



**Shingleton Forest Management Unit
Compartment Review Presentation
Compartment #139 Entry Year: 2012
Compartment Acreage: 1578 County: Alger**

Revision Date: September 23, 2010

Stand Examiner: Jennifer Burnham

Legal Description: T48N R15W Section 23-26, 35 and 36

Identified Planning Goals ('Management Area' or 'RMU', if applicable): This compartment is within the Danaher Kingston Outwash Management Area.

Management Goals: To manage the compartment in accordance with the principles of sustainable forest management for multiple resource values.

Soil and Topography: There are three main soil types within the compartment; Spalding Soils which make up about 30%, Rubicon Roselawn Sands which also makes up about 30% of the compartment and Saugetuck Series that comprises roughly 29% of the area. There are minor occurrences of Kalkaska (sands and loams) along with Wallace and Wallace Sands.

Ownership Patterns, Development, and Land Use in and Around the Compartment: The compartment has industry lands to the north and east with State land to the west and south.

Unique, Natural Features: Loon (*Gavia immer*, state threatened) have been recorded nesting in several of the nearby lakes. Wood turtle (*Clemmys insculpta*, state special concern) could occur in and along Loon Creek, Pelican Creek, Grass Creek, and West Branch Fox River. There is also potential for nesting red-shouldered hawk (*Buteo lineatus*, state threatened) and Northern goshawks (*Accipiter gentilis*, state special concern) to occur throughout this compartment in stands of northern hardwoods, and white pine.

Archeological, Historical, and Cultural Features: The Sunrise Grade passes through the center of the compartment. A ½ mile north of the Sunrise Grade there is an older grade that can still be seen through most of the compartment.

Special Management Designations or Considerations: The west boundary is the West Branch Fox River which has a natural river designation.

Watershed and Fisheries Considerations: The West Branch Fox River is classified SQCW, while Grass, Loon and Pelican Creeks are SQWW. Despite the warmwater designation, all of these small streams will support fall brook trout spawning migrations from the main part of the Fox River. That is, they will if there is any gravel habitat available, and if the migration is not blocked by beaver dams. Tributaries are very important to any stream or river system, and especially within THIS system, should be carefully protected.

Wildlife Habitat Considerations: While doing inventory in early spring there was evidence of moose using the areas that were cut 20-10 years ago.

Mineral Resource and Development Concerns and/or Restrictions: Surface sediments consist of glacial outwash sand and gravel and postglacial alluvium and end moraine coarse-textured till. There is insufficient

data to determine the glacial drift thickness. The Ordovician Prairie du Chien (PdC) subcrops below the glacial drift. The 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. There may be some potential along the east boundary of the compartment.

Vehicle Access: Access to the compartment can be from the Adams Trail to the north or by the Sunrise Grade running east-west through the center of the compartment. There is a good road system through the compartment from past logging practices however most are blocked to vehicle traffic.

Survey Needs: None at this time

Recreational Facilities and Opportunities: The Sunrise Grade is a designated snowmobile trail that gets heavy ORV use during the other times of the year. The Fox River Pathway crosses just on the west side of the West Branch Fox River. The natural river also offers great fishing opportunities for anglers.

Fire Protection: Response to a wildland fire would be slow. Equipment and personnel would be coming from the Seney Field Office. This area has not had a lot of fire activity in the past.

Additional Compartment Information: The main timber type is mature and uneven aged white pine making up about 40%. The remaining timber types are mainly those containing other conifer components such as black spruce, fir and hemlock. There is also a small stands of poor quality hardwood scattered within the white pine stands.

➤ **The following reports from the Inventory are attached:**

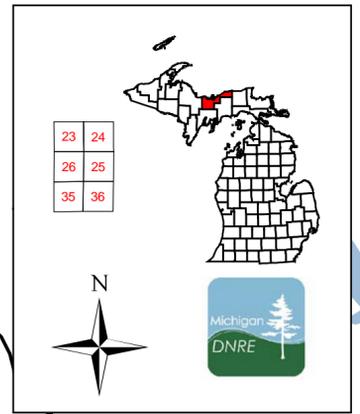
- ◆ **Total Acres by Cover Type and Age Class**
- ◆ **Proposed Treatment Summary**
- ◆ **Proposed Treatments – No Limiting Factors**
- ◆ **Proposed Treatments – With Limiting Factors**
- ◆ **Stand Details (Forested and Nonforested)**
- ◆ **Dedicated and Proposed Special Conservation Areas**

➤ **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**

Cover Type & Treatment Map

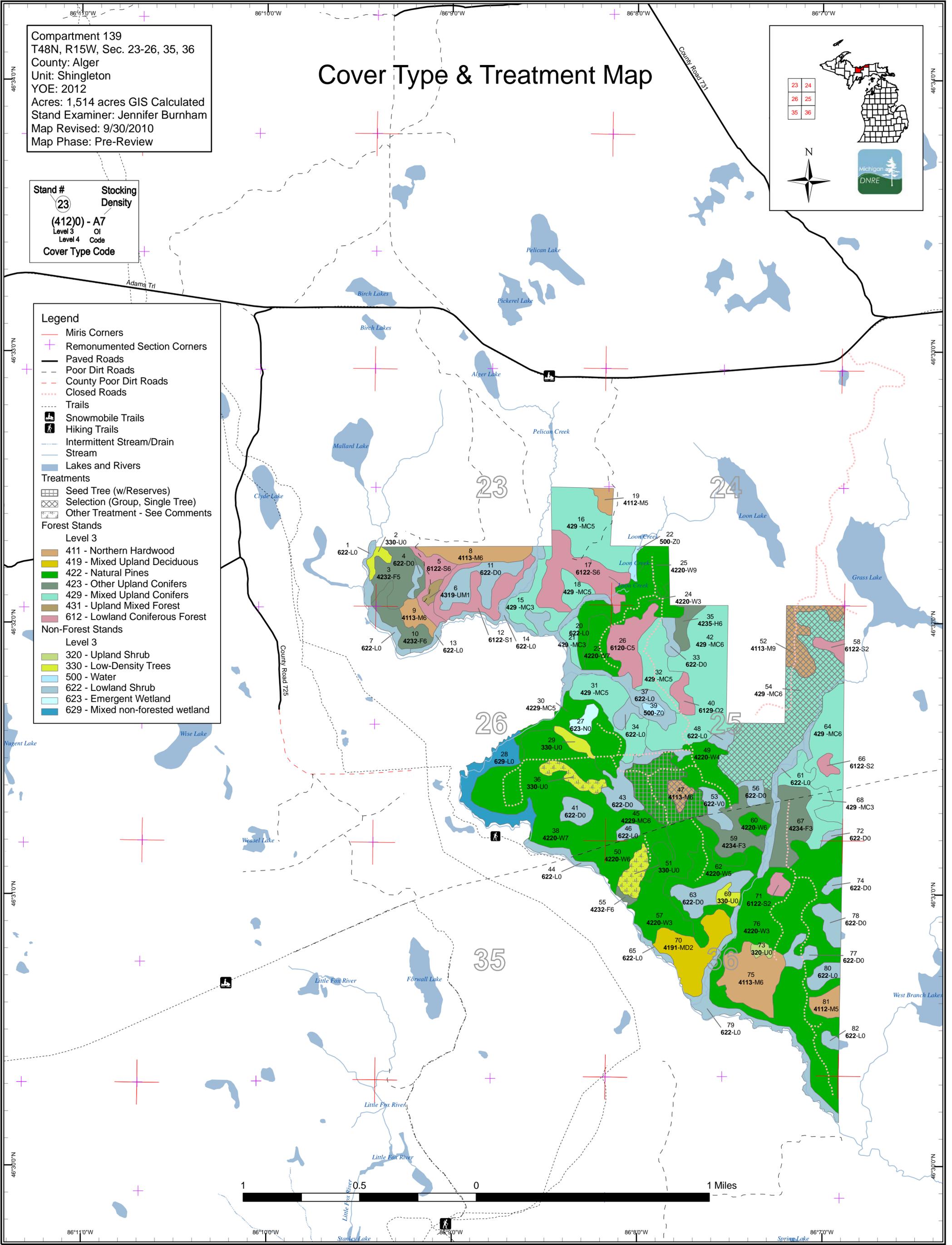
Compartment 139
 T48N, R15W, Sec. 23-26, 35, 36
 County: Alger
 Unit: Shingleton
 YOE: 2012
 Acres: 1,514 acres GIS Calculated
 Stand Examiner: Jennifer Burnham
 Map Revised: 9/30/2010
 Map Phase: Pre-Review



Stand #
 (23)
 (4120) - A7
 Level 3 OI
 Level 4 Code
 Cover Type Code

Legend

- Miris Corners
 - ✚ Remonumented Section Corners
 - Paved Roads
 - - - Poor Dirt Roads
 - - - County Poor Dirt Roads
 - ⋯ Closed Roads
 - ⋯ Trails
 - 🚙 Snowmobile Trails
 - 🚶 Hiking Trails
 - Intermittent Stream/Drain
 - Stream
 - 🌊 Lakes and Rivers
- Treatments**
- ▨ Seed Tree (w/Reserves)
 - ▩ Selection (Group, Single Tree)
 - ▧ Other Treatment - See Comments
- Forest Stands**
- Level 3
- 411 - Northern Hardwood
 - 419 - Mixed Upland Deciduous
 - 422 - Natural Pines
 - 423 - Other Upland Conifers
 - 429 - Mixed Upland Conifers
 - 431 - Upland Mixed Forest
 - 612 - Lowland Coniferous Forest
- Non-Forest Stands**
- Level 3
- 320 - Upland Shrub
 - 330 - Low-Density Trees
 - 500 - Water
 - 622 - Lowland Shrub
 - 623 - Emergent Wetland
 - 629 - Mixed non-forested wetland

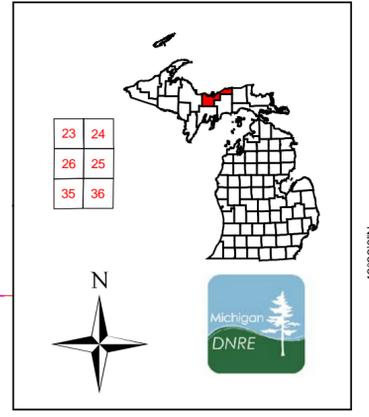


86°11'0"W 86°10'0"W 86°9'0"W 86°8'0"W 86°7'0"W

46°31'0"N 46°30'0"N 46°29'0"N 46°28'0"N 46°27'0"N 46°26'0"N 46°25'0"N 46°24'0"N 46°23'0"N 46°22'0"N 46°21'0"N 46°20'0"N

Compartment 139
 T48N, R15W, Sec. 23-26, 35, 36
 County: Alger
 Unit: Shingleton
 YOE: 2012
 Acres: 1,514 acres GIS Calculated
 Stand Examiner: Jennifer Burnham
 Map Revised: 9/30/2010
 Map Phase: Pre-Review

Dedicated & Proposed Special Conservation Area Map



Stand #
 23
Stocking Density
 (4120) - A7
 Level 3 OI
 Level 4 Code
Cover Type Code

- Legend**
- Miris Corners
 - ✚ Remonumented Section Corners
 - Proposed Special Conservation Areas
 - ▨ SCA - Special Conservation Area
 - ▨ SCA Removal
 - Dedicated Special Conservation Areas
 - Cold Water Streams
 - Boat Access Sites
 - Natural Rivers Zoning District
 - Natural Rivers Vegetative Buffer
 - Deer Wintering Areas
 - Stand Boundaries
 - Forest Stands
 - Level 3
 - 411 - Northern Hardwood
 - 419 - Mixed Upland Deciduous
 - 422 - Natural Pines
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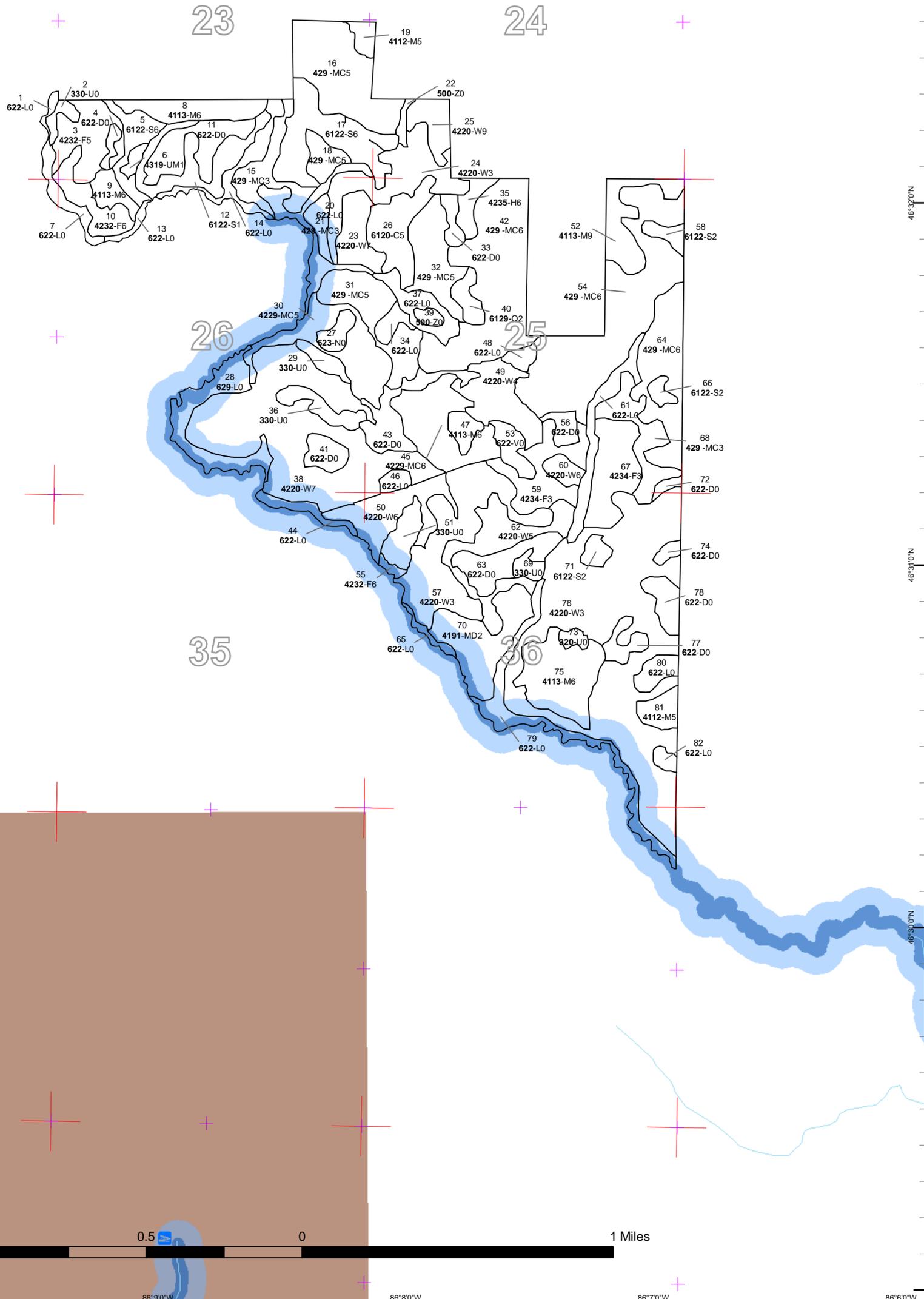


Table 1 – Total Acres by Cover Type and Age Class

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 +		Uneven Age
Bog	8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	8
Cedar	0	0	0	0	0	0	23	0	0	0	0	0	0	0	0	23
Hemlock	0	0	0	0	0	0	0	0	0	0	0	7	0	0	0	7
Low-Density Trees	34	0	0	0	0	0	0	0	0	0	0	0	0	0	0	34
Lowland Conifers	0	0	0	0	0	0	7	0	0	0	0	0	0	0	0	7
Lowland Shrub	152	0	0	0	0	0	0	0	0	0	0	0	0	0	0	152
Lowland Spruce/Fir	0	0	0	0	0	38	0	36	0	13	0	0	0	0	0	87
Marsh	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6
Mixed Upland Deciduous	0	0	0	34	0	0	0	0	0	0	0	0	0	0	0	34
Natural Mixed Pines	0	0	0	0	0	0	0	0	0	0	0	0	67	0	0	67
Northern Hardwood	0	0	0	35	0	8	0	5	0	46	0	0	0	0	6	100
Treed Bog	100	0	0	0	0	0	0	0	0	0	0	0	0	0	0	100
Upland Conifers	0	0	25	0	0	9	21	0	0	0	0	0	214	90	0	358
Upland Mixed Forest	0	0	0	0	0	0	3	0	0	0	0	0	0	0	0	3
Upland Shrub	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3
Upland Spruce/Fir	0	0	0	52	16	24	0	0	0	0	2	0	0	0	0	93
Water	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5
White Pine	0	197	0	57	0	0	0	0	0	0	0	0	231	0	0	485
Total	307	197	25	178	16	78	53	41	0	59	2	7	512	90	6	1570



Table 2 – Proposed Treatment Summaries

Data updated before 2:00 PM

Shingleton Mgt. Unit
Year of Entry 2012

Compartment 139
Total Compartment Acres: 1570

Acres by Treatment Type

Commercial Harvest - 149	Site Prep - 0	Tree Planting - 0	Prescribed Burn - 0	Other - 20
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
Natural Mixed Pines	0	0	34	0	0	0	0	34
Northern Hardwood	0	25	0	0	0	0	0	25
Upland Conifers	0	90	0	0	0	0	0	90
Total	0	115	34	0	0	0	0	149



Data updated before 2:00 PM

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Treatment Name	Acres	Stage1 CoverType	Size Density	Stand Age	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
45 41139045-Cut1	34.3	42290 - Natural Mixed Pine	High Density Pole	114	Harvest	Seed Tree with Reserves	Natural White Pine, Mixed Deciduous	Cmpt. Review Proposal

Prescription Mark pine for removal or as leave trees depending on which would be less time spent. Trees are being harvested to allow for more diversity in regeneration. Some areas have low BA and will not require much marking.

Other Comments: Could be thinned again, The adjacent stand when thinned in 2001 has less residual BA and the regeneration numbers are higher than those of this stand. If more dense regeneration is wanted this stand should be thinned again. If thinned red and white pine should be marked.

Next Steps: There have been times when WLD has wanted underplanting of pine in the area. From the regen in the other stands I do not see a need for it here.

47 41139047-Cut1	6.0	4113 - R.Maple, Conifer	High Density Pole	85	Harvest	Single Tree Selection	R.Maple, Conifer	Cmpt. Review Proposal
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Prescription Harvest to promote diversity. There is a large amount of conifer in this compartment. The goal of this stand is not conversion but to maintain what is present. Thin to 60-80 BA. Do not cut hemlock.

Other Comments: Treat with surrounding stand 48. Stand is poor quality red maple. There is some conifer in the under and over story. Thin to promote diversity. Do not cut hemlock.

Next Steps:

52 41139052-Cut	19.5	4113 - R.Maple, Conifer	High Density Log	86	Harvest	Single Tree Selection	R.Maple, Conifer	Cmpt. Review Proposal
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Prescription Quality is fair, mark stand to promote diversity.

Specs:

Other Comments: Stand cut in '70. Some areas have good hemlock regen 10-15' tall. Access from the north where road work maybe be needed. Treat with stand 58. Not worth cutting on it's own.

Next Steps:

54 41139054-Cut	89.6	429 - Mixed Upland Conifers	High Density Pole	161	Harvest	Group Selection	Hemlock, Mixed Deciduous	Cmpt. Review Proposal
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Prescription Access would be from the North. There is some yb but as with all the spp they are old and starting to die out. Cut to promote hemlock regeneration with other conifers. A mix of hardwood will also come in after the cut.

Other Comments: Stand could have been harvest last entry but was not b/c WLD wasn't sure about the hemlock in the area. Stand still needs to be harvest. There has been success in the unit with hemlock cutting and regeneration. There is also information in last entry year stand sheet with regeneration information that I got from Jim Beilekie. Will work with wildlife to decide if cutting will take place and then right a prescription for the stand. BA break down from last time- 03 - 30, 30 - 20, 98(30,20,22)- 10, 39- 50, 25- 10.

Next Steps:

36 NF_41139036-Other	9.5	Non-Forested		0	Other	Unspecified	Upland Spruce	Cmpt. Review Proposal
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Prescription

Specs:

Other Comments:

Next Steps: Stand should have another regen check in a couple years to make sure the regeneration is coming back



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Treatment Name	Acres	Stage1 CoverType	Size Density	Stand Age	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
51 NF_41139051-Other	10.6	Non-Forested		0	Other	Unspecified	Lowland Spruce-Fir	Cmpt. Review Proposal

Prescription
Specs:

Other
Comments:

Next Steps: Stand should have another regen check in a couple years to make sure the regen is coming back.

**Total Treatment
 Acreage Proposed: 169.5**



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Treatment Name	Acres	Stage1 CoverType	Size Density	Stand Age	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
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#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 harvest 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 harvest. 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 conifers. 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						

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Shingleton Mgt. Unit

5 – Forested Stands

Data updated before 2:00 PM

Compartment: 139

Year of Entry: 2012



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
3	42320 - Upland Spruce	Medium Density Pole	23.9	48		Stand was cut in 1962. Nice stand, healthy.
5	6122 - Black Spruce	High Density Pole	13.0	65	51-80	Parts cut in 59 and some salvage in 71. SI 44 for BS. Multiple ages for the BS (within 10 years) treat in another 10-20 years to add more diameter to the trees. Terrain is a mix of upland/lowland ground. Could be cut in a dry summer.
6	4319 - Mixed Upland Forest	Low Density Sapling	2.8	55	1-50	Stand is an old opening filling in or an area of heavy decking from ts. Any merchantable stems were removed when ts in 59 occurred. Treat when surrounding stands are ready.
8	4113 - R.Maple, Conifer	High Density Pole	18.2	80	51-80	red maple SI 47. Some logs but of poor quality, YB is dying out. Hemlock and white pine fairly healthy but not the best form. Rolling terrain and some other mixed conifer present. Could treat stand as even aged. Cut and leave conifer.
9	4113 - R.Maple, Conifer	High Density Pole	7.7	48	51-80	Cut in 61. Treat as uneven aged stand. RM SI low 40's conifer SI higher. There are scattered large red pine on the edge of the stand.
10	42320 - Upland Spruce	High Density Pole	15.5	31	1-50	Stand was cut in 1979. Good regen coming in. Some pockets were the stand is too wet as less regen but there were not many trees in those areas to start with.
12	6122 - Black Spruce	Low Density Sapling	23.2	67		Stand is basically a treed bog - however the slight elevation difference has allowed more conifers to grown than stand 11. Stand will never be a productive site. Contains pitcher plant with a peat base.
15	429 - Mixed Upland Conifers	High Density Sapling	18.5	18		Stand cut in 1991. Old stand 7 SI 50 for spruce. Scattered red pine. Regeneration looks good. Trees near the streams have a larger DBH they were left when cut as a buffer.
16	429 - Mixed Upland Conifers	Medium Density Pole	46.6	110		Stand cut same time as adjacent stands. Higher ground allows for more maple and pine. SI is 50 for spruce. Filling in more slowly, possibly due to lack of scarification when cut. however but healthy.
17	6122 - Black Spruce	High Density Pole	37.6	47		
18	429 - Mixed Upland Conifers	Medium Density Pole	8.5	47		Stand cut in the early 60's. Doing okay. Scattered red pine, wb in the trail roads mostly.
19	4112 - Maple, Beech, Cherry Association	Medium Density Pole	4.8	64	51-80	Stand cut in 2005. Regen looks good. Mix of hard maple, red maple and conifers coming in.
21	429 - Mixed Upland Conifers	High Density Sapling	6.3	18		Same as stand 17, cut in 1991 old stand 7. Regen looks good. Scattered red pine in the stand.



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
23	42200 - Natural White Pine	Low Density Log	15.9	110	51-80	Stand was cut in 2001 with adjacent stands. They are the same stand however there is less over story with this stand. Regeneration is coming in really well.
24	42200 - Natural White Pine	High Density Sapling	34.4	8		Cut in 2001. Great regeneration coming in. W7 with W3 understory containing rm, bspr, tam, fir, some cedar, rp and wb - very nice mix of everything.
25	42200 - Natural White Pine	High Density Log	11.7	114	51-80	Stand cut in 2001 with the stands to the south, just more residual wp left. Regen from the cut is coming in very well same spp that were present before the cut. Scattered mature red pine also in the stand.
26	6120 - Lowland Cedar	Medium Density Pole	23.0	54		Stand was cut in 1979. Good regen coming in. Some pockets were the stand is too wet as less regen but there were not many trees in those areas to start with.
30	42290 - Natural Mixed Pine	Medium Density Pole	32.6	114		Stand cut in 1997 with the surrounding stands. Difference is the amount of white pine remaining. Could be thinned again in 10 years.
31	429 - Mixed Upland Conifers	Medium Density Pole	29.5	114	1-50	Stand was cut in 2001. Regeneration of white pine impressive.
32	429 - Mixed Upland Conifers	Medium Density Pole	25.0	114	1-50	Stand cut in 79. Left wp that wasn't marked and removed other species. Regen looks good. Small pockets of pole size rp scattered in stand. Wp that is left manly large and in the upper part of the canopy.
35	42350 - Upland Hemlock	High Density Pole	7.2	102	1-50	Stand cut in 76 and thinned pine/hemlock. Treat again in 20-40 years when regen is ready.
38	42200 - Natural White Pine	Low Density Log	115.9	110	51-80	Stand was cut in 2001 with adjacent stands. They are the same stand however there is less over story with this stand. Regeneration is coming in really well.
40	6129 - Mixed Coniferous Lowland Forest	Medium Density	6.9	54		Stand is on muck/peat soils with low productivity. Could almost be classified as a treed bog.
42	429 - Mixed Upland Conifers	High Density Pole	75.7	114	51-80	Stand was cut 30 years ago. Treat again with the rm and other pole/sapling size spp are ready for harvest.
45	42290 - Natural Mixed Pine	High Density Pole	34.3	114	51-80	The adjacent stand when thinned in 2001 has less residual BA and the regeneration numbers are higher than those of this stand. If more dense regeneration is wanted this stand should be thinned again. If thinned red and white pine should be marked.
47	4113 - R.Maple, Conifer	High Density Pole	6.0	Uneven Age	81-110	Treat with surrounding stand 48. Stand is poor quality red maple. There is some conifer in the under and over story. Thin to promote diversity. Do not cut hemlock.



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
49	42200 - Natural White Pine	Low Density Pole	25.5	116	1-50	Stand was cut in 2007. Not enough time for upland spruce to regenerate. Check in a couple years. Stand should come back nicely to wp, rm, spruce and maybe some red pine with a mix of deciduous spp.
50	42200 - Natural White Pine	High Density Pole	26.3	114	1-50	Stand cut in 1982. Removed all spp then thinned the pine. Regen coming in well.
52	4113 - R.Maple, Conifer	High Density Log	19.5	86	51-80	Stand cut in '70. Some areas have good hemlock regen 10-15' tall. Access from the north where road work maybe be needed. Treat with stand 58. Not worth cutting on it's own.
54	429 - Mixed Upland Conifers	High Density Pole	89.6	123	1-50	Harvest stand to promote same spp as present. Do not cut hemlock, cedar, yellow birch or white birch. Mark white pine where they are concentrated or those that may need to be removed for operability. Remove all other species. The forester that is designated to prep stand needs to meet with WLD biologist first.
55	42320 - Upland Spruce	High Density Pole	1.7	99	1-50	Stand falls within the buffer for the Natural Rivers. It was left when stand 54 was cut.
57	42200 - Natural White Pine	High Density Sapling	56.5	24	51-80	Stand treated in 86. Regen looks good.
58	6122 - Black Spruce	Medium Density	4.8	80		Stand is more unproductive with a low site index.
59	42340 - Upland Spruce/Fir	High Density Sapling	24.9	24	1-50	Cut in 1986. WP and hemlock patchy. Trace of white birch in the stand. Growing well on the skid trail edges and stump sprouts. Wait for the red maple and other cut spp to be merchantable before next treatment. Maybe 20-30 years.
60	42200 - Natural White Pine	High Density Pole	5.6	114	1-50	Stand was cut in 2007. Removed all species and marked the pine to be thinned. Regen is coming back very well. There is scattered pockets of red pine, hemlock and white birch in the stand along with pockets of low ground areas where the spruce is mainly found.
62	42200 - Natural White Pine	Medium Density Pole	30.5	114	1-50	Stand cut in 1986. Stand was cut with the surrounding stands with more poorly formed white pine and red maple quality. This area had more openings that were treated and is starting to fill in.
64	429 - Mixed Upland Conifers	High Density Pole	37.5	114	1-50	Stand cut in 74 and 82. Cut out most of spp marked pine for removal. Regeneration looks good. Getting a good mix of spp back. Stand has potential to be wet. Treat in winter or dry summer when regen is ready for another harvest. WP SI 50
66	6122 - Black Spruce	Medium Density	3.4	80		Semi unproductive stand. When surrounding stand is being treated the edge of this stand could be treated.

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Shingleton Mgt. Unit

5 – Forested Stands

Compartment: 139

Data updated before 2:00 PM

Year of Entry: 2012



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
67	42340 - Upland Spruce/Fir	High Density Sapling	27.2	23	1-50	Cut in 1986. WP and hemlock patchy. Growing well on the skid trail edges and stump sprouts. Wait for the red maple and other cut spp to be merchantable before next treatment. Maybe 20-30 years.
68	429 - Mixed Upland Conifers	High Density Sapling	20.8	56	1-50	Stand was cut in 53 or so. Looks two-aged. The maple regen is coming in well. Wait 10 years or more until the understory is large enough to do another harvest.
70	4191 - Mixed Upland Deciduous with Conifer	Medium Density	33.9	23	1-50	Stand cut in 1982. Was part of old stands 35 and 29. Rengen looks good. More conifer type near the river.
71	6122 - Black Spruce	Medium Density	4.6	80		Semi unproductive stand. When surrounding stand is being treated the edge of this stand could be treated.
75	4113 - R.Maple, Conifer	High Density Pole	35.4	25	51-80	Stand was cut in 1982. Some small areas of lower ground are scattered through the stand.
76	42200 - Natural White Pine	High Density Sapling	162.7	3	1-50	Stand was cut in 2007. Removed all species and marked the pine to be thinned. Regen is coming back very well. There is scattered pockets of red pine, hemlock and white birch in the stand along with pockets of low ground areas where the spruce is mainly found.
81	4112 - Maple, Beech, Cherry Association	Medium Density Pole	8.2	85	51-80	Stand looks good from cutting. Good regeneration of rm, wp and other spp coming in.



Stand	Cover Type	Acres	Gen Cmts:
1	622 - Lowland Shrub	1.7	
2	3302 - Low Density Conifer Trees	3.8	
4	6224 - Treed Bog	2.7	
7	622 - Lowland Shrub	8.1	
11	6224 - Treed Bog	21.7	
13	622 - Lowland Shrub	2.5	
14	622 - Lowland Shrub	13.0	
20	622 - Lowland Shrub	16.5	
22	50 - Water	2.4	
27	6233 - Wet Meadow	5.9	
28	629 - Mixed non-forested wetland	25.6	
29	3303 - Mixed Low Density Trees	5.5	Stand is an old opening filling in. In 2001 when the surrounding stands were cut some of the merchantable trees were also removed. When those stands are ready again for treatment this stand will also be.
33	6224 - Treed Bog	5.0	small water hole on the south end.
34	622 - Lowland Shrub	5.1	
36	3302 - Low Density Conifer Trees	9.5	Stand was cut in 2007, part of old stand 23. Stand is now a S2/W7 where the white pine is on the higher ground and near stand 40. Stand should have another regen check in a couple years to make sure the conifers are filling in.
37	6229 - Mixed lowland shrub	12.4	
39	50 - Water	2.6	



Stand	Cover Type	Acres	Gen Cmts:
41	6224 - Treed Bog	8.1	
43	6224 - Treed Bog	18.1	
44	622 - Lowland Shrub	5.9	
46	622 - Lowland Shrub	3.7	
48	622 - Lowland Shrub	3.8	
51	330 - Low-Density Trees	10.6	
53	6225 - Bog	8.3	
56	6224 - Treed Bog	5.4	
61	622 - Lowland Shrub	15.9	
63	6224 - Treed Bog	17.8	
65	622 - Lowland Shrub	2.7	
69	3302 - Low Density Conifer Trees	4.2	
72	6224 - Treed Bog	2.1	
73	320 - Upland Shrub	2.9	
74	6224 - Treed Bog	2.6	
77	6224 - Treed Bog	6.9	
78	6224 - Treed Bog	9.1	
79	622 - Lowland Shrub	24.6	



Stand	Cover Type	Acres	Gen Cmts:
80	622 - Lowland Shrub	7.0	
82	6229 - Mixed lowland shrub	2.9	



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.

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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.

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

Conservation Area	Type	Description
HCVA	Natural Rivers	There are two Natural Rivers datasets which are derived from spatial buffers set from an established and approved distance from the river centerlines. The Natural Rivers Zoning District is a 400 foot buffer for most Natural Rivers. The Vegetative Buffer ranges from 25 to 100 feet. To view specific Zoning Districts and Vegetative Buffers for each Natural River see the table located on the I:\Documentation\GDSE data folder.