



# Compartment Review Presentation

Shingleton Forest Management Unit

Compartment 41085

Entry Year 2018

Acreage: 1,898

County Schoolcraft

Management Area: Garden Thompson Plains

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**Revision Date:** 2016-08-31

**Stand Examiner:** Thomas Burnis

**Legal Description:**

T41N R17W Sections 22,27,34

**Identified Planning Goals:**

The main goal of this compartment is to conduct multiple resource management for current and future generations.

**Soil and topography:**

The topography is mostly level with dry sandy soils.

**Ownership Patterns, Development, and Land Use in and Around the Compartment:**

This entire compartment is state owned and mostly surrounded by state land. There are two pipe lines, two power lines, a railroad, state highway and a county road running across this compartment. Recreational hunting is wide spread throughout the area.

**Unique Natural Features:**

None Known

**Archeological, Historical, and Cultural Features:**

None known.

**Special Management Designations or Considerations:**

Large areas of grass lands are maintained as wildlife openings.

**Watershed and Fisheries Considerations:**

No fisheries concerns.

**Wildlife Habitat Considerations:**

This compartment lies within the area known as the Thompson Plains. Early records show the pre-settlement forest was a composite of northern hardwood stand interspersed with an open pine plains complex. The hardwood stands contained species such as hemlock, sugar maple, birch, and beech. The open plains were dominated by red and white pine, but also contained jack pine and oak.

Surveyors also noted Indian hunting trails that crossed this area. In it's current condition, the compartment continues to contain large openings, however much of the former hardwood stands have been converted to oak and aspen. The wildlife habitat goals for this compartment include maintaining the large open complexes, promoting oak regeneration, and enhancing the age and structural composition of the aspen community. Variable retention guidelines will be utilized. This compartment lies within the Garden/Thompson Plains Management Area and the featured species within this MA are American woodcock, ruffed grouse, wild turkey, and white-tailed deer.

**Mineral Resource and Development Concerns and/or Restrictions**

Surface sediments consist of lacustrine (lake) sand and gravel. The glacial drift thickness varies between 10 and 50 feet. The Silurian Manistique Group subcrops below the glacial drift. The Manistique could be used for stone. A gravel pit is located in Section 26 and potential appears to be good. A dimension stone quarry is located two miles to the northwest. There is no commercial oil and gas production in the UP.

**Vehicle Access:**

The entire compartment is highly accessible to vehicles as there are many two track roads of good quality throughout the area.

**Survey Needs:**

None

**Recreational Facilities and Opportunities:**

The only recreational facility in the compartment is a snowmobile trail which links Cooks and Manistique. Opportunities include hunting.

**Fire Protection:**

Access to this area is very easy for fire equipment.

**Additional Compartment Information:**

The following reports from the Inventory are attached:

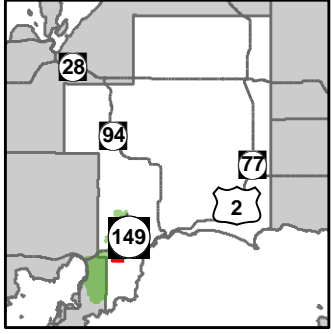
- Total Acres by Cover Type and Age Class**
- Cover Type by Harvest Method**
- Proposed Treatments – No Limiting Factors**
- Proposed Treatments – With Limiting Factors**
- Stand Details (Forested and Nonforested)**
- Dedicated and Proposed Special Conservation Areas**
- Site Condition Details**

The following information is displayed, where pertinent, on the attached compartment maps:

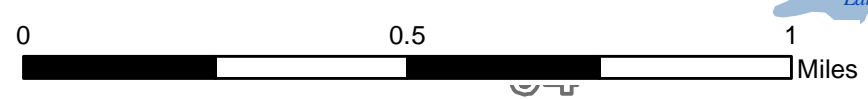
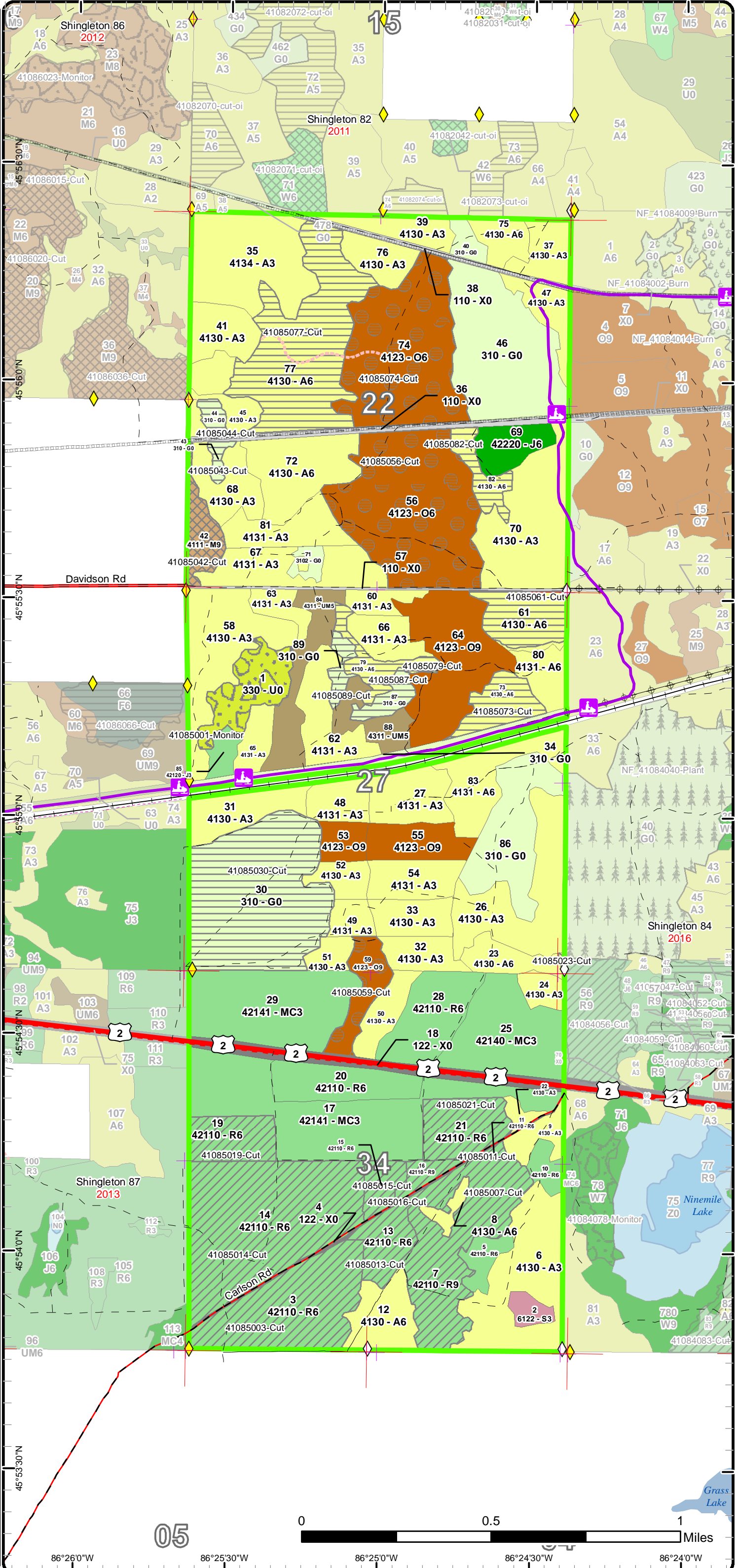
- Base feature information, stand boundaries, cover types, and numbers**
- Proposed treatments**
- Site condition boundaries**
- Details on the road access system**

# Cover Type & Treatments Map

Compartment: 85  
 T41N,R17W, Sec: 22, 27, 34  
 County: Schoolcraft  
 Unit: Shingleton  
 Mgmt Area: Garden Thompson  
 Plains  
 YOE: 2018  
 Acres: 1,898 GIS Calculated  
 Examiner: Thomas Burnis  
 Map Revised: 12/6/2016  
 Map Phase: Post Review



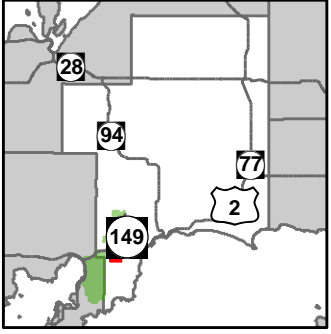
- Miris Corners
- Remonumented Section Corners
- Survey Grade GPS Corners
- Field Grade GPS Corners
- Snowmobile Trails
- Designated Bicycle Trails
- Designated Snowmobile Trails
- Highway
- County Gravel Roads
- Poor Dirt Roads
- County Poor Dirt Roads
- Trail (Non-Recreation)
- Closed Roads
- Active Railroad
- Rivers
- Pipeline
- Powerline
- Compartment Boundary
- Patch/Strip Cut (Femelschlag)
- Selection (Group, Single Tree)
- Clearcut (w/Reserves)
- Regeneration Survey
- Thinning (Crown, Low, Systematic)
- 411 - Northern Hardwood
- 412 - Oak Types
- 413 - Aspen Types
- 421 - Planted Pines
- 422 - Natural Pines
- 430 - Upland Mixed Forest
- 612 - Lowland Coniferous Forest
- 110 - Low Intensity Urban
- 122 - Roads/Parking Lot
- 310 - Herbaceous Openland
- 330 - Low Density Trees
- Lakes



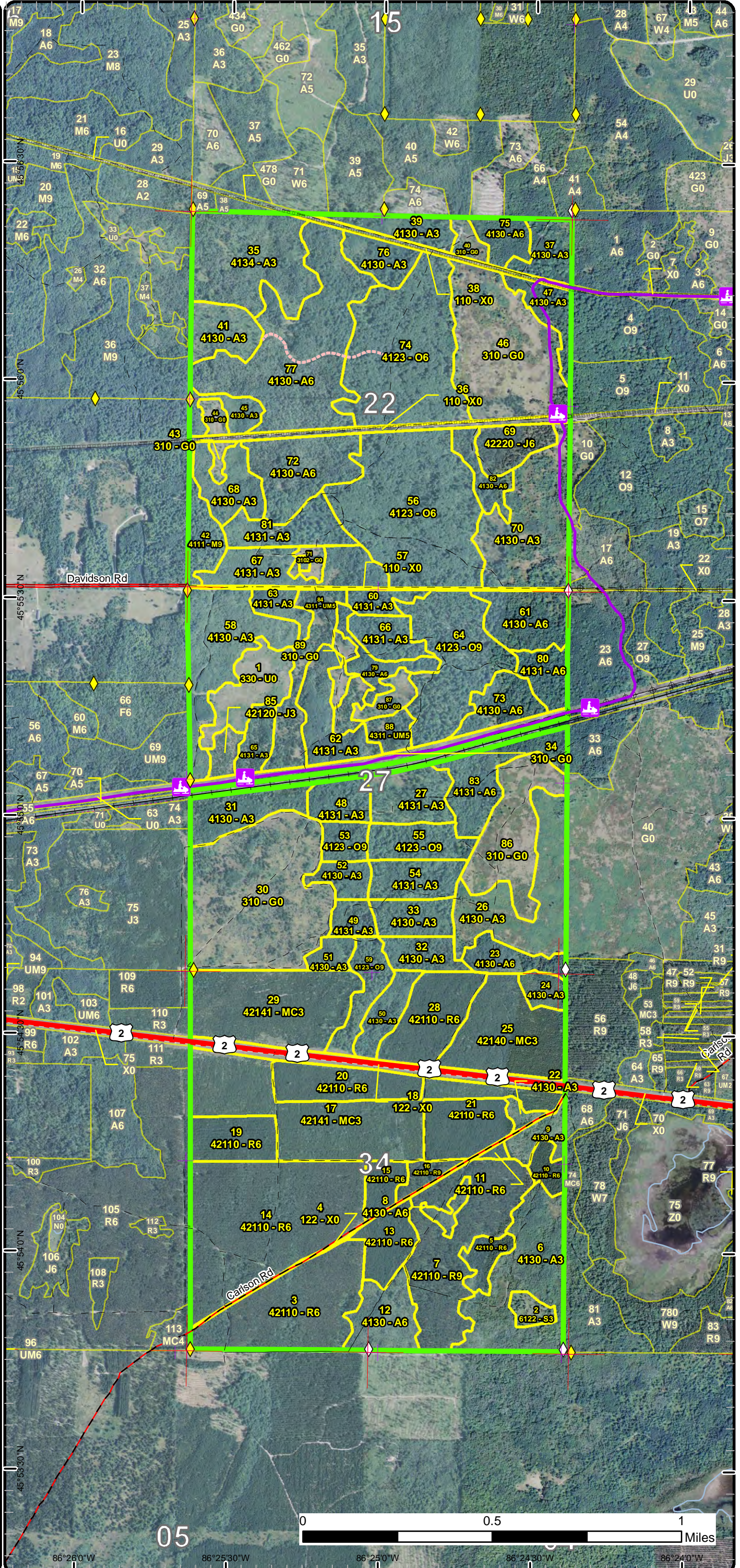
86°26'0"W 86°25'30"W 86°25'0"W 86°24'30"W 86°24'0"W

# Stand Boundary Map

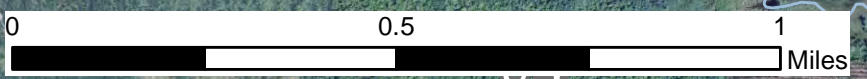
Compartment: 85  
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 County: Schoolcraft  
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- Miris Corners
- Remonumented Section Corners
- Survey Grade GPS Corners
- Field Grade GPS Corners
- Snowmobile Trails
- Designated Bicycle Trails
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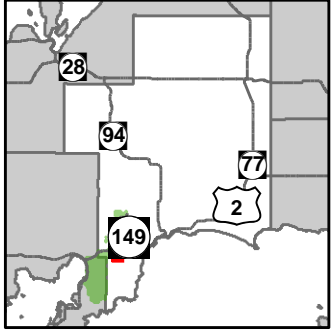
05



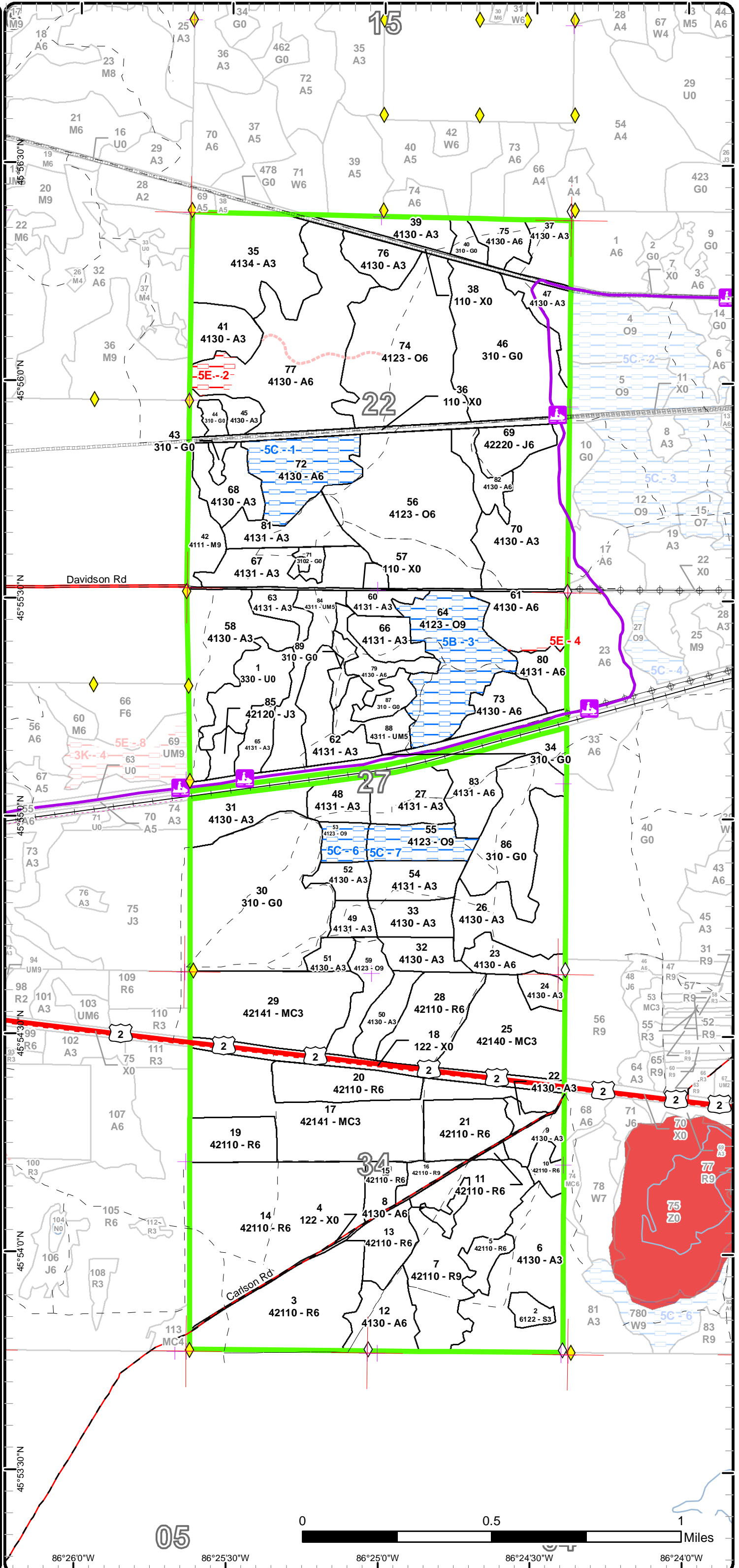
86°26'0"W    86°25'30"W    86°25'0"W    86°24'30"W    86°24'0"W

# Special Conservation Areas & Site Conditions Map

Compartment: 85  
 T41N,R17W, Sec: 22, 27, 34  
 County: Schoolcraft  
 Unit: Shingleton  
 Mgmt Area: Garden Thompson  
 Plains  
 YOE: 2018  
 Acres: 1,898 GIS Calculated  
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 Map Phase: Post Review



- Miris Corners
- + Remonumented Section Corners
- ◆ Survey Grade GPS Corners
- ◆ Field Grade GPS Corners
- Snowmobile Trails
- - - Designated Bicycle Trails
- - - Designated Snowmobile Trails
- Highway
- County Gravel Roads
- - - Poor Dirt Roads
- - - County Poor Dirt Roads
- - - Trail (Non-Recreation)
- - - Closed Roads
- Active Railroad
- Rivers
- Pipeline
- Powerline
- Compartment Boundary
- Available w/ Constraints
- Unavailable
- 5B: Maintain for regeneration purposes
- 5C: Delay treatment for age/size class diversity or exceptional site quality
- 5E: Long-Term Retention
- Stand Boundaries
- Ecological Reference Areas





Age Class

	Non-Forest	0-9	10-19	20-29	30-39	40-49	50-59	60-69	70-79	80-89	90-99	100-109	110-119	120-129	130-139	140-149	150+	Uneven-Aged	Total
Aspen	0	124	181	236	82	12	165	0	0	0	0	0	0	0	0	0	0	0	800
Herbaceous Openland	228	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	228
Jack Pine	0	0	6	0	13	0	0	0	0	0	0	0	0	0	0	0	0	0	19
Low-Density Trees	21	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	21
Lowland Spruce/Fir	0	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5
Northern Hardwood	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	12	12
Oak	0	0	0	0	0	0	0	0	0	239	0	0	0	0	0	0	0	0	239
Planted Mixed Pines	0	0	166	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	166
Red Pine	0	0	0	126	0	0	0	202	0	0	0	0	0	0	0	0	0	0	328
Upland Mixed Forest	0	0	0	34	0	0	0	0	0	0	0	0	0	0	0	0	0	0	34
Urban	45	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	45
<b>Total</b>	<b>294</b>	<b>129</b>	<b>353</b>	<b>396</b>	<b>95</b>	<b>12</b>	<b>165</b>	<b>202</b>	<b>0</b>	<b>239</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>12</b>	<b>1897</b>



## Report 2 – Treatment Summary

Shingleton Mgt. Unit  
Year of Entry: 2018

Acres of Harvest

Compartment 85  
Total Compartment Acres: 1,898

Commercial Harvest - 676  
Harvests with Site Condition - 0  
Next Step Harvest - 0  
Habitat Cut - 0

### Cover Type by Harvest Method

	Clearcut	Selection	Patch Clearcut	Seed Tree	Shelterwood	Thinning	Overstory Removal	Salvage	Other	Total Acres
Aspen	126	0	0	0	0	0	0	0	0	127
Herbaceous Openland	103	0	0	0	0	0	0	0	0	103
Northern Hardwood	0	12	0	0	0	0	0	0	0	12
Oak	0	0	168	0	0	0	0	0	0	168
Red Pine	0	0	0	0	0	265	0	0	0	265
<b>Total</b>	<b>229</b>	<b>12</b>	<b>168</b>	<b>0</b>	<b>0</b>	<b>266</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>676</b>

### Proposed and Next Step Treatments by Method

	Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current	676	0	0	0	0	21	0	0	0	697
Next Step	0	86	86	0	85	85	411	0	0	752
<b>Total</b>	<b>676</b>	<b>86</b>	<b>86</b>	<b>0</b>	<b>85</b>	<b>85</b>	<b>432</b>	<b>0</b>	<b>0</b>	<b>1449</b>



S t a n d	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Approval Status
1	41085001-Monitor	21.4	330 - Low-Density Trees	Nonstocked		Unspecified	Monitoring	Artificial Regen(3yr)	4212 - Planted Jack Pine	Even-Aged	Draft Field Boundary

**Habitat Cut: No****Site Condition:**Prescription 3rd year checkSpecs:Next Step  
Treatments:Acceptable jack pine, red pine, white pine, black spruce, aspen  
Regen:Other Percent to Treat = 100%  
Comment:Proposed Start Date: 10/27/2018

3	41085003-Cut	51.6	42110 - Planted Red Pine	Poletimber Well	66	111-140	Harvest	Crown Thinning	4211 - Planted Red Pine	Even-Aged	Draft Field Boundary
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**Habitat Cut: No****Site Condition:**Prescription Mark to cut removing trees > 16" DBH and thinning areas with higher BA to 120 BA residual.Specs:Next Step  
Treatments:Acceptable  
Regen:Other  
Comment:Proposed Start Date: 10/01/2017

7	41085007-Cut	55.5	42110 - Planted Red Pine	Sawtimber Well	66	111-140	Harvest	Crown Thinning	4211 - Planted Red Pine	Even-Aged	Draft Field Boundary
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**Habitat Cut: No****Site Condition:**Prescription Mark to cut reducing residual BA to 120 sqft.Specs:Next Step  
Treatments:Acceptable  
Regen:Other  
Comment:Proposed Start Date: 10/01/2017

11	41085011-Cut	1.5	42110 - Planted Red Pine	Poletimber Well	25	141-170	Harvest	Systematic Thinning	4211 - Planted Red Pine	Even-Aged	Draft Field Boundary
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**Habitat Cut: No****Site Condition:**Prescription Remove 1/3 of the stand by cutting every third row.Specs:Next Step  
Treatments:Acceptable  
Regen:Other  
Comment:Proposed Start Date: 10/01/2017





S t a n d	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Approval Status
13	41085013-Cut	14.9	42110 - Planted Red Pine	Poletimber Well	25	141-170	Harvest	Systematic Thinning	4211 - Planted Red Pine	Even-Aged	Draft Field Boundary

**Habitat Cut: No****Site Condition:**Prescription Remove 1/3 of the stand by cutting every third row.Specs:Next Step  
Treatments:Acceptable  
Regen:Other  
Comment:Proposed Start Date: 10/01/2017

14	41085014-Cut	89.3	42110 - Planted Red Pine	Poletimber Well	66	111-140	Harvest	Crown Thinning	4211 - Planted Red Pine	Even-Aged	Draft Field Boundary
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**Habitat Cut: No****Site Condition:**Prescription Mark to cut reducing residual BA to 120 sqft.Specs:Next Step  
Treatments:Acceptable  
Regen:Other  
Comment:Proposed Start Date: 10/01/2017

15	41085015-Cut	8.3	42110 - Planted Red Pine	Poletimber Well	25	141-170	Harvest	Systematic Thinning	4211 - Planted Red Pine	Even-Aged	Draft Field Boundary
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**Habitat Cut: No****Site Condition:**Prescription Remove 1/3 of the stand by cutting every third row.Specs:Next Step  
Treatments:Acceptable  
Regen:Other  
Comment:Proposed Start Date: 10/01/2017

16	41085016-Cut	5.6	42110 - Planted Red Pine	Sawtimber Well	66	111-140	Harvest	Crown Thinning	4211 - Planted Red Pine	Even-Aged	Draft Field Boundary
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**Habitat Cut: No****Site Condition:**Prescription Mark to cut reducing residual BA to 120 sqft.Specs:Next Step  
Treatments:Acceptable  
Regen:Other  
Comment:Proposed Start Date: 10/01/2017



S t a n d	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Approval Status
19	41085019-Cut	17.6	42110 - Planted Red Pine	Poletimber Well	25	141- 170	Harvest	Systematic Thinning	4211 - Planted Red Pine	Even-Aged	Draft Field Boundary

**Habitat Cut: No****Site Condition:**Prescription Remove 1/3 of the stand by cutting every third row.Specs:Next StepTreatments:AcceptableRegen:OtherComment:Proposed Start Date: 10/01/2017

21	41085021-Cut	21.1	42110 - Planted Red Pine	Poletimber Well	25	141- 170	Harvest	Systematic Thinning	4211 - Planted Red Pine	Even-Aged	Draft Field Boundary
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**Habitat Cut: No****Site Condition:**Prescription Remove 1/3 of the stand by cutting every third row.Specs:Next StepTreatments:AcceptableRegen:OtherComment:Proposed Start Date: 10/01/2017

23	41085023-Cut	0.3	4130 - Aspen	Poletimber Well	41	Unspec ified	Harvest	Crown Thinning	4211 - Planted Red Pine	Even-Aged	Field Boundary - Ready for
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**Habitat Cut: No****Site Condition:**Prescription Thin red pine to 120.Specs:Next Step SitePrep, Trenching; Planting, Initial Plant; Monitoring, Artificial Regen(1yr); Monitoring, Artificial Regen(3yr)Treatments:Acceptable Red PineRegen:Other Trench and plant to red pine. This stand is being cut with the adjacent compartment.Comment:Proposed Start Date: 10/01/2017

30	41085030-Cut	85.2	310 - Herbaceous Openland	Nonstocked		Unspec ified	Harvest	Clearcut	4211 - Planted Red Pine	Even-Aged	Draft Field Boundary
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**Habitat Cut: No****Site Condition:**Prescription Clear cut all trees, no retention, burn, trench, herbicide and plant red pine.Specs:Next Step Burn, Slash; Pesticide, Aerial; SitePrep, Trenching; Planting, Initial Plant; Monitoring, Artificial Regen(1yr)Treatments:Acceptable red pine, jackpineRegen:OtherComment:Proposed Start Date: 10/01/2017



Stand	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Approval Status
42	41085042-Cut	12.3	4111 - S.Maple, Hard Mast Association	Sawtimber Well	85	111-140	Harvest	Single Tree Selection	411 - Northern Hardwood	Uneven-Aged	Draft Field Boundary

**Habitat Cut: No****Site Condition:**

Prescription Mark trees to cut, reducing residual BA to 80 sqft. Cut all of the beech unless it appears resistant. Do not cut Oak or hemlock.

Specs:

Next Step Monitoring, Natural Regen (Re-Inventry)

Treatments:

Acceptable Mix of existing overstory species.

Regen:

Other

Comment:

Proposed Start Date: 10/01/2017

43	41085043-Cut	2.6	310 - Herbaceous Openland	Nonstocked		Unspecified	Harvest	Clearcut	310 - Herbaceous Openland		Draft Field Boundary
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**Habitat Cut: No****Site Condition:**

Prescription Cut all trees except oak

Specs:

Next Step Monitoring, Other - Specify

Treatments:

Acceptable grass opening

Regen:

Other

Comment:

Proposed Start Date: 10/01/2017

44	41085044-Cut	3.6	310 - Herbaceous Openland	Nonstocked		Unspecified	Harvest	Clearcut	310 - Herbaceous Openland		Draft Field Boundary
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**Habitat Cut: No****Site Condition:**

Prescription Cut all trees except oak.

Specs:

Next Step Monitoring, Other - Specify

Treatments:

Acceptable Maintain as grass opening

Regen:

Other

Comment:

Proposed Start Date: 10/01/2017

56	41085056-Cut	82.5	4123 - Red Oak	Poletimber Well	83	81-110	Harvest	Strip/Patch/Gap Cut (Femelschlag)	412 - Oak Types	Two-Aged	Draft Field Boundary
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**Habitat Cut: No****Site Condition:**

Prescription Strive to cut 20% of the stand by marking all trees to cut within a 1/5 acre circular area. Space gaps on a 3x3 chain spacing marking trees in between only for operability.

Specs:

Next Step Monitoring, Natural Regen (Re-Inventry)

Treatments:

Acceptable Existing over story species or mix of existing regeneration.

Regen:

Other Evaluate oak wilt specs at prep.

Comment:

Proposed Start Date: 10/01/2017



S t a n d	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Approval Status
59	41085059-Cut	14.2	4123 - Red Oak	Sawtimber Well	83	81-110	Harvest	Strip/Patch/Gap Cut (Femelschlag)	412 - Oak Types	Two-Aged	Draft Field Boundary

**Habitat Cut: No****Site Condition:**

Prescription Strive to cut 20% of the stand by marking all trees to cut within a 1/5 acre circular area. Space gaps on a 3x3 chain spacing marking trees in between  
Specs: only for operability.

Next Step Monitoring, Natural Regen (Re-Inventory)  
Treatments:

Acceptable Mix of existing over story species as well as existing under story.  
Regen:

Other Evaluate oak wilt specs at prep.  
Comment:

Proposed Start Date: 10/01/2017

61	41085061-Cut	19.9	4130 - Aspen	Poletimber Well	52	Unspec ified	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	Draft Field Boundary
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**Habitat Cut: No****Site Condition:**

Prescription Cut all trees except oak. Leave retention along south edge. Do not cut hemlock and do not apply 2" spec.  
Specs:

Next Step Monitoring, Natural Regen (Re-Inventory)  
Treatments:

Acceptable Mix of existing over story species.  
Regen:

Other  
Comment:

Proposed Start Date: 10/01/2017

73	41085073-Cut	14.2	4130 - Aspen	Poletimber Well	52	Unspec ified	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	Draft Field Boundary
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**Habitat Cut: No****Site Condition:**

Prescription Cut all trees except oak and hemlock. No 2" spec.  
Specs:

Next Step Monitoring, Natural Regen (Re-Inventory)  
Treatments:

Acceptable Mix of existing overstory species.  
Regen:

Other  
Comment:

Proposed Start Date: 10/01/2017

74	41085074-Cut	71.5	4123 - Red Oak	Poletimber Well	83	81-110	Harvest	Strip/Patch/Gap Cut (Femelschlag)	412 - Oak Types	Two-Aged	Draft Field Boundary
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**Habitat Cut: No****Site Condition:**

Prescription Strive to cut 20% of the stand by creating large canopy gaps, marking all trees to cut within a 1/5 acre circular area. Space gaps 3 chains apart only  
Specs: marking trees in between for operability.

Next Step Monitoring, Natural Regen (Re-Inventory)  
Treatments:

Acceptable Mix of current over story species and existing regeneration in under story.  
Regen:

Other Evaluate oak wilt specs at prep.  
Comment:

Proposed Start Date: 10/01/2017



S t a n d	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Approval Status
77	41085077-Cut	71.4	4130 - Aspen	Poletimber Well	52	Unspec ified	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	Draft Field Boundary

**Habitat Cut: No****Site Condition:**

Prescription Cut all species within stand except oak. Exclude an area in the west finger of stand as retention. Include the north-south strip of sp/fir with the retention. Do not cut hemlock.

Specs:

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Mix of existing over story species.

Regen:

Other

Comment:

Proposed Start Date: 10/01/2017

79	41085079-Cut	10.9	4130 - Aspen	Poletimber Well	52	Unspec ified	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	Draft Field Boundary
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**Habitat Cut: No****Site Condition:**

Prescription Cut all trees except oak and hemlock.

Specs:

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Mix of existing over story species.

Regen:

Other

Comment:

Proposed Start Date: 10/01/2017

82	41085082-Cut	9.8	4130 - Aspen	Poletimber Well	52	Unspec ified	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	Draft Field Boundary
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**Habitat Cut: No****Site Condition:**

Prescription Cut all trees except oak and hemlock.

Specs:

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Mix of existing over story species.

Regen:

Other

Comment:

Proposed Start Date: 10/01/2017

87	41085087-Cut	7.0	310 - Herbaceous Openland	Nonstocked	0	Unspec ified	Harvest	Clearcut	310 - Herbaceous Openland		Draft Field Boundary
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**Habitat Cut: No****Site Condition:**

Prescription Cut all trees except oak

Specs:

Next Step Monitoring, Other - Specify

Treatments:

Acceptable grass opening

Regen:

Other

Comment:

Proposed Start Date: 10/01/2017



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Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Approval Status
89 41085089-Cut	4.8	310 - Herbaceous Openland	Nonstocked	0	Unspecified	Harvest	Clearcut	310 - Herbaceous Openland		Draft Field Boundary

**Habitat Cut: No**

**Site Condition:**

Prescription Cut all trees except oak.

Specs:

Next Step Monitoring, Other - Specify

Treatments:

Acceptable grass opening

Regen:

Other

Comment:

Proposed Start Date: 10/01/2017

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**Total Treatment Acreage Proposed: 697.0**

## Report 4 – Site Conditions

Shingleton Mgt. Unit  
Thomas Burnis : Examiner

Compartment: 85  
Year of Entry: 2018

### Availability for Management

Total Acres	Acres Available	Acres Avail		Dominant Site Conditions	Dominant Site Conditions		
		With Condition	Not Available		5B	5C	5E
800	761	30	8	Aspen	0	30	8
228	228	0	0	Herbaceous Openland	0		
19	19	0	0	Jack Pine			
21	21	0	0	Low-Density Trees			
5	5	0	0	Lowland Spruce/Fir			
12	12	0	0	Northern Hardwood			
239	168	71	0	Oak	47	24	
166	166	0	0	Planted Mixed Pines			
328	328	0	0	Red Pine			
34	34	0	0	Upland Mixed Forest	0		
45	45	0	0	Urban			
1,898	1,788	101	8	Total Forested Acres	47	55	8
	94%	5%	0%	Relative Percent			

*\*Due to limitations in the current Site Conditions Analysis tool, all nonforested acres are considered available. Future development will enable analysis of nonforested types.*

Site No.	Dominant Site Cond	Dominant Site Availability	Dominant Site Condition	Acres	Other Site Condition	Other Site Condition	Other Site Condition	Other Site Condition
1	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	30	Unspecified	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>								
2	Unavailable	5E: Long-Term Retention	7	Unspecified	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>								

## Report 4 – Site Conditions

Shingleton Mgt. Unit  
Thomas Burnis : Examiner

Compartment: 85  
Year of Entry: 2018

3	<b>Available</b>	<b>5B: Maintain for regeneration purposes</b>	47	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> This stand was thinned heavier than stands 56 and 74. As a result, regeneration success of oak is better. Delay treatment to allow regen to grow a bit more and maintain canopy to help reduce aspen competition.							
4	<b>Unavailable</b>	<b>5E: Long-Term Retention</b>	1	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
6	<b>Available</b>	<b>5C: Delay treatment for age/size class diversity or exceptional site quality</b>	8	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
7	<b>Available</b>	<b>5C: Delay treatment for age/size class diversity or exceptional site quality</b>	16	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							



Mgt. Unit

Compartment: #Type!

Year of Entry:



## Report 5 – 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.

SCA Name	SCA Category	Detail Type	Recommendation	Acres
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Comments

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**Report 6 – EXISTING SPECIAL CONSERVATION AREA DETAILS**

\* This is a list of SCA's for this compartment along with a 1/4 mile buffer surrounding the compartment. Refer to the Special Conservation Area Map for locations of the below listed Conservation Areas.

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

Conservation Area	Type	Description
ERA	Ecological Reference Areas	Ecological Reference Areas (ERAs) are high quality examples of natural communities that have been identified as Element Occurrences (EOs) by the Michigan Natural Features Inventory (MNFI) within the context of their natural community classification system. Element Occurrences with viability ranks of A (Excellent) or B (Good) and a Global (G) or State (S) element (rarity) ranking of endangered (1), threatened (2), or rare (3) serve as an initial base of ERAs. They may be located upon any ownership in the State. The system is comprised of individual or associations of natural community types that are managed for restoration and maintenance of natural ecological processes and values. The public may submit recommendations for lands as ERAs using the DNR Conservation Area Recommendation Form.



Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
6122 - Black Spruce	Sapling Well	5.1	4	Immature	stand falling apart. Few nice red pine logs in NW tip. Cut all red pine, leave all white pine might get some white pine regen. Current species mix will be acceptable regen.  [8/5/08 BB] Stand is now on Proposal 41-018-08, actual stand acres = 5. Residual Basal area = 14 sq ft of white pine. In addition 1 acre was left on the south end of stand for retention.  [8/31/2012 TI] Sale is closed. TCR date 1/7/2012. Stand will be added to the regeneration timeclock.  (10/23/15 TB) Good mix of regen avg. 3 feet tall. Many smaller trees still germinating.
42110 - Planted Red Pine	Poletimber Well	51.6	66	111-140	Thinned in 1991 and 2001. FDF  [8/5/08 BB] Stand is now on Proposal 41-018-08, actual stand acres = 54. Residual Basal area = 107 sq ft of red pine, and 1 sq ft of oak.  [8/31/2012 TI] Sale is closed. TCR date 7/30/2012.
42110 - Planted Red Pine	Poletimber Well	7.7	24	111-140	About 2 acres failed and became part of stand 51. Few red pine survivors with aspen taking over. Current BA = 130 (10/15) Too low for thinning
4130 - Aspen	Sapling Well	47.8	25	Immature	Stand contains some wet areas. Scattered Red pine poles are a result of failed plantings which were overtaken by aspen.
42110 - Planted Red Pine	Sawtimber Well	55.5	66	111-140	FDF Second thinning complete spring 2001  [8/5/08 BB] Stand is now on Proposal 41-018-08, actual stand acres = 50. Residual Basal area = 116 sq ft of red pine, 1 sq ft of white pine and 1 sq ft of oak.  [8/31/2012 TI] Sale is closed. TCR date 7/30/2012.
4130 - Aspen	Poletimber Well	4.1	25	Immature	
4130 - Aspen	Sapling Well	8.6	25	Immature	
42110 - Planted Red Pine	Poletimber Well	6.1	24	141-170	current BA = 150 (10/15) Too low for thinning
42110 - Planted Red Pine	Poletimber Well	1.5	25	141-170	
4130 - Aspen	Poletimber Well	19.4	25	Immature	
42110 - Planted Red Pine	Poletimber Well	14.9	25	141-170	



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
14	42110 - Planted Red Pine	Poletimber Well	89.3	66	111-140	FDF, Thinned in 1991 and 2001. West 1/2 cut 2 and leave 4 rows previously, East 1/2 cut 1 leave 2.  [8/5/08 BB] Stand is now on Proposal 41-018-08, actual stand acres = 94. Residual Basal area = 115 sq ft of red pine, and 2 sq ft of oak.  [8/31/2012 TI] Sale is closed. TCR date 7/30/2012.
15	42110 - Planted Red Pine	Poletimber Well	8.3	25	141-170	
16	42110 - Planted Red Pine	Sawtimber Well	5.6	66	111-140	Thinned in 1991 and 2001. FDF  [8/5/08 BB] Stand is now on Proposal 41-018-08, actual stand acres = 8. Residual Basal area = 116 sq ft of red pine, 1 sq ft of white pine and 1 sq ft of oak.  [8/31/2012 TI] Sale is closed. TCR date 1/7/2012.
17	42141 - Planted Mixed Pine, Mixed Deciduous	Sapling Well	74.3	18	Immature	SALVAGE CUT 1998 FDF [3-14-02] Received regen survey results from Don showing 754 red pine trees/acre and 613 volunteers per acre. Release work still to come. FTP#41-893 [1/6/04 BB] Received completion for 52.5 total acres of release work for FTP which was completed in 8/03. Don indicates may still need more release work. (9/18/06AP) Portions of site were released in June 2006 with Velpar. FTP is being kept open to evaluate effectiveness of herbicide application. (6/11/07 AP) Herbicide worked good. No additional work needed. FTP will be closed with a letter. (2/12/08 AP) FTP closed with a letter (10/23/15 TB) Many JP volunteers and pure aspen clones have taken over much of the stand.
19	42110 - Planted Red Pine	Poletimber Well	17.6	25	141-170	
20	42110 - Planted Red Pine	Poletimber Well	22.0	25	111-140	Current BA= 130. too low for a third row thinning.
21	42110 - Planted Red Pine	Poletimber Well	21.1	25	141-170	
22	4130 - Aspen	Sapling Well	3.0	25	Immature	
23	4130 - Aspen	Poletimber Well	11.7	41	Unspecified	Cut next entry. Trees healthy with mix of smaller diameters which can grow more.
24	4130 - Aspen	Sapling Well	6.4	18	Immature	
25	42140 - Planted Mixed Pine	Sapling Well	39.9	18	Immature	



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
26	4130 - Aspen	Sapling Well	41.1	6	Immature	BURNED IN1997, filling in with aspen and cherry. Burn with grass stand in adjacent compartment.(5/31/2010 AP) Prescribed burn occurred on 4/22/2010. FTP 1335 is now closed.(12/4/15 TB) Stand has filled in with aspen and cherry. It is forested for the present time.
27	4131 - Aspen, Oak	Sapling Well	19.4	5	Immature	Mark oak to cut leaving 20 sqft. Residual to open crowns and promote aspen regen. Any of the current species mix will be acceptable regeneration.  [9/12/08 BB] Stand is now on Proposal 15-08 "Comp 85 Oak Stands" Actual Stand Acres = 21. Residual Basal Area; Oak = 18 sq ft  (3/22/11 AP) FTP W41-1372 has been cancelled.  [10/20/11 TI] Stand was cut as Sale # 41-015-08-01. TCR Date of 9/6/2011. This stand will be entered in the regen timeclock.  (10/23/15 TB) Stand regenerated well with aspen, oak, white pine, and red maple. Fire burned North edge of stand along rail road tracks. Killed saplings but should regenerate on it's own.
28	42110 - Planted Red Pine	Poletimber Well	26.9	25	111-140	
29	42141 - Planted Mixed Pine, Mixed Deciduous	Sapling Well	52.2	18	Immature	SALVAGE CUT 1998 [3-14-02] Received regen survey results from Don showing 723 red pine trees/acre and 201 volunteers per acre. Release work still to come. FTP#41-891 (9/18/06AP) CLOSE FTP C41-891. Adjacent US2 sites were sprayed in fall 2006. It was determined by TMS that this site did not need any release work. (10/23/15 TB) Many JP volunteers and our aspen clones have taken over much of the red pine.
31	4130 - Aspen	Sapling Well	18.9	18	Immature	
32	4130 - Aspen	Sapling Well	11.5	18	Immature	
33	4130 - Aspen	Sapling Well	13.2	25	Immature	
35	4134 - Aspen, Spruce/Fir	Sapling Well	47.6	37	Unspecified	
37	4130 - Aspen	Sapling Well	12.8	16	Immature	Lake Head Aspen Sale 1-99-01, about 30 sqft of oak residual.
39	4130 - Aspen	Sapling Well	11.8	16	Immature	



Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
4130 - Aspen	Sapling Well	15.6	5	Immature	Do not cut oak or white pine.  [9/12/08 BB] Stand is now on Proposal 15-08 "Comp 85 Oak Stands" Actual Stand Acres = 15. Residual Basal Area; Oak = 2 sq ft, white pine 3 sq ft, hemlock 5 sq ft  (3/22/11 AP) FTP W41-1372 has been cancelled.  [10/20/11 TI] Stand was cut as Sale # 41-015-08-01. TCR Date of 9/6/2011. This stand will be entered in the regen timeclock.
4111 - S.Maple, Hard Mast Association	Sawtimber Well	12.3	85	111-140	Stand was cut in the fall 2000 41-040-98. Beech is the only hardwood regeneration.
4130 - Aspen	Sapling Well	8.6	15	Immature	
4130 - Aspen	Sapling Well	12.0	16	Immature	Lake Head Aspen Sale 1-99-01, about 30 sqft of oak residual.
4131 - Aspen, Oak	Sapling Well	11.3	25	Immature	
4131 - Aspen, Oak	Sapling Well	6.9	18	Immature	
4130 - Aspen	Sapling Well	11.5	25	Immature	
4130 - Aspen	Sapling Well	6.1	25	Immature	
4130 - Aspen	Sapling Well	8.1	25	Immature	
4123 - Red Oak	Sawtimber Well	8.1	85	1-50	
4131 - Aspen, Oak	Sapling Well	15.7	18	Immature	
4123 - Red Oak	Sawtimber Well	16.2	85	1-50	
4123 - Red Oak	Poletimber Well	82.5	83	81-110	(2006) Cut all species except oak and white pine.  [9/12/08 BB] Stand is now on Proposal 15-08 "Comp 85 Oak Stands" Actual Stand Acres = 81. Residual Basal Area; Oak = 75 sq ft, white pine = 1 sq ft,  [10/20/11 TI] Stand was cut as Sale # 41-015-08-01. TCR Date of 9/6/2011. This stand will be entered in the regen timeclock.  (11/24/15 TB) Good regen where canopy gaps exist, but not enough gaps created and regen has been heavily browsed by deer.



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
58	4130 - Aspen	Sapling Well	39.6	15	Immature	South end of stand had a salvage cut in 1998, North part of stand was cut in 2001. The entire stand has regenerated to aspen.
59	4123 - Red Oak	Sawtimber Well	14.2	83	81-110	All species except oak removed in 1991, but not enough canopy opening to create regen. Also, regen has been heavily browsed.
60	4131 - Aspen, Oak	Sapling Well	6.9	16	Immature	
61	4130 - Aspen	Poletimber Well	21.2	52	Unspecified	
62	4131 - Aspen, Oak	Sapling Well	20.5	24	Immature	
63	4131 - Aspen, Oak	Sapling Well	7.4	24	Immature	
64	4123 - Red Oak	Sawtimber Well	46.8	85	51-80	All species except oak cut out in 1992, mostly red maple regen, oak regen heavily browsed.  (12/17/92) Proposal 44-90 closed complete  [9/12/08 BB] Stand is now on Proposal 15-08 "Comp 85 Oak Stands" Actual Stand Acres = 44. Residual Basal Area; Oak = 32 sq ft  (9/06/11) Proposal 15-08 closed complete
65	4131 - Aspen, Oak	Sapling Well	8.7	24	Immature	
66	4131 - Aspen, Oak	Sapling Well	12.2	24	Immature	
67	4131 - Aspen, Oak	Sapling Well	26.1	24	Immature	
68	4130 - Aspen	Sapling Well	17.2	24	Immature	
69	42220 - Natural Jack Pine	Poletimber Well	13.2	36	Unspecified	Possibly cut next entry and include trees in opening north of pipeline.
70	4130 - Aspen	Sapling Well	47.4	5	Immature	.Poor aspen and red maple. Cut to promote better stand and blend into stand 67. Existing species mix acceptable regen. No need for retention because of small acreage, low stocking, and desire to promote maximum aspen regeneration. Also, close proximty to another stand of mature aspen trees.[9/12/08 BB] Stand is now on Proposal 15-08 "Comp 85 Oak Stands" Actual Stand Acres = 19. Residual Basal Area; Oak = 2 sq ft(3/22/11 AP) FTP W41-1372 has been cancelled.[10/20/11 TI] Stand was cut as Sale # 41-015-08-01. TCR Date of 9/6/2011. This stand will be entered in the regen timeclock.This stand has had patches of mature aspen cut out of it in 2001 and 2011 but is basically all blending together as an A3.



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
72	4130 - Aspen	Poletimber Well	30.4	52	Unspecified	Jack Pine along west edge.
73	4130 - Aspen	Poletimber Well	14.2	52	Unspecified	
74	4123 - Red Oak	Poletimber Well	71.5	83	81-110	(2006) Open understory, no regen. Cut all species except oak and white pine.  [9/12/08 BB] Stand is now on Proposal 15-08 "Comp 85 Oak Stands" Actual Stand Acres = 72. Residual Basal Area; Oak = 70 sq ft, White Pine = 3 sq ft,  [10/20/11 TI] Stand was cut as Sale # 41-015-08-01. TCR Date of 9/6/2011. This stand will be entered in the regen timeclock.  (11/24/15 TB) Good regen where canopy gaps exist, but not enough gaps created and regen has been heavily browsed by deer.
75	4130 - Aspen	Poletimber Well	9.7	37	Unspecified	
76	4130 - Aspen	Sapling Well	12.2	16	Immature	
77	4130 - Aspen	Poletimber Well	78.3	52	Unspecified	
79	4130 - Aspen	Poletimber Well	10.9	52	Unspecified	
80	4131 - Aspen, Oak	Poletimber Well	11.2	24	1-50	Stand was cut through in 1992. All species except oak were cut.
81	4131 - Aspen, Oak	Sapling Well	18.1	16	Immature	
82	4130 - Aspen	Poletimber Well	9.8	52	Unspecified	Cut stand so regen can blend into stand 70.
83	4131 - Aspen, Oak	Poletimber Well	24.6	33	Unspecified	
84	4311 - Pine, Aspen Mix	Poletimber Medium	21.6	24	Immature	Stand is sparsely stocked but not quite merchantable. Let grow another 10 years the clear cut and possibly plant jack pine or let come back to aspen. (make that decision in 2028 entry)





	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
85	42120 - Planted Jack Pine	Sapling Well	5.7	10	Immature	<p>[7-15-01] Received a completion for 6 acres of machine (?) planting.</p> <p>[1/22/2004 BB] Regen was counted in the summer of 2003, TMS Kuhr reports the stand had heavy deer browse causing near complete mortality and recommends replanting with inmate labor.</p> <p>[1/22/04 BB] Received a completion from Dick indicating he planted 6 acres. Check regen in 2005</p> <p>(8/24/05AP) 2005 Regen Check - 375 jack pine. Problems with deer browse in the past was not evident this time. Dry summer conditions caused excessive mortality in areas. On list to plant with inmates in spring 2006.</p> <p>(5/22/06AP) Stand planted with inmates in spring 2006 - 3000 jack pine. Regen check in 2007.</p> <p>(4/25/07 AP) 2007 Regeneration check: 566 jack pine. FTP is on a letter to be closed.</p> <p>(2/12/08 AP) FTP closed with a letter</p>
88	4311 - Pine, Aspen Mix	Poletimber Medium	12.2	24	Immature	<p>Stand is sparsely stocked but not quite merchantable. Let grow another 10 years the clear cut and possibly plant jack pine or let come back to aspen. (make that decision in 2028 entry)</p>



Stand	Cover Type	Acres	Managed Site	General Comments:
1	330 - Low-Density Trees	21.4		Stand was trenched in spring of 2015. Scarified following harvest and failed it's regeneration counts. There may be a few pockets of aspen within stand that were not trenched though. Planting scheduled in spring 2016. Planted in 2016. Passed 1st year count with 680 planted jack pine and 60 volunteers.
4	122 - Road/Parking Lot	3.6	No	county road, Carlson Road
18	122 - Road/Parking Lot	19.8	No	US-2
30	310 - Herbaceous Openland	85.2	No	Cut in 1991 then maintained as grass. Filling in with aspen and jack pine. (1/5/2012 AP) Stand was burned on 8/5/2011. FTP 1335 is now closed.
34	310 - Herbaceous Openland	17.8	No	Edison Sault power line.
36	110 - Low Intensity Urban	11.1	No	Great Lakes Pipeline
38	110 - Low Intensity Urban	6.4	No	Enbridge pipeline
40	310 - Herbaceous Openland	4.9	No	cancel FTP for burn and change to inmates with hand tools. (6/8/09) FTP W41-1390 is closed and complete. Inmates did opening maintenance this spring.
43	310 - Herbaceous Openland	2.6	No	
44	310 - Herbaceous Openland	3.6	No	
46	310 - Herbaceous Openland	61.5	No	cancel FTP for burn and change to inmates with hand tools. (6/8/09) FTP W41-1390 is closed and complete. Inmates did opening maintenance this spring.
57	110 - Low Intensity Urban	3.8	No	Cloverland Power Line
71	3102 - Grass	3.6	No	
86	310 - Herbaceous Openland	36.7	No	BURNED IN 1997, filling in with aspen and cherry. Burn with grass stand in adjacent compartment. (5/31/2010 AP) Prescribed burn occurred on 4/22/2010. FTP 1335 is now closed. (4/18/16 TB) This stand previously managed as part of stand 26 as all opening. However, stand 26 filled with aspen while this stand remained open.



Stand	Cover Type	Acres	Managed Site	General Comments:
87	310 - Herbaceous Openland	7.0	No	Manage with adjacent stand 88 by planting with jack pine or encouraging aspen, whatever the decision when 88 gets harvested.
89	310 - Herbaceous Openland	4.8	No	Manage with adjacent stands 84 and 88 by planting with jack pine or encouraging aspen, whatever the decision when 84 and 88 gets harvested.