loons have been observed using Nevin's Lake

Mineral Resource and Development Concerns and/or Restrictions: Surface sediments consist of glacial outwash sand and gravel and postglacial alluvium. There is insufficient data to determine the glacial drift thickness. The Cambrian Trempealeau and Ordovician Prairie du Chien (PdC) subcrop below the glacial drift. The Trempealeau and PdC could be used for stone. There are not any gravel pits in the area. There appears to be limited gravel potential on State lands.

Vehicle Access: Many trails, two track roads, and County Road H-58 exist within this compartment.

Survey Needs: There may be need for survey work on SW corner of Section 19.

Recreational Facilities and Opportunities: The main snowmobile trail to Grand Marais runs through the compartment. There is a lot of dispersed camping activity at Fred's Pond. There is an information center at the junction of H-58 and the Adams Trail. Being the main route through Pictured Rocks National Lakeshore, there is a lot of recreational automobile traffic in the snow-free months.

Fire Protection: This area is a fire concern due to its pine fuels. Road access is good across the compartment making initial attack easier.

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**

Compartment 142
 T48N, R15W, Sec. 19, 20, 28-30
 County: Alger
 Unit: Shingleton
 YO: 2012
 Acres: 2,385 acres GIS Calculated
 Stand Examiner: Jesse Bramer
 Map Revised: 9/30/2010
 Map Phase: Pre-Review

Stand #
 23
 Stocking
 Density
 (412)0 - A7
 Level 3 OI
 Level 4 Code
 Cover Type Code

Cover Type & Treatment Map

Legend

- Miris Corners
- Remonumented Section Corners
- Highway
- Paved Roads
- Poor Dirt Roads
- State Highway
- Trails
- Snowmobile Trails
- Intermittent Stream/Drain
- Stream
- Lakes and Rivers

Treatments

- Clearcut (w/Reserves, Patch/Strip)
- Seed Tree (w/Reserves)
- Shelter Wood (w/Reserves)
- Thinning (Crown, Low, Systematic)
- Selection (Group, Single Tree)
- Planting (tree species)

Forest Stands

Level 3

- 411 - Northern Hardwood
- 421 - Planted Pines
- 422 - Natural Pines
- 423 - Other Upland Conifers
- 429 - Mixed Upland Conifers
- 431 - Upland Mixed Forest

Non-Forest Stands

Level 3

- 122 - Road/Parking Lot
- 310 - Herbaceous Openland
- 320 - Upland Shrub
- 330 - Low-Density Trees
- 500 - Water
- 622 - Lowland Shrub
- 623 - Emergent Wetland

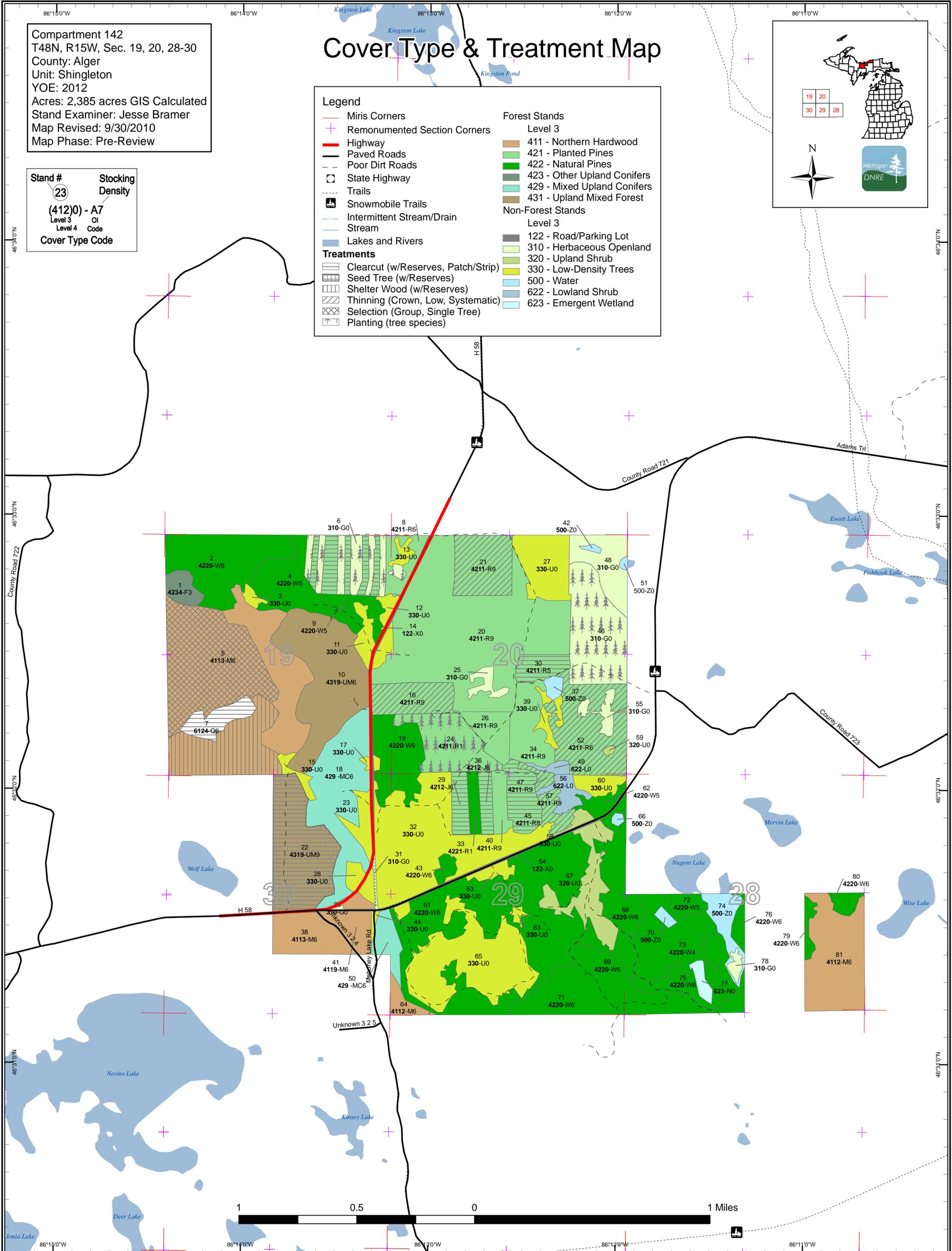
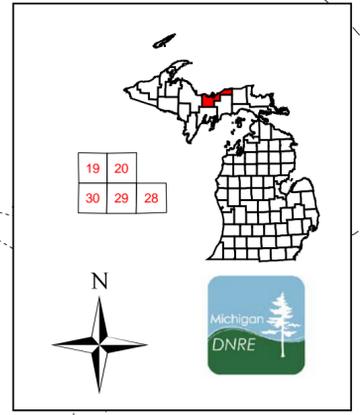


Table 1 – Total Acres by Cover Type and Age Class

Data updated before 2:00 PM



	Age Class														Total	
	Non-Forested	1-9	10-19	20-29	30-39	40-49	50-59	60-69	70-79	80-89	90-99	100-109	110-119	120 +		Unrepen Age
Herbaceous Openland	148	0	0	0	0	0	0	0	0	0	0	0	0	0	0	148
Jack Pine	0	0	0	0	0	0	21	0	0	0	0	0	0	0	0	21
Low-Density Trees	328	0	0	0	0	0	0	0	0	0	0	0	0	0	0	328
Lowland Conifers	0	0	0	0	0	0	0	0	0	0	0	0	0	0	17	17
Lowland Shrub	14	0	0	0	0	0	0	0	0	0	0	0	0	0	0	14
Marsh	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6
Northern Hardwood	0	0	0	8	0	0	69	279	0	0	0	0	0	0	0	356
Red Pine	0	8	43	0	0	0	490	0	0	0	0	0	0	0	0	541
Upland Conifers	0	0	0	0	0	0	14	77	0	0	0	0	0	0	0	91
Upland Mixed Forest	0	0	0	0	0	0	75	0	0	0	0	0	96	0	0	171
Upland Shrub	39	0	0	0	0	0	0	0	0	0	0	0	0	0	0	39
Upland Spruce/Fir	0	0	0	11	0	0	0	0	0	0	0	0	0	0	0	11
Urban	18	0	0	0	0	0	0	0	0	0	0	0	0	0	0	18
Water	27	0	0	0	0	0	0	0	0	0	0	0	0	0	0	27
White Pine	0	0	0	0	12	59	355	164	0	0	0	0	6	0	0	596
Total	580	8	43	19	12	59	1024	521	0	0	0	0	102	0	17	2385



Table 2 – Proposed Treatment Summaries

Data updated before 2:00 PM

Shingleton Mgt. Unit
Year of Entry 2012

Compartment 142
Total Compartment Acres: 2385

Acres by Treatment Type

Commercial Harvest - 492	Site Prep - 0	Tree Planting - 138	Prescribed Burn - 0	Other - 0
Habitat Cut - 0	Opening Maintenance - 0	Tree Seeding - 0	Pesticide - 0	

Cover Type by Harvest Method

		Clearcut	Selection	Seed Tree	Shelterwood	Thinning	Other - Specify	Total Acres
Jack Pine	21	0	0	0	0	0	0	21
Lowland Conifers	17	0	0	0	0	0	0	17
Northern Hardwood	0	107	0	61	0	0	0	168
Red Pine	63	0	0	0	147	0	0	210
Upland Mixed Forest	0	0	75	0	0	0	0	75
Total	101	107	75	61	147	0	0	492



Data updated before 2:00 PM

S
t
a
n
d

Treatment Name	Acres	Stage1 CoverType	Size Density	Stand Age	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
5 41142005-Cut	107.4	4113 - R.Maple, Conifer	High Density Log	63	Harvest	Single Tree Selection	R.Maple, Conifer	Cmpt. Review Proposal

Prescription Treatment= Single tree selection with emphasis on beech species. Thin stand to around 80 BA.

Specs: Long term MO= Create opportunities for and enhance oak and existing stand regeneration with the acceptance of conversion to a white pine/hemlock cover type in the future.

Retention= Retain species diversity in addition to wildlife trees and seed trees. Leave any hemlock and oak.

Other

Comments:

Next Steps: Underplant with oak and possibly hemlock.

7 41142007-Cut	17.2	42340 - Upland Spruce/Fir	High Density Pole	91	Harvest	Clearcut with Reserves	Upland Spruce/Fir	Cmpt. Review Proposal
----------------	------	---------------------------	-------------------	----	---------	------------------------	-------------------	-----------------------

Prescription Treatment= Final harvest. Remove all merchantable tree species.

Specs: Long term MO= Stand regeneration of spruce/fir, other mixed upland species and conifer.

Retention= Leave all hemlock and submerchantable spruce/fir.

Other

Stand should be harvested when surrounding stand is scheduled.

Comments:

Next

Steps:

8 41142008-Cut	25.8	42110 - Planted Red Pine	High Density Pole	56	Harvest	Clearcut	Planted Red Pine	Cmpt. Review Proposal
----------------	------	--------------------------	-------------------	----	---------	----------	------------------	-----------------------

Prescription Treatment= Clearcut existing red pine and any other tree species present except for any oak. Regenerate stand to jack pine.

Specs: Longterm MO= Jack pine stand

Other

Comments:

Next Steps: Regenerate jack pine utilizing scarification, trenching & hand planting or burning.

16 41142016-Cut	29.1	42110 - Planted Red Pine	High Density Log	56	Harvest	Systematic Thinning	Planted Red Pine	Cmpt. Review Proposal
-----------------	------	--------------------------	------------------	----	---------	---------------------	------------------	-----------------------

Prescription Treatment= Mark every 3rd row or where applicable. Harvest only red pine marked with orange paint. Remove all other merchantable species

Specs: except any black cherry, white pine, and red maple unless needed for accessibility. Do not cut oak.

Long term MO= Red Pine dominate stand.

Retention= Residual BA is within the untreated portions in the stand.

Other

Directly off of H-58 with good access. Stand is Healthy enough to be held for another 10 years.

Comments:

Next

Steps:

21 41142021-Cut	39.6	42110 - Planted Red Pine	High Density Log	56	Harvest	Systematic Thinning	Planted Red Pine	Cmpt. Review Proposal
-----------------	------	--------------------------	------------------	----	---------	---------------------	------------------	-----------------------

Prescription Treatment= Mark every 3rd row or where applicable. Harvest only red pine marked with orange paint. Remove all other merchantable species

Specs: except black cherry and white pine, unless needed for accessibility. Do not cut oak.

Long term MO= Red Pine dominate stand.

Retention= Residual BA is within the untreated portions of the stand.

Other

Near H-58. Good Access

Comments:

Next

Steps:

S
t
a
n
d

Data updated before 2:00 PM

Treatment Name	Acres	Stage1 CoverType	Size Density	Stand Age	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
22 41142022-Cut	75.2	4319 - Mixed Upland Forest	High Density Log	56	Harvest	Seed Tree with Reserves	R.Maple, Conifer	Cmpt. Review Proposal

Prescription: Treatment= Overstory removal of red maple, beech, and any merchantable spruce/fir.

Specs: Long term MO= Overstory conversion from a red maple covertype to presettlement conditions, such as a white pine and hemlock dominate stand.

Retention= All hemlock, oak, yellow birch, and white pine will be reserved. Only white pine can be cut if needed for access if needed.

Other

Comments:

Next Steps: Experimental prescribe burn to set back beech regeneration. Afterwards possibly handplant oak in openings.

29 41142029-Cut	12.0	42120 - Planted Jack Pine	High Density Pole	56	Harvest	Clearcut	Planted Jack Pine	Cmpt. Review Proposal
-----------------	------	---------------------------	-------------------	----	---------	----------	-------------------	-----------------------

Prescription: Treatment= Harvest all species except any hemlock and oak.

Specs: Longterm MO= Jack pine stand

Other

Comments:

Next Steps: Regenerate jack pine utilizing scarification, trenching & hand planting or burning

30 41142030-Cut	14.0	42110 - Planted Red Pine	Medium Density Pole	54	Harvest	Clearcut with Reserves	Planted Red Pine	Cmpt. Review Proposal
-----------------	------	--------------------------	---------------------	----	---------	------------------------	------------------	-----------------------

Prescription: Treatment= Stand is currently under contract TS # 41-045-08-01. RPP- Kingston Lake Road. Stand will be final harvested, trenched, and planted to Red Pine.

Specs: Long term MO= Stand regeneration of planted red pine

Retention= Underplanted red pine.

Other Was subjected to fire several years ago and some charring remains.

Comments:

Next Steps: FTP# C41-1401 RED PINE PLANTING BY TRENCHING AND PLANTING RED PINE. Part of Red Pine Project

36 41142036-Cut	9.3	42120 - Planted Jack Pine	High Density Pole	56	Harvest	Clearcut	Planted Jack Pine	Cmpt. Review Proposal
-----------------	-----	---------------------------	-------------------	----	---------	----------	-------------------	-----------------------

Prescription: Treatment= Harvest all species except any hemlock and oak.

Specs: Longterm MO= Jack pine stand

Other

Comments:

Next Steps: Regenerate jack pine utilizing scarification, trenching & hand planting or burning

45 41142045-Cut	23.0	42110 - Planted Red Pine	Medium Density Log	56	Harvest	Clearcut with Reserves	Planted Red Pine	Cmpt. Review Proposal
-----------------	------	--------------------------	--------------------	----	---------	------------------------	------------------	-----------------------

Prescription: Treatment= Stand is currently under contract TS # 41-045-08-01. RPP- Kingston Lake Road. Stand will be final harvested, trenched, and planted to Red Pine.

Specs: Long term MO= Stand regeneration of planted red pine

Retention= Underplanted red pine.

Other

Comments:

Next Steps: FTP# C41-1401 RED PINE PLANTING BY TRENCHING AND PLANTING RED PINE. Part of Red Pine Project



Data updated before 2:00 PM

S
t
a
n
d

Treatment Name	Acres	Stage1 CoverType	Size Density	Stand Age	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
47 41142047-Cut	4.4	42110 - Planted Red Pine	High Density Log	56	Harvest	Systematic Thinning	Planted Red Pine	Cmpt. Review Proposal

Prescription Treatment= Mark every 3rd row or where applicable. Harvest only red pine marked with orange paint. Remove all other merchantable species
Specs: except any black cherry, red maple, and white pine unless needed for access. Do not cut oak under any circumstances.
 Long term MO= Red pine dominate stand
 Retention= Residual basal area is within the untreated rows.

Other
Comments:

Next
Steps:

52 41142052-Cut	64.0	42110 - Planted Red Pine	High Density Pole	56	Harvest	Systematic Thinning	Planted Red Pine	Cmpt. Review Proposal
-----------------	------	--------------------------	-------------------	----	---------	---------------------	------------------	-----------------------

Prescription Treatment= Mark every 3rd row or where applicable. Harvest only red pine marked with orange paint. Remove all other merchantable species
Specs: except any black cherry and white pine, unless needed for accessibility. Do not cut oak.
 Long term MO= Red Pine dominate stand.
 Retention= Residual BA is within the untreated rows.

Other Variable tree densities and quality.
Comments:

Next
Steps:

57 41142057-Cut	10.1	42110 - Planted Red Pine	High Density Log	56	Harvest	Systematic Thinning	Planted Red Pine	Cmpt. Review Proposal
-----------------	------	--------------------------	------------------	----	---------	---------------------	------------------	-----------------------

Prescription Treatment= Mark every 3rd row or where applicable. Harvest only red pine marked with orange paint. Remove all other merchantable species
Specs: except any black cherry, red maple, and white pine unless needed for access. Do not cut oak under any circumstances.
 Long term MO= Red pine dominate stand
 Retention= Residual basal area is within the untreated rows.

Other
Comments:

Next
Steps:

5 41142111-Cut	60.8	4113 - R.Maple, Conifer	High Density Log	63	Harvest	Shelterwood	R.Maple, Conifer	Cmpt. Review Proposal
----------------	------	-------------------------	------------------	----	---------	-------------	------------------	-----------------------

Prescription Treatment= Remove all merchantable red maple, and any merchantable spruce/fir. Cut most of the beech component leaving a few healthy
Specs: individuals about 1 per acre if possible. Do not cut white pine, hemlock, sugar maple, yellow birch, cedar, or oak.
 Long term MO= Hemlock/white pine dominate stand
 Retention= Submerchantable spruce/fir, reserved white pine, oak, hemlock, yellow birch, and any sugar maple. Basal area should be maintained from 30-50.

Other
Comments:

Next Possible hand plant oak in openings.
Steps:

24 41142024-Plant	43.1	42110 - Planted Red Pine	Low Density Sapling	14	Tree Planting	Machine Plant	Planted Red Pine	Cmpt. Review Proposal
-------------------	------	--------------------------	---------------------	----	---------------	---------------	------------------	-----------------------

Prescription Treatment= Trench and replant red pine
Specs: Long term MO= Well stocked red pine stand
 Retention=

Other
Comments:

Next Trench and replant to red pine.
Steps:

S
t
a
n
d

Data updated before 2:00 PM

Treatment Name	Acres	Stage1 CoverType	Size Density	Stand Age	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
6 NF_41142006-Plant	29.5	Non-Forested		0	Tree Planting	Machine Plant	Planted Jack Pine	Cmpt. Review Proposal

Prescription: FTP# C41-1092 Jack pine machine planting

Specs:

Other

Comments:

Next Steps: Regen. survey per work instructions

46 NF_41142046-Plant	65.7	Non-Forested		0	Tree Planting	Machine Plant	Planted Red Pine	Cmpt. Review Proposal
----------------------	------	--------------	--	---	---------------	---------------	------------------	-----------------------

Prescription: FTP# C41-1402 Machine plant red pine

Specs:

Other

Comments:

Next Steps: Regeneration survey as stated by work instructions

**Total Treatment
Acreage Proposed: 629.9**



S
t
a
n
d

Treatment Name	Acres	Stage1 CoverType	Size Density	Stand Age	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
----------------	-------	------------------	--------------	-----------	----------------	------------------	----------------------	-----------------

#Error

Prescription
Specs:

Other
Comment:

Next
Steps:

Limiting Factor and No
Treatment Reason

Total Treatment
Acreage Proposed: 0



Treatment Name	Acres	Stage1 CoverType	Size Density	Stand Age	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
41039_OutOfY OE-Cut	14.6				Harvest	Clearcut with Reserves	Natural Pine, Mixed Deciduous	Cmpt. Review Proposal
<u>Prescription:</u> Cut all trees except hemlock and oak. Leave a few red pine and white pine for seed.								
<u>Specs:</u>								
<u>Other Comments:</u> 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 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.								
<u>Next Steps:</u> Plant red pine on ridges to maintain component. Low ground should regenerate to mixed species. Acceptable management objectives includes any species mixture currently found onsite.								
41049_OutOfY OE-Cut	15.3				Harvest	Single Tree Selection	Natural Red Pine	Cmpt. Review Proposal
<u>Prescription:</u> Cut all species except red pine ,oak, white pine, and hemlock. Red pine and white pine should be marked. Create regeneration holes where available and thin thicker areas of poles.								
<u>Specs:</u>								
<u>Other Comments:</u> See MNFI comments. Winter harvest will be needed due to road conditions into treatment area. Buffer on Walsh Ditch should be placed at the bottom of spoils. Protect existing red pine and white pine regeneration.								
<u>Next Steps:</u> Natural regeneration of red pine, jack pine, and white pine is acceptable. Plant red pine if regeneration fails.								
41088_OutOfY OE-Cut	2.3				Harvest	Shelterwood	Natural Red Pine	Cmpt. Review Proposal
<u>Prescription:</u> 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.								
<u>Specs:</u>								
<u>Other Comments:</u> Set up treatment as soon as it is approved at compartment review in order to combine it into one timbersale with Comparment 88, stand 43. No additional retention, small stand.								
<u>Next Steps:</u> Evaluate stand next year of entry for possible regeneration havest. Try to maintain management objective of natural red pine.								
41118_OutOfY OE_1-Cut	8.6				Harvest	Crown Thinning	Natural Red Pine	Cmpt. Review Proposal
<u>Prescription:</u> Cut all Jack Pine and mark Red and White Pine to 90 BA								
<u>Specs:</u>								
<u>Other Comments:</u> Cut with stand 34 comp 117								
<u>Next Steps:</u>								
41179_OutOfY OE-Cut	4.2				Harvest	Single Tree Selection	Sugar Maple Association	Cmpt. Review Proposal
<u>Prescription:</u> 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 gaps in areas of less shade tolerant species. Cut aspen clones for aspen regeneration. Leave some single aspen trees where possible for soft snags.								
<u>Specs:</u>								
<u>Other Comments:</u> Acceptable regeneration is a mix of hardwood species including Sugar maple, Red maple, Basswood, Black Cherry, Yellow Birch, Aspen, White Birch, Hemlock and White Pine								
<u>Next Steps:</u>								
Total Treatment Acreage Proposed:		45.1						



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
1	42340 - Upland Spruce/Fir	High Density Sapling	10.9	29	111-140	This stand contains large white pine in the overstory with a medium sized spruce/fir component.
2	42200 - Natural White Pine	High Density Pole	68.2	60	81-110	White pine was thinned out in 1973 within this stand. Hemlock, fir, spruce and merchantable hardwoods were harvested in 1974. Large white pine trees are still present with pole sized fir/spruce and hardwoods mixed within it. The understory is thick with regeneration.
4	42200 - Natural White Pine	Medium Density Pole	43.5	65	51-80	This stand is less dense than surrounding stands. There is white pine dominating the overstory with spruce/fir mixed in. Red maple is present, but not abundant as in neighboring stands.
5	4113 - R.Maple, Conifer	High Density Pole	227.2	63	111-140	The west and east sides were thinned of white pine, hemlock, balsam, and spruce in the 60 and 70's. In the northern portion of the stand hardwoods are the majority with red maple being the most abundant. The eastern fringe of this stand contains a flush of hemlock regeneration in the understory. The southern portion contains red maple with more coniferous trees mixed in. White pine is the most abundant conifer.
7	6124 - Lowland Spruce- Fir	High Density Pole	17.2	Uneven Age	81-110	Thick spruce stand with mixed with fir, white pine, and small amounts of red maple. There is a lot of spruce/fir regen.
8	42110 - Planted Red Pine	High Density Pole	39.7	56	111-140	Strips of R. Pine inbetween J.Pine clearcut strips. BA varies along with diameters. Pole to log size trees. Selfpruning in areas.
9	42200 - Natural White Pine	Medium Density Pole	11.5	60	1-50	Appears to be an old opening that grew in. It isn't very dense, but will continue to grow in. It is mostly mixed conifer with sapling size hardwoods.
10	4319 - Mixed Upland Forest	High Density Pole	96.2	113	81-110	This stand was cut about 1990. All hardwoods were removed except some large beech. Spruce and hemlock were left too. Regeneration is a flush of red maple, beech, and mixed conifer regeneration.
16	42110 - Planted Red Pine	High Density Log	29.1	56	141-170	This stand is a planted red pine stand, with a few deciduous species growing in the understory along with white pine and fir.
18	429 - Mixed Upland Conifers	High Density Pole	77.1	60	51-80	The northern half was possibly a shelterwood cut in 1981. All fir was cut, along with thinned white pine and hardwood species in the 1980's. White pine is in the overstory with pole size red maple, fir, and beech. A flush of mixed conifer regeneration is present in the understory.
19	42200 - Natural White Pine	High Density Pole	41.1	66	1-50	This stand contains large white pine in the supercanopy with variable sized trees in the subcanopy consisting mainly of white pine, spruce, and fir.
20	42110 - Planted Red Pine	High Density Log	205.5	55	111-140	This appears to be a poorly stocked red pine plantation that varies in basal area.



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
21	42110 - Planted Red Pine	High Density Log	39.6	56	171-200	This is a well stocked red pine plantation with many log quality trees. There is an abundant white pine component in the understory.
22	4319 - Mixed Upland Forest	High Density Log	75.2	56	111-140	This stand was thinned in the 1960's and 1970's, and then again in 1996. This stand consists of mixed hardwoods and conifer trees. Red maple is the majority of the hardwood species with a lot of beech regeneration underneath. The majority of the beech has Beech Bark Disease (BBD). White pine and hemlock make up the conifer majority.
24	42110 - Planted Red Pine	Low Density Sapling	43.1	14		This stand contains planted red pine with underplanted red pine below. The overstory red pine is left from a shelterwood/seed tree harvest in 2002.
26	42110 - Planted Red Pine	High Density Log	18.6	56	111-140	A red pine plantation with varying densities, which has been underplanted in portions. Basal area is slightly lower than neighboring pine stands.
29	42120 - Planted Jack Pine	High Density Pole	12.0	56	111-140	This stand is dominantly jack pine that is mature. Mortality is occurring in pockets throughout the stand. Within the pockets, mixed conifer regeneration is flourishing.
30	42110 - Planted Red Pine	Medium Density Pole	13.9	54	81-110	This stand is part of the Red Pine Project. It was cut and underplanted, but regeneration is not coming in well in most of the stand. BA is lower than surrounding stands. The stand is currently under contract TS # 41-045-08-01. RPP- Kingston Lake Road. It will be final harvested, trenched, and planted to Red Pine. FTP # C41-1401.
33	42210 - Natural Red Pine	Low Density Sapling	8.2	7		Originally typed as grass, this stand now has trees filling in. It was underplanted with red pine and there is large mature red pine in the supercanopy.
34	42110 - Planted Red Pine	High Density Log	30.8	56	111-140	This stand is planted red pine that is currently self-pruning. There are areas of high basal area, but contains a lot of branching.
36	42120 - Planted Jack Pine	High Density Pole	9.3	56	111-140	This stand is very similar to stand 29. The jack pine is mature with some small pockets of mortality. The southern portion of the stand has mixed conifer regeneration in the understory.
38	4113 - R.Maple, Conifer	High Density Pole	31.3	60	111-140	A hardwood stand containing a lot of red maple in the pole size class. Regeneration is mostly red maple and beech with a mix of conifer species. Supercanopy white pine trees are scattered throughout the stand with pockets of spruce/fir.
40	42110 - Planted Red Pine	High Density Log	10.9	56	81-110	This planted red pine stand has low basal areas with a lot of fern in the understory.
41	4119 - Mixed Northern Hardwoods	High Density Pole	20.9	60	111-140	This stand is similar to stand 38. It contains a lot of beech regeneration with hemlock also.



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
43	42200 - Natural White Pine	High Density Pole	5.1	58	51-80	Whit pine dominant stand with abundant red maple, fir, and spruce. Basal areas vary slightly. There are many large supercanopy white pine with young regeneration underneath.
45	42110 - Planted Red Pine	Medium Density Log	23.0	56	51-80	This stand is part of the Red Pine Project. Standwater contract TS# 41-045-08-01. RPP-Kingston Lake Road. FTP # C41-1401.
47	42110 - Planted Red Pine	High Density Log	4.4	56	141-170	This stand is planted red pine with varying densities.
50	429 - Mixed Upland Conifers	High Density Pole	14.0	54	81-110	White pine dominate stand with large supercanopy trees. Red maple, fir, and spruce are mixed in too. There is a lot of fir regeneration.
52	42110 - Planted Red Pine	High Density Pole	64.0	56	171-200	Planted red pine stand with high basal areas along with lower ones. The northeast portion of the stand has a lower density of trees, but larger diameters.
57	42110 - Planted Red Pine	High Density Log	10.1	56	111-140	Planted red pine stand that is similar to stand 47.
61	42200 - Natural White Pine	High Density Pole	173.2	54	81-110	This stand has white pine in the supercanopy and sub-canopy. Spruce/fir is scattered everywhere with some high basal areas.
62	42200 - Natural White Pine	Medium Density Pole	10.1	59	1-50	This stand is composed of mainly white pine in the supercanopy and understory. The west side of the stand is more dense than the east.
64	4112 - Maple, Beech, Cherry Association	High Density Pole	8.0	24	81-110	A lot of red maple in various size classes categorize this stand with a conifer component. The conifer component gradually builds up towards the eastern border where it becomes the majority. Tree density is variable throughout stand. Blue line is painted in along neighboring private.
68	42200 - Natural White Pine	High Density Pole	34.9	54	51-80	White pine is in the supercanopy. Fir/spruce is the majority besides white pine. Densities and heights vary throughout the stand.
69	42200 - Natural White Pine	High Density Pole	12.9	54	81-110	This stand is similar to stand 68, but contains smaller trees with higher densities.
71	42200 - Natural White Pine	High Density Pole	85.4	59	81-110	Stand has been thinned. Mature W. Pine in supercanopy with sapling size W. Pine, B. Fir, W. Spruce, and RM in understory. Has areas of low and high BA. HWD's removed in 1993 for shelterwood cut.
72	42200 - Natural White Pine	Medium Density Pole	8.3	40	1-50	An old opening growing in with a mix of tree species.
73	42200 - Natural White Pine	Low Density Pole	50.7	40	1-50	Typed as grass opening last data entry, but is growing in with multiple tree species.

S
t
a
n
d

Shingleton Mgt. Unit

5 – Forested Stands

Compartment: 142

Year of Entry: 2012



Data updated before 2:00 PM

	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
75	42200 - Natural White Pine	High Density Pole	33.4	59	111-140	This stand contains large white pine in the supercanopy with a mixture of pole size fir, spruce, and red maple. The sub-canopy is a mixture of hardwoods, tall shrubs, and conifers.
76	42200 - Natural White Pine	High Density Pole	5.9	110	81-110	White Pine dominant stand bordering the east side of Nugent Lake. Hardwoods and spruce/fir make up the rest of the canopy.
79	42200 - Natural White Pine	High Density Pole	5.4	39	81-110	Stands 86 and 85 are similar. Mostly white pine pole size trees and sapling sized trees bordering a hardwood stand.
80	42200 - Natural White Pine	High Density Pole	6.3	39	51-80	Stands 86 and 85 are similar. Mostly white pine pole size trees and sapling sized trees bordering a hardwood stand.
81	4112 - Maple, Beech, Cherry Association	High Density Pole	68.7	55	51-80	Red maple dominant stand with mixed conifer and deciduous species. A lot of pole sized trees that will move into the next diameter classes in the future.



Stand	Cover Type	Acres	Gen Cmts:
3	330 - Low-Density Trees	3.2	
6	3103 - Rubus-Fern	29.5	Timber harvested 2003-2006. Few saplings and shrubs with a lot of bracken fern.
11	330 - Low-Density Trees	14.6	
12	3303 - Mixed Low Density Trees	4.5	
13	3302 - Low Density Conifer Trees	4.1	Frost pocket that appears to be filling in with mixed conifer.
14	122 - Road/Parking Lot	10.1	
15	330 - Low-Density Trees	5.5	
17	330 - Low-Density Trees	2.1	
23	330 - Low-Density Trees	12.0	
25	3103 - Rubus-Fern	6.6	Frost pocket, little vegetation besides, moss, fern, and few grass/sedge.
27	3302 - Low Density Conifer Trees	35.5	Red pine regen. scattered throughout stand with some areas being more dense than others. RM poles and saplings are scattered through the sale as well as white pine, spruce, service berry, and cherry.
28	330 - Low-Density Trees	9.5	
31	310 - Herbaceous Openland	1.5	
32	330 - Low-Density Trees	122.0	Two rows of J. Pine were planted along edge of Adams Trail between Stands 44 and 56 to block the wind. Saplings are less than 3 feet.
35	310 - Herbaceous Openland	3.7	
37	50 - Water	4.1	
39	330 - Low-Density Trees	7.5	



Stand	Cover Type	Acres	Gen Cmts:
42	50 - Water	1.2	
44	330 - Low-Density Trees	1.5	
46	3105 - Mixed Upland Herbaceous	65.7	
48	3102 - Grass	30.0	
49	622 - Lowland Shrub	3.9	
51	50 - Water	1.0	
53	330 - Low-Density Trees	5.9	
54	122 - Road/Parking Lot	8.1	
55	3102 - Grass	7.7	
56	622 - Lowland Shrub	10.5	
58	330 - Low-Density Trees	0.0	
59	320 - Upland Shrub	1.0	
60	330 - Low-Density Trees	9.7	
63	330 - Low-Density Trees	2.1	
65	330 - Low-Density Trees	88.2	
66	50 - Water	1.4	
67	320 - Upland Shrub	38.5	
70	50 - Water	2.7	



Stand	Cover Type	Acres	Gen Cmts:
74	50 - Water	16.2	
77	623 - Emergent Wetland	5.5	
78	310 - Herbaceous Openland	3.4	



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



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 Area	Type	Description
--------------------------	-------------	--------------------
