Shingleton Forest Management Unit
Compartment Review Presentation
Compartment # 80 Entry Year: 2013
Compartment Acreage: 1802 County: Schoolcraft

Revision Date: 8/22/11

Stand Examiner: Bob Burnham

Legal Description: T42N R17W Sec 26,27,34&35

RMU (if applicable):

Management Goals: Compartment 80 contains a wide range of resources and will be managed for multiple values in which all resources will be managed evenly including recreation, wildlife and timber.

Soil and Topography: The associated soils in the compartment consist of Blue Lake Sands, Kalkaska Sands and Carbondale.

Ownership Patterns, Development, and Land Use in and Around the Compartment: Ownership within the compartment is contiguous. The Hiawatha National Forest borders to the North, it is state land to the east and south. However, to the west is private land and consists mainly of agricultural land. There is some private land on the edges of the compartment, to the east there are several homes near Indian Lake. Plum Creek has lands on the north and southwest.

Unique, Natural Features:

Archeological, Historical, and Cultural Features: None known.

Special Management Designations or Considerations: The entire compartment lies within the Big Springs Deeryard and is within the Garden Thompson Plain Management Area.

Watershed and Fisheries Considerations: None.

Wildlife Habitat Considerations: This compartment is contained with the Escanaba/Door Peninsula ecological sub-subsection. The growing season is 140 days. Extreme minimum temperatures are around -35 degrees F. Annual average snowfall is70 inches. General Land Office (GLO) Surveyor notes show northern hardwoods to be the primary forest cover circa 1850. Tree species within the hardwood forest included sugar maple, beech, yellow birch, hemlock, elm, basswood, cedar and red maple. The lowland forest contained tamarack, spruce, and cedar. Windthrow was the primary source of natural disturbance within the compartment. Although the compartment does contain some sizable red pine plantations and aspen stands, portions of the upland appear to be similar to presettlement conditions. Lowlands are probably quite similar to presettlement species composition. This compartment lies within the Big Springs deer yarding complex. As such, wildlife habitat objectives include producing abundant browse, maintaining closed-canopy conifer forests, and promoting within and between stand species diversity. No endangered, threatened, or special concern species have been recorded within this compartment. Wildlife species of interest include American woodcock, ruffed grouse, black bear, and white-tailed deer.

Mineral Resource and Development Concerns and/or Restrictions: Surface sediments consist of lacustrine (lake) and glacial outwash sand and gravel, postglacial alluvium and an end moraine of medium-textured till. The glacial drift thickness varies between 10 and 100 feet. The Silurian Burnt Bluff Group and Cabothead Shale subcrop below the glacial drift. The Burnt Bluff is quarried for stone. Surface or near surface stone is quarried on private land in Section 8, 2 miles to the southwest, for the limited production of dimension building stone and decorative stone. Gravel pits are located in Section 27 and 28 and potential appears to be good in the west half of the compartment. There is no commercial oil and gas production in the UP.

Vehicle Access: The compartment is highly accessible by numerous roads including a State Highway, M-149, several county roads and state forest two-tracks.

Survey Needs: None

Recreational Facilities and Opportunities: The Indian Lake Ski Trail is entirely located within this compartment. Palms Book State Park home of Kitch-iti-ki-pi (The Big Spring) is just west of the compartment boundary and is a popular tourist destination. Snowmobile Trail number 7 runs through the compartment. Indian Lake State Park's West Shore Campground is just south of the compartment.

Fire Protection: This compartment has good access for fire control. The fuels in the area are mainly hardwood however; there are several mature red pine plantations.

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

Shingleton Mgt. Unit **Compartment 080 Year of Entry 2013**

Robert Burnham : Examiner

Age Class

	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	Total
Aspen	0	19	91	136	26	0	0	5	0	0	0	0	0	0	0	**278**
Cedar	0	0	0	0	0	0	0	0	0	0	0	48	0	0	0	**48**
Herbaceous Openland	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	**2**
Low-Density Trees	27	0	0	0	0	0	0	0	0	0	0	0	0	0	0	**27**
Lowland Aspen/Balsam Poplar	0	41	0	8	0	0	0	0	0	0	0	0	0	0	0	**49**
Lowland Deciduous	0	0	0	0	0	0	0	29	16	0	0	0	0	0	0	**45**
Lowland Mixed Forest	0	0	0	0	0	0	0	0	0	0	37	28	0	0	0	**65**
Lowland Spruce/Fir	0	0	0	0	0	0	0	0	0	6	0	0	0	0	0	**6**
Mixed Upland Deciduous	0	0	0	2	0	0	10	0	0	0	0	0	0	0	0	**12**
Northern Hardwood	0	0	6	4	0	0	0	30	595	299	0	2	0	0	0	**935**
Red Pine	0	4	0	0	0	0	181	23	109	0	0	0	0	0	0	**317**
Treed Bog	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	**5**
Urban	8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	**8**
Water	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	**2**
White Pine	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	**2**
Total	**44**	**64**	**97**	**150**	**26**	**0**	**193**	**87**	**721**	**305**	**37**	**78**	**0**	**0**	**0**	**1803**

Table 2 – Proposed Treatment Summaries

Shingleton Mgt. Unit
Year of Entry 2013

Compartment 080
Total Compartment Acres: 1803

Acres by Treatment Type

Commercial Harvest - 725	Site Prep - 0	Tree Planting - 14	Prescribed Burn - 0	Other - 0
Habitat Cut - 0	Opening Maintenance - 27	Tree Seeding - 0	Pesticide - 0	

Cover Type by Harvest Method

	Clearcut	Selection	Seed Tree	Shelterwood	Thinning	Other - Specify	Total Acres
Aspen	5	0	0	0	0	0	**5**
Lowland Mixed Forest	5	59	0	0	0	0	**65**
Lowland Spruce/Fir	6	0	0	0	0	0	**6**
Northern Hardwood	0	331	0	0	2	0	**333**
Red Pine	0	0	0	0	313	0	**313**
White Pine	0	0	0	0	2	0	**2**
Total	**17**	**391**	**0**	**0**	**318**	**0**	**725**

Stand	Treatment Name	Acres	Stage1 CoverType	Size Density	Stand Age	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
1	41080001-Cut	144.9	42110 - Planted Red Pine	High Density Log	58	Harvest	Crown Thinning	42110 - Planted Red Pine	Cmpt. Review Proposal

Prescription Specs: Leave all non-red pine species unless they need to be removed for access. No winter cutting due to snowmobile trail. mark to 110-120 square feet.

Other Comments:

Next Steps: None

Stand	Treatment Name	Acres	Stage1 CoverType	Size Density	Stand Age	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
9	41080009-Cut	2.3	4112 - Maple, Beech, Cherry Association	High Density Log	71	Harvest	Crown Thinning	4112 - Maple, Beech, Cherry Association	Cmpt. Review Proposal

Prescription Specs: Stand looks to be mainly even-aged, thin stand to release crop trees where appropriate and favor hard maple, cherry and yellow birch. Mark to compleat marker standard targeting 80 square feet residual. No winter cut due to snowmobile trail conflicts.

Other Comments:

Next Steps:

Stand	Treatment Name	Acres	Stage1 CoverType	Size Density	Stand Age	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
13	41080013-Cut	2.9	4112 - Maple, Beech, Cherry Association	High Density Log	73	Harvest	Single Tree Selection	4112 - Maple, Beech, Cherry Association	Cmpt. Review Proposal

Prescription Specs: Harvest will vary from a thinning in a few areas to more of a selection. Cut aspen clones where appropriate and favor hard maple, yellow birch. No cut hemlock. Winter harvest to feed deer.

Other Comments:

Next Steps: Follow up regen count at next entry cylce, manage for a similiar mix as current.

Stand	Treatment Name	Acres	Stage1 CoverType	Size Density	Stand Age	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
15	41080015-Cut	5.9	6122 - Black Spruce	High Density Pole	87	Harvest	Clearcut with Reserves	6122 - Black Spruce	Cmpt. Review Proposal

Prescription Specs: Stand is low but should be able to be cut in the winter if they run on the tops, restrict to winter only so there is no attempt to cut it in the late spring. Anything left will blow down, leave some white pine (small) any hemlock. Did not see any cedar but leave any unless its in-operable. Any other retention should be on the edge.

Other Comments:

Next Steps: None, stand should regenerate without any follow-up. Count the regen at the following OI cycle.

Stand	Treatment Name	Acres	Stage1 CoverType	Size Density	Stand Age	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
16	41080016-Cut	2.3	42100 - Planted White Pine	High Density Log	56	Harvest	Crown Thinning	42100 - Planted White Pine	Cmpt. Review Proposal

Prescription Specs: Stand was thinned last entry and could use another thinning but? A few years ago I got an email that this stand was planted as a provenance study when it was formerly owned by the Feds. The contact guy didn't know where the stand was, I sent him some info and never heard anything back. When it was inventoried at least half the trees have been tagged with large nails at breast height. Need to follow-up. If it is thinned target 110-120 square feet and leave all other species.

Other Comments: The research was tracked down to a Forest Service Project out of the North Central Expermintal Station and they believed it was Forest Service land. The tags will be removed, but they want to mark 4 trees that they can monitor over time, I asked for a copy of any research that was gleaned.

Next Steps: None

Stand	Treatment Name	Acres	Stage1 CoverType	Size Density	Stand Age	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
19	41080019-Cut	5.3	4130 - Aspen	High Density Log	62	Harvest	Clearcut with Reserves	4130 - Aspen	Cmpt. Review Proposal

Prescription Specs: Stand is mostly aspen but the south end is more northern hardwood with maple and basswood. Cut/convert to aspen but leave the south end uncut which will break-up visuals from M-149. Winter cut to feed deer.

Other Comments:

Next Steps: Follow-up regen counts at next oi cycle, acceptable regen is aspen and a mix of current species.

Stand	Treatment Name	Acres	Stage1 CoverType	Size Density	Stand Age	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
20	41080020-Cut	92.8	4112 - Maple, Beech, Cherry Association	High Density Log	75	Harvest	Single Tree Selection	4112 - Maple, Beech, Cherry Association	Cmpt. Review Proposal

Prescription Specs: Stand is quite diverse with some very nice yellow birch. Treat as a selection cut moving toward all-aged management. Concentrate on making quality gaps where appropriate and release crop trees as well. Cut as much of the stand in the winter as possible by making seperate units but avoid snow and ski trail conflicts where possible.. Mark to the compleat marker standards targeting 80 square feet residual.

Other Comments:

Next Steps: Check regen at next OI cylcle and acceptable regen is the current mix.

Stand	Treatment Name	Acres	Stage1 CoverType	Size Density	Stand Age	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
27	41080027-Cut	149.2	4110 - Sugar Maple Association	High Density Log	81	Harvest	Single Tree Selection	4110 - Sugar Maple Association	Cmpt. Review Proposal

Prescription Specs: South end was cut in the early 90's and has a lot of nice ash which is near mature and needs to be cut especially with EAB in the area. The previous cutting didn't produce much regen as the crowns closed in to quickly. The northern portion has some beech and ash. There are pockets of advanced regeneration. Cut stand and provide quality gaps, harvest most of the mature ash, keep any smaller healthy stuff, same for beech except the large cull can be left. Mark to the compleat marker standard. Winter harvest to feed deer.

Other Comments:

Next Steps: Follow up regen counts at next OI cycle. Acceptable regen will be a mix of the current species leaning heavier to maple.

Stand	Treatment Name	Acres	Stage1 CoverType	Size Density	Stand Age	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
28	41080028-Cut	1.6	42110 - Planted Red Pine	High Density Pole	50	Harvest	Systematic Thinning	42110 - Planted Red Pine	Cmpt. Review Proposal

Prescription Specs: Small stand could use a thinning in places. Switch type of thinning where appropriate.

Other Comments:

Next Steps:

Stand	Treatment Name	Acres	Stage1 CoverType	Size Density	Stand Age	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
29	41080029-Cut	37.1	6131 - Hemlock, White Pine, Maple, Birch	High Density Log	90	Harvest	Single Tree Selection	6131 - Hemlock, White Pine, Maple, Birch	Cmpt. Review Proposal

Prescription Specs: Stand has wet drainages that could be problematic, cut in winter. The hemlock is nice, select through the stand cutting the maple, beech and fir. This will be more of a thinning due to the amount of hemlock but some regen may get established. Target ba of 70-80 square feet unless higher due to amount of hemlock. Winter cut for deer and soil protection.

Other Comments:

Next Steps: Count regen at next OI cycle and acceptable regen will be a mix of the current species, I wouldn't anticipate any hemlock regen due to the deer but underplanting white pine may be a good idea.

Stand	Treatment Name	Acres	Stage1 CoverType	Size Density	Stand Age	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
33	41080033-Cut	22.6	42110 - Planted Red Pine	High Density Log	63	Harvest	Crown Thinning	42110 - Planted Red Pine	Cmpt. Review Proposal

Prescription Specs: Mark stand for ideal spacing and residual basal area of 110-120 square feet. Removing previously damaged trees and Utility poles. Recommend marking in leaf off due to heavy hardwood understory. The snowmobile trail cannot be used during the winter if logged in winter.

Other Comments:

Next Steps: None

Stand	Treatment Name	Acres	Stage1 CoverType	Size Density	Stand Age	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
34	41080034-Cut	54.0	4115 - Y.Birch, Hemlock NH	High Density Log	89	Harvest	Group Selection	4115 - Y.Birch, Hemlock NH	Cmpt. Review Proposal

Prescription Specs: The stand was cut in 2001 and needs to be salvage cut to remove the beech which has BBD. Retain 3-5 beech per acre and leave all other species. Cut non winter to avoid recreational conflicts.

Other Comments:

Next Steps: Evaluate after sale is complete if possible herbicide work would be beneficial to eliminate or reduce the amount of beech brush. This treatment may be delayed until the beech sprouts back. Under plant oak if available (after herbicide).

Stand	Treatment Name	Acres	Stage1 CoverType	Size Density	Stand Age	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
39	41080039-Cut	22.4	6139 - Mixed Lowland Forest	High Density Log	105	Harvest	Group Selection	6139 - Mixed Lowland Forest	Cmpt. Review Proposal

Prescription Specs: The stand is quite diverse with decent pockets of hardwoods on uplands mixed in. Designate the black ash which is mature and in decline as well as fir. Puts some retention areas in around pockets of hemlock to reserve some ash. Also mark to cut better areas of hardwood favoring yellow birch and hard maple if found. Cut in the winter to ease aesthetics and feed the deer.

Other Comments:

Next Steps: Count regen on next OI cycle, acceptable regen will be a mix of the current species.

Stand	Treatment Name	Acres	Stage1 CoverType	Size Density	Stand Age	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
40	41080040-Cut	5.4	6132 - Mixed Lowland Forest with Cedar	High Density Pole	102	Harvest	Clearcut with Reserves	6132 - Mixed Lowland Forest with Cedar	Cmpt. Review Proposal

Prescription Specs: Stand is quite a mix, clearcut stand and reserve cedar, hemlock and yellow birch. Put a small retention pocket near the road to break-up visuals. Winter harvest for deer.

Other Comments:

Next Steps: Count regen on next oi cycle. Acceptable regen is a mix of the current species.

Stand	Treatment Name	Acres	Stage1 CoverType	Size Density	Stand Age	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
41	41080041-Cut	30.2	4110 - Sugar Maple Association	High Density Pole	68	Harvest	Single Tree Selection	4110 - Sugar Maple Association	Cmpt. Review Proposal

Prescription Specs: Stand is in transition from pulpwood to sawtimber. Mark to cut releasing crop trees and providing some gaps as appropriate. There is some really nice black cherry and ash in stand. Some of teh large ash are ringed in blue and tagged, check with Bob Heyd before marking. Mark to compleat marker standards and target 80 square feet residual. Winter harvest for the deer.

Other Comments:

Next Steps: Count regen at the next oi cycle.

Stand	Treatment Name	Acres	Stage1 CoverType	Size Density	Stand Age	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
45	41080045-Cut	1.9	4112 - Maple, Beech, Cherry Association	High Density Log	100	Harvest	Single Tree Selection	4112 - Maple, Beech, Cherry Association	Cmpt. Review Proposal

Prescription Specs: Mark stand to cut, leave any conifers in stand. Stand is right across from park enterance so cut in winter to reduce visuals and feed deer. Mark to compleat marker standards leaving 80 square feet residual.

Other Comments:

Next Steps: Count regen at next oi cycle.

Stand	Treatment Name	Acres	Stage1 CoverType	Size Density	Stand Age	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
46	41080046-Cut	34.8	42111 - Planted Red Pine, Mixed Deciduous	High Density Log	51	Harvest	Systematic Thinning	42111 - Planted Red Pine, Mixed Deciduous	Cmpt. Review Proposal

Prescription Specs: --Robert Burnham : 09/08/2011 comments:

Stand is a poorly stocked red pine plantation overall, there are areas where its good. Propose variably thinning red pine in stand while desigating any aspen and fir to be cut. Don't cut the hard maple unless needed for access. This stand will transition to hardwood when its fully rotatated. No cutting during snowmobile season.

Other Comments:

Next Steps: None

Stand	Treatment Name	Acres	Stage1 CoverType	Size Density	Stand Age	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
54	41080054-Cut	109.5	42110 - Planted Red Pine	High Density Log	71	Harvest	Crown Thinning	42110 - Planted Red Pine	Cmpt. Review Proposal

Prescription Specs: Thin red pine based on spacing and target residual of 110-120 square feet. remove previously damaged trees and mark some Utility poles if they exist. Leave other species unless they need to be removed for access. No cutting during snowmobile season.

Other Comments:

Next Steps: none

Stand	Treatment Name	Acres	Stage1 CoverType	Size Density	Stand Age	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
36	41080036-Plant	14.0	6111 - Lowland Balsam Poplar	Medium Density Saplin	4	Tree Planting	Hand Plant	6111 - Lowland Balsam Poplar	Cmpt. Review Proposal

Prescription Specs: Plant oak saplings in holes that occur within stand, these are mainly near the county road on the east side.

Other Comments:

Next Steps:

Stand	Treatment Name	Acres	Stage1 CoverType	Size Density	Stand Age	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
17	NF_41080017-NonFor	27.3	Non-Forested		0	Non-Forest Management	Mowing	3102 - Grass	Cmpt. Review Proposal

Prescription Specs: Stand is on FTP to be farmed with money made available through the wild turkey federation.

Other Comments:

Next Steps: Mowing

Total Treatment Acreage Proposed: 766.4

Table 4 -- Treatments Prescribed with a Limiting Factor

Stand	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**

Out of YOE -- Treatments
Prescribed with No Limiting Factor

Year of Entry: 2013

Treatment Name	Acres	Stage1 CoverType	Size Density	Stand Age	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
41022_OutOfYOE-Cut	35.6				Harvest	Systematic Thinning	42110 - Planted Red Pine	Cmpt. Review Proposal

Prescription Specs: 3rd row thinning. Cut all trees in designated rows. Rows can be spaced wider apart in areas with lower basal area. Do not cut hemlock and oak.

Other Comments: Do not cut any trees within 50 feet of the West Branch Manistique River.

Next Steps: Thin next year of entry.

41049_OutOfYOE_1-Cut	4.7				Harvest	Single Tree Selection	42290 - Natural Mixed Pine	Cmpt. Review Proposal

Prescription Specs: Mark red pine and white pine to 30 sq. ft. Create gaps in canopy for regeneration where pine exists. Areas that have thicker young poles can be marked to 80. Cut all other species except hemlock and oak if present.

Other Comments: Access to stand is too difficult for continuous thinning.

Next Steps: Regeneration walkthrough during next inventory cycle. Acceptable regeneration includes any species mixture currently found onsite.

41053_OutOfYOE-Cut	10.2				Harvest	Single Tree Selection	42290 - Natural Mixed Pine	Cmpt. Review Proposal

Prescription Specs: Mark red pine and white pine to 30 sq. ft. Create gaps in canopy for regeneration where pine exists. Areas that have thicker young poles can be marked to 80. Cut all other species except hemlock and oak if present.

Other Comments: Access to stand is too difficult for continuous thinning.

Next Steps: Regen walkthrough during next inventory cycle. Acceptable regeneration includes any species mixture currently found onsite.

Total Treatment Acreage Proposed: 50.5

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
1	42110 - Planted Red Pine	High Density Log	144.9	58	141-170	
2	4112 - Maple, Beech, Cherry Association	High Density Sapling	5.5	17		
3	6113 - Lowland Maple	Medium Density Log	28.7	69	1-50	
4	4111 - S.Maple, Hard Mast Association	High Density Log	278.0	74	81-110	
6	4139 - Aspen, Mixed Deciduous	High Density Pole	23.3	24		
7	6113 - Lowland Maple	Medium Density Log	16.5	76	51-80	
8	4130 - Aspen	High Density Sapling	9.1	6		
9	4112 - Maple, Beech, Cherry Association	High Density Log	2.3	71	141-170	
10	42110 - Planted Red Pine	Low Density Sapling	3.8	8		
11	6112 - Lowland Aspen	High Density Sapling	27.2	6		
12	4130 - Aspen	High Density Sapling	9.7	5		
13	4112 - Maple, Beech, Cherry Association	High Density Log	2.9	73	111-140	
14	4110 - Sugar Maple Association	High Density Log	18.9	72	81-110	
15	6122 - Black Spruce	High Density Pole	5.9	87		
16	42100 - Planted White Pine	High Density Log	2.3	56	141-170	
18	4119 - Mixed Northern Hardwoods	High Density Log	157.8	79	81-110	
19	4130 - Aspen	High Density Log	5.3	62		
20	4112 - Maple, Beech, Cherry Association	High Density Log	92.8	75	141-170	

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
22	4130 - Aspen	High Density Pole	11.8	26		
24	4136 - Aspen, Mixed Conifer	Medium Density	6.3	20		
25	4130 - Aspen	Low Density Pole	23.4	32		
26	4139 - Aspen, Mixed Deciduous	Medium Density Pole	2.9	35		
27	4110 - Sugar Maple Association	High Density Log	149.2	81	111-140	
28	42110 - Planted Red Pine	High Density Pole	1.6	50	111-140	
29	6131 - Hemlock, White Pine, Maple, Birch	High Density Log	37.1	90		
30	6120 - Lowland Cedar	High Density Log	5.0	108		
31	6120 - Lowland Cedar	High Density Pole	43.4	102		
33	42110 - Planted Red Pine	High Density Log	22.6	63	111-140	
34	4115 - Y.Birch, Hemlock NH	High Density Log	54.0	89	81-110	
35	4130 - Aspen	High Density Pole	17.9	28		
36	6111 - Lowland Balsam Poplar	Medium Density	14.0	4		
37	6111 - Lowland Balsam Poplar	High Density Pole	8.0	27		
39	6139 - Mixed Lowland Forest	High Density Log	22.4	105	141-170	
40	6132 - Mixed Lowland Forest with Cedar	High Density Pole	5.4	102		
41	4110 - Sugar Maple Association	High Density Pole	30.2	68	111-140	
42	4191 - Mixed Upland Deciduous with Conifer	High Density Pole	2.2	27		

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
43	4119 - Mixed Northern Hardwoods	High Density Pole	3.8	27	1-50	
44	4119 - Mixed Northern Hardwoods	High Density Log	93.6	83	81-110	
45	4112 - Maple, Beech, Cherry Association	High Density Log	1.9	100	111-140	
46	42111 - Planted Red Pine, Mixed Deciduous	High Density Log	34.8	51	111-140	
47	4130 - Aspen	High Density Sapling	91.4	14		
49	4110 - Sugar Maple Association	High Density Log	16.4	75	81-110	
50	4110 - Sugar Maple Association	High Density Pole	1.9	82	81-110	
51	4130 - Aspen	High Density Pole	67.6	29		
52	4191 - Mixed Upland Deciduous with Conifer	High Density Pole	9.7	58	51-80	
53	4112 - Maple, Beech, Cherry Association	High Density Log	25.9	73	81-110	
54	42110 - Planted Red Pine	High Density Log	109.5	71	141-170	
55	4139 - Aspen, Mixed Deciduous	High Density Pole	9.2	27		

6 – Nonforested Stands

Stand	Cover Type	Acres	Managed Site	Management Priority (Objective)	General Comments:
5	310 - Herbaceous Openland	0.9	N\A	Unspecified	
17	330 - Low-Density Trees	27.3	N\A	Unspecified	
21	50 - Water	1.8	N\A	Unspecified	
23	310 - Herbaceous Openland	1.5	N\A	Unspecified	
32	122 - Road/Parking Lot	6.9	N\A	Unspecified	
38	6224 - Treed Bog	5.0	N\A	Unspecified	
48	122 - Road/Parking Lot	1.1	N\A	Unspecified	

Data updated before 10:00 AM

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	Habitat Area	An area that provide some specific need for the life cycle of wildlife species, including State Wildlife Areas and Waterfowl Production Areas, deer wintering complexes in lowland conifer communities, grassland openings and savannas. Habitat areas are distinct from critical habitat designated for recovery of endangered or threatened species (such as Kirtland's warbler or piping plover areas) in that they are more general in nature, are not primarily associated with threatened or endangered species, and are not covered by species recovery plans that are developed in cooperation with Federal agencies.

Cover Type & Treatment Map

Compartment 80
T42N, R17W, Sec. 26, 27, 34, 35
County: Schoolcraft
Unit: Shingleton
YOE: 2013
Acres: 1,802 GIS Calculated
Stand Examiner: Bob Burnham
Map Revised: 9/15/2011
Map Phase: Pre-Review

Legend

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

Treatments

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

Forest Stands

Level 3

- 411 - Northern Hardwood
- 413 - Aspen Types
- 419 - Mixed Upland Deciduous
- 421 - Planted Pines
- 611 - Lowland Deciduous Forest
- 612 - Lowland Coniferous Forest
- 613 - Lowland Mixed Forest

Non-Forest Stands

Level 3

- 122 - Road/Parking Lot
- 310 - Herbaceous Openland
- 330 - Low-Density Trees
- 500 - Water
- 622 - Lowland Shrub

1 1 **4211**-R9
2 **4112**-M3
3 **6113**-E8
4 **4111**-M9
5 **310**-G0
6 **4139**-A6
7 **6113**-E8
8 **4130**-A3
9 **4112**-M9
10 **4211**-R1
11 **6112**-P3
12 **4130**-A3
13 **4112**-M9
14 **4110**-M9
15 **6122**-S6
16 **4210**-W9
17 **330**-U0
18 **4119**-M9
19 **4130**-A9
20 **4112**-M9
21 **500**-Z0
22 **4130**-A6
23 **310**-G0
24 **4136**-A2
25 **4130**-A4
26 **4139**-A5
27 **4110**-M9
28 **4211**-R6
29 **6131**-LM9
30 **6120**-C9
31 **6120**-C6
32 **122**-X0
33 **4211**-R9
34 **4115**-M9
35 **4130**-A6
36 **6111**-P2
37 **6111**-P6
38 **622**-D0
39 **6139**-LM9
40 **6132**-LM6
41 **4110**-M6
42 **4191**-MD6
43 **4119**-M6
44 **4119**-M9
45 **4112**-M9
46 **4211**-R9
47 **4130**-A3
48 **122**-X0
49 **4110**-M9
50 **4110**-M6
51 **4130**-A6
52 **4191**-MD6
53 **4112**-M9
54 **4211**-R9
55 **4139**-A6

27 26 34 35

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

Sawmill Rd
Fishingsite R
Big Spring
S Geromettas Dr
Peterson Rd
County Road 455
Dump Number 1 Rd
Tamarack St
149

1 0.5 0 1 Miles

86°27'0"W 86°26'0"W 86°25'0"W 86°24'0"W 86°23'0"W 86°22'0"W
46°0'0"N 45°59'0"N

N

DEPARTMENT OF NATURAL RESOURCES · MICHIGAN · DNR

Stand Boundary Map

Compartment 80
T42N, R17W, Sec. 26, 27, 34, 35
County: Schoolcraft
Unit: Shingleton
YOE: 2013
Acres: 1,802 GIS Calculated
Stand Examiner: Bob Burnham
Map Revised: 9/15/2011
Map Phase: Pre-Review

Legend

- Miris Corners
- Remonumented Section Corners
- State Highway
- Highway
- Paved Roads
- Poor Dirt Roads
- Ski Trails
- Snowmobile Trails
- Snowmobile Trail
- Ski Trail
- Intermittent Stream/Drain
- Stream
- Stand Boundaries

Forest Stands

Level 3

- 411 - Northern Hardwood
- 413 - Aspen Types
- 419 - Mixed Upland Deciduous
- 421 - Planted Pines
- 611 - Lowland Deciduous Forest
- 612 - Lowland Coniferous Forest
- 613 - Lowland Mixed Forest

Non-Forest Stands

Level 3

- 122 - Road/Parking Lot
- 310 - Herbaceous Openland
- 330 - Low-Density Trees
- 500 - Water
- 622 - Lowland Shrub

27 26 34 35

N

DEPARTMENT OF NATURAL RESOURCES · MICHIGAN · DNR

Stand # 23 — Stocking Density

(412)0) - A7

Level 3 Level 4 OI Code

Cover Type Code

1 4211-R9 | 2 4112-M9 | 3 6113-E8 | 4 4111-M9 | 5 310-G0 | 6 4139-A6 | 7 6113-E8 | 8 4130-A3 | 9 4112-M9 | 10 4211-R9 | 11 6112-P8 | 12 4130-A3 | 13 4112-M9 | 14 4110-M9 | 15 6122-S6 | 16 4210-W9 | 17 330-M9 | 18 4119-M9 | 19 4130-A6 | 20 4112-M9 | 21 500-Z0 | 22 6112-P6 | 23 310-G0 | 24 4136-A2 | 25 4130-A4 | 26 4139-A6 | 27 4110-M9 | 28 4211-R6 | 29 6131-LM9 | 30 6120-C9 | 31 6120-C6 | 32 122-X0 | 33 4211-R9 | 34 4115-M9 | 35 4130-A6 | 36 6111-P2 | 37 6111-P6 | 38 122-D0 | 39 6139-LM9 | 40 6132-LM6 | 41 4110-M6 | 42 4191-MD6 | 43 4119-M6 | 44 4119-M9 | 45 4112-M9 | 46 4211-R9 | 47 4130-A3 | 48 122-X0 | 49 4110-M9 | 50 4110-M6 | 51 4130-A6 | 52 4191-MD6 | 53 4112-M9 | 54 4211-R9 | 55 4139-A6

County Road 453 · Peterson Rd · Sawmill Rd · Fishmgslte Rd · Big Spring · N Gerometta Dr · S Gerometta Dr · County Road 455 · Dunns Number 1 Rd · Tamarack St · 149

1 0.5 0 1 Miles

86°26'0"W · 86°25'0"W · 86°24'0"W · 86°23'0"W · 86°22'0"W · 46°0'0"N · 45°59'0"N · 45°58'0"N

Dedicated & Proposed Special Conservation Area Map

Compartment 80
T42N, R17W, Sec. 26, 27, 34, 35
County: Schoolcraft
Unit: Shingleton
YOE: 2013
Acres: 1,802 GIS Calculated
Stand Examiner: Bob Burnham
Map Revised: 9/15/2011
Map Phase: Pre-Review

Legend

- Miris Corners
- Remonumented Section Corners

Proposed Special Conservation Areas
- SCA - Special Conservation Area
- SCA Removal

Dedicated Special Conservation Areas
- Deer Wintering Areas
- Stand Boundaries

Forest Stands
- Level 3
  - 411 - Northern Hardwood
  - 413 - Aspen Types
  - 419 - Mixed Upland Deciduous
  - 421 - Planted Pines
  - 611 - Lowland Deciduous Forest
  - 612 - Lowland Coniferous Forest
  - 613 - Lowland Mixed Forest

Non-Forest Stands
- Level 3
  - 122 - Road/Parking Lot
  - 310 - Herbaceous Openland
  - 330 - Low-Density Trees
  - 500 - Water
  - 622 - Lowland Shrub

1 **4211**-R9
2 **4112**-M3
3 **6113**-E8
4 **4111**-M9
5 **310**-G0
6 **4139**-A6
7 **6113**-E8
8 **4130**-A3
9 **4112**-M9
10 **4211**-R1
11 **6112**-P3
12 **4130**-A3
13 **4112**-M9
14 **4110**-M9
15 **6122**-S6
16 **4210**-W9
17 **330**-U0
18 **4119**-M9
19 **4130**-A9
20 **4112**-M9
21 **500**-Z0
22 **6112**-P6
23 **310**-G0
24 **4136**-A2
25 **4130**-A4
26 **4139**-A5
27 **4110**-M9
28 **4211**-R6
29 **6131**-LM9
30 **6120**-C9
31 **6120**-C6
32 **122**-X0
33 **4211**-R9
34 **4115**-M9
35 **4130**-A6
36 **6111**-P2
37 **6111**-P6
38 **622**-D0
39 **6139**-LM9
40 **6132**-LM6
41 **4110**-M6
42 **4191**-MD6
43 **4119**-M6
44 **4119**-M9
45 **4112**-M9
46 **4211**-R9
47 **4130**-A3
48 **122**-X0
49 **4110**-M9
50 **4110**-M6
51 **4130**-A6
52 **4191**-MD6
53 **4112**-M9
54 **4211**-R9
55 **4139**-A6

27 26 34 35

N

DEPARTMENT OF NATURAL RESOURCES · MICHIGAN · DNR

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

1 0.5 0 1 Miles

86°26'0"W 86°25'0"W 86°24'0"W 86°23'0"W 86°22'0"W
46°1'0"N 46°0'0"N 45°59'0"N