



Compartment Review Presentation

Shingleton Forest Management Unit

Compartment 41180

Entry Year 2022

Acreage: 1,791

County Alger

Management Area: Cusino Complex

Revision Date: 2020-05-08

Stand Examiner: Scott Kentner

Legal Description:

47N 17W Sections: 22 27 34 35

Identified Planning Goals:

Multiple use management with emphases on timber, wildlife, fisheries and biodiversity.

Soil and topography:

Flat to rolling terrain. Most of the compartment lies within the Munising Moraine LTA, with a portion of the compartment within the Cusino Swamp LTA.

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

Compartment contains the forest Land group ownership as well as some individual private ownership. The main land use is general forest.

Unique Natural Features:

Wood turtle (*Clemmys insculpta*, state special concern) could occur in and along Star Creek. There is also potential for nesting red-shouldered hawk (*Buteo lineatus*, state threatened) and Northern goshawks (*Accipiter gentilis*, state special concern) to occur throughout this compartment in stands of northern hardwoods, mature aspen, mixed swamp conifer, and swamp hardwoods.

Archeological, Historical, and Cultural Features:

None known

Special Management Designations or Considerations:

None

Watershed and Fisheries Considerations:

Fisheries Values - Good. The Star Creek system, including the tributary within this compartment, are all Second Quality Cold Water, capable of supporting native brook trout.

Wildlife Habitat Considerations:

Compartment 180 lies within south eastern Alger county in the Grand Marais Sandy End Moraine and Outwash ecological sub-subsection and is a part of the Cusino Complex Management area with American marten, moose, black bear, gray jay, northern goshawk, and white-tailed deer as featured species. The northwestern portion of this compartment is also part of the Melstrand Grouse Enhanced Management Site (GEMS). The growing season is approximately 130 days. Extreme low winter temperatures near -35 degrees F and average annual snowfalls of 180 inches or more are common. Pre-settlement conditions were dominated by northern hardwood that consisted primarily of sugar maple, beech, yellow birch, and hemlock. Windthrow and beaver ponding were likely the main sources of natural disturbance. Current vegetational composition is very similar to that of pre-settlement conditions. Northern hardwoods dominate the upland forest. Northern white cedar, red maple, ash, and black spruce occupy the lowlands.

Wildlife habitat management objectives include maintaining high biodiversity values within harvested stands. In northern hardwood stands, management will focus on the maintenance of mature trees, coarse woody debris, forest structure, hard and soft mast producers and mesic conifer retention for the multiple species that depend upon them is a priority. The Petrel deer wintering complex is just south of this compartment so management for closed canopy lowland conifers and regenerating these species when possible will continue. Management of young successional forest types for browse and in stand retention of boreal forest types is also a priority. Maintaining herbaceous open lands within this compartment is also a priority. Stands contained in the Melstrand GEMS will be managed according to the Melstrand GEMS management plan. Other wildlife species of interest include fisher, pileated woodpecker, barred owl, broad-winged hawk, American

woodcock and ruffed-grouse.

Mineral Resource and Development Concerns and/or Restrictions

Surface sediments consist of end moraine of fine-texture till and peat and muck to the south. There is over 120 feet of local relief in the compartment. There is insufficient data to determine the glacial drift thickness. The Ordovician Prairie du Chien (PdC) subcrop is below the glacial drift. The PdC could be used for stone. The nearest gravel pit is 4 miles to the south. There appears to be limited gravel potential on State lands, depending on the size of the fine-textured glacial till.

Vehicle Access:

The Petrel Road runs through the compartment, with 2-track roads leading from it. Also, the Melstrand Truck Trail is on the north the Sunrise grade runs through the compartment.

Survey Needs:

Recreational Facilities and Opportunities:

The Sunrise Grade snowmobile trail goes through the compartment.

Fire Protection:

This compartment is relatively low risk in terms of fire potential due to the slow burning nature of the fuels in the area.

Additional Compartment Information:

The following reports from the Inventory are attached:

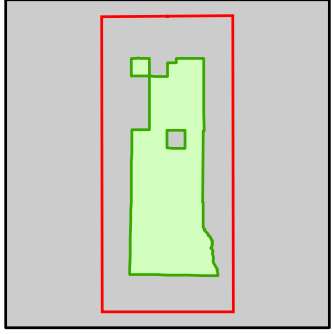
- Total Acres by Cover Type and Age Class**
- Cover Type by Harvest Method**
- Proposed Treatments – No Limiting Factors**
- Proposed Treatments – With Limiting Factors**
- Stand Details (Forested and Nonforested)**
- Dedicated and Proposed Special Conservation Areas**
- Site Condition Details**

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

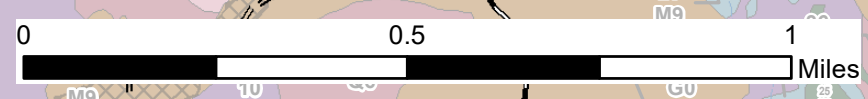
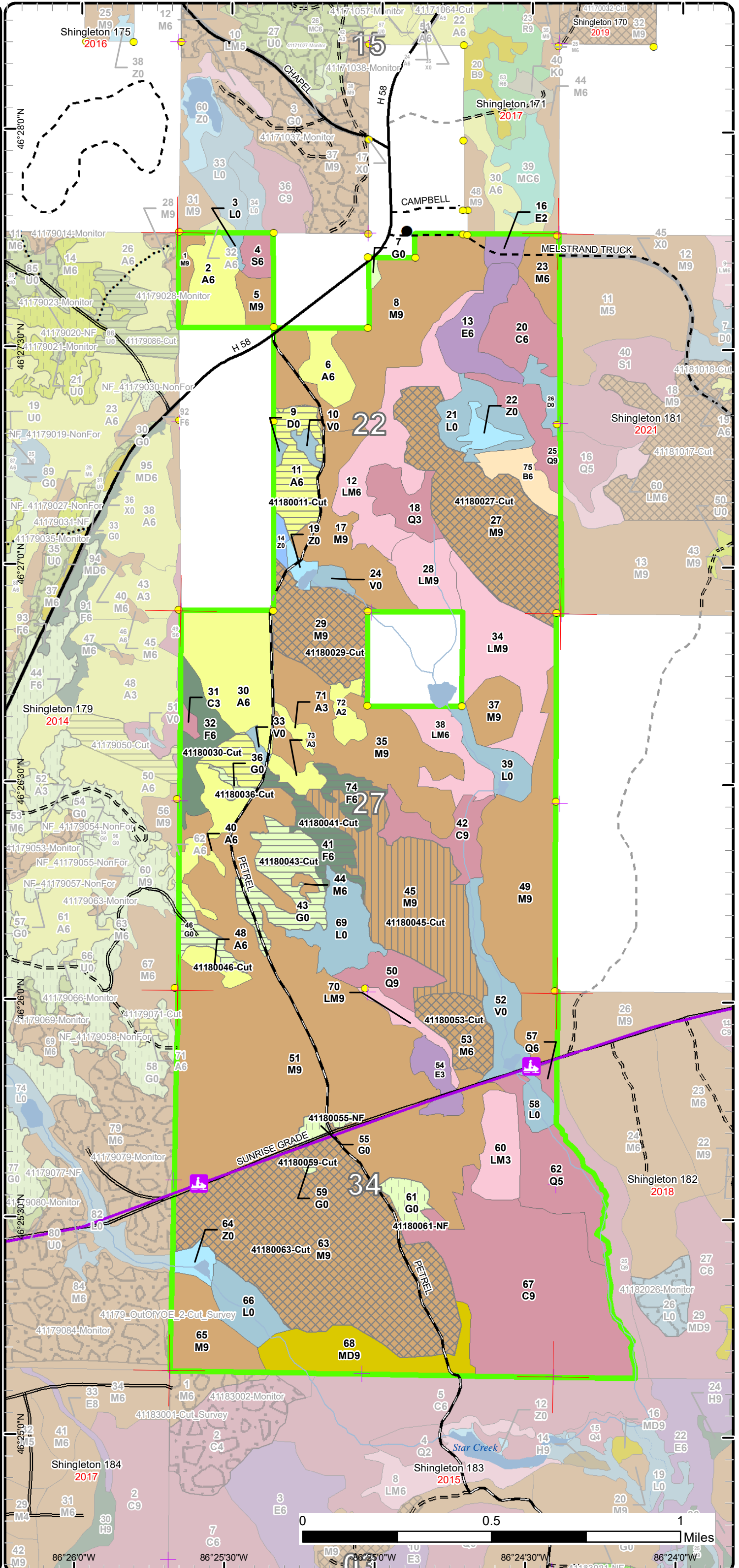
- Base feature information, stand boundaries, cover types, and numbers**
- Proposed treatments**
- Site condition boundaries**
- Details on the road access system**

Cover Type & Treatments Map

Compartment: 180
 T47N,R17W, Sec: 22, 27, 34, 35
 County: Alger
 Unit: Shingleton
 Mgmt Area: Casino Complex
 YOE: 2022
 Acres: 1,791 GIS Calculated
 Examiner: Scott Kentner
 Map Revised: 8/25/2020
 Map Phase: Web Post



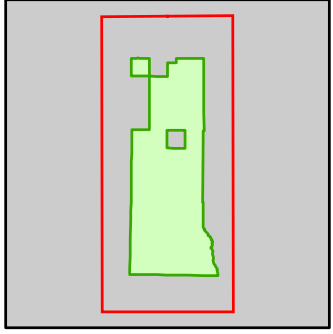
- Miris Corners
- + Remonumented Section Corners
- Survey Grade Corners
- Counties
- DNR - Primary Forest Road
- DNR - Secondary Forest Road
- DNR - Forest Access Route
- Federal / State / County - Paved Road
- Federal / State - Dirt / Gravel Road
- Private - Dirt / Gravel Road
- DNR - Management Access
- Snowmobile Trails
- Designated Snowmobile Trails
- Intermittent Stream
- Lake/Pond
- Perennial River
- Lakes and Rivers
- City
- Compartment Boundary
- Selection (Group, Single Tree)
- Clearcut (w/Reserves)
- Shelter Wood (w/Reserves)
- Opening Maintenance
- 411 - Northern Hardwood
- 413 - Aspen
- 414 - Other Upland Deciduous
- 419 - Mixed Upland Deciduous
- 423 - Other Upland Conifers
- 611 - Lowland Deciduous Forest
- 612 - Lowland Coniferous Forest
- 613 - Lowland Mixed Forest
- 310 - Herbaceous Openland
- 500 - Water
- 621 - Floating Aquatic
- 622 - Lowland Shrub



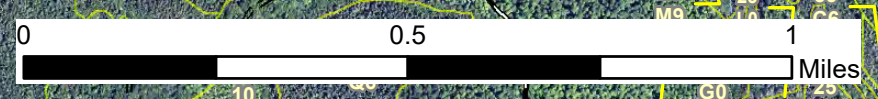
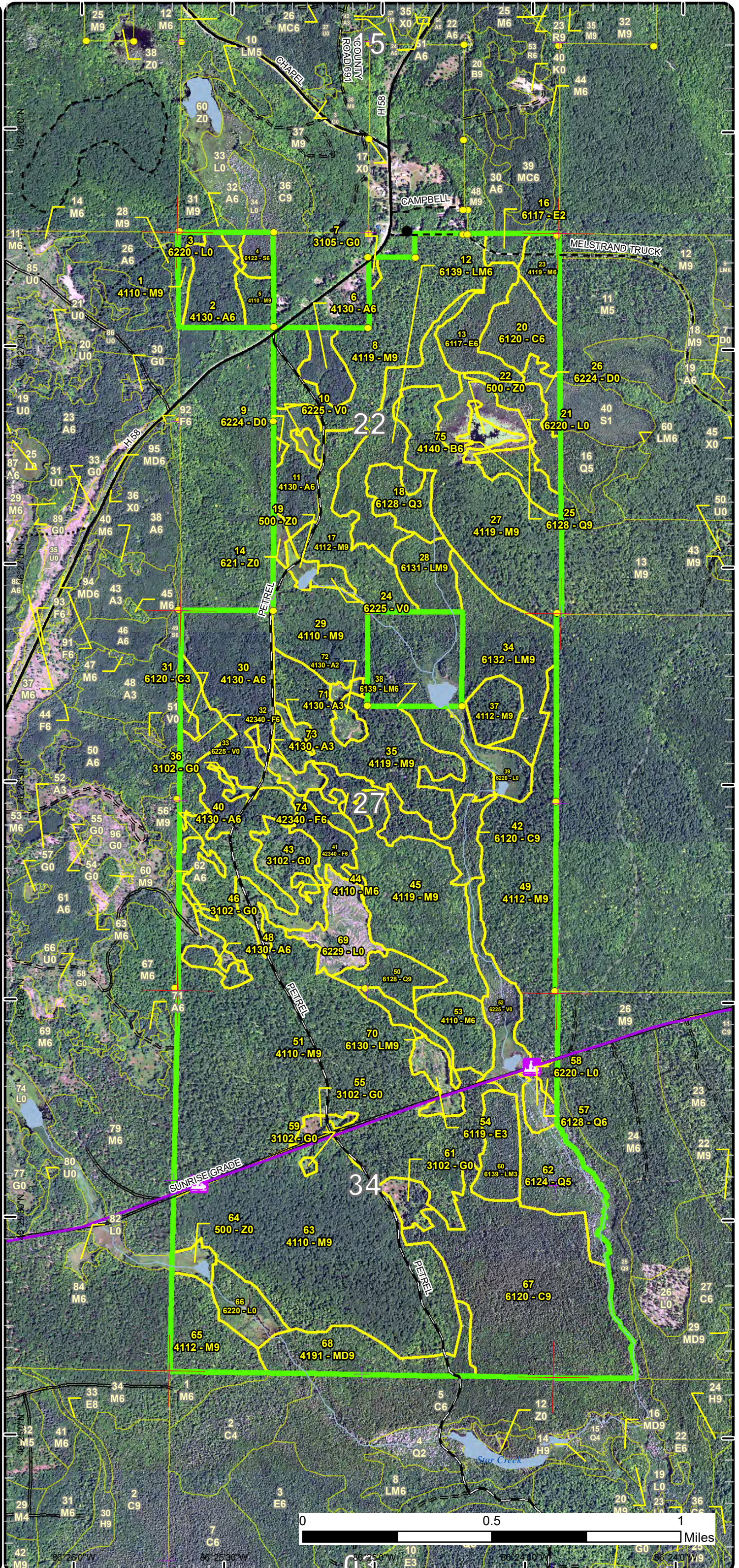
86°26'0"W 86°25'30"W 86°25'0"W 86°24'30"W 86°24'0"W

Stand Boundary Map

Compartment: 180
 T47N,R17W, Sec: 22, 27, 34, 35
 County: Alger
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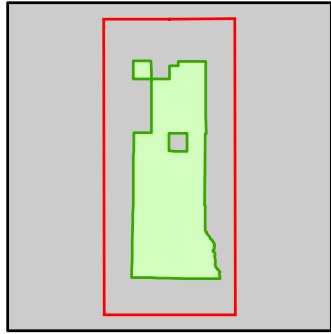


- Miris Corners
- + Remonumented Section Corners
- Survey Grade Corners
- Counties
- DNR - Primary Forest Road
- DNR - Secondary Forest Road
- DNR - Forest Access Route
- Federal / State / County - Paved Road
- Federal / State - Dirt / Gravel Road
- Private - Dirt / Gravel Road
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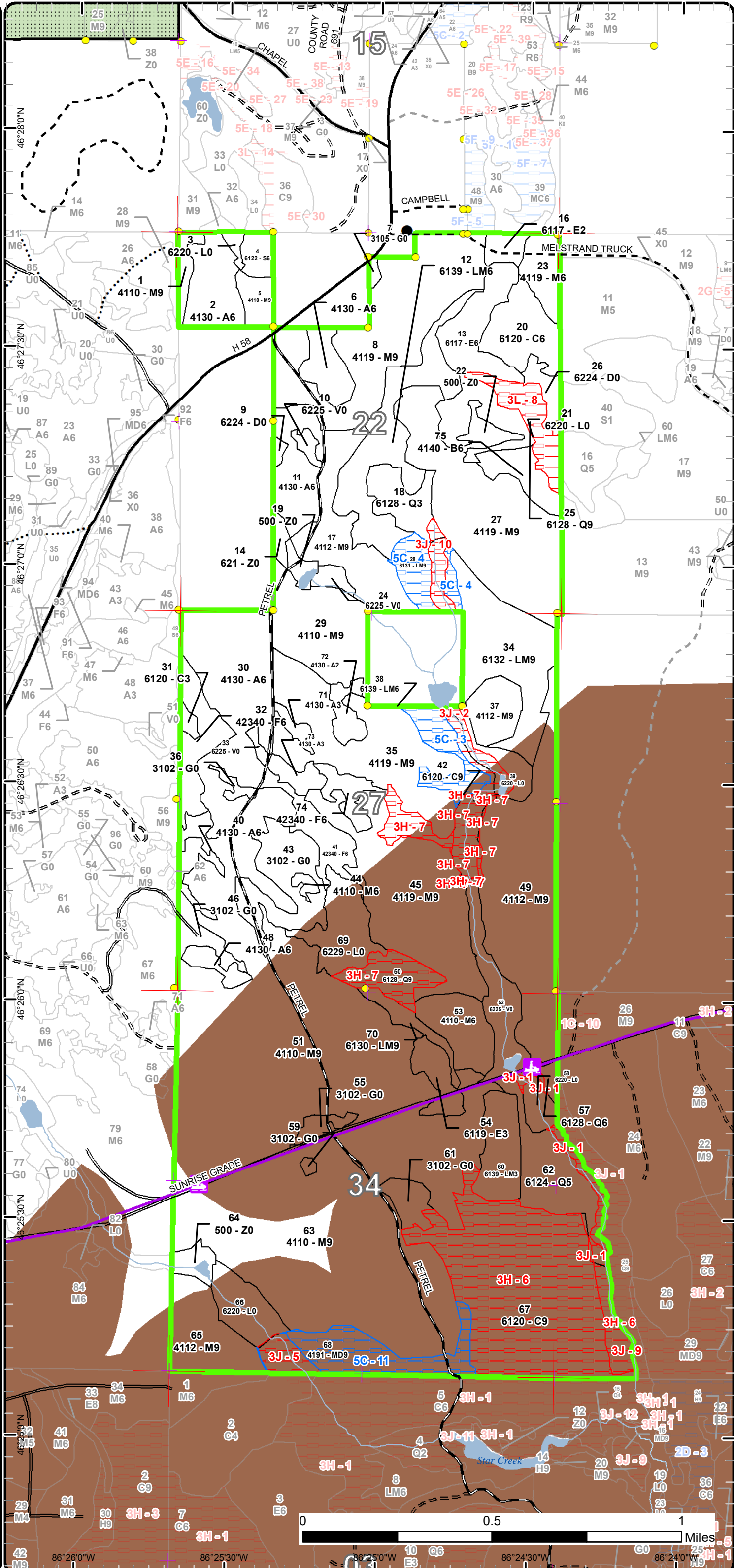


Special Conservation Areas

Compartment: 180
 T47N,R17W, Sec: 22, 27, 34, 35
 County: Alger
 Unit: Shingleton
 Mgmt Area: Casino Complex
 YOE: 2022
 Acres: 1,791 GIS Calculated
 Examiner: Scott Kentner
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- Snowmobile Trails
- Designated Snowmobile Trails
- Intermittent Stream
- Lake/Pond
- Perennial River
- Lakes and Rivers
- City
- Compartment Boundary
- Available w/ Constraints
- Unavailable
- 5C: Delay treatment for age/size class diversity or exceptional site quality
- 3J: Water quality / BMPs (stream, river, or lake)
- 3L: Other wildlife concerns
- Stand Boundaries
- SCA
- Cold Water Streams
- Cold Water Lakes
- Deer Winter Range
- Recreational/Scenic Value Area



Report 1 – Total Acres by Cover Type and Age Class



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	15	0	0	17	106	0	0	0	0	0	0	0	0	0	0	0	0	138
Bog	29	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	29
Cedar	0	0	0	0	0	0	0	0	0	0	0	22	0	140	0	0	0	2	164
Herbaceous Openland	52	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	52
Lowland Conifers	0	0	0	0	0	0	15	32	0	15	14	0	0	0	0	0	0	3	79
Lowland Deciduous	0	10	0	0	5	0	21	0	0	0	0	0	0	0	0	0	0	0	36
Lowland Mixed Forest	0	0	0	0	18	0	42	0	52	17	0	0	0	0	0	0	0	18	147
Lowland Shrub	73	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	73
Lowland Spruce/Fir	0	0	0	0	0	0	0	6	0	0	0	0	0	0	0	0	0	0	6
Mixed Upland Deciduous	0	0	0	0	0	0	0	0	34	0	0	0	0	0	0	0	0	0	34
Northern Hardwood	0	0	0	0	0	0	0	2	0	551	0	0	0	0	0	0	0	404	957
Paper Birch	0	0	0	0	0	11	0	0	0	0	0	0	0	0	0	0	0	0	11
Treed Bog	8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	8
Upland Spruce/Fir	0	0	0	0	0	17	0	0	0	0	0	0	0	0	0	0	0	22	39
Water	18	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	18
Total	180	25	0	0	40	134	42	36	92	51	566	36	0	140	0	0	0	449	1791



Report 2 – Treatment Summary

Shingleton Mgt. Unit
Year of Entry: 2022

Acres of Harvest

Compartment 180
Total Compartment Acres: 1,791

Commercial Harvest - 456
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	29	0	0	0	0	0	0	0	0	29
Herbaceous Openland	39	0	0	0	0	0	0	0	0	39
Northern Hardwood	0	296	0	0	70	0	0	0	0	366
Upland Spruce/Fir	22	0	0	0	0	0	0	0	0	22
Total	90	296	0	0	70	0	0	0	0	456

Proposed and Next Step Treatments by Method

	Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current	456	0	0	0	0	0	0	12		468
Next Step	0	0	0	0	0	417	0	39		456
Total	456	0	0	0	0	417	0	51		924



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	Habitat Cut
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Proposed Treatments:

11	41180011-Cut	20.1	4130 - Aspen	Poletimber Well	45	51-80	Harvest	Clearcut	413 - Aspen	Even-Aged	No
<p><u>Prescription</u> Clear-cut stand in accordance with the GEMS plan. Within the GEMS plan it was agreed upon that retention was not needed. <u>Specs:</u> <u>Next Step</u> Monitoring, Natural Regen (Re-Inventory) <u>Treatments:</u> <u>Acceptable</u> Aspen <u>Regen:</u> <u>Other</u> <u>Comment:</u> <u>Site Condition</u> <u>Proposed Start Date:</u> 10/1 /2021</p>											
27	41180027-Cut	76.7	4119 - Mixed Northern Hardwoods	Sawtimber Well	91	81-110	Harvest	Single Tree Selection	411 - Northern Hardwood	Uneven-Aged	No
<p><u>Prescription</u> Single Tree Selection Harvest: Mark stand following the complete marker guidelines. Residual Basal area should be on average between <u>Specs:</u> 70 - 90. Mark canopy gaps 50ft in diameter, numbering about 1 gap/ 2 acres. Focus gaps around Black cherry when present. No cut hemlock or any bear clawed beech. <u>Next Step</u> Monitoring, Natural Regen (Re-Inventory) <u>Treatments:</u> <u>Acceptable</u> Northern Hardwood species. <u>Regen:</u> <u>Other</u> <u>Comment:</u> <u>Site Condition</u> <u>Proposed Start Date:</u> 10/1 /2021</p>											
29	41180029-Cut	37.2	4110 - Sugar Maple Association	Sawtimber Well	91	111-140	Harvest	Single Tree Selection	411 - Northern Hardwood	Uneven-Aged	No
<p><u>Prescription</u> Single Tree Selection Harvest: Mark stand following the complete marker guidelines. Residual Basal area should be on average between <u>Specs:</u> 70 - 90. Mark canopy gaps 50ft in diameter, numbering about 1 gap/ 2 acres. Focus gaps around Black cherry when present. No cut hemlock or bear clawed beech. Leave large spruce within stand. <u>Next Step</u> Monitoring, Natural Regen (Re-Inventory) <u>Treatments:</u> <u>Acceptable</u> Northern Hardwood species. <u>Regen:</u> <u>Other</u> <u>Comment:</u> <u>Site Condition</u> <u>Proposed Start Date:</u> 10/1 /2021</p>											



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Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
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30	41180030-Cut	9.0	4130 - Aspen	Poletimber Well	45	51-80	Harvest	Clearcut	413 - Aspen	Even-Aged	No
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Prescription Clear-cut stand in accordance with the GEMS plan. Within the GEMS plan it was agreed upon that retention was not needed.

Specs:

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Aspen

Regen:

Other

Comment:

Site Condition

Proposed Start Date: 10/1 /2021

36	41180036-Cut	2.3	3102 - Grass	Nonstocked			Harvest	Clearcut	310 - Herbaceous Openland		No
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Prescription Clearcut: Remove all species within stand except, junberry, apple, crabapple and oak.

Specs:

Next Step NonForestMgt, Herbaceous/Crop/Grass Planting

Treatments:

Acceptable Junberry, apple, crabapple, oak.

Regen:

Other

Comment:

Site Condition

Proposed Start Date: 10/1 /2021

41	41180041-Cut	14.1	42340 - Upland Spruce/Fir	Poletimber Well	88	81-110	Harvest	Clearcut with Retention	429 - Mixed Upland Conifers	Even-Aged	No
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Prescription Clearcut with retention: Remove all species within stand, leaving retention in a pocket along the north end of the stand.

Specs:

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable any species currently on site.

Regen:

Other

Comment:

Site Condition

Proposed Start Date: 10/1 /2021

43	41180043-Cut	28.0	3102 - Grass	Nonstocked			Harvest	Clearcut	310 - Herbaceous Openland		No
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Prescription Clearcut: Remove all species within stand, except junberry, apple, crabapple and oak.

Specs:

Next Step NonForestMgt, Herbaceous/Crop/Grass Planting

Treatments:

Acceptable Junberry, apple, crabapple and oak.

Regen:

Other

Comment:

Site Condition

Proposed Start Date: 10/1 /2021



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Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
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45	41180045-Cut	69.8	4119 - Mixed Northern Hardwoods	Sawtimber Well	91	111-140	Harvest	Shelterwood	4319 - Mixed Upland Forest	Uneven-Aged	No
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Prescription Shelterwood: Remove all species except for the following: Hemlock, Cedar, White pine, Yellow birch. Green tree any bear clawed beech if present.
Specs:

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

Acceptable Any species currently on site.
Regen:

Other
Comment:

Site Condition

Proposed Start Date: 10/1 /2021

46	41180046-Cut	7.6	3102 - Grass	Nonstocked			Harvest	Clearcut	310 - Herbaceous Openland		No
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Prescription Clearcut: Remove all species except juneberry, apple, crabapple, oak.
Specs:

Next Step NonForestMgt, Herbaceous/Crop/Grass Planting
Treatments:

Acceptable Juneberry, apple, crabapple oak.
Regen:

Other
Comment:

Site Condition

Proposed Start Date: 10/1 /2021

53	41180053-Cut	18.5	4110 - Sugar Maple Association	Poletimber Well	91	111-140	Harvest	Single Tree Selection	411 - Northern Hardwood	Uneven-Aged	No
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Prescription Single Tree Selection Harvest: Mark stand following the complete marker guidelines. Residual Basal area should be on average between 70 - 90. Mark canopy gaps 50ft in diameter, numbering about 1 gap/ 2 acres. Focus gaps around Black cherry when present. No cut hemlock or bear clawed beech.
Specs:

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

Acceptable Northern Hardwood species.
Regen:

Other
Comment:

Site Condition

Proposed Start Date: 10/1 /2021



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Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
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55	41180055-NF	4.3	3102 - Grass	Nonstocked		NonForestMgt	Herbaceous/Crop /Grass Planting	310 - Herbaceous Openland		No
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Prescription Opening Enhancement. Prescribed fire, farming (dozing, disking, raking, seeding (native or naturalized species only), fertilizing and liming).
Specs: Brushhog/saw removal of competing trees and establishment of native hard mast producers such as oak, crabapple or others.

Next Step
Treatments:

Acceptable
Regen:

Other
Comment:

Site Condition

Proposed Start Date: 10/1 /2021

59	41180059-Cut	1.0	3102 - Grass	Nonstocked		Harvest	Clearcut	310 - Herbaceous Openland		No
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Prescription Clearcut: Remove all speices except juneberry, apple, crabapple, oak.
Specs:

Next Step NonForestMgt, Herbaceous/Crop/Grass Planting
Treatments:

Acceptable juneberry, apple, crabapple, oak
Regen:

Other
Comment:

Site Condition

Proposed Start Date: 10/1 /2021

61	41180061-NF	7.7	3102 - Grass	Nonstocked		NonForestMgt	Herbaceous/Crop /Grass Planting	310 - Herbaceous Openland		No
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Prescription Opening Enhancement. Prescribed fire, farming (dozing, disking, raking, seeding (native or naturalized species only), fertilizing and liming).
Specs: Brushhog/saw removal of competing trees and establishment of native hard mast producers such as oak, crabapple or others.

Next Step
Treatments:

Acceptable
Regen:

Other
Comment:

Site Condition

Proposed Start Date: 10/1 /2021



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Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
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63	41180063-Cut	163.9	4110 - Sugar Maple Association	Sawtimber Well	90	111-140	Harvest	Single Tree Selection	411 - Northern Hardwood	Uneven-Aged	No
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Prescription Single Tree Selection Harvest: Mark stand following the complete marker guidelines. Residual Basal area should be on average between
Specs: 70 - 90. Mark canopy gaps 50ft in diameter, numbering about 1 gap/ 2 acres. Focus gaps around Black cherry and yellow birch when present. No cut hemlock or bear clawed beech. No decking trees in adjacent stands 55 and 61

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

Acceptable Northern Hardwood species.
Regen:

Other
Comment:

Site Condition

Proposed Start Date: 10/1 /2021

74	41180074-Cut	8.0	42340 - Upland Spruce/Fir	Poletimber Well	88	81-110	Harvest	Clearcut with Retention	429 - Mixed Upland Conifers	Even-Aged	No
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Prescription Clearcut with retention: Remove all species within stand, retention should be left in pocket.
Specs:

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

Acceptable Any species currently on site.
Regen:

Other
Comment:

Site Condition

Proposed Start Date: 10/1 /2021

Total Treatment 468.2
Acreage Proposed:

Report 4 – Site Conditions

Shingleton Mgt. Unit
Scott Kentner : Examiner

Compartment: 180
Year of Entry: 2022

Availability for Management

Total Acres	Acres Available	Acres Avail		Dominant Site Conditions	Dominant Site Conditions			
		With Condition	Not Available		5C	3H	3J	3L
138	138	0	0	Aspen				
29	29	0	0	Bog			0	
164	24	0	140	Cedar		122	18	
52	52	0	0	Herbaceous Openland				
79	41	0	38	Lowland Conifers		14	9	15
37	37	0	0	Lowland Deciduous				
147	112	26	9	Lowland Mixed Forest	26		9	
73	68	0	5	Lowland Shrub			5	
6	6	0	0	Lowland Spruce/Fir				
34	0	27	7	Mixed Upland Deciduous	27		7	
957	957	0	0	Northern Hardwood			0	
11	11	0	0	Paper Birch				
8	8	0	0	Treed Bog				
39	39	0	0	Upland Spruce/Fir				
18	18	0	0	Water				
1,791	1,541	53	198	Total Forested Acres	53	136	47	15
	86%	3%	11%	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 Availability	Dominant Site Condition	Acres	Other Site Condition	Other Site Condition	Other Site Condition	Other Site Condition
1	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	7	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
2	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	18	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

Shingleton Mgt. Unit
 Scott Kentner: Examiner

Compartment: 180
 Year of Entry: 2022

3	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	13	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
4	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	13	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
5	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	7	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
6	Unavailable	3H: Deer Wintering Area - habitat is incompatible with harvest at this time	114	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
7	Unavailable	3H: Deer Wintering Area - habitat is incompatible with harvest at this time	23	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Obligate deer yard on purchased lands.							
8	Unavailable	3L: Other wildlife concerns	15	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Cedar dominate stand within a deer yard.							

Report 4 – Site Conditions

Shingleton Mgt. Unit
 Scott Kentner : Examiner

Compartment: 180
 Year of Entry: 2022

9	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	10	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
10	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	6	Unspecified	Unspecified	Unspecified	Unspecified
Comments: General location of small creek buffer.							
11	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	27	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

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



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
SCA	Cold Water Lake	A coldwater lake has temperature and dissolved oxygen conditions that allow naturally-reproduced or stocked trout populations and those of other coldwater fish species to persist from year to year. Suitable conditions for coldwater fishes may occur in Michigan lakes if they are relatively deep, have substantial groundwater inflows, or are located in colder (northern) areas of the state. Such lakes are established by Director's action and designated as trout resources by Fisheries Order 200.
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.
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.



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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1	4110 - Sugar Maple Association	Sawtimber Well	5.1	91	81-110	N/A	
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Sugar Maple	84	Log	10	91	Sugar Maple	Low	Variable	Sapling
Red Maple	2	Pole/Log	8		Balsam Fir	Low	Variable	Sapling
Yellow Birch	2	Pole/Log	8					
Basswood	6	Log	12					
White Ash	2	Pole	8					
Beech	2	Log/Pole	10					
Paper Birch	2	Log/Pole	10					

2	4130 - Aspen	Poletimber Well	19.7	45	51-80	N/A	look at gems plan
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Sugar Maple	5	Pole	7		Balsam Fir	Low	5 - 10 feet	Sapling
Quaking Aspen	68	Pole	8	45	Serviceberry (Juneberry)	Low	5 - 10 feet	Sapling
Bigtooth Aspen	22	Pole	7					
Balsam Fir	5	Pole	7					

3	6220 - Alder/willow	Nonstocked	1.9			No	
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4	6122 - Black Spruce	Poletimber Well	6.1	75	51-80	N/A	
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Canopy Species	% Cover	Size Class	DBH	Age
American Elm	4	Pole	6	
Red Maple	6	Pole	6	
Yellow Birch	2	Pole	7	
Balsam Fir	12	Pole	8	
Black Spruce	55	Pole	7	75
Northern White Cedar	14	Pole	8	
White Pine	2	Log	12	
Black Ash	5	Pole	6	

5	4110 - Sugar Maple Association	Sawtimber Well	7.5	91	81-110	N/A	
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Sugar Maple	94	Log	10	91	Sugar Maple	Low	5 - 10 feet	Sapling
Basswood	2	Log	10		Balsam Fir	Low	5 - 10 feet	Sapling
Black Cherry	2	Pole	8		Ironwood	Low	5 - 10 feet	Sapling
Ironwood	2	Pole/Sapling	6					



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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6	4130 - Aspen	Poletimber Well	11.8	35	1-50	N/A			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Quaking Aspen		90	Pole	6	35	Red Maple	Low	5 - 10 feet	Sapling
Bigtooth Aspen		5	Pole	6		Balsam Fir	Low	Variable	Sapling
Balsam Fir		3	Pole	6		Black Cherry	Low	5 - 10 feet	Sapling
Black Cherry		2	Pole	6		Ironwood	Low	Variable	Sapling

7	3105 - Mixed Upland Herbaceous	Nonstocked	1.3			Managed Opening	
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8	4119 - Mixed Northern Hardwoods	Sawtimber Well	75.9	91	81-110	N/A	A nice hardwood stand with a lot of diversity.		
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Sugar Maple		55	Log/Pole	10	91	Sugar Maple	Low	< 5 feet	Sapling
Yellow Birch		10	Pole/Log	9		Beech	Medium	Variable	Sapling
Beech		10	Log/Pole	11		Balsam Fir	Low	< 5 feet	Sapling
Quaking Aspen		5	Log/Pole	10					
Red Pine		10	Log/Pole	10					
Hemlock		4	Log	12					
Black Cherry		6	Log/Pole	10					

9	6224 - Treed Bog	Nonstocked	1.2			No	
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10	6225 - Bog	Nonstocked	2.5			No	
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11	4130 - Aspen	Poletimber Well	21.0	45	51-80	N/A			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple		2	Pole	7		Red Maple	Low	5 - 10 feet	Sapling
Paper Birch		3	Pole	7		Balsam Fir	Low	Variable	Sapling
Quaking Aspen		80	Pole	9	45	Black Cherry	Low	5 - 10 feet	Sapling
Bigtooth Aspen		9	Pole	9					
Balsam Fir		2	Pole	6					
White Spruce		2	Pole	6					
Black Cherry		2	Pole	7					



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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12 6139 - Mixed Lowland Forest Poletimber Well 41.6 57 1-50 N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
American Elm	4	Pole	6		White Spruce	Low	< 5 feet	Sapling
Red Maple	20	Pole/Sapling	5	57	Northern White Cedar	Low	Variable	Sapling
Yellow Birch	15	Pole/Sapling	6		Hemlock	Low	< 5 feet	Sapling
Paper Birch	5	Pole	8		Black Ash	Low	Variable	Sapling
Balsam Fir	15	Pole	8					
White Spruce	6	Pole	8					
Northern White Cedar	15	Log/Pole	10					
White Pine	5	Log/Pole	12					
Hemlock	10	Log/Pole	10					
Black Ash	5	Pole	8					

13 6117 - Lowland Deciduous, Mixed Coniferous Poletimber Well 21.0 67 81-110 N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
American Elm	2	Pole	5		Red Maple	Medium	5 - 10 feet	Sapling
Red Maple	40	Pole/Log	8	67	Beech	Low	< 5 feet	Sapling
Yellow Birch	10	Pole	8		Balsam Fir	Low	< 5 feet	Sapling
Beech	3	Pole	8					
Paper Birch	12	Pole	6					
Balsam Fir	8	Pole	5					
Black Spruce	2	Pole	6					
Northern White Cedar	5	Pole	7					
Hemlock	8	Pole	8					
Black Ash	10	Pole/Sapling	7					

14 621 - Floating Aquatic Nonstocked 2.8 No



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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16 6117 - Lowland Deciduous, Mixed Coniferous Sapling Medium 5.4 36 1-50 N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
American Elm	11	Sapling	2		Red Maple	Low	Variable	Sapling
Red Maple	23	Sapling	1	36	Northern White Cedar	Low	5 - 10 feet	Sapling
Paper Birch	6	Sapling	1		Tag Alder	High	Variable	Tall Shrub
Quaking Aspen	11	Sapling	1					
Balsam Poplar	10	Sapling	1					
Balsam Fir	13	Sapling	2					
Black Spruce	4	Sapling	1					
White Pine	5	Sapling	2					
Hemlock	2	Pole/Sapling	6					
Black Ash	15	Sapling	2					

17 4112 - Maple, Beech, Cherry Association Sawtimber Well 34.0 91 81-110 N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Sugar Maple	70	Log	12	91	Sugar Maple	Medium	< 5 feet	Sapling
Red Maple	12	Log/Pole	12		Beech	Low	< 5 feet	Sapling
Yellow Birch	2	Log/Pole	10		Balsam Fir	Low	< 5 feet	Sapling
Beech	2	Log/Pole	10					
Paper Birch	2	Pole	7					
Balsam Fir	4	Pole	9					
White Spruce	4	Log/Pole	10					
Black Cherry	4	Pole	8					

18 6128 - Lowland Coniferous, Mixed Deciduous Sapling Well 14.8 69 1-50 N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	10	Sapling	1		Tag Alder	High	5 - 10 feet	Tall Shrub
Paper Birch	5	Sapling	1					
Balsam Fir	20	Sapling	2					
Black Spruce	10	Sapling	2					
Northern White Cedar	40	Pole/Sapling	5	69				
Black Ash	10	Sapling	1					
White Pine	5	Log	14					

19 500 - Water Nonstocked 3.6 No



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																												
20	6120 - Lowland Cedar	Poletimber Well	21.5	100	51-80	N/A																																																													
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26	6224 - Treed Bog	Nonstocked	6.4			No																																																													



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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27 4119 - Mixed Northern Hardwoods Sawtimber Well 76.7 91 81-110 N/A Vary nice stand, looks good.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Sugar Maple	65	Log	14	91	Sugar Maple	Low	Variable	Sapling
Red Maple	10	Log	12		Hemlock	Low	Variable	Sapling
Yellow Birch	5	Log	12					
Basswood	3	Log	12					
Beech	2	Log	12					
Paper Birch	5	Log	10					
White Spruce	3	Log	12					
Hemlock	5	Log	12					
Black Cherry	2	Log	12					

28 6131 - Hemlock, White Pine, Maple, Birch Sawtimber Well 17.9 85 141-170 N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Sugar Maple	10	Log/Pole	10		Beech	Low	5 - 10 feet	Sapling
Red Maple	35	Log/Pole	10	85	Black Spruce	Low	5 - 10 feet	Sapling
Yellow Birch	3	Log	10		Hemlock	Medium	5 - 10 feet	Sapling
Paper Birch	5	Log	10					
Balsam Fir	10	Pole/Log	9					
Black Spruce	5	Pole	8	85				
Northern White Cedar	10	Pole	8					
Hemlock	20	Log	12					
Black Cherry	2	Log/Pole	10					

29 4110 - Sugar Maple Association Sawtimber Well 37.2 91 111-140 N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Sugar Maple	86	Log	14	91	Sugar Maple	Low	5 - 10 feet	Sapling
Red Maple	2	Log	12		White Spruce	Low	5 - 10 feet	Sapling
Paper Birch	2	Pole/Log	8		Black Cherry	Low	5 - 10 feet	Sapling
Bigtooth Aspen	2	Pole	8					
White Spruce	4	Log	10					
Black Cherry	4	Log/Pole	10					



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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30 4130 - Aspen Poletimber Well 60.0 45 51-80 N/A Good looking stand starting to develop good understory.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Sugar Maple	2	Pole	8		Sugar Maple	Medium	5 - 10 feet	Sapling
Paper Birch	2	Pole	7		Balsam Fir	Low	Variable	Sapling
Quaking Aspen	70	Pole	7	45	Black Cherry	Low	Variable	Sapling
Bigtooth Aspen	12	Pole	8					
Balsam Fir	2	Pole	6					
Black Cherry	2	Pole	8					
Ironwood	10	Sapling/Pole	4					

31 6120 - Lowland Cedar Sapling Well 1.9 69 51-80 N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Northern White Cedar	60	Sapling/Pole	4	69	Black Spruce	Low	5 - 10 feet	Sapling
Black Spruce	20	Sapling/Pole	4					
Balsam Fir	10	Sapling/Pole	4					
Quaking Aspen	10	Sapling/Pole	4					

32 42340 - Upland Spruce/Fir Poletimber Well 17.2 45 51-80 N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	11	Pole	6		Balsam Fir	Low	5 - 10 feet	Sapling
Quaking Aspen	19	Pole	7		Willow spp.	Low	5 - 10 feet	Tall Shrub
Balsam Fir	20	Pole	7					
White Spruce	40	Pole	6	45				
Paper Birch	10	Pole	8					

33 6225 - Bog Nonstocked 1.6 No

34 6132 - Mixed Lowland Forest with Cedar Sawtimber Well 45.5 71 51-80 N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
American Elm	5	Pole	5		Sugar Maple	Low	Variable	Sapling
Red Maple	22	Log	10	71	Balsam Fir	Low	Variable	Sapling
Yellow Birch	20	Pole	8		Hemlock	Low	Variable	Sapling
Paper Birch	8	Log	13					
Balsam Fir	15	Pole	6					
Black Spruce	5	Pole	7					
Northern White Cedar	20	Pole	7					
White Pine	5	Log	10					



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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35 4119 - Mixed Northern Hardwoods Sawtimber Well 61.7 91 51-80 N/A Partridge Hardwoods 410301201TCR: 8/27/15Parts of this stand were clearcut (aspen)

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Sugar Maple	60	Log/Pole	10	91	Ironwood	Low	5 - 10 feet	Sapling
Red Maple	5	Pole/Log	8					
Paper Birch	5	Log/Pole	10					
Quaking Aspen	15	Log/Pole	12					
Balsam Fir	5	Pole/Log	9					
White Spruce	5	Log/Pole	10					
Black Cherry	5	Pole/Log	8					

36 3102 - Grass Nonstocked 2.3 Managed Opening

37 4112 - Maple, Beech, Cherry Association Sawtimber Well 12.9 92 51-80 N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Sugar Maple	51	Log/Pole	12	92	Sugar Maple	Low	< 5 feet	Sapling
Red Maple	23	Log/Pole	10		Balsam Fir	Low	< 5 feet	Sapling
Yellow Birch	6	Log	12		Hemlock	Low	< 5 feet	Sapling
Beech	8	Log	12		Ironwood	Low	5 - 10 feet	Sapling
White Pine	2	XLog	24					
Black Cherry	10	Log/Pole	14					

38 6139 - Mixed Lowland Forest Poletimber Well 16.8 84 51-80 N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
American Elm	5	Pole	6		Red Maple	Low	Variable	Sapling
Red Maple	25	Pole/Log	9	84	Balsam Fir	Low	Variable	Sapling
Yellow Birch	10	Pole/Log	8		Northern White Cedar	Low	Variable	Sapling
Balsam Fir	10	Pole/Log	8		Hemlock	Low	Variable	Sapling
Black Spruce	10	Pole	6		Tag Alder	Low	5 - 10 feet	Tall Shrub
Northern White Cedar	15	Log/Pole	10					
Tamarack	5	Pole	6					
Hemlock	15	Log/Pole	10					
Black Ash	5	Pole	8					

39 6220 - Alder/willow Nonstocked 11.9 Managed Opening



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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40 4130 - Aspen Poletimber Well 5.4 36 51-80 N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Quaking Aspen	80	Pole	7	36	Sugar Maple	Low	5 - 10 feet	Sapling
Bigtooth Aspen	10	Pole/Sapling	6		American Elm	Low	5 - 10 feet	Sapling
Balsam Fir	10	Pole/Sapling	7		Balsam Fir	Low	5 - 10 feet	Sapling
					Ironwood	Low	5 - 10 feet	Sapling

41 42340 - Upland Spruce/Fir Poletimber Well 14.1 88 81-110 N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
White Spruce	50	Pole	8	88	Red Maple	Low	10 - 20 feet	Sapling
Quaking Aspen	20	Log/XLog	16		Balsam Fir	Medium	5 - 10 feet	Sapling
Balsam Fir	15	Pole	7					
Black Ash	5	Pole/Sapling	5					
Red Maple	10	Pole	8					

42 6120 - Lowland Cedar Sawtimber Well 18.1 124 51-80 N/A

Canopy Species	% Cover	Size Class	DBH	Age
Sugar Maple	2	Pole	8	
Yellow Birch	2	Pole	8	
Balsam Fir	3	Pole	8	
Black Spruce	3	Pole	8	
Northern White Cedar	90	Log	10	124

43 3102 - Grass Nonstocked 28.0 Managed Opening Stand was planted with 180 Red Oak saplings around perimeter in spring of 2016 according to ftp W41-1500.

44 4110 - Sugar Maple Association Poletimber Well 1.8 71 51-80 N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Sugar Maple	70	Pole/Log	8	71	Ironwood	Full	>20 feet	Pole
Quaking Aspen	10	Pole/Log	8					
Balsam Fir	10	Log/Pole	10					
Black Cherry	10	Pole/Log	8					



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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45 4119 - Mixed Northern Hardwoods Sawtimber Well 69.8 91 111-140 N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Sugar Maple	35	Log/Pole	10	91	Yellow Birch	Low	5 - 10 feet	Sapling
Red Maple	20	Log/Pole	10		Balsam Fir	Low	5 - 10 feet	Sapling
Yellow Birch	5	Log/Pole	10		Hemlock	Low	5 - 10 feet	Sapling
Beech	5	Log/Pole	10					
White Spruce	10	Pole/Log	8					
White Pine	5	XLog	18					
Hemlock	10	Log/Pole	12					
Northern White Cedar	10	Pole/Log	8					

46 3102 - Grass Nonstocked 7.6 No

48 4130 - Aspen Poletimber Well 5.3 44 51-80 N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Quaking Aspen	88	Pole	7	44	Red Maple	Medium	10 - 20 feet	Sapling
Bigtooth Aspen	8	Pole	8		Black Cherry	Low	10 - 20 feet	Sapling
Balsam Fir	4	Pole	6					

49 4112 - Maple, Beech, Cherry Association Sawtimber Well 81.2 92 51-80 N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Sugar Maple	45	Log	12	92	Sugar Maple	High	Variable	Sapling
Red Maple	25	Log	13		Red Maple	Medium	Variable	Sapling
Yellow Birch	10	Log	10		Yellow Birch	Low	Variable	Sapling
Hemlock	5	Log	12		Balsam Fir	Medium	Variable	Sapling
Black Cherry	15	Log	10		Hemlock	Low	Variable	Sapling
					Beech	Low	< 5 feet	Sapling

50 6128 - Lowland Coniferous, Mixed Deciduous Sawtimber Well 14.1 102 111-140 N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	17	Pole	8		American Elm	Low	Variable	Sapling
Yellow Birch	11	Log	10		White Spruce	Low	Variable	Sapling
Balsam Fir	10	Pole	7		White Pine	Low	Variable	Sapling
Black Spruce	14	Pole	8					
Northern White Cedar	30	Log/Pole	13	102				
Hemlock	18	Log/XLog	16					



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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51	4110 - Sugar Maple Association	Sawtimber Well	272.8	91	81-110	N/A	Cut 10/2013
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
Sugar Maple		72	Log	12	91	Sugar Maple	
Red Maple		3	Pole/Log	9		Balsam Fir	
Yellow Birch		3	Log/Pole	10		Ironwood	
Basswood		6	Log/Pole	10			
Beech		3	Log	12			
Paper Birch		3	Pole/Log	9			
Quaking Aspen		3	Pole/Log	9			
Balsam Fir		3	Pole	8			
Black Cherry		4	Pole/Log	8			
						Density	
						Avg. Height	
						Size	

52	6225 - Bog	Nonstocked	21.1			No	
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53	4110 - Sugar Maple Association	Poletimber Well	18.5	91	111-140	N/A	
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
Sugar Maple		55	Pole/Log	9	91	Sugar Maple	
Red Maple		5	Pole/Log	9		Yellow Birch	
White Spruce		5	Log	10		Beech	
Hemlock		5	Log	11			
Black Cherry		30	Pole/Log	9			
						Density	
						Avg. Height	
						Size	

54	6119 - Mixed Lowland Deciduous Forest	Sapling Well	10.4	7	Immature	N/A	cut 10/2013
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
Red Maple		50	Sapling	2	7	Balsam Fir	
Quaking Aspen		35	Sapling	2		White Spruce	
Balsam Fir		5	Sapling	3			
Black Cherry		10	Sapling	2			
						Density	
						Avg. Height	
						Size	

55	3102 - Grass	Nonstocked	4.3			Managed Opening	
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57	6128 - Lowland Coniferous, Mixed Deciduous	Poletimber Well	2.9	75	51-80	N/A	
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
Red Maple		20	Pole	5		Red Maple	
Paper Birch		10	Pole	7		Tag Alder	
Balsam Fir		20	Pole	6		Balsam Fir	
Black Spruce		10	Pole	6			
Northern White Cedar		40	Pole	6	75		
						Density	
						Avg. Height	
						Size	



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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58 6220 - Alder/willow Nonstocked 6.3 No

59 3102 - Grass Nonstocked 1.0 Managed Opening

60 6139 - Mixed Lowland Forest Sapling Well 18.4 36 81-110 N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Sugar Maple	10	Sapling	2		Black Ash	Medium	Variable	Sapling
Red Maple	15	Sapling/Pole	4	36	Tag Alder	Medium	5 - 10 feet	Tall Shrub
Paper Birch	10	Sapling	2					
Balsam Fir	25	Pole/Sapling	5	36				
Black Spruce	20	Sapling/Pole	4					
Northern White Cedar	5	Sapling	2					
White Pine	5	Sapling	2					
Black Cherry	10	Sapling	2					

61 3102 - Grass Nonstocked 7.7 Managed Opening

62 6124 - Lowland Spruce-Fir Poletimber Medium 32.2 75 1-50 N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Yellow Birch	5	Pole	6		Yellow Birch	Low	Variable	Sapling
Balsam Fir	20	Log/Pole	10		Black Ash	Low	Variable	Sapling
White Spruce	5	Log/Pole	12		Tag Alder	Full	5 - 10 feet	Tall Shrub
Black Spruce	30	Log/Pole	10	75				
Northern White Cedar	15	Pole	7					
Black Ash	20	Pole	7					
Black Cherry	5	Pole	6					

63 4110 - Sugar Maple Association Sawtimber Well 164.1 90 111-140 N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Sugar Maple	80	Log/XLog	14	90	Sugar Maple	High	Variable	Sapling
Red Maple	5	Log/Pole	12		Yellow Birch	Low	Variable	Sapling
Yellow Birch	2	Log/Pole	12		Beech	Low	Variable	Sapling
Beech	5	Log	10					
Black Cherry	8	Log	10					

64 500 - Water Nonstocked 5.6 No



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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65 4112 - Maple, Beech, Cherry Association Sawtimber Well 26.6 97 51-80 N/A Select cut under TS 41-029-12-01

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Sugar Maple	50	Log	14	97	Sugar Maple	Medium	Variable	Sapling
Red Maple	20	Log	10		Beech	Low	Variable	Sapling
Yellow Birch	5	Log	12		Balsam Fir	Low	Variable	Sapling
Hemlock	5	Log	10		Black Cherry	Low	5 - 10 feet	Sapling
Black Cherry	20	Pole/Log	9					

66 6220 - Alder/willow Nonstocked 15.3 No

67 6120 - Lowland Cedar Sawtimber Well 122.3 124 111-140 N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Balsam Fir	10	Pole	8		American Elm	Low	Variable	Sapling
Black Spruce	15	Log/Pole	10		Red Maple	Low	Variable	Sapling
Northern White Cedar	60	Log	14	124	Yellow Birch	Low	Variable	Sapling
Black Ash	15	Pole	5					

68 4191 - Mixed Upland Deciduous with Conifer Sawtimber Well 33.5 82 81-110 N/A

This stand is a mix of hardwood and lowland conifer. Hardwoods on the west end of this stand were select cut under Ts 41-029-12-01.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Sugar Maple	12	Log/Pole	10		Red Maple	High	Variable	Pole
Red Maple	20	Pole	8	82	Yellow Birch	Low	5 - 10 feet	Sapling
Yellow Birch	10	Log/Pole	10		Beech	Low	Variable	Sapling
Paper Birch	10	Log/Pole	10		Balsam Fir	Low	Variable	Sapling
Balsam Fir	8	Pole	8					
White Spruce	5	Log/Pole	12					
Northern White Cedar	13	Pole	8					
White Pine	5	Log/Pole	12					
Hemlock	3	Log	12					

69 6229 - Mixed lowland shrub Nonstocked 20.9 0 Unspecified 612 - Lowland Coniferous Forest

Cut as part of TS 41-020-12-01 Petrel-Sunrise Contract. This stand was part of stand 41180041 when prescribed and treated; the new stand was created to show the area of stand 41 that was cut with this timber sale. Trees starting to grow back, scattered aspen, maple, and balsam fir.



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																											
70	6130 - Fir, Aspen, Maple	Sawtimber Well	6.6	75	81-110	N/A	This stand was originally part of stand 54 but was left uncut when 54 was harvested.																																											
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71	4130 - Aspen	Sapling Well	2.9	5	Immature	N/A	Partridge Hardwoods 410301201TCR: 8/27/15Parts of this stand were clearcut (aspen)																																											
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74	42340 - Upland Spruce/Fir	Poletimber Well	8.0	88	81-110	N/A																																												
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75	4140 - Other Upland Deciduous	Poletimber Well	11.4	45	51-80	N/A																																												
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