



## Shingleton Forest Management Unit Compartment Review Presentation

**Compartment #13**

**Entry Year: 2014**

**Compartment Acreage: 1,527**

**County: Schoolcraft**

**Revision Date:** July 31, 2012

**Stand Examiner:** R. TYLKA

**Legal Description:** T45N R16W Sections 5, 8 and 17

**RMU (if applicable):** Compartment 13 lies within Seney Manistique Swamp Management Area.

**Management Goals:** In the northern end of the compartment, timber management focuses primarily on conifers appropriate to relatively wet terrain (e.g., jack pine/black spruce/tamarack) while maintaining wildlife cover and travel corridors. The southern end is difficult to work in due to access problems.

**Soil and Topography:** The terrain in this compartment is flat, and drainage is relatively slow; a significant portion of the area south of the West Branch of the Manistique River is marshland too wet to support commercially viable timber. Soils are sandy and typical of flood plains in the eastern U.P.

**Ownership Patterns, Development, and Land Use in and Around the Compartment:** Private lands in sections 8 and 17 have very limited development; the primary uses are for outdoor recreation and timber production.

**Unique, Natural Features:** There is an area in the southwest quarter of Section 8 that is classified as a dry-mesic northern forest.

**Archeological, Historical, and Cultural Features (include only non-site specific and non-sensitive information):** None known

### **Special Management Designations or Considerations:**

**Watershed and Fisheries Considerations:** Fisheries Values Fair. The West Branch of the Manistique is a non-trout designated, warm-water tributary. The species community consists of northern pike, smallmouth bass, sucker and minnow species. Encroachment from beaver is not a concern here, but protection from increased sand bedload is a concern. The West Branch is heavily inundated with sand.

**Wildlife Habitat Considerations:** This compartment lies within the Seney Sand Lake Plain ecological sub-subsection. The growing season in this area is less than 100 days with extreme minimum winter temperatures of -46° F. Annual snowfall in this area averages approximately 150 inches. The compartment falls within the Seney Manistique Swamp Management Area which highlights the following Featured Species: Moose, sharp-tailed grouse, snowshoe hare and white-tailed deer. The West Branch of the Manistique River runs diagonally across this compartment. The majority of the compartment is lowland coniferous forest. General Land Office Surveyor notes show that conifer swamps circa 1850 consisted of primarily cedar, tamarack, and spruce. Other species present included jack pine, white pine, hemlock, birch, and black ash. Upland forests were difficult to differentiate by land form, but contained different tree species. Upland species included hemlock, red maple, white pine, red pine, white birch, yellow birch, spruce, cedar, and balsam fir. Windthrow, fire, flooding, and beaver ponding were all likely

contributors to the natural disturbance regime. Current upland forest stands in this compartment are dominated by jack pine. Lowland stands are similar in species composition to pre-settlement forest. Stand structure is substantially altered compared to circa 1850 conditions. Wildlife habitat objectives in this compartment include maintaining closed canopy conifer forests, providing age and structural diversity between conifer stands, and protecting the river corridor. Moose (Michigan special concern) use this compartment extensively. There are no other known rare species within this compartment. Other wildlife species of interest that may utilize this compartment include black-backed woodpecker, spruce grouse, fisher and bobcat.

**Mineral Resource and Development Concerns and/or Restrictions:** Surface sediments consist of lacustrine (lake) sand and gravel. There is insufficient data to determine the glacial drift thickness. The Ordovician Black River Group subgroups below the glacial drift and is quarried for stone/dolomite. The nearest gravel pit is 2 miles to the northwest and potential appears to be limited. There is no commercial oil and gas production in the UP.

**Vehicle Access:** This northern part of this compartment (sections 5 and 8) is currently accessible via the temporary bridge over Pine Creek, but vehicle travel through the area may be limited by flooding. The areas south of the West Branch Manistique River are not currently accessible.

**Survey Needs:** None at this time.

**Recreational Facilities and Opportunities:**

No developed facilities. The area is used for deer hunting by adjacent landowners and members of the public.

**Fire Protection:** Poor access due to flooded or non-existent roads/bridges would hinder fire suppression efforts throughout much of this compartment.

**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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**Table 1 – Total Acres by Cover Type and Age Class**



	Age Class														Total
	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 +	Unrepen Age	
Cedar	0	0	0	0	0	0	0	3	0	207	0	0	4	0	214
Jack Pine	0	0	0	0	0	0	0	168	0	96	0	0	0	13	277
Lowland Conifers	0	0	0	0	0	0	0	0	0	4	0	0	0	0	4
Lowland Deciduous	0	0	0	0	0	0	0	0	0	0	0	0	0	12	12
Lowland Mixed Forest	0	0	0	0	0	4	0	0	0	27	0	0	0	0	31
Lowland Shrub	421	0	0	0	0	0	0	0	0	0	0	0	0	0	421
Lowland Spruce/Fir	0	239	0	0	0	4	0	12	0	0	0	0	0	0	255
Natural Mixed Pines	0	0	0	0	0	0	0	0	0	0	10	0	0	0	10
Red Pine	0	0	0	0	0	0	0	0	0	0	5	0	0	0	5
Tamarack	0	0	0	0	0	0	0	0	0	0	183	0	0	0	183
Upland Conifers	0	2	0	0	0	0	0	0	0	0	0	0	0	0	2
Water	23	0	0	0	0	0	0	0	0	0	0	0	0	0	23
White Pine	0	0	0	1	0	0	0	0	0	0	3	0	87	0	92
<b>Total</b>	<b>443</b>	<b>241</b>	<b>0</b>	<b>1</b>	<b>0</b>	<b>8</b>	<b>0</b>	<b>183</b>	<b>0</b>	<b>334</b>	<b>201</b>	<b>0</b>	<b>91</b>	<b>25</b>	<b>1527</b>



## Table 2 – Proposed Treatment Summaries

**Shingleton Mgt. Unit**  
**Year of Entry 2014**

**Compartment 013**  
**Total Compartment Acres: 1527**

### Acres by Treatment Type

Commercial Harvest - 437	Site Prep - 0	Tree Planting - 0	Prescribed Burn - 35	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
<b>Cedar</b>	13	0	0	0	0	0	0	13
<b>Jack Pine</b>	231	0	0	0	0	0	0	231
<b>Lowland Spruce/Fir</b>	12	0	0	0	0	0	0	12
<b>Tamarack</b>	181	0	0	0	0	0	0	181
<b>Total</b>	<b>437</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>437</b>



S t a n d	Treatment Name	Acres	CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
8	41013008-Cut	12.2	6126 - Lowland Jack Pine	Medium Density Log	92		Harvest	Clearcut with Reserves	6126 - Lowland Jack Pine	Cmpt. Review Proposal - Incomplete

Prescription Under contract 41-015-10-01 Moosetrack Tamarack II.

Specs:

Other See FTP C41-1180. Jack pine/black spruce are desirable regeneration, but all conifer spp. plus aspen and birches are acceptable.

Comments:

Next Burn to regenerate jack pine under FTP C41-1180.

Steps:

Proposed

Start Date: 04/11/2011

9	41013009-Cut	55.7	6121 - Tamarack	Medium Density Pole	102	51-80	Harvest	Clearcut with Reserves	6121 - Tamarack	Cmpt. Review Proposal - Incomplete
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Prescription CC with reserves - reserve any red & white pine, hemlock and cedar.

Specs:

Other

Comments:

Next Natural regeneration - follow up with regen survey per the work instructions. All conifer spp. plus aspen and birches are acceptable regeneration.

Steps:

Proposed

Start Date: 10/01/2013

17	41013017-Cut	40.1	6121 - Tamarack	Medium Density Pole	102	51-80	Harvest	Clearcut with Reserves	6121 - Tamarack	Cmpt. Review Proposal - Incomplete
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Prescription CC with reserves - reserve any red & white pine, hemlock and cedar.

Specs:

Other

Comments:

Next Natural regeneration - follow up with regen survey per the work instructions. All conifer spp. plus aspen and birches are acceptable regeneration.

Steps:

Proposed

Start Date: 10/01/2013

19	41013019-Cut	168.0	6126 - Lowland Jack Pine	Medium Density Log	75	111-140	Harvest	Clearcut with Reserves	6126 - Lowland Jack Pine	Cmpt. Review Proposal - Incomplete
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Prescription CC with reserves - reserve any red & white pine, hemlock and cedar.

Specs:

Other

Acceptable regeneration includes all conifer spp. plus aspen and birches.

Comments:

Next Regenerate jack pine etc. using acceptable practices for natural regeneration.

Steps:

Proposed

Start Date: 10/01/2013



S t a n d	Treatment Name	Acres	CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
22	41013022-Cut	5.5	6121 - Tamarack	Medium Density Pole	102	51-80	Harvest	Clearcut with Reserves	6121 - Tamarack	Cmpt. Review Proposal - Incomplete
<u>Prescription</u> CC with reserves - reserve any red & white pine, hemlock and cedar.										
<u>Specs:</u>										
<u>Other</u>										
<u>Comments:</u>										
<u>Next</u> Natural regeneration - follow up with regen survey per the work instructions. All conifer spp. plus aspen and birches are acceptable regeneration.										
<u>Steps:</u>										
<u>Proposed</u>										
<u>Start Date:</u> 10/01/2013										
23	41013023-Cut	44.0	6126 - Lowland Jack Pine	Medium Density Pole	92		Harvest	Clearcut with Reserves	6126 - Lowland Jack Pine	Cmpt. Review Proposal - Incomplete
<u>Prescription</u> Under contract 41-015-10-01 Moosetrack Tamarack II.										
<u>Specs:</u>										
<u>Other</u> See FTP C41-1180. Jack pine/black spruce are desirable regeneration, but all conifer spp. plus aspen and birches are acceptable.										
<u>Comments:</u>										
<u>Next</u> Burn to regenerate jack pine under FTP C41-1180.										
<u>Steps:</u>										
<u>Proposed</u>										
<u>Start Date:</u> 04/11/2011										
24	41013024-Cut	1.3	6121 - Tamarack	Medium Density Pole	102	51-80	Harvest	Clearcut with Reserves	6121 - Tamarack	Cmpt. Review Proposal - Incomplete
<u>Prescription</u> CC with reserves - reserve any red & white pine, hemlock and cedar.										
<u>Specs:</u>										
<u>Other</u>										
<u>Comments:</u>										
<u>Next</u> Natural regeneration - follow up with regen survey per the work instructions. All conifer spp. plus aspen and birches are acceptable regeneration.										
<u>Steps:</u>										
<u>Proposed</u>										
<u>Start Date:</u> 10/01/2013										
26	41013026-Cut	78.5	6121 - Tamarack	Medium Density Pole	102		Harvest	Clearcut with Reserves	6121 - Tamarack	Cmpt. Review Proposal - Incomplete
<u>Prescription</u> Under contract 41-015-10-01 Moosetrack Tamarack II.										
<u>Specs:</u>										
<u>Other</u>										
<u>Comments:</u>										
<u>Next</u> Natural regeneration - follow up with regen survey per the work instructions. All conifer spp. plus aspen and birches are acceptable regeneration.										
<u>Steps:</u>										
<u>Proposed</u>										
<u>Start Date:</u> 04/11/2011										



S t a n d	Treatment Name	Acres	CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
27	41013027-Cut	12.1	6122 - Black Spruce	Medium Density Pole	75	111-140	Harvest	Clearcut with Reserves	6122 - Black Spruce	Cmpt. Review Proposal - Incomplete
<u>Prescription</u> CC with reserves - reserve any red & white pine, hemlock and cedar.										
<u>Specs:</u>										
<u>Other</u> Acceptable regeneration includes all conifer spp. plus aspen & birches.										
<u>Comments:</u>										
<u>Next</u> Regenerate black spruce etc. using acceptable practices for natural regeneration.										
<u>Steps:</u>										
<u>Proposed</u>										
<u>Start Date:</u> 10/01/2013										
33	41013033-Cut	6.4	6126 - Lowland Jack Pine	Medium Density Pole	92		Harvest	Clearcut with Reserves	6126 - Lowland Jack Pine	Cmpt. Review Proposal - Incomplete
<u>Prescription</u> Under contract 41-015-10-01 Moosetrack Tamarack II.										
<u>Specs:</u>										
<u>Other</u> See FTP C41-1180. Jack pine/black spruce are desirable regeneration, but all conifer spp. plus aspen and birches are acceptable.										
<u>Comments:</u>										
<u>Next</u> Burn to regenerate jack pine under FTP C41-1180.										
<u>Steps:</u>										
<u>Proposed</u>										
<u>Start Date:</u> 04/11/2011										
51	41013051-Cut	11.7	6120 - Lowland Cedar	Medium Density Pole	92		Harvest	Clearcut with Reserves	6120 - Lowland Cedar	Cmpt. Review Proposal - Incomplete
<u>Prescription</u> Prepped for t-sale 41-017-11-01 Middle Earth.										
<u>Specs:</u>										
<u>Other</u> Residual BA include 7.3 sq. ft./acre of red pine and 18.4 of white pine.										
<u>Comments:</u>										
<u>Next</u> Natural regeneration.										
<u>Steps:</u>										
<u>Proposed</u>										
<u>Start Date:</u> 10/01/2013										
52	41013052-Cut	1.3	6120 - Lowland Cedar	Medium Density Pole	92		Harvest	Clearcut with Reserves	6120 - Lowland Cedar	Cmpt. Review Proposal - Incomplete
<u>Prescription</u> Prepped for t-sale 41-017-11-01 Middle Earth.										
<u>Specs:</u>										
<u>Other</u> Residual BA includes 7.3 sq.ft./acre of red pine and 5.0 of white pine.										
<u>Comments:</u>										
<u>Next</u> Natural regeneration										
<u>Steps:</u>										
<u>Proposed</u>										
<u>Start Date:</u> 10/01/2013										

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	Treatment Name	Acres	CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
18	NF_41013018-Burn	34.9	6220 - Alder/willow				Prescribed Burn	Unspecified	6126 - Lowland Jack Pine	Cmpt. Review Proposal - Incomplete

Prescription: Burn under FTP C41-1180

Specs:

Other:

Comments:

Next Steps: See FTP C41-1180 - Acceptable regeneration: Jack pine/black spruce are desirable, but all conifer spp. plus aspen & birches are acceptable.

Steps: Follow up with regen survey per the work instructions.

Proposed

Start Date: Unspecified

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**Total Treatment  
Acreage Proposed: 471.6**





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Treatment Name	Acres	CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
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#Error

Prescription  
Specs:

Other  
Comment:

Next  
Steps:

Proposed  
Start Date: #Error

Limiting Factor and No  
Treatment Reason

**Total Treatment  
Acreage Proposed: 0**

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

Year of Entry: 2014



Treatment Name	Acres	CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
	1.8	Unspecified				Harvest	Unspecified	Unspecified	Cmpt. Review Proposal - Incomplete

Prescription  
Specs:

Other  
Comments:

Next  
Steps:

Proposed  
Start Date:

<b>41009014-Cut1</b>	5.2	6120 - Lowland Cedar	High Density Pole	141		Harvest	Patch or Strip Clearcut	6120 - Lowland Cedar	Cmpt. Review Proposal - Incomplete
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Prescription patch cut app. 5 acres, determined at time of prep  
Specs:

Other  
Comments:

Next Monitor according to work instructions.  
Steps:

Proposed  
Start Date: 10/01/2011

<b>41044_OutOfYOE-Cut</b>	0.9					Harvest	Crown Thinning	42210 - Natural Red Pine	Cmpt. Review Proposal - Incomplete
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Prescription Mark red pine and white pine to 80 sq.ft. where densities are high enough. Cut all other species except hemlock, oak, and cedar.  
Specs:

Other Retention will be a portion of the red pine and white pine trees remaining.  
Comments:

Next Possible regeneration harvest next year of entry.  
Steps:

Proposed  
Start Date: 10/01/2013

**Total Treatment  
Acreage Proposed: 7.8**



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
1	6139 - Mixed Lowland Forest	High Density Pole	4.3	58	81-110	Black spruce/red maple on an intermediate site that displays characteristics of both upland and lowland habitat - best classified/managed as lowland timber.
3	6122 - Black Spruce	High Density Pole	3.8	58	81-110	Black spruce mix on a site that displays characteristics of both upland and lowland habitat - best classified/managed as lowland timber.
4	42210 - Natural Red Pine	Low Density Log	5.0	109	81-110	Healthy large-diameter pine - thinned in 2000.
5	42290 - Natural Mixed Pine	High Density Log	9.6	109	111-140	Healthy large-diameter pine - thinned in 2000.
8	6126 - Lowland Jack Pine	Medium Density Log	12.2	92		Under contract TS 41-015-10-01 Moosetrack Tamarack
9	6121 - Tamarack	Medium Density Pole	55.7	102	51-80	This stand is primarily tamarack with varying amounts of black spruce and jack pine mixed in. The site is wet, and slight elevation changes within the stand dramatically alter the stand composition, crown closure and site indices. Scattered birches, aspen and fir are also present.
11	6122 - Black Spruce	Low Density Sapling	238.7	12		Regen is primarily black spruce with jack pine, tamarack and white pine mixed in. Residual red and white pine from the previous stand are still present in varying numbers from single trees to small groups on upland knobs.
12	6121 - Tamarack	Medium Density Pole	1.8	102	51-80	Island of tamarack w/jack pine & black spruce mixed in. Generally wet ground
15	6126 - Lowland Jack Pine	Medium Density	12.8	Uneven Age	1-50	This area is somewhat lower and wetter than the surrounding jack pine. The second age and basal area generally represent scattered residuals from the previous stand, while the first age is an approximation of the smaller size classes.
17	6121 - Tamarack	Medium Density Pole	40.1	102	51-80	Wet site featuring tamarack with black spruce and jack pine mixed in. A few white pine and red maple are also present. The understory is a mix of lowland brush and conifer saplings. Slight elevation changes dramatically affect the site indices and crown closure.
19	6126 - Lowland Jack Pine	Medium Density Log	168.0	75	111-140	Lowland jack pine ready to cut now - evidence of stand break-up is appearing.
21	42200 - Natural White Pine	Low Density Log	3.3	109	81-110	Healthy large-diameter pine - thinned in 2000. Age is an estimate based on comparison to similar stands nearby.
22	6121 - Tamarack	Medium Density Pole	5.5	102	51-80	Tamarack & spruce with other spp mixed in. The terrain features slight elevation changes which greatly affect the site indices and also species composition within the stand. Overall the site is fairly wet.



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
23	6126 - Lowland Jack Pine	Medium Density Pole	44.0	92		Under contract TS 41-015-10-01 Moosetrack Tamarack
24	6121 - Tamarack	Medium Density Pole	1.3	102	51-80	Tamarack/spruce/jack pine with other spp mixed in. The site is fairly wet.
26	6121 - Tamarack	Medium Density Pole	78.5	102		Under contract TS 41-015-10-01 Moosetrack Tamarack
27	6122 - Black Spruce	Medium Density Pole	12.1	75	111-140	Jack pine/black spruce mix - somewhat wetter than the large jp/spruce mix to the north.
28	42200 - Natural White Pine	Low Density Sapling	1.4	37	1-50	Young white pine with a few just reaching into the pole size class. This stand is probably the result of a natural disturbance that removed the overstory of jack pine/black spruce.
29	429 - Mixed Upland Conifers	Low Density Sapling	1.8	13		Stand is still filling in, but stocking is sufficient to classify as a fully-stocked stand. Regen heights vary from 2-8'+ with enough over 3' to call it forested.
30	6117 - Lowland Deciduous, Mixed Coniferous	Medium Density Pole	12.1	Uneven Age	51-80	Unevenaged miix of lowland deciduous spp. (red maple, birches, mixed aspen) and conifers (spruce & fir, plus a few cedar, tamarack, and jack & white pines) on a site that is fairly wet in places. The paper birch and mature balsam fir are dropping out of the stand, but the fir is well-represented in the understory.
31	6120 - Lowland Cedar	High Density Pole	1.8	122		Cedar poles/logs along the south side of the West Branch Manistique River.
32	42200 - Natural White Pine	Medium Density Log	32.5	132	81-110	Last thinned in 2000.
33	6126 - Lowland Jack Pine	Medium Density Pole	6.4	92		Under contract TS 41-015-10-01 Moosetrack Tamarack
35	6126 - Lowland Jack Pine	Medium Density Pole	14.0	91		Jack pine/black spruce mix.
36	6120 - Lowland Cedar	Medium Density Pole	2.3	122	81-110	Cedar poles/logs along the north side of the West Branch Manistique River. Age is estimated by comparison to a nearby stand of cedar, but age class diversity is developing.
37	42200 - Natural White Pine	Medium Density Pole	54.8	137		Large white pine with a variety of other spp. mixed in.
38	6139 - Mixed Lowland Forest	Low Density Pole	26.5	91		Very wet ground supporting a mix of lowland tree species & shrubs. Stocking is variable but overall it appears to be high enough to classify this as a forested lowland site. The age given here is similar to that of the adjacent jack pine stand; in reality there is likely to be considerable age class diversity.
39	6126 - Lowland Jack Pine	Medium Density Pole	18.8	91		Per the old inventory data, this is a mix of jack pine & black spruce on wet ground.



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
41	6126 - Lowland Jack Pine	Medium Density Pole	1.0	91		Per the old inventory data, this is a mix of jack pine & black spruce on wet ground.
42	6128 - Lowland Coniferous, Mixed Deciduous	Low Density Pole	3.9	92		Mixed lowland forest with cedar/spruce/red maple being the most common species.
44	6120 - Lowland Cedar	Medium Density Pole	7.7	92		Lowland cedar that displays some evidence of age & size class diversity, generally due to minor natural disturbances (blowdown, etc.) and variable site indices. Overall the stand appears to be relatively slow-growing.
45	6120 - Lowland Cedar	Medium Density Pole	3.0	92		Slow-growing cedar mix.
46	6120 - Lowland Cedar	Medium Density Pole	161.0	92		Large, slow-growing cedar complex with numerous inclusions of spruce, tamarack, lowland hardwoods etc. located on wet ground with many swales/drainages throughout. Last inventory (YOE 2004) indicates BA = approx. 70 sq.ft./acre and average 6" dbh. Age class diversity is present due to small-scale disturbances and some apparent partial cutting. Lowland brush is heavy and dominant in some areas of this stand.
47	6120 - Lowland Cedar	Low Density Pole	8.3	92		Slow-growing cedar mix on the edge of the marsh/lowland brush complex.
49	6120 - Lowland Cedar	Low Density Pole	2.3	92		Slow-growing cedar/mixed conifer
50	6120 - Lowland Cedar	Medium Density Pole	12.1	92		Slow-growing cedar/black spruce on wet ground
51	6120 - Lowland Cedar	Medium Density Pole	11.7	92		Prepped for TS# 41-017-11-01
52	6120 - Lowland Cedar	Medium Density Pole	1.3	92		Prepped for TS# 41-017-11-01
53	6120 - Lowland Cedar	Medium Density Pole	2.8	72		Island of 6-8" dbh cedar/black spruce with scattered tamarack, jack pine, balsam fir, etc.



Stand	Cover Type	Acres	Managed Site	Management Priority (Objective)	General Comments:
2	6220 - Alder/willow	4.3	No	Unspecified	
6	50 - Water	2.4	No	Unspecified	
7	50 - Water	2.7	No	Unspecified	
10	50 - Water	4.9	No	Unspecified	
13	50 - Water	8.0	No	Unspecified	
14	50 - Water	2.1	No	Unspecified	
16	6220 - Alder/willow	117.4	No	Unspecified	
18	6220 - Alder/willow	34.9	Yes	Jack Pine	
20	50 - Water	2.4	No	Unspecified	
25	6220 - Alder/willow	5.2	No	Unspecified	
34	6229 - Mixed lowland shrub	31.3	No	Unspecified	
40	6229 - Mixed lowland shrub	4.0	No	Unspecified	
43	6229 - Mixed lowland shrub	21.5	No	Unspecified	Inoperable.
48	6220 - Alder/willow	202.3	No	Unspecified	



**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.

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.

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

Conservation Area	Type	Description
SCA	Cold Water Stream	A coldwater stream has temperature and dissolved oxygen conditions that allow naturally-reproduced or stocked trout populations and those of other coldwater fish species (e.g., slimy sculpin) to persist from year to year. Coldwater streams in Michigan typically provide these conditions due to substantial contributions of groundwater to their stream flows. Such streams are established by Director's action and designated as trout resources by Fisheries Order 210.



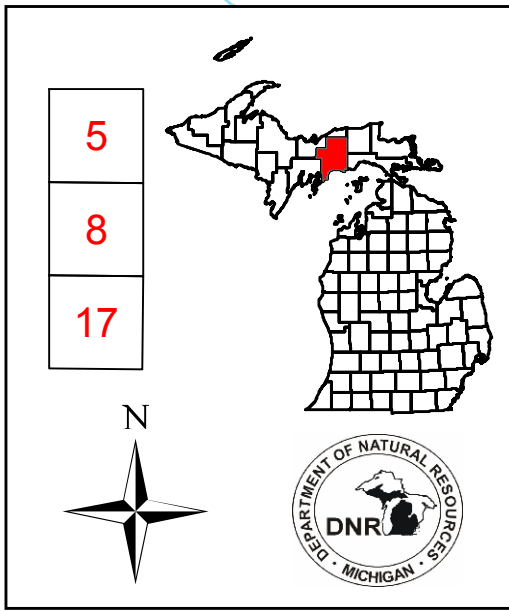




# Dedicated & Proposed Special Conservation Area Map

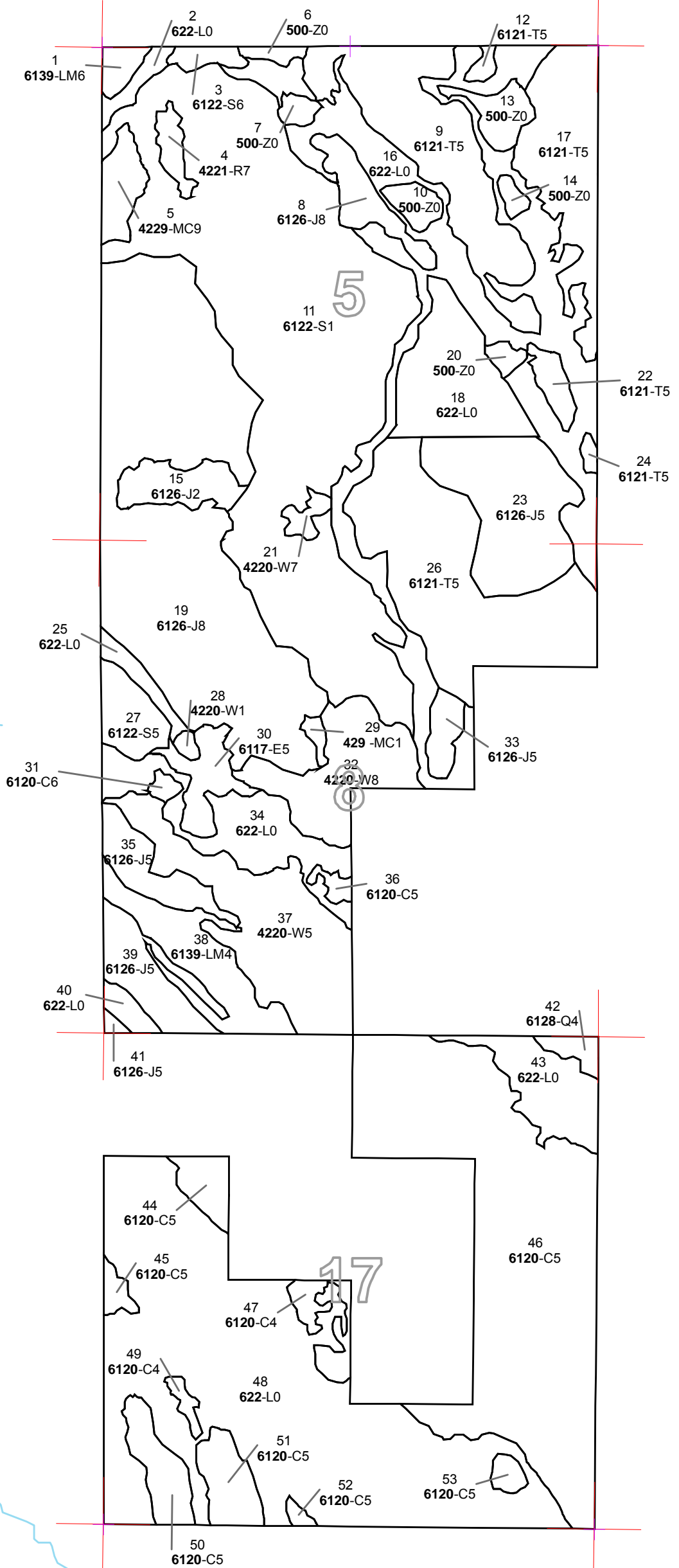
Compartment: 013  
 T45N R16W Sec. 5, 8, 17  
 County: Schoolcraft  
 Unit: Shingleton  
 YOE: 2014  
 Acres: 1527 GIS Calculated  
 Examiner: Bob Tylka  
 Map Revised: 08/02/2012  
 Map Phase: Pre-Review

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



## Legend

- + Remonumented Section Corners
- Miris Corners
- Dedicated Special Conservation Area
- Cold Water Streams
- Stand Boundaries
- Forest Stands
  - Level 3
  - 422 - Natural Pines
  - 429 - Mixed Upland Conifers
  - 611 - Lowland Deciduous Forest
  - 612 - Lowland Coniferous Forest
  - 613 - Lowland Mixed Forest
- Non-Forest Stands
  - Level 3
  - 500 - Water
  - 622 - Lowland Shrub



86°22'0"W      86°21'0"W      86°20'0"W      86°19'0"W

46°20'0"N  
46°19'0"N  
46°18'0"N  
46°17'0"N

46°20'0"N  
46°19'0"N  
46°18'0"N  
46°17'0"N