



Compartment Review Presentation

Sault Ste. Marie Forest Management Unit

Compartment 45037

Entry Year 2019

Acreage: 2,361

County Chippewa

Management Area: Kincheloe Highlands

Revision Date: 2017-08-02

Stand Examiner: Josh Brinks

Legal Description:

T45N R1W Section 34; T44N R1W Sections 2,3,10 & 11

Identified Planning Goals:

This compartment with its many roads, red pine plantations, and northern hardwoods, is regularly managed with a variety of treatments each YOY. The goals this round will be to diversify age classes of red pine in the area by final harvesting a couple of stands along with thinning others. A majority of the hardwood in this compartment will also be thinned to increase growth on residual trees, diversify the structure of the stands and promote regeneration of under represented tree species. Two stands of mature aspen will be harvested to promote aspen regeneration and enhance the habitat along the border of the deer yard.

Soil and topography:

Soils are primarily Kalkaska-Rubicon association: Very deep nearly level to very steep, excessively drained, sandy soils on outwash plains and ground moraines. The east part has an area of Markey-Kinross-Croswell: Very deep, nearly level, very poorly drained to moderately well drained, mucky and sandy soils on outwash plains.

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

Although largely a contiguous block of State land, there is some private in holdings on the north, east, and south sides consisting of homes and hunting camps. Dispersed recreation is generally the main land use. Regular management treatments occur here.

Unique Natural Features:

Archeological, Historical, and Cultural Features:

A single archaeological site is located within this compartment. It is a location of an old homestead site which contains a grave site. This area needs to be avoided during any work around the site.

Special Management Designations or Considerations:

Some stands on the south and east sides have been coded for Old Growth. Two stands are maintained as a seed orchard. There is a small area of deer yard in the NE corner.

Watershed and Fisheries Considerations:

This compartment is within the Munuscong River watershed. Because there are no waterbodies within the compartment, however, Fisheries Division has no comments.

Wildlife Habitat Considerations:

This compartment is part of the Kincheloe Highlands Management Area where featured wildlife species include black bear, red crossbill, ruffed grouse. It contains abundant oak and pine which is important habitat to many species including black bear and red crossbill. The oak mast is particularly critical in lieu of the prevalence of beech bark disease and the loss of hard mast as a result of beech mortality. Management which encourages and protects mast producing species such as oak will benefit numerous wildlife species such as white-tail deer, grouse, bear, rodents, and wild turkey.

The eastern portion of the compartment falls within a deer wintering complex. Any treatments to palatable species in deer wintering complex will occur during the winter months (Dec 1 - Mar. 31) to provide browse for wintering deer. Hemlock and cedar will be left, but encouraging regeneration of hemlock is encouraged and will benefit wintering deer.

Northern hardwood management will include reserving large diameter trees and snags for cavity, den, and foraging habitat and future dead and down woody debris.

Mineral Resource and Development Concerns and/or Restrictions

Three active sand/gravel pits are located just outside the compartment, and there is good potential for additional sand and gravel within the compartment. There is no current economic oil and gas production in the UP and there is no known metallic mineral potential in this region.

Vehicle Access:

Roads are abundant here. There is virtually no place in this compartment that cannot be reached within a reasonable distance. Wilson Road is a county road and is maintained for two wheel drive traffic. Other state forest roads are in good shape and few require four wheel drive.

Survey Needs:

None at this time.

Recreational Facilities and Opportunities:

The Wilson Rd. is a snowmobile trail in winter. There are an abundance of ORV trails which are maintained by Grant Sponsors each year. The Pine Bowl Cross Country Ski trail winds in and about through several stands and is maintained by the DNR. Deer, grouse, and rabbit hunting are the other main recreation activities. With unlimited public access, there is potential for other activities as well, such as mushroom picking, bird watching, and Geo-caching.

Fire Protection:

Access is good to most of the compartment. Water sources are limited in this area. Water can be found during portions of the year in the Kinross gravel pit and year round in Dukes Lake. Kinross Township can also provide access to water at their hall and with their hydrants. Structure protection would be of some concern on the north and south boundary.

Additional Compartment Information:

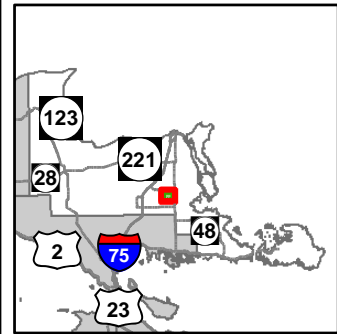
The following reports from the Inventory are attached:

- 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:

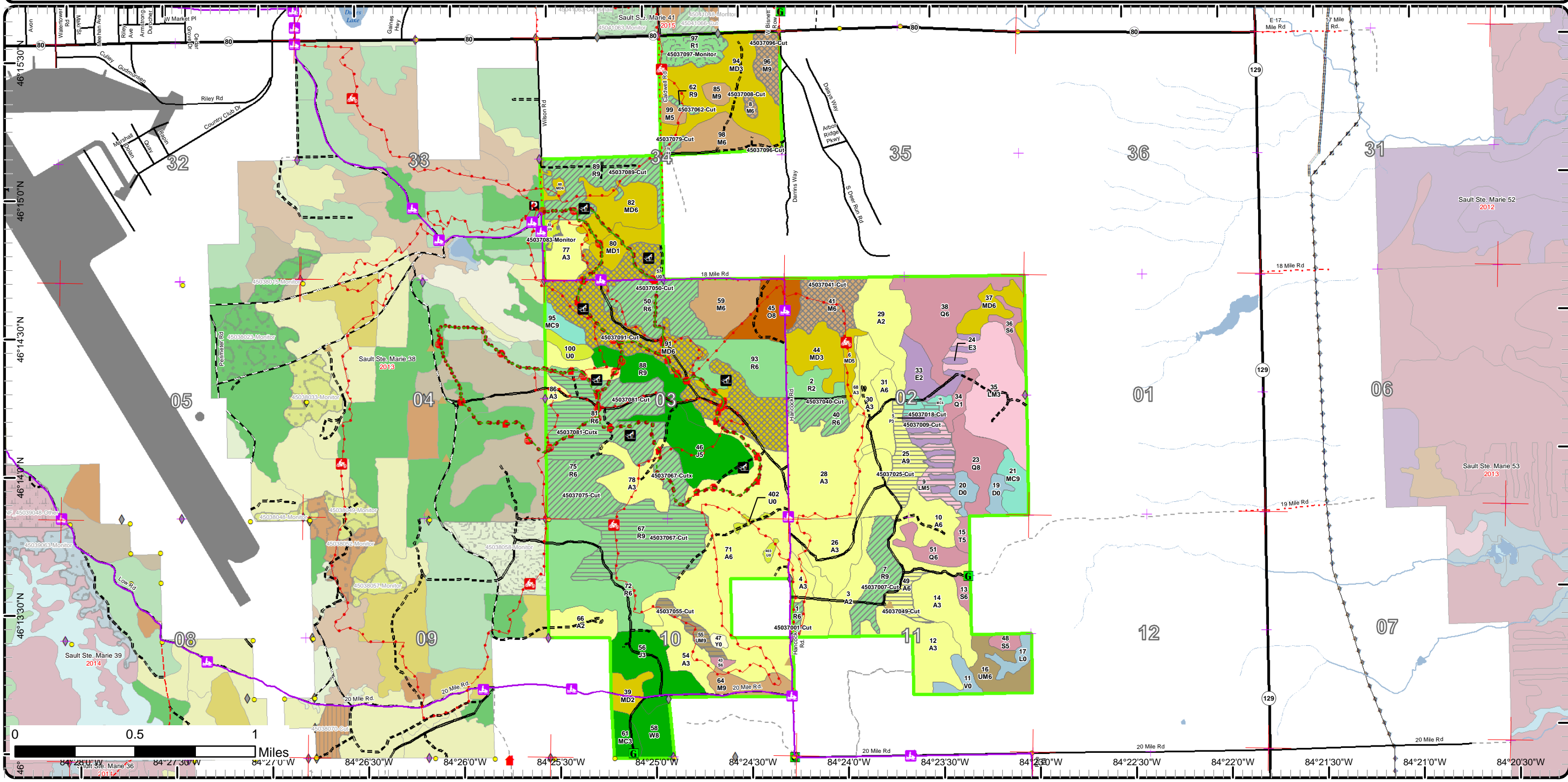
- Base feature information, stand boundaries, cover types, and numbers**
- Proposed treatments**
- Site condition boundaries**
- Details on the road access system**

Cover Type & Treatments Map

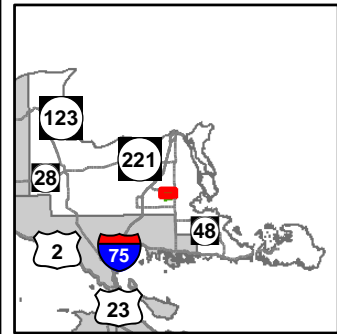


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 T44N, R01W, Sec: 2, 3, 10, 11
 County: Chippewa
 Unit: Sault Ste. Marie
 Mgmt Area: Kincheloe Highlands
 YOE: 2019
 Acres: 2,361 GIS Calculated
 Examiner: Josh Brinks
 Map Revised: 7/30/2018
 Map Phase: Post Review

- Miris Corners
- + Remonumented Section Corners
- Survey Grade Corners
- ◆ Field Grade Corners
- Counties
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- 🟩 Compartment Boundary
- 🔲 Selection (Group, Single Tree)
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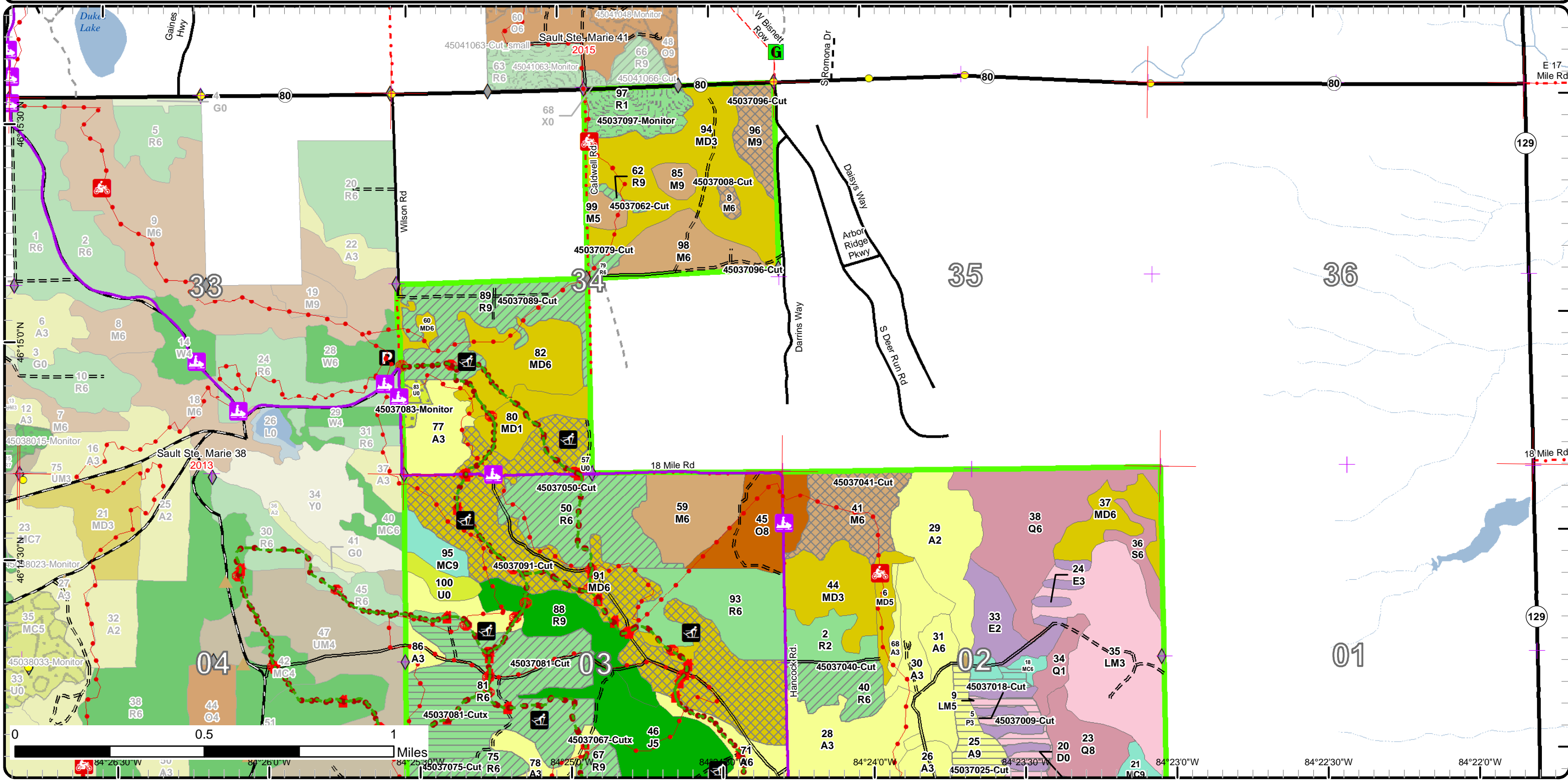


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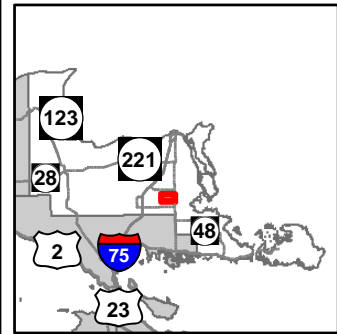


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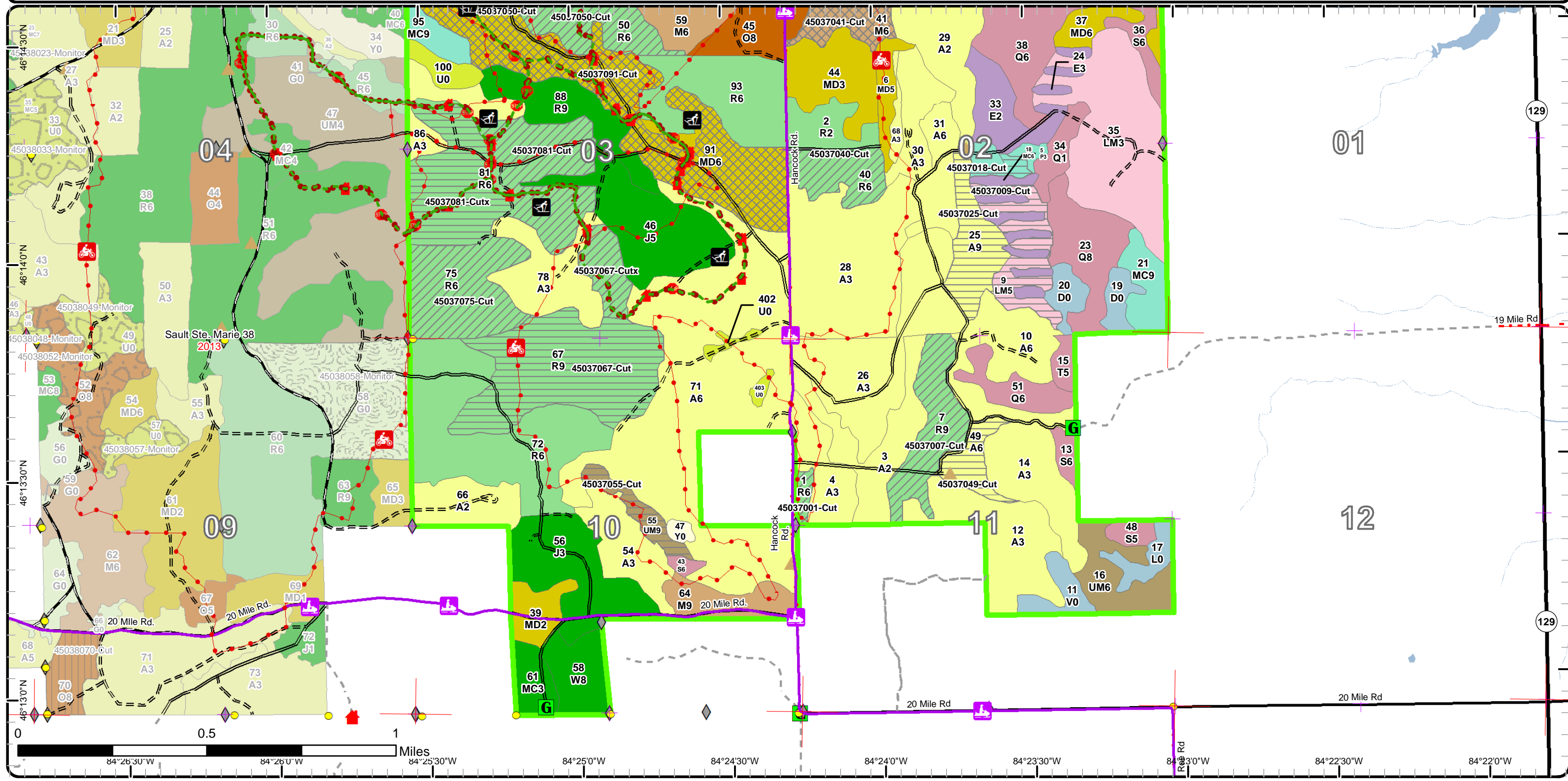


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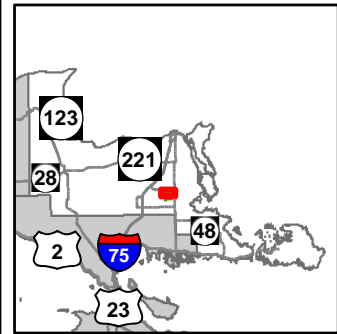
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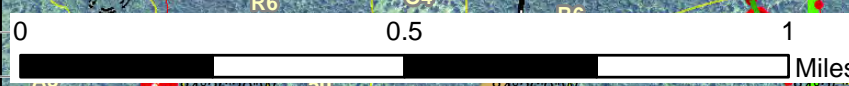
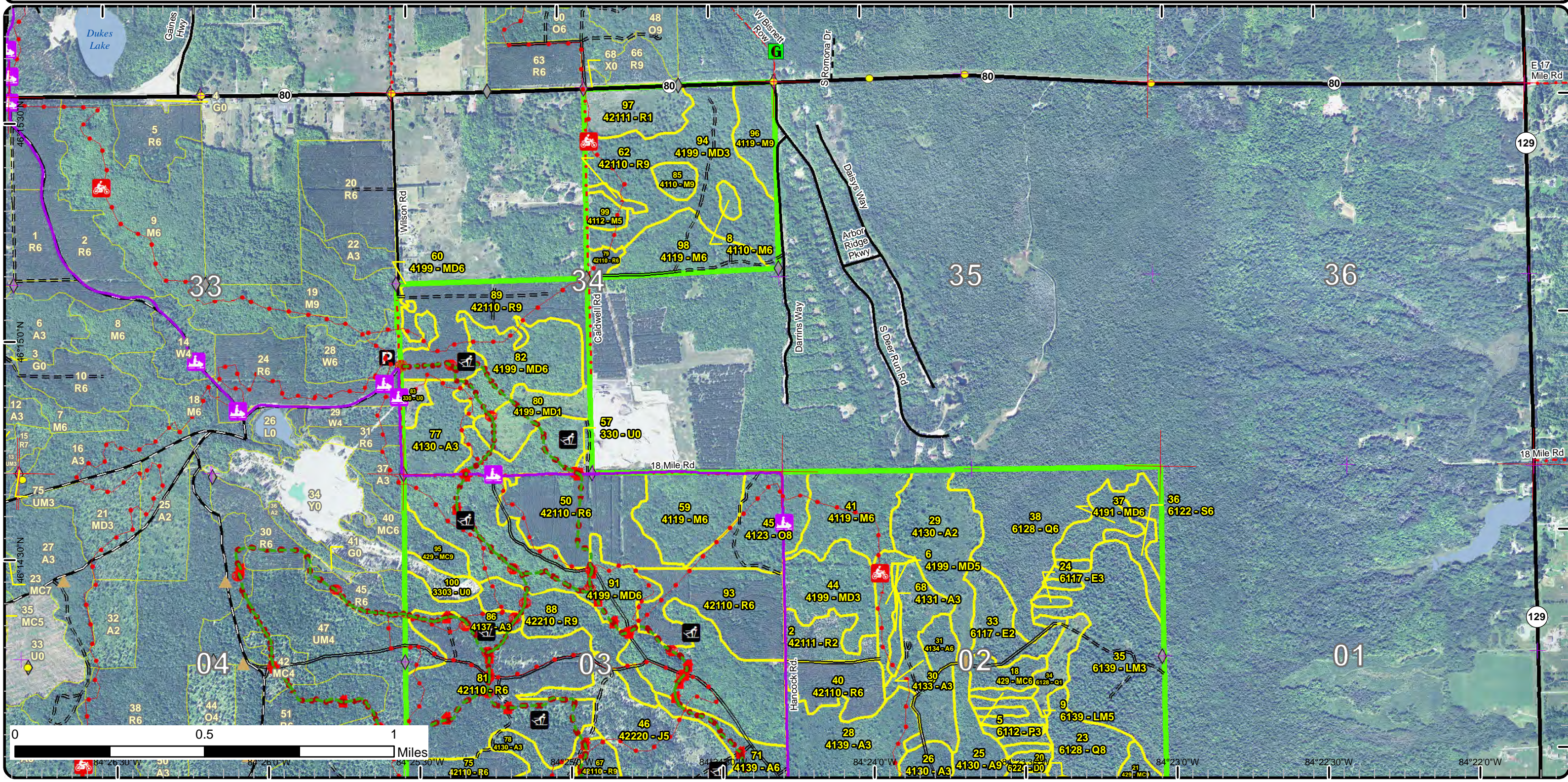


Stand Boundary Map

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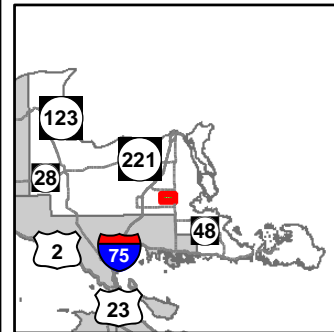


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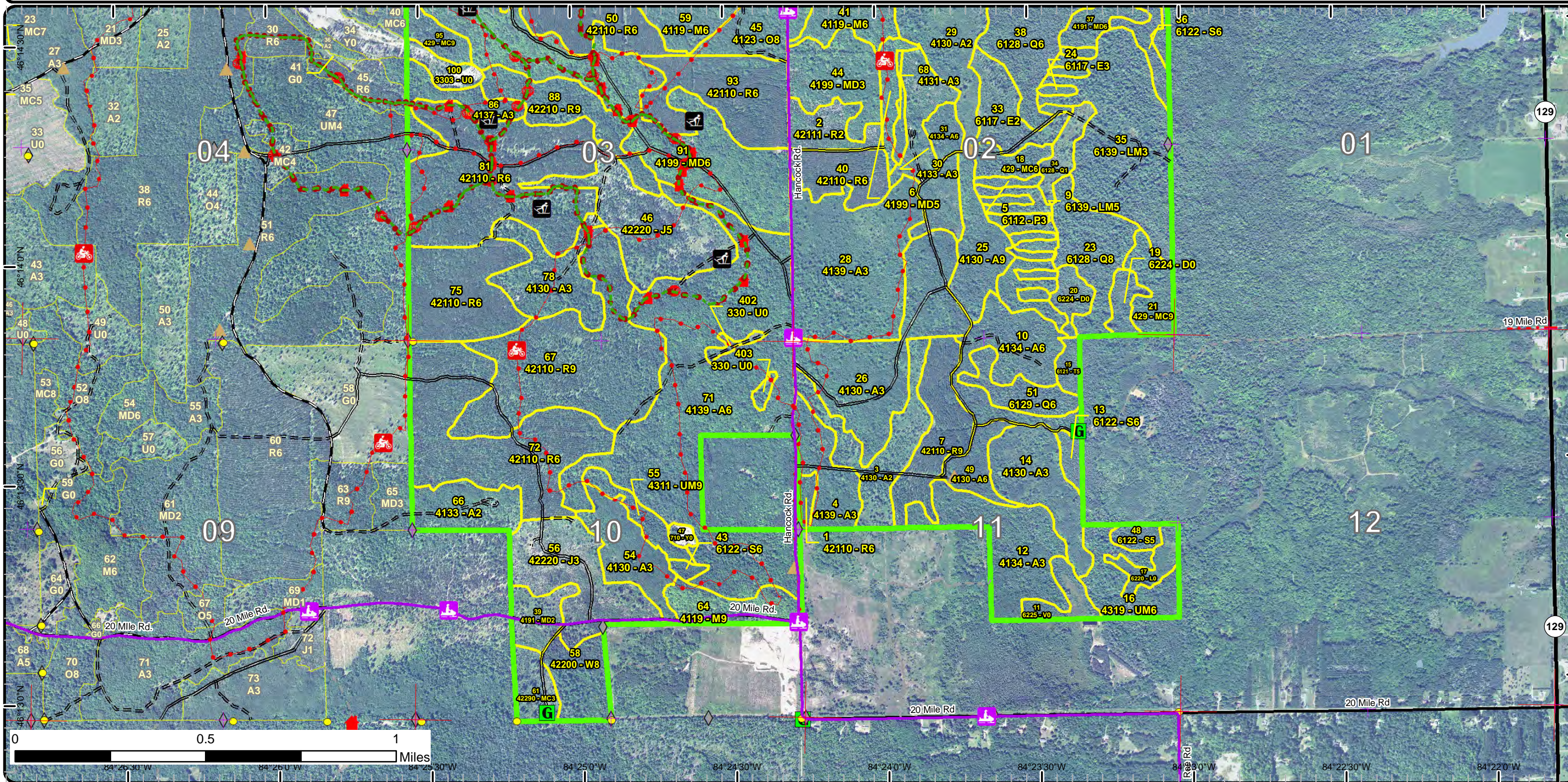
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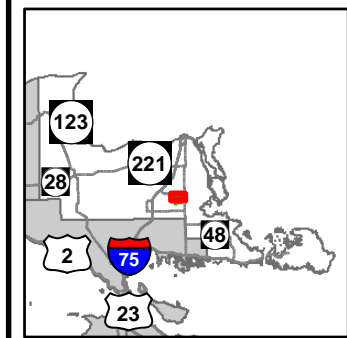
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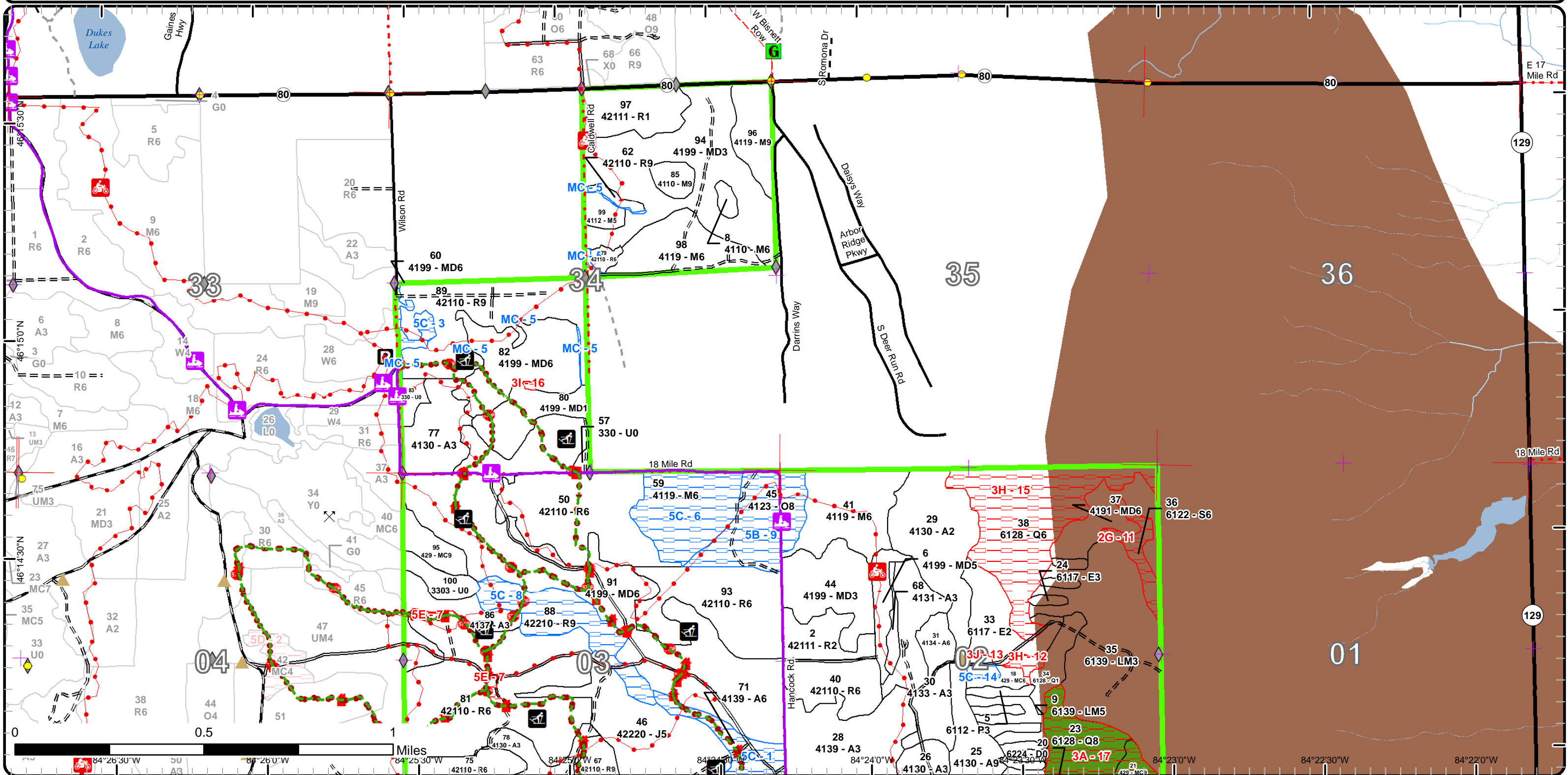


Special Conservation Areas & Site Conditions Map

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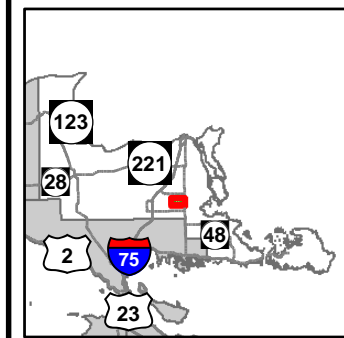


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- Available w/ Constraints
- Unavailable
- 5B: Maintain for regeneration purposes
- 5C: Delay treatment for age/size class diversity or exceptional site quality
- 2G: Too wet (sensitive soils, does not include access issues)
- 3A: Conservation Values incompatible with harvest at this time
- 3I: Historical / archeological (add locked comments)
- 3J: Water quality / BMPs (stream, river, or lake)
- 5E: Long-Term Retention
- Stand Boundaries
- Cold Water Streams
- Cold Water Lakes
- Verified Type 1 Old Growth
- Deer Winter Range
- Sand or Gravel Pit

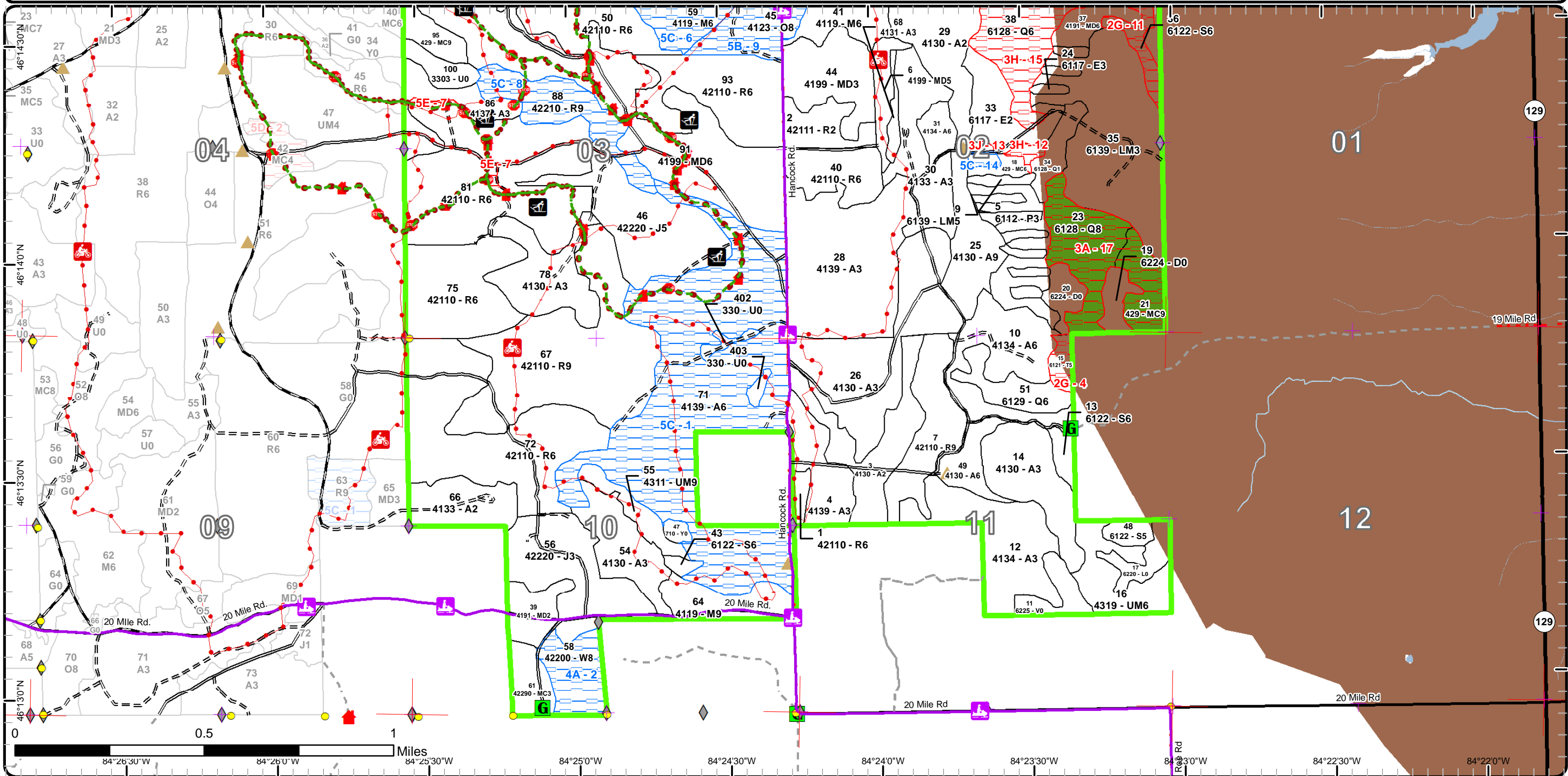


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- Sand or Gravel Pit
- 4A: No Markets Available for these Forest Products
- 5B: Maintain for regeneration purposes
- 5C: Delay treatment for age/size class diversity or exceptional site quality
- 2G: Too wet (sensitive soils, does not include access issues)
- 3A: Conservation Values incompatible with harvest at this time



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	74	190	186	22	220	12	24	0	0	0	0	0	0	0	0	0	0	728
Bog	10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	10
Jack Pine	0	0	45	0	49	0	0	0	0	0	0	0	0	0	0	0	0	0	94
Low-Density Trees	18	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	18
Lowland Aspen/Balsam Poplar	0	0	0	14	0	0	0	0	0	0	0	0	0	0	0	0	0	0	14
Lowland Conifers	0	9	0	0	0	15	0	0	0	0	62	0	30	0	0	0	0	0	116
Lowland Deciduous	0	20	0	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	26
Lowland Mixed Forest	0	0	0	74	0	0	0	0	0	21	0	0	0	0	0	0	0	0	94
Lowland Shrub	9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	9
Lowland Spruce/Fir	0	0	0	0	0	5	2	5	0	9	0	0	0	0	0	0	0	0	21
Mixed Upland Deciduous	0	19	43	75	0	0	52	0	21	0	0	0	0	0	0	0	0	141	350
Natural Mixed Pines	0	0	12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	12
Northern Hardwood	0	0	0	0	0	0	6	27	3	75	0	0	0	0	0	0	0	34	145
Oak	0	0	0	0	0	0	0	0	0	33	0	0	0	0	0	0	0	0	33
Red Pine	0	22	15	0	0	0	438	81	0	0	28	0	0	0	0	0	0	0	584
Sand, Soil	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
Tamarack	0	0	0	0	0	0	5	0	0	0	0	0	0	0	0	0	0	0	5
Treed Bog	15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	15
Upland Conifers	0	0	0	0	0	0	0	0	9	0	10	0	0	15	0	0	0	0	34
Upland Mixed Forest	0	0	0	0	0	0	24	0	10	0	0	0	0	0	0	0	0	0	34
White Pine	0	0	0	0	0	0	0	0	0	0	0	0	20	0	0	0	0	0	20
Total	54	144	305	355	71	240	539	137	43	138	100	0	30	35	0	0	0	175	2364



Report 2 – Treatment Summary

Sault Ste. Marie Mgt. Unit
Year of Entry: 2019

Acres of Harvest

Compartment 37
Total Compartment Acres: 2,361

Commercial Harvest - 653
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	36	0	0	0	0	0	0	0	0	36
Lowland Mixed Forest	21	0	0	0	0	0	0	0	0	21
Mixed Upland Deciduous	0	141	0	0	0	0	0	0	0	141
Northern Hardwood	0	52	0	0	0	0	0	0	0	52
Red Pine	124	0	0	0	0	265	0	0	0	389
Upland Conifers	4	0	0	0	0	0	0	0	0	4
Upland Mixed Forest	10	0	0	0	0	0	0	0	0	10
Total	195	193	0	0	0	265	0	0	0	653

Proposed and Next Step Treatments by Method

	Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current	653	0	0	0	0	0	26	0	0	679
Next Step	0	124	124	0	124	150	637	0	0	1159
Total	653	124	124	0	124	150	663	0	0	1838



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	45037001-Cut	3.5	42110 - Planted Red Pine	Poletimber Well	57	171-200	Harvest	Crown Thinning	4211 - Planted Red Pine	Even-Aged	Draft Field Boundary

Habitat Cut: No**Site Condition:**

Prescription Thin to around 120 Basal Area. Leave species diversity within the stand were present.

Specs:

Next Step

Treatments:

Acceptable

Regen:

Other

Comment:

Proposed Start Date: 10/01/2018

7	45037007-Cut	30.5	42110 - Planted Red Pine	Sawtimber Well	59	141-170	Harvest	Crown Thinning	4211 - Planted Red Pine	Even-Aged	Draft Field Boundary
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Habitat Cut: No**Site Condition:**

Prescription Thin to around 120 Basal Area. Leave species diversity within the stand were present.

Specs:

Next Step

Treatments:

Acceptable

Regen:

Other

Comment:

Proposed Start Date: 10/01/2018

8	45037008-Cut	2.7	4110 - Sugar Maple Association	Poletimber Well	78	111-140	Harvest	Single Tree Selection	411 - Northern Hardwood	Uneven-Aged	Draft Field Boundary
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Habitat Cut: No**Site Condition:**

Prescription Mark stand to 80 to 90 basal area. Promote stand diversity by opening up gaps around healthy yellow birch and oak trees. Remove any dying oak. Thin through the maple trees releasing crop trees. Open up around the drip edges of any hemlock.

Specs:

Next Step Monitoring, Natural Regen (Intermediate)

Treatments:

Acceptable Acceptable regen includes maple, birch, oak, spruce, fir, hemlock and pine.

Regen:

Other

Comment:

Proposed Start Date: 10/01/2018

9	45037009-Cut	20.5	6139 - Mixed Lowland Forest	Poletimber Medium	87	111-140	Harvest	Clearcut with Retention	613 - Lowland Mixed Forest	Even-Aged	Draft Field Boundary
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Habitat Cut: No**Site Condition:**

Prescription Cut all deciduous 2" or more and conifer 4" or more. Do not cut pine, oak, hemlock, yellow birch or cedar. Winter cut (Dec. 1 - Mar. 31) so tops are available as browse for wintering deer.

Specs:

Next Step Monitoring, Natural Regen (Intermediate)

Treatments:

Acceptable Acceptable regeneration includes aspen, birch, maple, spruce, fir, pine, cedar, hemlock and tamarack.

Regen:

Other

Treatment shape may vary with this stand. If the strip transitions into something that is too wet, cedar or white pine cut that portion off.

Comment: Concentrate the cut in areas of aspen, spruce/fir and black spruce that is merchantable. The deer yard polygon just barely touches the eastern edge of this stand.

Proposed Start Date: 10/01/2018



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
18	45037018-Cut	3.7	429 - Mixed Upland Conifers	Poletimber Well	74	111-140	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	Draft Field Boundary

Habitat Cut: No**Site Condition:**

Prescription Cut all deciduous 2" or more and conifer 4" or more. Leave all oak, pine, cedar, hemlock and yellow birch.

Specs:

Next Step Monitoring, Natural Regen (Intermediate)

Treatments:

Acceptable Regen: Acceptable regen includes aspen, birch, maple, spruce, fir, pine, hemlock, cedar.

Other Comment: Treatment shape has been adjusted to show previously cut area, vernal pond and the cedar pocket not being harvested.

Proposed Start Date: 10/01/2018

25	45037025-Cut	23.8	4130 - Aspen	Sawtimber Well	62	111-140	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	Draft Field Boundary
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Habitat Cut: No**Site Condition:**

Prescription Cut all deciduous 2" or more and conifer 4" or more. Leave all oak, pine, cedar, hemlock and yellow birch. Also leave a patch or patches of

Specs: mature timber in order to meet the retention guidelines. Recommend cutting between Dec. 1 -March 31 for deer.

Next Step Monitoring, Natural Regen (Intermediate)

Treatments:

Acceptable Regen: Acceptable regeneration includes aspen, birch, maple, oak, pine, spruce and fir.

Other Comment:

Stand is completely outside of the deer yard layer which is on the east side of the strip cuts.

Other Comment:

Proposed Start Date: 10/01/2018

40	45037040-Cut	20.5	42110 - Planted Red Pine	Poletimber Well	57	141-170	Harvest	Crown Thinning	4211 - Planted Red Pine	Even-Aged	Draft Field Boundary
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Habitat Cut: No**Site Condition:**

Prescription Thin to around 120 Basal Area. Leave species diversity within the stand were present.

Specs:

Next Step

Treatments:

Acceptable Regen:

Other Comment:

Other Comment:

Other Comment:

Proposed Start Date: 10/01/2018

41	45037041-Cut	33.3	4119 - Mixed Northern Hardwoods	Poletimber Well	81	111-140	Harvest	Single Tree Selection	411 - Northern Hardwood	Uneven-Aged	Draft Field Boundary
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Habitat Cut: No**Site Condition:**

Prescription Mark stand to 80 to 90 basal area. Promote stand diversity by opening up gaps around healthy yellow birch and oak trees. Remove any dying

Specs: oak. Thin through the maple trees releasing crop trees. In the southern area with spruce remove the merchantable spruce trees leaving a representative spruce tree.

Next Step Monitoring, Natural Regen (Intermediate)

Treatments:

Acceptable Regen: Acceptable regen includes maple, oak, beech, birch, fir, spruce, aspen, and pine.

Other Comment:

Other Comment: ORV trail in stand. Minimize crossing of trail by loggers and flag in the trail before operations begin.

Other Comment:

Proposed Start Date: 10/01/2018



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
49	45037049-Cut	12.3	4130 - Aspen	Poletimber Well	58	111-140	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	Draft Field Boundary

Habitat Cut: No**Site Condition:**

Prescription Cut all deciduous 2" or more and conifer 4" or more. Leave all oak, pine, cedar, hemlock and yellow birch. Also leave a patch or patches of mature timber in order to meet the retention guidelines. Recommend cutting between Dec. 1 and March 31 for deer.

Next Step Monitoring, Natural Regen (Intermediate)

Acceptable Regen: Acceptable regen includes aspen, birch, spruce, fir, maple, and pine.

Other Comment:

Proposed Start Date: 10/01/2018

50	45037050-Cut	51.2	42110 - Planted Red Pine	Poletimber Well	58	171-200	Harvest	Crown Thinning	4211 - Planted Red Pine	Even-Aged	Field Boundary - Ready for VMS
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Habitat Cut: No**Site Condition:**

Prescription Thin to around 120 Basal Area. Leave species diversity within the stand were present.

Next Step Treatments:

Acceptable Regen:

Other Comment:

Proposed Start Date: 10/01/2017

55	45037055-Cut	10.1	4311 - Pine, Aspen Mix	Sawtimber Well	77	111-140	Harvest	Clearcut with Retention	4319 - Mixed Upland Forest	Even-Aged	Draft Field Boundary
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Habitat Cut: No**Site Condition:**

Prescription Cut all deciduous 2" or more and conifer 4" or more. Leave only the largest of the pine trees (20"+) and all oak.

Next Step Monitoring, Natural Regen (Intermediate)

Acceptable Regen: Acceptable regeneration includes aspen, birch, maple, pine, oak, spruce and fir.

Other Comment: Treatment is only 10 acres so no need for more retention trees or patches. ORV trail in and adjacent to treatment.

Proposed Start Date: 10/01/2018

62	45037062-Cut	2.3	42110 - Planted Red Pine	Sawtimber Well	59	141-170	Harvest	Crown Thinning	4211 - Planted Red Pine	Even-Aged	Field Boundary - Ready for VMS
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Habitat Cut: No**Site Condition:**

Prescription Thin to around 120 Basal Area. Leave species diversity within the stand were present.

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
67	45037067-Cut	78.3	42110 - Planted Red Pine	Sawtimber Well	58	81-110	Harvest	Clearcut with Retention	4211 - Planted Red Pine	Even-Aged	Draft Field Boundary

Habitat Cut: No**Site Condition:**

Prescription Cut all trees down to 2" in DBH. Leave approx. 5 retention trees per acre focusing on oak followed by white pine then red pine. Okay to leave retention within the treatment because release sprays will be done by skidder rather than helicopter.

Next Step Burn, Slash; SitePrep, Trenching; Planting, Initial Plant; Monitoring, Artificial Regen(1yr); Monitoring, Herbicide Use; Monitoring, Artificial Treatments: Regen(3yr); Pesticide, Skidder/Mechanical

Acceptable Regen: Fully stocked red pine with a mix of natural regen including oak, white pine and jack pine.

Other Comment: ORV trail in treatment, cut trees with markers off above the markers or work with PRD to place carsonite signs along the trail and keep trail clear of brush. Minimize crossing by loggers and flag in trails before operations begin.

Proposed Start Date: 10/01/2018

67	45037067-Cutx	13.9	42110 - Planted Red Pine	Sawtimber Well	58	81-110	Harvest	Crown Thinning	4211 - Planted Red Pine	Even-Aged	Draft Field Boundary
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Habitat Cut: No**Site Condition:**

Prescription Thin this stand removing all aspen, birch and jack pine first then thin the red pine as needed to reduce the BA to at least 120. Leave all oak and white pine.

Next Step Treatments:

Acceptable Regen:

Other Comment: Ski trail runs through this portion of the stand. Do not cut trees with trail markers on them. Do not cut in the winter when the trail is being groomed and used often. Contact PRD before operations begin if they want to start cutting during break-up. Minimize crossing of recreation trails by equipment. Flag in the before starting operation .

Proposed Start Date: 10/01/2018

75	45037075-Cut	44.3	42110 - Planted Red Pine	Poletimber Well	58	141-170	Harvest	Systematic Thinning	4211 - Planted Red Pine	Even-Aged	Draft Field Boundary
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Habitat Cut: No**Site Condition:**

Prescription This stand needs its first thinning. We would like them to remove every third row leaving species diversity where feasible but the rows are very hard to follow in this stand. The forester may need to mark rows to be cut or work with the logger during admin to ensure they maintain a proper spacing.

Next Step Treatments:

Acceptable Regen:

Other Comment:

Proposed Start Date: 10/01/2018

79	45037079-Cut	2.6	42110 - Planted Red Pine	Poletimber Well	59	141-170	Harvest	Crown Thinning	4211 - Planted Red Pine	Even-Aged	Field Boundary - Ready for VMS
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Habitat Cut: No**Site Condition:**

Prescription Thin to around 120 Basal Area. Leave species diversity within the stand were present.

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
81	45037081-Cut	44.6	42110 - Planted Red Pine	Poletimber Well	57	111-140	Harvest	Systematic Thinning	4211 - Planted Red Pine	Even-Aged	Draft Field Boundary

Habitat Cut: No**Site Condition:**

Prescription This stand needs its first thinning. We would like them to remove every third row leaving species diversity where feasible but the rows are very hard to follow in this stand. The forester may need to mark rows to be cut or work with the logger during admin to ensure they maintain a proper spacing.

Next Step
Treatments:

Acceptable
Regen:

Other Use ski trail as border of treatment and the two track at the south end of the stand. ORV trail and Ski trail in this treatment try to avoid cutting trees with trail markers on them. Do not cut in the winter when the trail is being groomed and used often. Contact PRD before operations begin if they want to start cutting during break-up. Minimize crossing of recreation trails by equipment. Flag in the before starting operation .

Proposed Start Date: 10/01/2018

81	45037081-Cutx	45.8	42110 - Planted Red Pine	Poletimber Well	57	111-140	Harvest	Clearcut with Retention	4211 - Planted Red Pine	Even-Aged	Draft Field Boundary
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Habitat Cut: No**Site Condition:**

Prescription This stand is being clearcut to break up age classes of red pine in the area. Clearcut stand with no retention within the treatment. Retention areas are identified on the map with a site condition. It is okay to leave a few scattered oak or white pine within the stand because the stand will most likely be sprayed by a skidder rather than a helicopter.

Next Step Burn, Slash; SitePrep, Trenching; Planting, Initial Plant; Monitoring, Artificial Regen(1yr); Monitoring, Herbicide Use; Monitoring, Artificial Regen(3yr); Pesticide, Aerial

Acceptable Fully stocked red pine with scattered naturally regenerated oak, white pine and jack pine.

Other use ski trail and the two track as a border of the treatment. Ski trail and ORV trail are located in this treatment. Work with parks to get carsonite markers to put in post harvest or cut trees off above the markers which ever PRD prefers. Do not cut in the winter when the trail is being groomed and used often. Contact PRD before operations begin if they want to start cutting during break-up. Minimize crossing of recreation trails by equipment. Flag in the before starting operation .

Proposed Start Date: 10/01/2018

83	45037083-Monitor	4.5	330 - Low-Density Trees	Nonstocked		Unspecified	Monitoring	Artificial Regen(3yr)	4211 - Planted Red Pine	Even-Aged	Field Boundary
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Habitat Cut: No**Site Condition:**

Prescription regen check as per the work instructions. Check summer of 2020.

Specs:

Next Step ; ; Pesticide, Aerial; Monitoring, Herbicide Use

Treatments:

Acceptable Fully stocked red pine.

Other Percent to Treat = 100%

Proposed Start Date: 10/01/2019

89	45037089-Cut	51.7	42110 - Planted Red Pine	Sawtimber Well	58	171-200	Harvest	Crown Thinning	4211 - Planted Red Pine	Even-Aged	Field Boundary - Ready for VMS
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Habitat Cut: No**Site Condition:**

Prescription Thin to around 120 Basal Area. Leave species diversity within the stand were present.

Specs:

Next Step
Treatments:

Acceptable
Regen:

Other ORV trail and ski trail in treatment. Do not cut in the winter when the trail is being groomed and used often. Contact PRD before operations begin if they want to start cutting during break-up. Minimize crossing of recreation trails by equipment. Flag in the before starting operation .

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
91 45037091-Cut	137.4	4199 - Other Mixed Upland Deciduous	Poletimber Well	81	111-140	Harvest	Single Tree Selection	411 - Northern Hardwood	Uneven-Aged	Draft Field Boundary

Habitat Cut: No**Site Condition:**

Prescription Mark stand to 80 to 90 basal area. Promote stand diversity by opening up gaps around healthy yellow birch and oak trees. Remove any dying oak. Thin through the maple trees releasing crop trees. Remove all aspen. Leave all white pine within the treatment.

Next Step Monitoring, Natural Regen (Intermediate)
Treatments:

Acceptable Regen: Acceptable regen includes maple, oak, ironwood, aspen, birch, pine, spruce and fir.

Other Comment: ORV trail and ski trail in treatment. Do not cut in the winter when the trail is being groomed and used often. Contact PRD before operations begin if they want to start cutting during break-up. Minimize crossing of recreation trails by equipment. Flag in the before starting operation .

Proposed Start Date: 10/01/2018

96 45037096-Cut	16.2	4119 - Mixed Northern Hardwoods	Sawtimber Well	84	81-110	Harvest	Single Tree Selection	411 - Northern Hardwood	Uneven-Aged	Draft Field Boundary
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Habitat Cut: No**Site Condition:**

Prescription Mark stand to 80 to 90 basal area. Promote stand diversity by opening up gaps around healthy yellow birch and oak trees. Remove any dying oak. Thin through the maple trees releasing crop trees.

Next Step ; Monitoring, Natural Regen (Intermediate)
Treatments:

Acceptable Regen: Acceptable regeneration includes maple, oak, birch, fir, spruce, pine and hemlock.

Other Comment:

Proposed Start Date: 10/01/2018

97 45037097-Monitor	21.6	42111 - Planted Red Pine, Mixed Deciduous	Sapling Poor	6	Immature	Monitoring	Herbicide Use	4211 - Planted Red Pine	Even-Aged	Field Boundary
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Habitat Cut: No**Site Condition:**

Prescription Monitor for release and pests
Specs:

Next Step ; Pesticide, Other - Specify
Treatments:

Acceptable Regen: Fully stocked red pine

Other Comment: Percent to Treat = 100%

Proposed Start Date: 06/15/2017

Total Treatment Acreage Proposed: 675.3

Report 4 – Site Conditions

Sault Ste. Marie Mgt. Unit

Josh Brinks : Examiner

Compartment: 37

Year of Entry: 2019

Availability for Management

Total Acres	Acres Available	Acres Avail		Dominant Site Conditions	Dominant Site Conditions											
		With Condition	Not Available		4A	5B	5C	MC	2G	3A	3H	3I	3J	5E		
727	545	182	0	Aspen			182									
10	10	0	0	Bog												
94	94	0	0	Jack Pine												
18	18	0	0	Low-Density Trees												
14	14	0	0	Lowland Aspen/Balsam Poplar												
117	24	0	92	Lowland Conifers						30	62					
26	26	0	0	Lowland Deciduous												
95	95	0	0	Lowland Mixed Forest												
9	9	0	0	Lowland Shrub												
21	12	0	9	Lowland Spruce/Fir					9							
349	307	6	37	Mixed Upland Deciduous			5	1						37		
12	12	0	0	Natural Mixed Pines												
143	110	34	0	Northern Hardwood			34	0								
33	0	33	0	Oak		33										
584	551	30	3	Red Pine			28	2								3
2	2	0	0	Sand, Soil												
5	0	0	5	Tamarack					5							
15	15	0	0	Treed Bog												
34	13	2	19	Upland Conifers			2			15	2			1		
34	34	0	0	Upland Mixed Forest												
20	0	20	0	White Pine	20											
2,361	1,890	306	165	Total Forested Acres	20	33	251	3	14	45	65	37	1	3		
	80%	13%	7%	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	182	Unspecified	Unspecified	Unspecified	Unspecified
Comments:								
I was going to cut the north end of this stand to break up age classes but with all the cutting going on especially around the ski trail we can hold on to this until next time. The aspen is still middle aged and will hold 10 years.								

Report 4 – Site Conditions

Sault Ste. Marie Mgt. Unit

Josh Brinks : Examiner

Compartment: 37

Year of Entry: 2019

2	Available	4A: No Markets Available for these Forest Products	20	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Pine is too big and everything else is too small at this time.							
3	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	5	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
4	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	5	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Stand is wet and at this time the trees are not large enough to go after.							
5	Available	Minor Change in Acreage	3				
Comments:							
6	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	34	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Timber is a little smaller in DBH in this stand let it go for 10 years.							
7	Unavailable	5E: Long-Term Retention	3	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

Sault Ste. Marie Mgt. Unit

Josh Brinks : Examiner

Compartment: 37

Year of Entry: 2019

8	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	28	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
9	Available	5B: Maintain for regeneration purposes	33	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Large oak over sapling trees. Was used as an acorn orchard. Nothing to cut this entry							
11	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	9	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Wet stand with trees not desirable for harvest at this time.							
12	Unavailable	3H: Deer Wintering Area - habitat is incompatible with harvest at this time	3	Unspecified	Unspecified	Unspecified	Unspecified
Comments: patch of cedar in the deer yard							
13	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	1	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Leave as a buffer around the vernal pond/wetland							
14	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	2	Unspecified	Unspecified	Unspecified	Unspecified
Comments: This portion of the stand is immature. Leave for future harvest.							

15	Unavailable	3H: Deer Wintering Area - habitat is incompatible with harvest at this time	62	2G: Too wet (sensitive soils, does not include access issues)	Unspecified	Unspecified	Unspecified
Comments: A portion of this stand is in the deer yard polygon, in reality the whole thing should be. Ground is a bit wet to be chasing pockets of timber.							
16	Unavailable	3I: Historical / archeological (add locked comments)	0	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Historic Site. Protect location as needed.							
17	Unavailable	3A: Conservation Values incompatible with harvest at this time	45	3H: Deer Wintering Area - habitat is incompatible with harvest at this time	Unspecified	Unspecified	Unspecified
Comments: Stand is in the deer yard and does not have much timber that we would typically cut.							



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
	Type 1 or Type 2 Old Growth	Possible Type 2 Old Growth Area	SCA Removal	2
Comments does not meet old growth criteria				
	Type 1 or Type 2 Old Growth	Possible Type 2 Old Growth Area	SCA Removal	13
Comments does not meet old growth criteria				
	Type 1 or Type 2 Old Growth	Verified Type 1 Old Growth Area	Proposed SCA	15
Comments Stand meets type 1 old growth criteria				
	Type 1 or Type 2 Old Growth	Verified Type 1 Old Growth Area	Proposed SCA	30
Comments Stand meets type 1 old growth criteria				
	Type 1 or Type 2 Old Growth	Verified Type 1 Old Growth Area	Proposed SCA	15
Comments Stand meets type 1 old growth criteria				
	Type 1 or Type 2 Old Growth	Verified Type 1 Old Growth Area	Proposed SCA	30
Comments Stand meets type 1 old growth criteria				
Stand 58	Type 1 or Type 2 Old Growth	Possible Type 2 Old Growth Area	SCA Removal	20
Comments does not meet old growth criteria				



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 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.
SCA	Type 1 and Type 2 Old Growth	Old-Growth forest (also termed primary forest, ancient forest, virgin forest, or primeval forest) is an area of forest that has few or no signs of human disturbance and that exhibits unique ecological features related to age, composition and associated structure. Old growth forests are of natural origin. They may be dominated by late successional forest species (i.e. sugar maple and American beech), or may be a very old example of a stand dominated by long-lived early- or mid-seral species (i.e. oak, or red pine).



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
1	42110 - Planted Red Pine	Poletimber Well	3.5	57	171-200	Sale 007-00, first row thinning 2003. Nice pine to the south with more oak and saplings to the north.
2	42111 - Planted Red Pine, Mixed Deciduous	Sapling Medium	15.0	17	Immature	Sale 007-99 Snowshoe Spruce. This stand was cut and planted in 2001. Red pine is competing well in this portion of the stand. There are a few scattered log size oak trees. Lots of diversity mixed in with the red pine.
3	4130 - Aspen	Sapling Medium	32.3	7	Immature	Sale 014-10 Budworm Buffet cut in 2011, white spruce plantation final harvest due to budworm outbreak, pine and oak reserved along with some red maple and scattered small pole sized aspen. Oak regen in the stand is almost all browsed on.
4	4139 - Aspen, Mixed Deciduous	Sapling Well	22.0	29	Immature	It appears that this is sale 012-89. I called it a sapling size stand but it is right on the verge of becoming a pole size. It seemed like there was more area in sapling at this time but you will see areas of pole size trees. Small hardwood inclusion of oak and red maple along Wilson road and a clump of large pine.
5	6112 - Lowland Aspen	Sapling Well	13.8	26	Immature	Sale 005-89, The Wilson road Block, Cut strip two chains wide. The strips have regenerated nicely to aspen, red maple, fir on the drier ground and aspen, black spruce and fir on the wet ground. In general the stand is drier towards the north and west edges. The stand has some rolling topography with some small hills. Could be upland or lowland.
6	4199 - Other Mixed Upland Deciduous	Poletimber Medium	9.5	54	51-80	Stand of smaller diameter oak situated right on the edge of the ridge. Stand is a pole size stand but there is a lot of oak saplings in the canopy.
7	42110 - Planted Red Pine	Sawtimber Well	30.5	59	141-170	Sale 007-00 Wilson/Kibble Pine stand was third row thinned in 2003. Very nice stand of red pine with little regen in the understory. Some areas of oak regen but not too thick.
8	4110 - Sugar Maple Association	Poletimber Well	2.7	78	111-140	Stand was last thinned as part of Tone Hill Hardwood in 1993. Very little regen in this stand. Hemlock and white pine in the north part of the stand.
9	6139 - Mixed Lowland Forest	Poletimber Medium	20.5	87	111-140	Most of this stand is a mixed deciduous stand with aspen, red maple and birch but as you get to the eastern ends of the strip they get a little lower and transition to spruce. The canopy is fairly open because some of the aspen has started to fall out of the canopy. There are some areas of closed canopy throughout the stand. This stand is much more mixed and has a lot more conifer than the aspen stand to the west.
10	4134 - Aspen, Spruce/Fir	Poletimber Well	37.9	46	81-110	This stand is just barely pole size and still has a lot in the sapling size class. This stand has some pockets of low ground with black spruce/tamarack. Most of the stand is higher ground with aspen and some of the tallest/driest ridges has bigtooth aspen. Thick fir understory. Stand is vary hard to delineate from the Q type in the center and stand outline is not perfect.



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
12	4134 - Aspen, Spruce/Fir	Sapling Well	43.4	29	Immature	Stand is a mix of high and low ground. Wet ground has tamarack, black spruce and white pine. Not quite to a pole size stand yet. Regen is still doing well most of the fir seems to have been missed by SBW so far. There is a small bog in the nw corner of the stand along the PVT line. The stand looks like it was picked over last time resulting in a mix of sizes.
13	6122 - Black Spruce	Poletimber Well	4.9	45	51-80	Stand is a good mix of tamarack and black spruce. The diameters fall off a bit as you get to the interior of the stand.
14	4130 - Aspen	Sapling Well	32.4	17	Immature	Sale 001-00 North Kibble Pulp cut in 2000-2001. Good aspen regen throughout the stand. Scattered log size white pine and pole size balsam fir. Some tamarack regen mixed in along lowland edge.
15	6121 - Tamarack	Poletimber Medium	5.1	59	51-80	Black spruce mix on the edge of the stand with tamarack of tag alder in the interior.
16	4319 - Mixed Upland Forest	Poletimber Well	23.8	53	81-110	Mixed deciduous stand with scattered large white pine. Cedar is present in the northern part of the stand./ Mostly high ground with some low spots. The balsam fir has been devastated by SBW.
18	429 - Mixed Upland Conifers	Poletimber Well	9.3	74	111-140	This stand is a bit of a catch all. There is a vernal pond located north of the road. the east side of the stand is a patch of cedar, there are a few spots of large white pine/hemlock, the interior is mostly black spruce and aspen. There are about 2 acres in the northwest corner of the stand that was cut maybe 20-30 years ago and has sapling size trees.
21	429 - Mixed Upland Conifers	Sawtimber Well	15.2	122	141-170	The south part of the stand is dominated by red maple that was set up for a timber sale at one time then was site conditioned(about 3 ac). The rest of the stand is dominated by large hemlock and white pine. There is no evidence of cutting but there are a bunch of old fire scars. Balsam fir understory with pole size red maple and yellow birch.
23	6128 - Lowland Coniferous, Mixed Deciduous	Sawtimber Medium	30.1	117	111-140	Stand of large white pine and hemlock which is a bit shorter and smaller in DBH. Plenty of signs of fire in this stand but not sign of an axe. There are low areas of black spruce, tamarack with tag alder and willow. Most of the regen is balsam fir with pockets of red maple and aspen. The ground is slightly rolling with a few small "ridges". There are some areas in the stand with completely closed canopy but for the most part there is a good amount of space between white pine.
24	6117 - Lowland Deciduous, Mixed Coniferous	Sapling Well	5.8	25	Immature	Cut as part of sale 005-89 The Wilson Road Block. Cut strip two chains wide that have regenerated nicely. There are some pole/log size black spruce and white pine left in the stands. Stand is mostly aspen, paper birch, fir and red maple.
25	4130 - Aspen	Sawtimber Well	23.8	62	111-140	Stand is right on the edge of a log/pole size stand. the aspen in the stand is showing signs of decline. There are some areas of smaller diameter aspen. There are large white pine scattered throughout. Most of the understory is red maple.



Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
4130 - Aspen	Sapling Well	64.2	24	Immature	Sale 005-89 The Wilson Road Block cutting completed in 1994. I merged a small stand in the northwest corner into this stand. The stand was slightly older but will be managed the same as this one. Nice aspen regen some of which is pole size. Scattered log size oak and white pine.
4139 - Aspen, Mixed Deciduous	Sapling Well	76.0	17	Immature	Sale Wilson Rd. B6 002-00, reserved oak, pine and w birch seed trees. All of the birch is dead. good regen to a nice mix of species.
4130 - Aspen	Sapling Medium	41.7	7	Immature	Sale 002-09, reserved oak and pine. Decent aspen regen in clumps with some patches of more open ground with pin cherry. Scattered oak especially along the hardwood edge along with paper birch and white pine.
4133 - Aspen, Mixed Pine	Sapling Well	31.1	17	Immature	Stand was cut as part of Snow Shoe Spruce, 007-99. This stand was then planted to red pine but the plantation has failed. The stand has naturally filled in to an aspen mix. There are some areas in the stand where there is good red pine and you can see the rows but those patches are small. In my opinion this is no longer a plantation but a naturally regenerated aspen stand with planted red pine mixed in.
4134 - Aspen, Spruce/Fir	Poletimber Well	7.2	24	51-80	Stand was cut in 1994 as part of The Wilson Road Block, 005-89. It is now right on the edge of a pole/sapling stand with some areas being heavier to saplings still. Decent amount of spruce mixed in with the aspen..
6117 - Lowland Deciduous, Mixed Coniferous	Sapling Medium	20.1	7	Immature	Sale 002-09, reserved white pine, cedar, hemlock, and any oak or yellow birch that was present. Regen is not very desirable at this point and consists of mainly aspen and pin cherry. The wet ground in the stand is slowing some of the regen. There is a fair amount of pole size fir trees that were left during the harvest along with scattered yellow birch and hemlock.
6128 - Lowland Coniferous, Mixed Deciduous	Sapling Poor	9.4	7	Immature	Stand was cut in 2011 as part of Spruce Park Mix. There are some white pine and cedar that were retained during the harvest. The regen is starting to fill in but is going to take some time with how wet the stand is. There is decent tamarack regen along the south and east side of the stand. High amount of browse on the red maple.
6139 - Mixed Lowland Forest	Sapling Well	74.3	25	Immature	Stand was part of The Wilson road Block, 005-89, which was completed in 1994. The white pine, hemlock and cedar were left during harvest. The regen is doing fairly well except in a few low areas. Very thick fir regen throughout the stand. This stand is a mix of high and low ground with some very wet patches of tag alder and tamarack. There are some patches of mature timber (old growth) that is a mix of white pine and hemlock especially along the northeast edge. Scattered mature timber left uncut between strips but not worth going after.
6122 - Black Spruce	Poletimber Well	9.1	87	51-80	Low area of black spruce with scattered red maple and paper birch. Stand is pretty wet.



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
37	4191 - Mixed Upland Deciduous with Conifer	Poletimber Well	21.0	77	81-110	I walked into this stand along the private and north of the strip cuts. It is a bit of "higher" ground in the lowland. This ridge has red maple and birch growing with a mix of other species. There is thick fir in the understory. Some of the low swales are dominated by spruce and tamarack. The west half is dominated by red maple and the east half is more paper birch. Somebody else may type it as lowland.
38	6128 - Lowland Coniferous, Mixed Deciduous	Poletimber Well	62.2	93	111-140	There is a lot of variation in this stand. There are patches of cedar, tag alder lowlands, black spruce clumps or areas of real nice hemlock. As elevation of the ground changes slightly so does the covertype. There are areas of decent timber but it would be super hard to chase them around in this stand and the ground is very wet. Not much deer use at this time but plenty of browse on the red maple regen.
39	4191 - Mixed Upland Deciduous with Conifer	Sapling Medium	13.0	17	Immature	The east portion of this stand was cut as part of Dan's Kibble Mix 008-00. The west portion was typed as a g but is naturally filling in. Compared with the surrounding stand this has significantly more deciduous trees and less pine. There still are some areas heavy to jack pine and some small openings. Scattered log size oak and some pole size birch and red maple.
40	42110 - Planted Red Pine	Poletimber Well	20.5	57	141-170	Nice red pine stand that is very open in the understory. Almost log size. Sale 007-00, first row thinning 2003
41	4119 - Mixed Northern Hardwoods	Poletimber Well	33.3	81	111-140	Stand is on the edge between pole and log. There is a large ridge that runs north and south through the stand. Looks like there might be an old hill cut at the north end of the ridge. In the core part of the hardwood stand there is not much regen. There is about a 5 acre area along the southern border of the stand with maple/oak over white spruce, I am guessing it was a failed spruce plantation.
43	6122 - Black Spruce	Poletimber Well	2.3	59	141-170	Small pocket of black spruce. It is a lowland compared to the surrounding area but no wear near as low as a typical black spruce swamp. Almost nothing in the understory of this stand.
44	4199 - Other Mixed Upland Deciduous	Sapling Well	29.7	17	Immature	Sale 007-99 Snow Shoe Spruce finished cutting in 2001. The stand was planted to red pine in 2001 but this portion of the plantation failed and grew in naturally to oak, aspen, red maple. Scattered log size trees and also a strip of mature timber cuts through the northern portion of the stand.
45	4123 - Red Oak	Sawtimber Medium	32.7	88	51-80	Large oak trees with a few scattered white pine and some sugar maple. The stand was cut leaving just oak in 1981 and was used as an acorn seed orchard. it must have been cleaned out at least one other time since then because there is two ages of saplings coming up. The understory is very thick and needs treatment, brushing or burning.
46	42220 - Natural Jack Pine	Poletimber Medium	48.9	39	51-80	Stand was typed as a G last entry, plenty of trees to call it forested. In some places the jack pine is quite nice. Rolling hill along with the bowl that the ski trail is named for.
48	6122 - Black Spruce	Poletimber Medium	5.1	61	51-80	Spruce/tamarack swamp with some open areas. Smaller diameter, poor site quality.



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
49	4130 - Aspen	Poletimber Well	12.3	58	111-140	Mostly pole aspen with some log. This is a patch that seems like it was not picked through in the past. Between the two roads there is very little conifer cover but pretty thick hazel brush. South of the southern road the stand is more mixed with a decent about of fir.
50	42110 - Planted Red Pine	Poletimber Well	51.2	58	171-200	Decent stand of red pine that could use a thinning. Mostly oak in the understory but it is patchy. There is a small patch of hardwoods included in this stand. Pruned to 16 ft, row thinned 1989, sale 007-09 thinned to 120 BA in 2011.
51	6129 - Mixed Coniferous Lowland Forest	Poletimber Well	14.9	46	111-140	This Q type is pretty hard to pick out on imagery and stand shape is not perfect. the core part of this stand seems like it was not cut with the surrounding stand and has merchantable timber but some of the stuff on the fringes seems like it may have been harvest and has a mix of black spruce and balsam fir. Stand is pretty wet.
54	4130 - Aspen	Sapling Well	24.8	16	Immature	Stand was cut as part of Dan's Kibble Mix 008-00 in 2002. really thick aspen regen with a decent amount of hazel brush and red maple in the understory.
55	4311 - Pine, Aspen Mix	Sawtimber Well	10.1	77	111-140	Stand is a mix of pine and aspen. There are some scattered large pine. Most of the paper birch in the stand is falling apart.
56	42220 - Natural Jack Pine	Sapling Well	44.9	17	Immature	Sale was part of Dan's Kibble Mix 008-00. Pretty nice jack pine regeneration, there are some open areas. The jack pine is mixed with mostly aspen but there are some other deciduous trees and brush scattered throughout. A few log size oak, white pine, and red pine. There is a patch of pole size jack pine retained south of the road. Part of the north and west portions of this stand were previously typed as a g and were not part of the timber sale but jack pine has naturally filled it in and it is hard to tell them apart on the ground.
58	42200 - Natural White Pine	Sawtimber Medium	19.9	123	81-110	There is some jack pine in the stand along the north and a small E type in the southeast corner. Stand looks a little two aged with giant pine in the canopy and a thick understory of red maple. The overstory of pine is not always consistent throughout, it is a bit thin in some areas. BA ranged from 30-130. OPIC - FMD: PINE SAVED BY PREVIOUS FORESTERS AS STUDY/NATURAL AREA. DO NOT CUT. HARDWOOD AND SPRUCE CUT FROM STAND IN 1989. RED PINE UP TO 32" AND WHITE PINE UP TO 36". GENERAL YEAR OF ORIGIN FROM TREES CUT ON PROPERTY TO THE WEST: 1880 PLUS OR MINUS 5 YEARS.
59	4119 - Mixed Northern Hardwoods	Poletimber Well	33.5	57	111-140	Pole size maple with log size oak. Some of the oak is dying. Maple is just large enough to be merchantable.
60	4199 - Other Mixed Upland Deciduous	Poletimber Well	4.9	58	81-110	Failed portion of the pine plantation. The knob to the north is mostly aspen. The larger area is large oak trees with pole size pale. Regen is mostly maple, oak and ironwood. At least one large rock pile in the stand.



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
61	42290 - Natural Mixed Pine	Sapling Well	12.0	17	Immature	This stand was cut as part of Dan's Kibble Mix 008-00. The natural regen of jack and red pine is doing great and coming in pretty thick. There are very little deciduous saplings in this portion of the stand. Very Large red and white pine in the overstory.
62	42110 - Planted Red Pine	Sawtimber Well	2.5	59	141-170	This stand was last thinned in 2011 as part of Wreckreation Pine. It just barely makes a log size stand.
64	4119 - Mixed Northern Hardwoods	Sawtimber Well	19.3	84	81-110	Hardwood stand with lots of good advanced regen that should be released soon. Scattered white pie throughout the stand. fir gets a little heavy in the middle of the stand. There is a small patch of red pine plantation in the are south of the road.
66	4133 - Aspen, Mixed Pine	Sapling Medium	21.7	34	Immature	Stand was chipped in 1984. It is now aspen with a nice mix of other species. It is almost a pole size stand/ Some scattered log size oak and pine.
67	42110 - Planted Red Pine	Sawtimber Well	92.2	58	81-110	Stand was part of Heinz 57 Pine and thinned in 2010. There is no apparent rows in this stand. There is a decent amount of oak and white pine mixed in with the red pine. Some areas have heavy red maple regen. The north finger of this stand that contains the ski trail was not thinned.
68	4131 - Aspen, Oak	Sapling Well	3.6	17	Immature	This stand was cut as part of Snow Shoe Spruce 007-99. This stand is located on the side of a hill and was allowed to regenerate naturally rather than attempt to plant red pine. The stand has grown in to a good mix of aspen/oak.
71	4139 - Aspen, Mixed Deciduous	Poletimber Well	182.0	49	81-110	Aspen stand with some hardwood knobs and some birch knobs scattered throughout. Scattered pine throughout stand, the jack pine is dying off. More pine mixed in along western and southern borders. Pole size aspen stand but there are still many areas of saplings. Rolling topography.
72	42110 - Planted Red Pine	Poletimber Well	80.6	60	111-140	Was third row thinned as part of Heinz 57 Pine in 2010. It is a red pine stand mixed with jack pine in the southern end and white pine and oak to the north. Some areas looks like it was hard to follow the rows. Mostly open in the understory with a few patches of regen.
75	42110 - Planted Red Pine	Poletimber Well	44.3	58	141-170	Pole size red pine that needs to be thinned. You can see that they were planted in rows but the rows are going to be hard to follow like most Kinross pine. There are a couple small patches of jack pine. Scattered oak and white pine.
77	4130 - Aspen	Sapling Well	21.7	18	Immature	Stand was cut in 2000 as part of Pinebowl Parking Pulpwood. Very nice aspen regen that is mostly bigtooth. Scattered oak was retain when the sale was cut. Fair amount of conifer and oak saplings in the understory with the hazel brush.
78	4130 - Aspen	Sapling Well	30.7	29	Immature	Stand of aspen with areas of overstory pine. In some places the aspen did not come back all that well.



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
79	42110 - Planted Red Pine	Poletimber Well	3.8	59	141-170	Stand was last thinned as part of Wreckreaction Pine 007-09. Nice red pine with scattered oak.
80	4199 - Other Mixed Upland Deciduous	Sapling Poor	18.5	9	Immature	Sale 006-09 Ethanol alley was cut in 2009, white spruce plantation final harvest due to budworm out break, oak and pine reserved, maple left out of sale boundary. It is now patchy cherry and aspen with the canopy closure being closer to the 25% side of the scale. FTP (45-163) to burn and plant red pine has been cancelled and the stand is no longer being managed for pine. TMS is okay with this being a poorly stocked stand.
81	42110 - Planted Red Pine	Poletimber Well	93.1	57	111-140	Stand of short, limby pine. There are very few places where the rows are evident. There is quite a variation in DBH in the stand it may have been planted and then filled in with volunteers. There are some open patches in the stand with large diameter pine. Has white pine, oak, birch and aspen scattered throughout the stand.
82	4199 - Other Mixed Upland Deciduous	Poletimber Well	37.3	58	81-110	Stand is poor quality maple pulp with pockets of BT aspen and scattered large oak which give it a two ages look. The stand was most likely a field or pasture. The area between the ski trail is pole size sugar maple with ironwood understory. The area to the east of the ski trail is scattered large oak with pole size sugar maple and has more diverse understory. Stand is part of an old homestead site. No evidence remains except stone piles in surrounding stands and a grave along the south boundary at the base of a huge oak that reads "English Baby 1894" Preserve this area when cut. GPS coordinates are N46° 14.887' W 84° 25.112'. SHPO has been contacted.
85	4110 - Sugar Maple Association	Sawtimber Well	5.8	80	81-110	Sale was last thinned as part of Iron Mule Mix 011-09. A little bit of regen has established since the last cut. Stand is doing well.
86	4137 - Aspen, Birch	Sapling Well	18.0	28	Immature	The north lobe of the stand is really nice aspen/ birch regen with scattered oak and pine logs. The south lobe has good regen but is a little more open grown.
88	42210 - Natural Red Pine	Sawtimber Well	28.3	91	111-140	Red pine dominated stand with lots of hardwood regen in the understory. Some open canopy areas with aspen regen. There are some monster red pine in this stand. It appears that at least a portion of this stand was part of Marked Pine, 024-89 and was thinned at that time.
89	42110 - Planted Red Pine	Sawtimber Well	52.1	58	171-200	Stand was thinned in 2011. Nice stand of red pine with some brushy areas with maple and oak saplings. South end near the ski trail has a little smaller DBH.
91	4199 - Other Mixed Upland Deciduous	Poletimber Well	140.8	81	111-140	Stand has large oak with pole size maple. Maple is just getting big enough to be merchantable. Most of the regen is ironwood or maple.
93	42110 - Planted Red Pine	Poletimber Well	44.2	57	141-170	Decent red pine stand with lots of room between the rows. Some scattered oak with oak regen in the understory. A few rows of spruce. Sale 007-00, First row thinning 2003



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
94	4199 - Other Mixed Upland Deciduous	Sapling Well	74.6	25	Immature	This stand was cut in 1993 as part of Tone Hill Hardwoods. This was an oak seed tree but most of the regen is aspen or maple. Seed tree is really evident in the southern portion of the stand. There is a more continuous canopy of pole and log size trees in the northern portion of the stand.
95	429 - Mixed Upland Conifers	Sawtimber Well	9.5	98	81-110	Stand of mixed pine with aspen. Along the hardwood edge there is some hardwood species mixed in the stand. Along the gravel pit there are clones of aspen. Some of the pine in this stand is huge.
96	4119 - Mixed Northern Hardwoods	Sawtimber Well	16.6	84	81-110	Stand was last thinned in 1993 as part of Tone Hill Hardwood. There is a large ridge that runs N-S through the stand. On top of the hill it is mostly oak with pole size sugar maple but on and below the ridge there is a higher sugar maple component.
97	42111 - Planted Red Pine, Mixed Deciduous	Sapling Poor	21.9	6	Immature	This stand is under FTP C45-163 and was planted in 2012. The stand was a white spruce plantation that was salvaged and planted to red pine. The pine is doing okay but is a little bit thin. Lots of competing species. There is some scattered log size oak trees especially on the east side of the stand. The spruce regen is doing better than the red pine so far.
98	4119 - Mixed Northern Hardwoods	Poletimber Well	26.9	63	81-110	Not sure on the history of this stand. Seems like an opening that is slowly growing in. There is some log size oak and red maple but the stand is mostly small pole size trees. There are a few clones of aspen.
99	4112 - Maple, Beech, Cherry Association	Poletimber Medium	5.5	54	51-80	Patch of small poor quality hardwoods. Looks like an opening that has slowly grown in.



Stand	Cover Type	Acres	Managed Site	General Comments:
11	6225 - Bog	9.8	No	Leatherleaf bog with tamarack, black spruce and white pine saplings/poles.
17	6220 - Alder/willow	8.7	No	tag alder with paper birch and white pine. Wet open area along east line.
19	6224 - Treed Bog	7.3	No	Bog with black spruce, tamarack, white pine and paper birch saplings scattered throughout. A few scattered, pole size, forested black spruce patches. Patchy tag alder.
20	6224 - Treed Bog	7.8	No	Treed bog with black spruce, tamarack and white pine.
47	710 - Sand, Soil	2.3	No	Someone used this stand as a sand pit at one time.
57	330 - Low-Density Trees	1.4	No	
83	330 - Low-Density Trees	4.5		Sale 006-09 Ethanol Alley was cut in 2009, white spruce plantation final harvest due to budworm out break, oak and pine reserved, FTP to burn and plant red pine. Stand was just sprayed and re-trenched in fall of 2016. A few scattered oak are present in the stand. Planted in spring of 2017. 1 year regen check completed in May 2018 with 840 TPA of red pine.
100	3303 - Mixed Low Density Trees	7.9	No	"KINROSS PIT" under lease. This portion of the pit has not been used in years. There is a large dump site and a lot of ORV activity in the stand.
402	330 - Low-Density Trees	2.5	No	This stand was most likely an old landing that turned into a grass opening. It is slowly filling in with trees.
403	330 - Low-Density Trees	2.0	No	grass opening growing in with trees.