



Compartment Review Presentation

Gaylord Forest Management Unit

Compartment 52064

Entry Year 2017

Acreage: 3,804

County Antrim

Management Area: Grayling Outwash

Revision Date: 2015-05-12

Stand Examiner: Zach Crew

Legal Description:

T29N, R05W, Sections 23, 24, 25, 26, 35 & 36

Identified Planning Goals:

To provide for the protection, integrated management and responsible use of a healthy, productive and undiminished forest resource base for the social, recreational, environmental and economic benefit of the State of Michigan.

Soil and topography:

The main soil type is Rubicon Sand. This is located in the flat areas and outwash plains of the compartment. Kalkaska-Montcalm sands are located in the south and central portion of the compartment where topography begins to develop.

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

Ownership within this compartment is contiguous and only part of the north side of the compartment abuts against private property. There is quite a bit of gas well activity in this compartment.

Unique Natural Features:

The Manistee River flows along the east boundary of the compartment.

Archeological, Historical, and Cultural Features:

None

Special Management Designations or Considerations:

None

Watershed and Fisheries Considerations:

None

Wildlife Habitat Considerations:

Treatments in this compartment will maintain age class diversity in aspen while creating early successional habitat benefiting deer, grouse, wild turkey and woodcock.

Mineral Resource and Development Concerns and/or Restrictions

Surface sediments consist of ice-contact and glacial outwash sand and gravel and postglacial alluvium. The glacial drift thickness varies between 600 and 800 feet. Beneath the glacial drift is the Mississippian Coldwater Shale. The Coldwater does not have a current economic use. A gravel pit is located one mile to the east and there is good potential on the uplands. Oil and gas potential in the area is for the Antrim Shale gas play and Niagaran reef play. This area is leased and is currently being developed for oil and gas.

Vehicle Access:

Access to this compartment is along Mancelona Road. Both Deward Road and North Crooked Lake Road run along the east and west boundaries of this compartment. There are plenty of gaswell roads that run through the compartment as well.

Survey Needs:

None

Recreational Facilities and Opportunities:

An ORV trail runs throughout the majority of this compartment. A snowmobile trail runs through the NW part of this compartment.

Fire Protection:

Fire protection is provided out the Gaylord and Bellaire Field Offices. The majority of the forest types in this area are not highly susceptible to large scale fire events.

Additional Compartment Information:

The following reports from the Inventory are attached:

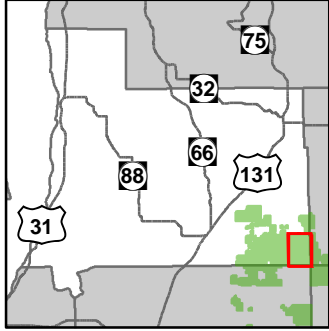
- Total Acres by Cover Type and Age Class**
- Cover Type by Harvest Method**
- Proposed Treatments – No Limiting Factors**
- Proposed Treatments – With Limiting Factors**
- Stand Details (Forested and Nonforested)**
- Dedicated and Proposed Special Conservation Areas**
- Site Condition Details**

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

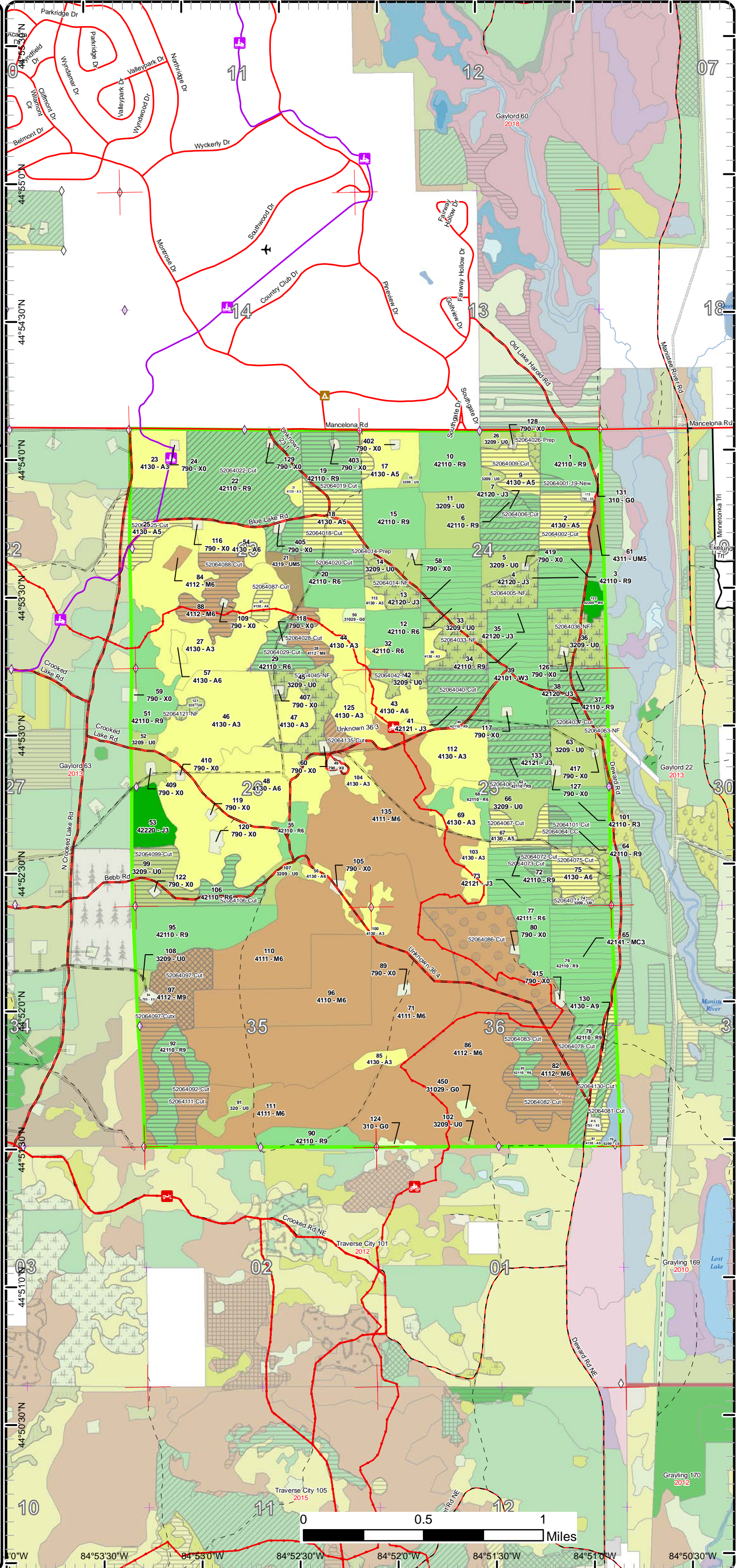
- Base feature information, stand boundaries, cover types, and numbers**
- Proposed treatments**
- Site condition boundaries**
- Details on the road access system**

Cover Type & Treatments Map

Compartment: 64
 T29N,R05W, Sec. 23-26, 35, 36
 County: Antrim
 Unit: Gaylord
 Mgmt Area: Grayling Outwash
 YOE: 2017
 Acres: 3804 GIS Calculated
 Examiner: Zach Crew
 Map Revised: 3/24/2016
 Map Phase: Post-Review

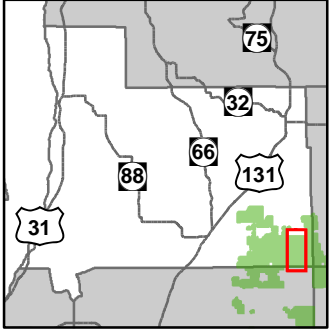


- Miris Corners
- + Remonumented Section Corners
- ◇ Field Grade GPS Corners
- ORV Trails
- Snowmobile Trails
- ORV License & Trail Permit
- Designated ATV
- Designated Snowmobile Trails
- ▲ Campground
- County Paved Roads
- County Gravel Roads
- Gravel Roads
- Poor Dirt Roads
- County Poor Dirt Roads
- Closed Roads
- Rivers
- Pipeline
- Compartment Boundary
- Treatments**
- ▨ Patch/Strip Cut (Femelschlag)
- ▨ Site Prep
- ▨ Selection (Group, Single Tree)
- ▨ Clearcut (w/Reserves)
- ▨ Other Treatment - See Comments
- ▨ Thinning (Crown, Low, Systematic)
- Forest Covertype**
- 411 - Northern Hardwood
- 413 - Aspen
- 421 - Planted Pines
- 422 - Natural Pines
- 430 - Upland Mixed Fores
- Non-Forest Covertype**
- 310 - Herbaceous Openland
- 320 - Upland Shrub
- 622 - Lowland Shrub
- 790 - Other Bare/Sparsely Vegetated

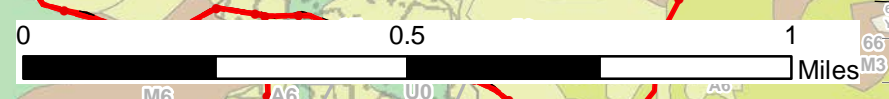
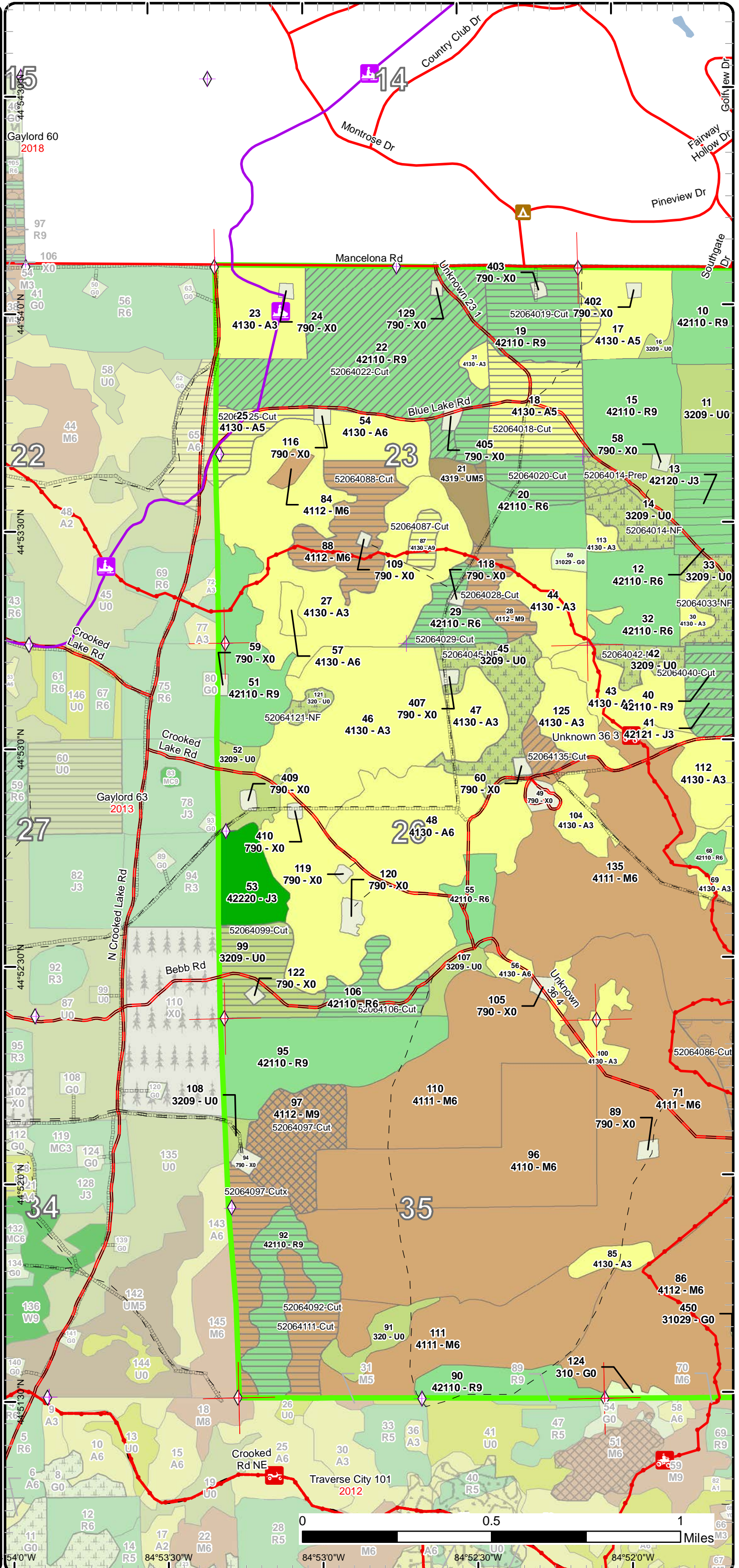


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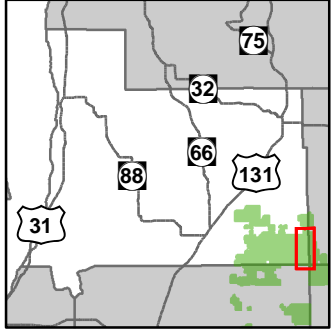
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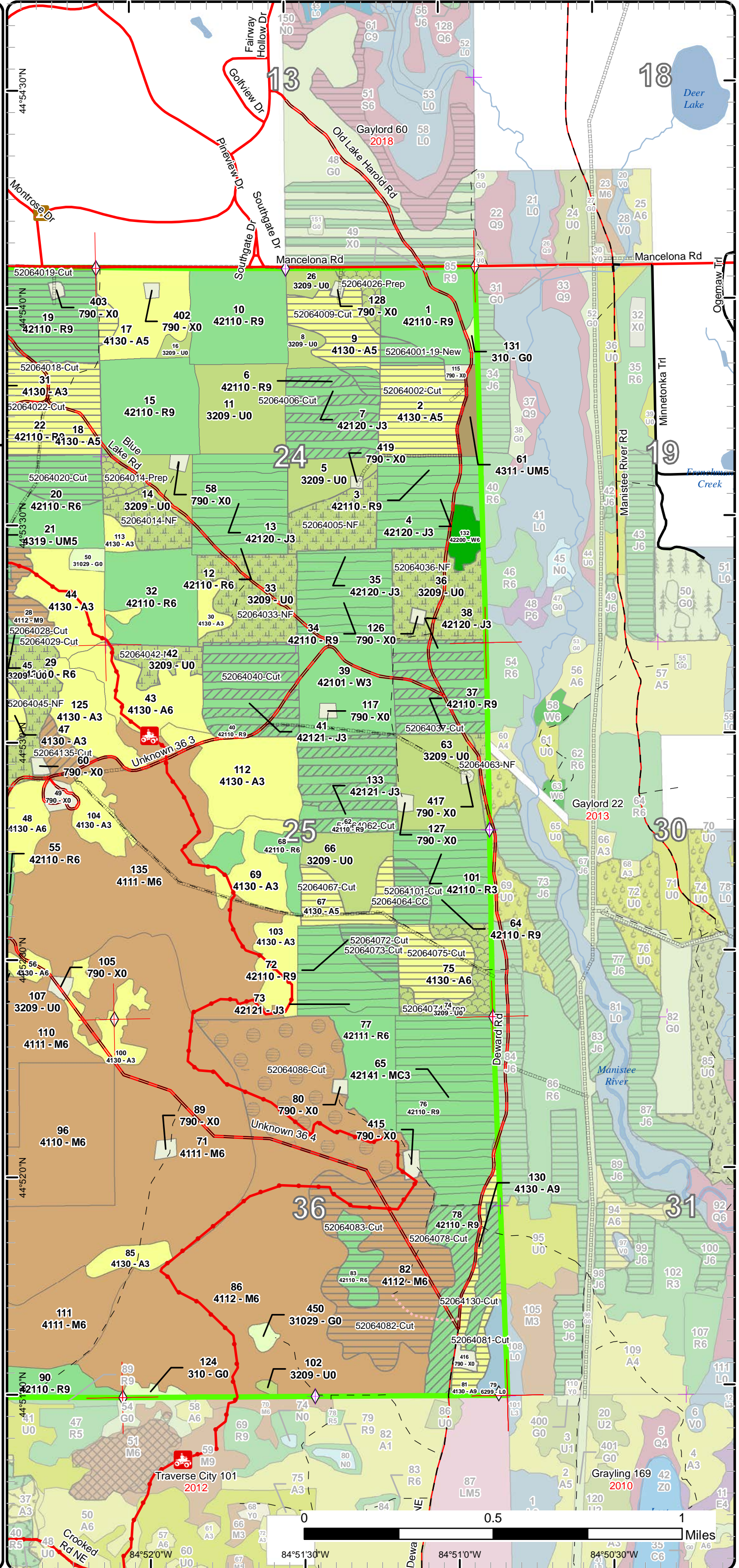
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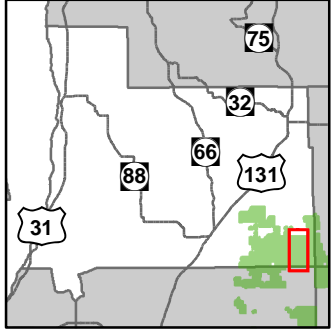


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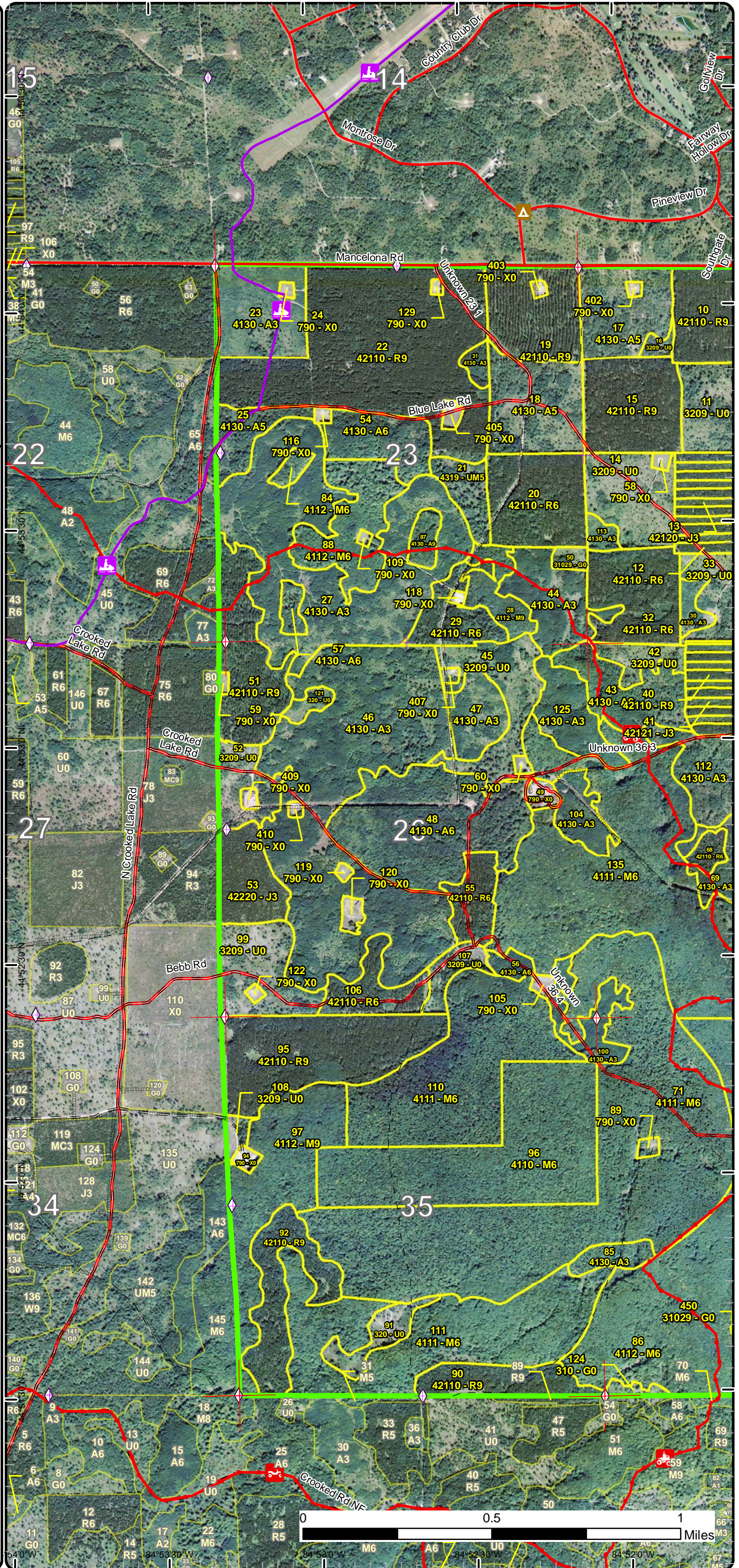


Stand Boundary Map

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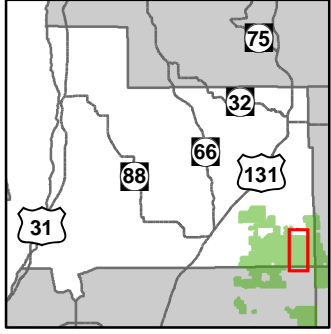


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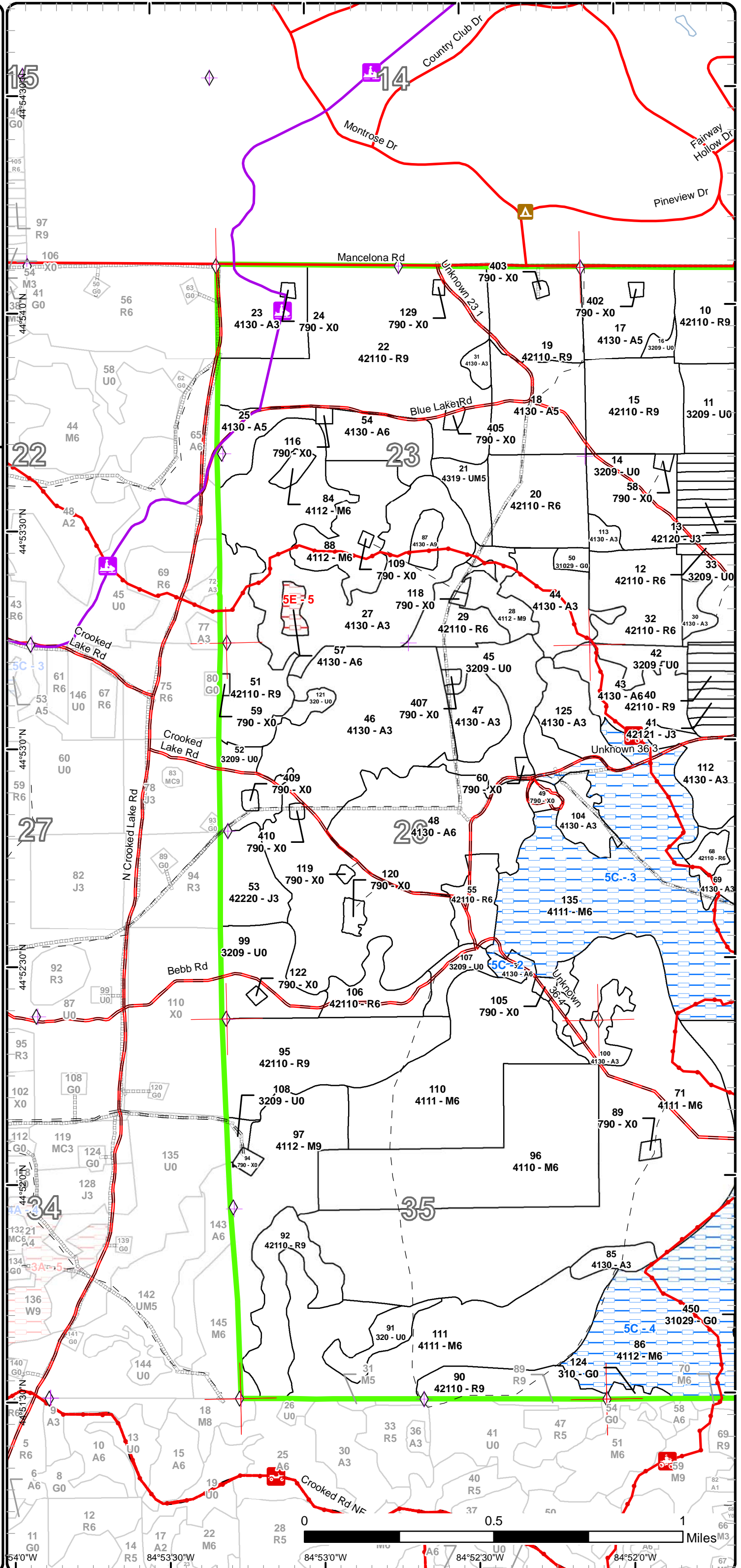


Special Conservation Areas & Site Conditions Map

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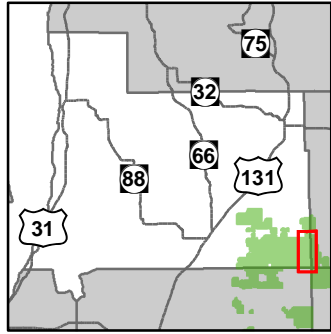


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- Compartment Boundary
- Available w/ Constraints
- Unavailable
- 5C: Delay treatment for age/size class diversity or exceptional site quality
- 5E: Long-Term Retention
- Stand Boundaries
- Special Conservation Areas

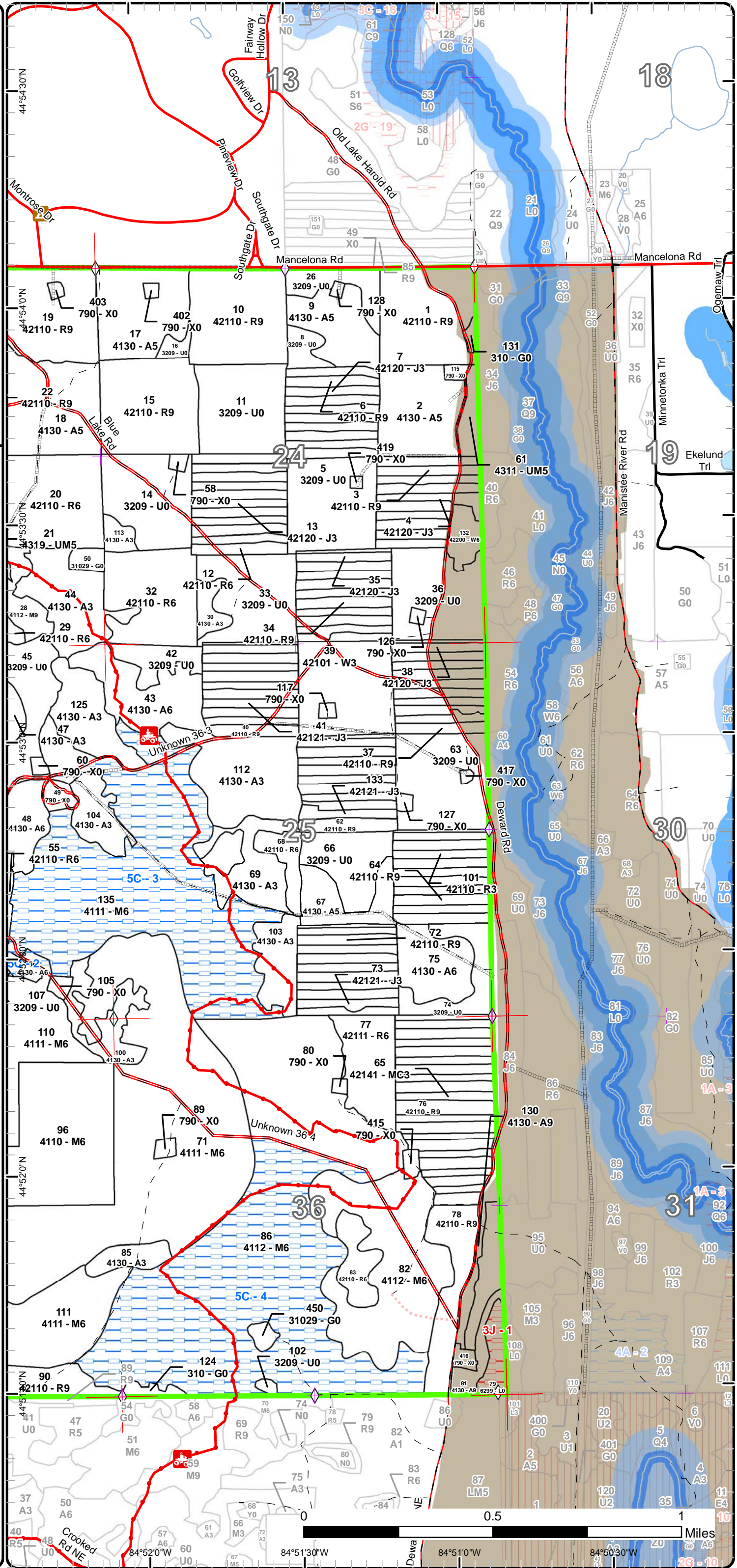


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- Compartment Boundary
- Available w/ Constraints
- Unavailable
- 5C: Delay treatment for age/size class diversity or exceptional site quality
- 3J: Water quality / BMPs (stream, river, or lake)
- Stand Boundaries
- Special Conservation Areas
- Natural Rivers Vegetative Buffer
- Natural Rivers Zoning District
- Dedicated Management Areas
- Cold Water Streams
- Cold Water Lakes
- High Priority Trout Stream Buffer
- Other SCA (No Category Assigned)



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	71	180	298	0	258	28	45	21	0	0	0	0	0	0	0	0	0	901
Bare/Sparsely Vegetated	43	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	43
Herbaceous Openland	11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	11
Jack Pine	0	0	167	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	167
Lowland Shrub	8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	8
Northern Hardwood	0	0	0	0	0	0	0	0	864	253	0	0	0	0	0	0	0	102	1219
Planted Mixed Pines	0	0	29	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	29
Red Pine	0	0	18	0	0	0	336	608	0	0	0	0	0	0	0	0	0	0	962
Upland Mixed Forest	0	0	0	0	0	0	20	0	0	0	0	0	0	0	0	0	0	0	20
Upland Shrub	396	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	396
White Pine	0	0	39	0	0	0	8	0	0	0	0	0	0	0	0	0	0	0	47
Total	458	71	433	298	0	258	392	653	885	253	0	0	0	0	0	0	0	102	3803



Report 2 – Treatment Summary

Gaylord Mgt. Unit

Compartment 64

Year of Entry:

Acres of Harvest

Total Compartment Acres: 3,804

Commercial Harvest - 950
 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	182	0	0	0	0	0	0	0	0	182
Jack Pine	5	0	0	0	0	0	0	0	0	5
Northern Hardwood	176	38	77	0	0	7	0	0	0	299
Red Pine	170	0	0	0	0	262	0	0	0	432
Upland Shrub	32	0	0	0	0	0	0	0	0	32
Total	565	38	77	0	0	269	0	0	0	950

Proposed and Next Step Treatments by Method

	Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current	950	28	0	0	0	0	0	0	158	1136
Next Step	0	680	458	0	0	402	1155	0	0	2695
Total	950	708	458	0	0	402	1155	0	158	3831



Stand	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Approval Status
1	52064001-19-New	5.7	42110 - Planted Red Pine	Sawtimber Well	65	111-140	Harvest	Clearcut	4211 - Planted Red Pine	Even-Aged	Draft Field Boundary

Habitat Cut: No**Site Condition:**

Prescription Clearcut southwest corner of stand in order to connect final harvests in stands 9 and 2.

Specs:

Next Step Treatments: Pesticide, Aerial; SitePrep, Trenching; Planting, Initial Plant; Monitoring, Artificial Regen(1yr); Monitoring, Artificial Regen(3yr)

Acceptable Regen: A well stocked red pine plantation with a minimum of 600 trees/acre.

Other Comment:

Old next step comments:

Proposed Start Date: 10/01/2016

2	52064002-Cut	32.3	4130 - Aspen	Poletimber Medium	46	51-80	Harvest	Clearcut with Retention	4211 - Planted Red Pine	Even-Aged	Draft Field Boundary
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Habitat Cut: No**Site Condition:**

Prescription Final harvest stand.

Specs:

Next Step Treatments: SitePrep, Roller Chopping; SitePrep, Trenching; Pesticide, Aerial; Planting, Initial Plant; Monitoring, Artificial Regen(1yr)

Acceptable Regen: A well stocked red pine plantation with a minimum of 600 trees/acre.

Other Comment:

Incorporate pine as much as possible into retention pockets. Old next step comments:

Proposed Start Date: 10/01/2016

5	52064005-NF	21.6	3209 - Upland Shrub (OI)	Nonstocked	Unspecified	NonForestMgt	Other - Specify		310 - Herbaceous Openland		Draft Field Boundary
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Habitat Cut: No**Site Condition:**

Prescription Burn, Mow, remove brush, to maintain open character.

Specs:

Next Step Treatments:

Acceptable Regen:

Other Comment: Old next step comments:

Proposed Start Date: 10/01/2016

6	52064006-Cut	19.0	42110 - Planted Red Pine	Sawtimber Well	60	171-200	Harvest	Crown Thinning	4211 - Planted Red Pine	Even-Aged	Draft Field Boundary
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Habitat Cut: No**Site Condition:**

Prescription Thin red pine to 120 BA, do not cut any deciduous species unless they interfere with equipment operations.

Specs:

Next Step Treatments:

Acceptable Regen:

Other Comment: Old next step comments:

Proposed Start Date: 10/01/2016



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
9	52064009-Cut	25.9	4130 - Aspen	Poletimber Medium	59	81-110	Harvest	Clearcut with Retention	4211 - Planted Red Pine	Even-Aged	Draft Field Boundary
Habitat Cut: No			Site Condition:								
<u>Prescription</u> Clearcut stand, use standard retention guidelines											
<u>Specs:</u>											
<u>Next Step</u> Pesticide, Aerial; SitePrep, Trenching; Planting, Initial Plant; SitePrep, Roller Chopping; Monitoring, Artificial Regen(1yr)											
<u>Treatments:</u>											
<u>Acceptable</u> a well stocked red pine plantation with a minimum of 600 trees/acre.											
<u>Regen:</u>											
<u>Other</u> Old next step comments:											
<u>Comment:</u>											
<u>Proposed Start Date:</u> 10/01/2016											
14	52064014-NF	15.1	3209 - Upland Shrub (OI)	Nonstocked		Unspec ified	NonForestMgt	Other - Specify	310 - Herbaceous Openland		Draft Field Boundary
Habitat Cut: No			Site Condition:								
<u>Prescription</u> Burn, Mow, remove brush, to maintain open character.											
<u>Specs:</u>											
<u>Next Step</u>											
<u>Treatments:</u>											
<u>Acceptable</u>											
<u>Regen:</u>											
<u>Other</u> Old next step comments:											
<u>Comment:</u>											
<u>Proposed Start Date:</u> 10/01/2016											
14	52064014- Prep	5.6	3209 - Upland Shrub (OI)	Nonstocked		Unspec ified	SitePrep	Roller Chopping	4211 - Planted Red Pine	Even-Aged	Draft Field Boundary
Habitat Cut: No			Site Condition:								
<u>Prescription</u> Prepare site for trenching.											
<u>Specs:</u>											
<u>Next Step</u> SitePrep, Trenching; Pesticide, Aerial; Planting, Initial Plant; Monitoring, Artificial Regen(1yr); Monitoring, Artificial Regen(3yr)											
<u>Treatments:</u>											
<u>Acceptable</u> Well stocked planted RP.											
<u>Regen:</u>											
<u>Other</u> Old next step comments:											
<u>Comment:</u>											
<u>Proposed Start Date:</u> 10/01/2016											
18	52064018-Cut	48.0	4130 - Aspen	Poletimber Medium	61	51-80	Harvest	Clearcut with Retention	4211 - Planted Red Pine	Even-Aged	Draft Field Boundary
Habitat Cut: No			Site Condition:								
<u>Prescription</u> Final harvest stand, favor the SW portion for retention.											
<u>Specs:</u>											
<u>Next Step</u> Pesticide, Aerial; SitePrep, Roller Chopping; SitePrep, Trenching; Planting, Initial Plant; Monitoring, Artificial Regen(1yr)											
<u>Treatments:</u>											
<u>Acceptable</u> A well stocked red pine plantation with a minimum of 600 trees/acre.											
<u>Regen:</u>											
<u>Other</u> Make sure to protect wildlife shrubs during sale. Old next step comments:											
<u>Comment:</u>											
<u>Proposed Start Date:</u> 10/01/2016											



S t a n d	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Approval Status
19	52064019-Cut	40.7	42110 - Planted Red Pine	Sawtimber Well	66	111-140	Harvest	Clearcut with Retention	4211 - Planted Red Pine	Even-Aged	Draft Field Boundary

Habitat Cut: No Site Condition:

Prescription Final harvest stand, follow standard retention guidelines.

Specs:

Next Step Treatments: Pesticide, Aerial; SitePrep, Trenching; Planting, Initial Plant; Monitoring, Artificial Regen(1yr); Monitoring, Artificial Regen(3yr)

Acceptable Regen: A well stocked red pine plantation with a minimum of 600 trees/acre

Other Comment: Old next step comments:

Proposed Start Date: 10/01/2016

20	52064020-Cut	19.6	42110 - Planted Red Pine	Poletimber Well	60	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 Final harvest stand, follow standard retention guidelines.

Specs:

Next Step Treatments: SitePrep, Trenching; Planting, Initial Plant; Monitoring, Artificial Regen(1yr); Monitoring, Artificial Regen(3yr)

Acceptable Regen: A well stocked red pine plantation with a minimum of 600 trees/acre.

Other Comment: Old next step comments:

Proposed Start Date: 10/01/2016

22	52064022-Cut	137.0	42110 - Planted Red Pine	Sawtimber Well	60	171-200	Harvest	Crown Thinning	4211 - Planted Red Pine	Even-Aged	Draft Field Boundary
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Habitat Cut: No Site Condition:

Prescription Thin stand to 120 BA, focus removal on porcupine damaged or crotched trees.

Specs:

Next Step Treatments:

Acceptable Regen: Treatment is a thinning, regen is not a management objective at this time.

Other Comment:

Other Comment: Be sure to protect the ORV Trail during harvest operations. Old next step comments:

Proposed Start Date: 10/01/2016

25	52064025-Cut	15.9	4130 - Aspen	Poletimber Medium	47	51-80	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	Draft Field Boundary
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Habitat Cut: No Site Condition:

Prescription Final harvest stand along with stand 65 in the adjacent compartment.

Specs:

Next Step Treatments:

Acceptable Regen: Any mix of deciduous species that results in a fully stocked aspen stand.

Other Comment:

Other Comment: Standard retention. Be sure to protect the ORV trail during harvest operations using retention and BMPs. Old next step comments:

Proposed Start Date: 10/01/2016



Stand	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Approval Status
26	52064026-Prep	6.4	3209 - Upland Shrub (OI)	Nonstocked		Unspecified	SitePrep	Trenching	4211 - Planted Red Pine	Even-Aged	Draft Field Boundary
Habitat Cut: No			Site Condition:								
<u>Prescription</u> trench and plant											
<u>Specs:</u>											
<u>Next Step</u> Planting, Initial Plant; Pesticide, Aerial											
<u>Treatments:</u>											
<u>Acceptable</u> A fully stocked red pine plantation											
<u>Regen:</u>											
<u>Other</u> Old next step comments:											
<u>Comment:</u>											
<u>Proposed Start Date:</u> 10/01/2016											
28	52064028-Cut	15.5	4112 - Maple, Beech, Cherry Association	Sawtimber Well	73	81-110	Harvest	Clearcut with Retention	4319 - Mixed Upland Forest	Even-Aged	Draft Field Boundary
Habitat Cut: No			Site Condition:								
<u>Prescription</u> Final harvest stand, standard retention applies											
<u>Specs:</u>											
<u>Next Step</u>											
<u>Treatments:</u>											
<u>Acceptable</u> Any mix of species that results in a medium stocked stand.											
<u>Regen:</u>											
<u>Other</u> Be sure to protect the ORV trail during harvesting operations using retention and BMPs. Old next step comments:											
<u>Comment:</u>											
<u>Proposed Start Date:</u> 10/01/2016											
29	52064029-Cut	20.0	42110 - Planted Red Pine	Poetimber Well	55	81-110	Harvest	Clearcut with Retention	4319 - Mixed Upland Forest	Even-Aged	Draft Field Boundary
Habitat Cut: No			Site Condition:								
<u>Prescription</u> Final harvest stand in conjunction with stand 28, focus retention pockets around regenerating aspen and hardwood from previous harvests.											
<u>Specs:</u>											
<u>Next Step</u>											
<u>Treatments:</u>											
<u>Acceptable</u> Any mix of species that results in a medium stocked stand.											
<u>Regen:</u>											
<u>Other</u> Be sure to protect the ORV trail during harvesting operations using retention and BMPs. Old next step comments:											
<u>Comment:</u>											
<u>Proposed Start Date:</u> 10/01/2016											
33	52064033-NF	33.6	3209 - Upland Shrub (OI)	Nonstocked		Unspecified	NonForestMgt	Other - Specify	310 - Herbaceous Openland		Draft Field Boundary
Habitat Cut: No			Site Condition:								
<u>Prescription</u> Burn, Mow, remove brush, to maintain open character.											
<u>Specs:</u>											
<u>Next Step</u>											
<u>Treatments:</u>											
<u>Acceptable</u>											
<u>Regen:</u>											
<u>Other</u> Part of Sand Lake Area management to provide large blocks of open land. Old next step comments:											
<u>Comment:</u>											
<u>Proposed Start Date:</u> 10/01/2016											



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
36	52064036-NF	35.1	3209 - Upland Shrub (OI)	Nonstocked		Unspec ified	NonForestMgt	Other - Specify	310 - Herbaceous Openland		Draft Field Boundary

Habitat Cut: No**Site Condition:**

Prescription Burn, Mow, remove brush, to maintain open character.

Specs:

Next Step

Treatments:

Acceptable

Regen:

Other Old next step comments:

Comment:

Proposed Start Date: 10/01/2016

37	52064037-Cut	21.6	42110 - Planted Red Pine	Sawtimber Well	60	171- 200	Harvest	Crown Thinning	4211 - Planted Red Pine	Even-Aged	Draft Field Boundary
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Habitat Cut: No**Site Condition:**

Prescription Thin Red Pine to 120 BA, do not cut any non Red Pine species unless they interfere with equipment operations.

Specs:

Next Step

Treatments:

Acceptable

Regen:

Other Old next step comments:

Comment:

Proposed Start Date: 10/01/2016

40	52064040-Cut	23.5	42110 - Planted Red Pine	Sawtimber Well	60	171- 200	Harvest	Crown Thinning	4211 - Planted Red Pine	Even-Aged	Draft Field Boundary
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Habitat Cut: No**Site Condition:**

Prescription Thin red pine to 120 BA, only remove non Red Pine species if they interfere with equipment access.

Specs:

Next Step

Treatments:

Acceptable Regen is not an objective of this treatment

Regen:

Other Old next step comments:

Comment:

Proposed Start Date: 10/01/2016

42	52064042-NF	10.3	3209 - Upland Shrub (OI)	Nonstocked		Unspec ified	NonForestMgt	Other - Specify	310 - Herbaceous Openland		Draft Field Boundary
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Habitat Cut: No**Site Condition:**

Prescription Burn, Mow, remove brush, to maintain open character.

Specs:

Next Step

Treatments:

Acceptable

Regen:

Other Old next step comments:

Comment:

Proposed Start Date: 10/01/2016



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
45	52064045-NF	33.2	3209 - Upland Shrub (OI)	Nonstocked		Unspec ified	NonForestMgt	Other - Specify	310 - Herbaceous Openland		Draft Field Boundary

Habitat Cut: No**Site Condition:**

Prescription Burn, Mow, remove brush, to maintain open character.

Specs:

Next Step

Treatments:

Acceptable

Regen:

Other Old next step comments:

Comment:

Proposed Start Date: 10/01/2016

62	52064062-Cut	24.2	42110 - Planted Red Pine	Sawtimber Well	60	201+	Harvest	Crown Thinning	4211 - Planted Red Pine	Even-Aged	Draft Field Boundary
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Habitat Cut: No**Site Condition:**

Prescription Thin Red Pine to 120 BA, do not cut any non Red Pine species unless they interfere with equipment access.

Specs:

Next Step

Treatments:

Acceptable

Regen:

Other Old next step comments:

Comment:

Proposed Start Date: 10/01/2016

63	52064063-NF	4.1	3209 - Upland Shrub (OI)	Nonstocked		Unspec ified	NonForestMgt	Other - Specify	310 - Herbaceous Openland		Draft Field Boundary
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Habitat Cut: No**Site Condition:**

Prescription Burn, Mow, remove brush, to maintain open character.

Specs:

Next Step

Treatments:

Acceptable

Regen:

Other Old next step comments:

Comment:

Proposed Start Date: 10/01/2016

64	52064064-CC	5.8	42110 - Planted Red Pine	Sawtimber Well	59	141- 170	Harvest	Clearcut with Retention	4211 - Planted Red Pine	Even-Aged	Draft Field Boundary
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Habitat Cut: No**Site Condition:**

Prescription Final harvest, standard retention.

Specs:

Next Step

Treatments: SitePrep, Trenching; Planting, Initial Plant; Monitoring, Artificial Regen(1yr); Monitoring, Artificial Regen(3yr)

Acceptable A well stocked red pine plantation with a minimum of 600 trees/acre.

Regen:

Other Old next step comments:

Comment:

Proposed Start Date: 10/01/2016



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	52064067-Cut	16.6	4130 - Aspen	Poletimber Medium	46	51-80	Harvest	Clearcut with Retention	4211 - Planted Red Pine	Even-Aged	Draft Field Boundary

Habitat Cut: No**Site Condition:**

Prescription Final harvest stand, follow standard retention guidelines.

Specs:

Next Step Treatments: Pesticide, Aerial; SitePrep, Roller Chopping; SitePrep, Trenching; Planting, Initial Plant; Monitoring, Artificial Regen(1yr)

Acceptable Regen: A well stocked red pine plantation with a minimum of 600 trees/acre.

Other Comment:

Old next step comments:

Proposed Start Date: 10/01/2016

72	52064072-Cut	6.1	42110 - Planted Red Pine	Sawtimber Well	59	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 Final harvest stand, standard retention.

Specs:

Next Step Treatments: SitePrep, Trenching; Planting, Initial Plant; Monitoring, Artificial Regen(1yr); Monitoring, Artificial Regen(3yr)

Acceptable Regen: A well stocked red pine plantation with a minimum of 600 trees/acre.

Other Comment:

Old next step comments:

Proposed Start Date: 10/01/2016

73	52064073-Cut	4.7	42121 - Planted Jack Pine, Mixed Deciduous	Sapling Well	16	Immatur re	Harvest	Clearcut	4211 - Planted Red Pine	Even-Aged	Draft Field Boundary
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Habitat Cut: No**Site Condition:**

Prescription Final harvest stand, no retention.

Specs:

Next Step Treatments: SitePrep, Roller Chopping; SitePrep, Trenching; Planting, Initial Plant; Monitoring, Artificial Regen(1yr); Monitoring, Artificial Regen(3yr)

Acceptable Regen: A well stocked red pine plantation with a minimum of 600 trees/acre.

Other Comment:

Old next step comments:

Proposed Start Date: 10/01/2016

74	52064074- Prep	16.3	3209 - Upland Shrub (OI)	Nonstocked		Unspec ified	SitePrep	Roller Chopping	4211 - Planted Red Pine	Even-Aged	Draft Field Boundary
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Habitat Cut: No**Site Condition:**

Prescription Prep site for hand planting operation.

Specs:

Next Step Treatments: SitePrep, Trenching; Planting, Initial Plant; Monitoring, Artificial Regen(1yr); Monitoring, Artificial Regen(3yr)

Acceptable Regen: A well stocked red pine plantation with a minimum of 600 trees/acre.

Other Comment:

Old next step comments:

Proposed Start Date: 10/01/2016



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
75	52064075-Cut	22.2	4130 - Aspen	Poletimber Well	49	51-80	Harvest	Clearcut with Retention	4211 - Planted Red Pine	Even-Aged	Draft Field Boundary

Habitat Cut: No

Site Condition:

Prescription Final harvest stand, standard retention.

Specs:

Next Step Treatments: Pesticide, Aerial; SitePrep, Roller Chopping; SitePrep, Trenching; Planting, Initial Plant; Monitoring, Artificial Regen(1yr)

Acceptable Regen: A well stocked red pine plantation with a minimum of 600 trees/acre.

Other Comment:

Old next step comments:

Proposed Start Date: 10/01/2016

78	52064078-Cut	36.3	42110 - Planted Red Pine	Sawtimber Well	55	171-200	Harvest	Crown Thinning	4211 - Planted Red Pine	Even-Aged	Draft Field Boundary
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Habitat Cut: No

Site Condition:

Prescription Stand should be marked to 120 BA in order to release red pine crowns

Specs:

Next Step Treatments:

Acceptable Regen: 2nd entry thinning, no regen objectives

Other Comment:

Old next step comments:

Proposed Start Date: 10/01/2016

81	52064081-Cut	6.8	4130 - Aspen	Sawtimber Well	70	81-110	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	Draft Field Boundary
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Habitat Cut: No

Site Condition:

Prescription Final Harvest Stand.

Specs:

Next Step Treatments:

Acceptable Regen: A mix of Aspen and deciduous species resulting in a fully stocked stand.

Other Comment:

Utilize the pocket of upland spruce/fir in the SE corner for retention. Old next step comments:

Proposed Start Date: 10/01/2016

82	52064082-Cut	75.7	4112 - Maple, Beech, Cherry Association	Poletimber Well	78	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 Clearcut stand, make sure to leave retention along the edges of the stand so as not to interfere with planting efforts.

Specs:

Next Step Treatments: SitePrep, Trenching; Planting, Initial Plant; Monitoring, Artificial Regen(1yr); Pesticide, Aerial; Monitoring, Artificial Regen(3yr)

Acceptable Regen: A fully stocked planted red pine stand with intermixed wildlife openings.

Other Comment:

We may decide to implement some managed wildlife openings within the planted red pine stand. Be sure to protect the ORV trail during harvesting operations. Also when the site is to be planted be sure not to trench or plant through the trail. Old next step comments:

Proposed Start Date: 10/01/2016



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
83	52064083-Cut	12.2	42110 - Planted Red Pine	Poletimber Well	55	111-140	Harvest	Clearcut	4211 - Planted Red Pine	Even-Aged	Draft Field Boundary

Habitat Cut: No**Site Condition:**

Prescription Clearcut stand, no retention due to stand size.

Specs:

Next Step Treatments: SitePrep, Trenching; Planting, Initial Plant; Monitoring, Artificial Regen(1yr); Pesticide, Aerial; Monitoring, Artificial Regen(3yr)

Acceptable Regen: A fully stocked planted red pine stand with some intermixed managed wildlife openings.

Other Comment: After the harvest, we may decide to implement some intermixed wildlife openings in the red pine stand. Old next step comments:

Proposed Start Date: 10/01/2016

86	52064086-Cut	77.0	4112 - Maple, Beech, Cherry Association	Poletimber Well	70	111-140	Harvest	Strip/Patch/Gap Cut (Femelschlag)	411 - Northern Hardwood	Uneven-Aged	Draft Field Boundary
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Habitat Cut: No**Site Condition:**

Prescription Mark out strips a chain wide crossing the stand. Target 30 percent of the stand canopy to harvest. Strips can be started on the east side of the stand either from the 2 track or the two gas wells located there. Cut everything 2 inches and up in those strips.

Specs:

Next Step Treatments:

Acceptable Regen: A mix of deciduous species that mimic the composition of the overstory.

Regen:

Other Comment: Be sure to protect the ORV trail during harvest operations. Old next step comments:

Comment:

Proposed Start Date: 10/01/2016

87	52064087-Cut	6.6	4130 - Aspen	Sawtimber Well	71	81-110	Harvest	Clearcut	413 - Aspen	Even-Aged	Draft Field Boundary
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Habitat Cut: No**Site Condition:**

Prescription Final harvest stand

Specs:

Next Step Treatments:

Acceptable Regen: Any mix of deciduous species that results in a fully stocked aspen dominated stand

Regen:

Other Comment: No retention due to small stand size. Be sure to protect the ORV Trail during harvest operations. Old next step comments:

Comment:

Proposed Start Date: 10/01/2016

88	52064088-Cut	37.5	4112 - Maple, Beech, Cherry Association	Poletimber Well	76	81-110	Harvest	Clearcut with Retention	4199 - Other Mixed Upland Deciduous	Even-Aged	Draft Field Boundary
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Habitat Cut: No**Site Condition:**

Prescription Final harvest this stand. Leave a buffer of at least a 1/2 chain around the edge of the stand to prevent aspen encroachment from the surrounding stands. Be sure to leave the appropriate buffer around the MNFI hit next to the gas well. Utilize retention to save some of the scattered non merchantable yellow birch. Drop a variety of species as nurse logs on the edges of these retention pockets.

Specs:

Next Step Treatments:

Acceptable Regen: Any mix of deciduous species that results in a medium stocked stand.

Regen:

Other Comment: If the retention acreage ends up being greater than 10% of the stand acres that is acceptable. Old next step comments:

Comment:

Proposed Start Date: 10/01/2016



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
92	52064092-Cut	36.2	42110 - Planted Red Pine	Sawtimber Well	55	111-140	Harvest	Clearcut with Retention	4211 - Planted Red Pine	Even-Aged	Draft Field Boundary

Habitat Cut: No**Site Condition:**

Prescription Clearcut stand, make sure to leave retention around the edge of the stand so as not to interfere with planting efforts.

Specs:

Next Step Treatments: SitePrep, Trenching; Planting, Initial Plant; Monitoring, Artificial Regen(1yr); Pesticide, Aerial; Monitoring, Artificial Regen(3yr)

Acceptable Regen: A fully stocked red pine stand with intermixed wildlife openings.

Other Comment:

Wildlife openings may be intermixed throughout the red pine stand. Old next step comments:

Proposed Start Date: 10/01/2016

97	52064097-Cut	38.3	4112 - Maple, Beech, Cherry Association	Sawtimber Well	72	81-110	Harvest	Single Tree Selection	4116 - Mixed N. Hardwood - Aspen	Uneven-Aged	Draft Field Boundary
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Habitat Cut: No**Site Condition:**

Prescription Mark to thin stand to roughly 80 BA. Establish regen gaps where appropriate. Harvest all beech except 1-2 per acre marked to leave for mast production. In areas heavy to aspen mark out all trees in order to promote some viable aspen regen.

Specs:

Next Step Treatments:

Acceptable Regen: A mix of deciduous species that result in a well stocked stand similar to the parent stand

Other Comment:

If aspen regen gaps are big enough, perhaps planting some larger oak stock would be a viable option. Old next step comments:

Proposed Start Date: 10/01/2016

97	52064097-Cutx	25.2	4112 - Maple, Beech, Cherry Association	Sawtimber Well	72	81-110	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	Draft Field Boundary
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Habitat Cut: No**Site Condition:**

Prescription Clear cut area. Focus retention around pockets of beech in order to provide some hard mast production. Expand the borders of the harvest where feasible into the adjacent stand 92 in order to promote aspen.

Specs:

Next Step Treatments:

Acceptable Regen: Any mix of deciduous species that results in a well stocked aspen dominated stand.

Other Comment:

Old next step comments:

Proposed Start Date: 10/01/2016

99	52064099-Cut	32.4	3209 - Upland Shrub (OI)	Nonstocked		Unspecified	Harvest	Clearcut with Retention	4211 - Planted Red Pine	Even-Aged	Draft Field Boundary
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Habitat Cut: No**Site Condition:**

Prescription Final harvest, standard retention, be sure to use the 2 inch spec, stand is very poorly stocked.

Specs:

Next Step Treatments: Pesticide, Aerial; SitePrep, Roller Chopping; SitePrep, Trenching; Planting, Initial Plant; Monitoring, Artificial Regen(1yr)

Acceptable Regen: A well stocked red pine plantation with a minimum of 600 trees/acre.

Other Comment:

Cut and plant in conjunction with stand 106 to the west. Old next step comments:

Proposed Start Date: 10/01/2016



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
101	52064101-Cut	3.7	42110 - Planted Red Pine	Sapling Well	16	Immature	Harvest	Clearcut	4211 - Planted Red Pine	Even-Aged	Draft Field Boundary

Habitat Cut: No**Site Condition:**Prescription Final harvest, no retention.Specs:Next Step Treatments: SitePrep, Roller Chopping; SitePrep, Trenching; Planting, Initial Plant; Monitoring, Artificial Regen(1yr); Monitoring, Artificial Regen(3yr)Acceptable Regen: A well stocked red pine plantation with a minimum of 600 trees/acre.Regen:Other Comment: Old next step comments:Proposed Start Date: 10/01/2016

106	52064106-Cut	19.8	42110 - Planted Red Pine	Poletimber Well	55	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 Final harvest, concentrate retention in the oddly shaped finger that extends to the north.Specs:Next Step Treatments: Pesticide, Aerial; SitePrep, Roller Chopping; SitePrep, Trenching; Planting, Initial Plant; Monitoring, Artificial Regen(1yr)Acceptable Regen: A well stocked red pine plantation with a minimum of 600 trees/acre.Regen:Other Comment: Cut and plant in conjunction with stand 99 to the west. Old next step comments:Proposed Start Date: 10/01/2016

111	52064111-Cut	22.3	4111 - S.Maple, Hard Mast Association	Poletimber Well	76	81-110	Harvest	Clearcut with Retention	4211 - Planted Red Pine	Even-Aged	Draft Field Boundary
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Habitat Cut: No**Site Condition:**Prescription Clearcut stand, make sure to place retention along the edge of the stand so as not to interfere with post harvest site prep.Specs:Next Step Treatments: SitePrep, Roller Chopping; SitePrep, Trenching; Planting, Initial Plant; Monitoring, Artificial Regen(1yr); Pesticide, AerialAcceptable Regen: A fully stocked planted red pine stand with intermixed wildlife openings.Regen:Other Comment: Some wildlife openings should be intermixed within the planted red pine stand. Old next step comments:Proposed Start Date: 10/01/2016

121	52064121-NF	4.9	320 - Upland Shrub	Nonstocked		Unspecified	NonForestMgt	Other - Specify	310 - Herbaceous Openland		Draft Field Boundary
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Habitat Cut: No**Site Condition:**Prescription Burn, Mow, remove brush, to maintain open character.Specs:Next Step Treatments:Acceptable Regen:Regen:Other Comment: Old next step comments:Comment:Proposed Start Date: 10/01/2016



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
130	52064130-Cut	8.1	4130 - Aspen	Sawtimber Well	70	81-110	Harvest	Clearcut	413 - Aspen	Even-Aged	Draft Field Boundary

Habitat Cut: No **Site Condition:**

Prescription Final harvest stand.

Specs:

Next Step

Treatments:

Acceptable Mix of aspen and deciduous species that results in a fully stocked stand.

Regen:

Other No retention due to small stand size. Old next step comments:

Comment:

Proposed Start Date: 10/01/2016

135	52064135-Cut	7.2	4111 - S.Maple, Hard Mast Association	Poletimber Well	72	111-140	Harvest	Crown Thinning	411 - Northern Hardwood	Uneven-Aged	Draft Field Boundary
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Habitat Cut: No **Site Condition:**

Prescription Mark out poor quality trees with a target residual BA of 80 BA. Cut all beech except those marked to leave for hard mast production.

Specs:

Next Step

Treatments:

Acceptable

Regen:

Other Will probably have to set up as multiple small fuelwood sales. Old next step comments:

Comment:

Proposed Start Date: 10/01/2016

Total Treatment Acreage Proposed: 1136.0

Report 5 – Site Conditions

Gaylord Mgt. Unit
Zach Crew : Examiner

Compartment: 64
Year of Entry: 2017

Availability for Management

Total Acres	Acres Available	Acres Avail		Dominant Site Conditions	5C	3J	5E
		With Condition	Not Available				
901	891	5	5	Aspen	5		5
43	43	0	0	Bare/Sparsely Vegetated			
11	11	0	0	Herbaceous Openland			
167	167	0	0	Jack Pine			
8	0	0	8	Lowland Shrub		8	
1219	849	371	0	Northern Hardwood	371		
29	29	0	0	Planted Mixed Pines			
963	963	0	0	Red Pine			
20	20	0	0	Upland Mixed Forest			
396	396	0	0	Upland Shrub			
46	46	0	0	White Pine			
3,804	3,415	375	13	Total Forested Acres	375	8	5
	90%	10%	0%	Relative Percent			

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

Site No.	Dominant Site Cond 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)	8	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
2	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	5	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 5 – Site Conditions

Gaylord Mgt. Unit
Zach Crew : Examiner

Compartment: 64
Year of Entry: 2017

3	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	173	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
4	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	198	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
5	Unavailable	5E: Long-Term Retention	5	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Mgt. Unit

Compartment: #Type!

Year of Entry:



Report 6 – 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 7 – 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	Riparian Area	A transitional area between aquatic and terrestrial ecosystems in which the terrestrial ecosystem influences the aquatic ecosystem and vice-versa. Because of the unique conditions adjacent to lakes, streams and open water wetlands, riparian areas harbor a high diversity of plants and wildlife. Riparian communities are ecologically and socially significant in their effects on water quality and quantity, as well as aesthetics, habitat, bank stability, timber production, and their contribution to overall biodiversity.
HCVA	Dedicated Management Areas	Such areas are dedicated by the DNR Director for specific management uses through the promulgation of rules, as governed by Part 5, Department of Natural Resources, of the NREPA (MCL 324.502(2) and 324.504). Section 38 of the Administrative Procedures Act (MCL 24.238) provides for public requests for the promulgation of rules. This is an active program, with one proposed site currently under review by the DNR.
HCVA	Natural Rivers	There are two Natural Rivers datasets which are derived from spatial buffers set from an established and approved distance from the river centerlines. The Natural Rivers Zoning District is a 400 foot buffer for most Natural Rivers. The Vegetative Buffer ranges from 25 to 100 feet. To view specific Zoning Districts and Vegetative Buffers for each Natural River see the table located on the I:\Documentation\GDSE data folder.



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
1	42110 - Planted Red Pine	Sawtimber Well	40.7	65	111-140	Good looking plantation, should be ready to thin next YOE. Thinned in 1998
2	4130 - Aspen	Poletimber Medium	32.3	46	51-80	West side of stand fully stocked A6
3	42110 - Planted Red Pine	Sawtimber Well	18.8	60	141-170	OPIC - FMD: Thinning completed in 1998 by removing every third row and intermixed species.
4	42120 - Planted Jack Pine	Sapling Well	18.9	16	Immature	Jack Pine planted in 2000.
6	42110 - Planted Red Pine	Sawtimber Well	20.1	60	171-200	Red pine thinned in 1998. Good form
7	42120 - Planted Jack Pine	Sapling Well	17.8	16	Immature	Jack Pine planted in 2000.
9	4130 - Aspen	Poletimber Medium	22.7	59	81-110	OPIC - FMD: Clones of Big Tooth & Quaking Aspen. A few scattered white pine. Inclusions of upland brush.
10	42110 - Planted Red Pine	Sawtimber Well	41.7	66	141-170	OPIC - FMD: RECOMMEND REMOVING JACK PINEDO NOT ROW THIN RED PINE SELECTION MARK. Thinning completed in 1998. Looks good with spacing & BA hold & re-evaluate in 5 years to determine if a thinning is needed.
12	42110 - Planted Red Pine	Poletimber Well	25.5	60	141-170	OPIC - FMD: Third row thinning completed in 1998, & species thinning released stand adequately. In 10 yrs. Consider marked thinning.
13	42120 - Planted Jack Pine	Sapling Well	17.5	16	Immature	Jack pine planted in 2000
15	42110 - Planted Red Pine	Sawtimber Well	41.6	60	111-140	OPIC - FMD: Red pine never thinned. Third row thinning prescribed & remove other intermixed species. 2008: Thinning completed.
17	4130 - Aspen	Poletimber Medium	33.7	45	51-80	OPIC - FMD: Low to moderately stocked aspen with upland brush inclusions.
18	4130 - Aspen	Poletimber Medium	40.4	61	51-80	Some nice clones of Big Tooth Aspen, mostly lower quality Quaking Aspen, wildlife shrubs noted in the understory
19	42110 - Planted Red Pine	Sawtimber Well	37.5	66	111-140	OPIC - FMD: Healthy red pine plantation developed into small logs & bolts. Third row thin red pine & species thin to remove the aspen & jack pine. 2008: Thinning completed.
20	42110 - Planted Red Pine	Poletimber Well	40.6	60	111-140	thinned in 2008, species other than red pine removed as well.
21	4319 - Mixed Upland Forest	Poletimber Medium	13.4	56	1-50	Open grown White Pine in the over story mixed with red maple and aspen.



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
22	42110 - Planted Red Pine	Sawtimber Well	144.7	60	171-200	OPIC - FMD: Thinning completed in 1997 by species thinning all aspen and hardwood & third row thinned. Crowns adequately released. Consider thinning in one decade. Note: A3 inclusions in southeast corner of stand & within stand not separately mapped out. More underbrush in the north half of the stand, rows are east/west
23	4130 - Aspen	Sapling Well	36.6	8	Immature	Harvested in 2008, fully stocked regen
25	4130 - Aspen	Poletimber Medium	15.9	47	51-80	OPIC - FMD: COMMERCIAL HARVEST 1969. Quaking aspen stand with snowmobile trail running through it and upland brush inclusions. Re-evaluate for commercial harvest next decade.
27	4130 - Aspen	Sapling Well	127.1	16	Immature	OPIC - FMD: 2000: When harvested, four patches of aspen /hardwood were left standing within this stand for age/class diversity. These have now been broken out as separate stands.
28	4112 - Maple, Beech, Cherry Association	Sawtimber Well	15.5	73	81-110	Poor Quality hardwood stand dominated by Red Maple, some trace sugar maple in the understory but according to KOTAR and neighboring forest types it doesn't appear as though that would become a dominant part of the stand.
29	42110 - Planted Red Pine	Poletimber Well	20.0	55	81-110	Red Pine stand, thinned in 2010, species thinned aspen and hardwood as well.
30	4130 - Aspen	Sapling Well	5.8	8	Immature	OPIC - FMD: Mature big tooth aspen stand prescribed for final harvest in combination with the thinning on adjacent stand 32. 2008: Harvest completed in May, 2008.
31	4130 - Aspen	Sapling Well	4.2	19	Immature	OPIC - FMD: Small aspen stand cut in 1997 creating dense aspen regeneration.
32	42110 - Planted Red Pine	Poletimber Well	37.5	60	111-140	OPIC - FMD: R6 with aspen inclusion. Third row thin & species thin to remove aspen and hardwood.
34	42110 - Planted Red Pine	Sawtimber Well	21.7	60	141-170	OPIC - FMD: Thinning completed in 1998 which released crowns adequately. Consider a marked thinning next decade.
35	42120 - Planted Jack Pine	Sapling Well	17.8	16	Immature	Jack pine planted in 2000
37	42110 - Planted Red Pine	Sawtimber Well	21.6	60	171-200	OPIC - FMD: Row thinned in 1999 & species thinned to remove jack pine, aspen, & mixed hardwood. Hold & re-evaluate in ten years for marked thinning.
38	42120 - Planted Jack Pine	Sapling Well	17.9	16	Immature	Jack pine planted in 2000
39	42101 - Planted White Pine, Mixed Deciduous	Sapling Well	38.8	17	Immature	White pine planted in 1999. Lots of Aspen and Black Cherry competition. Some of the aspen and black cherry look to have been left from when the stand was last harvested.



Stand	Gaylord Mgt. Unit		Report 8 – Forested Stands			Compartment: 64 Year of Entry: 2017	
	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:	
40	42110 - Planted Red Pine	Sawtimber Well	23.5	60	171-200	OPIC - FMD: Strips of red pine previously third row thinned & species thinned. Narrow strips adequately released. Consider marked thinning in 10 years.	
41	42121 - Planted Jack Pine, Mixed Deciduous	Sapling Well	17.0	16	Immature	Jack pine planted in 2000	
43	4130 - Aspen	Poletimber Well	29.9	46	51-80	Aspen stand of fair quality. Some juneberry and wildlife shrubs in the stand as well	
44	4130 - Aspen	Sapling Well	29.7	25	Immature	Fully stocked stand of aspen regen	
46	4130 - Aspen	Sapling Well	183.5	25	Immature	Aspen stand beginning to develop into a pole stand	
47	4130 - Aspen	Sapling Well	18.1	16	Immature	Final harvest completed in 2000, fully stocked aspen stand	
48	4130 - Aspen	Poletimber Well	82.4	44	81-110	Aspen pole/log stand, good stocking	
51	42110 - Planted Red Pine	Sawtimber Well	43.3	55	141-170	OPIC - FMD: Red pine plantation with variable density & aspen component. Species thin to remove aspen & hardwood. Consider marking out rows to remove to reduce overall red pine BA. Include seasonal restriction on cutting contract due to hawk siting nearby. 2008: Thinning complete	
53	42220 - Natural Jack Pine	Sapling Well	24.1	16	Immature	OPIC - FMD: Dense, young jack pine well established by natural regeneration due to logging equipment dragging the tops across the soil surface & scarifying the site. Says was a natural stand, but it looks planted in some parts	
54	4130 - Aspen	Poletimber Well	24.6	47	81-110	OPIC - FMD: COMMERCIAL HARVEST 1969. Young, healthy 36 year old aspen stand. Wildlife shrubs present	
55	42110 - Planted Red Pine	Poletimber Well	16.1	55	141-170	Third row thinned in 2010, red maple, aspen, black cherry removed from rows as well.	
56	4130 - Aspen	Poletimber Well	4.5	50	81-110	Aspen pole stand, good looking stand	
57	4130 - Aspen	Poletimber Well	5.0	65	81-110	OPIC - FMD: Mature aspen stand with quaking, big tooth aspen, and red maple. Management decision to create this island of aspen during adjacent harvest for age/class diversity.	
61	4311 - Pine, Aspen Mix	Poletimber Medium	7.0	53	51-80	Older white pine is open grown, dense saplings in the understory.	
62	42110 - Planted Red Pine	Sawtimber Well	24.2	60	201+	OPIC - FMD: Red pine strips thinned in 1999 by removing every third row and j.pine, aspen, and hardwood. Hold 1 decade.	



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
64	42110 - Planted Red Pine	Sawtimber Well	22.7	59	141-170	OPIC - FMD: Third row thinned in 1999 along with a species thinning. Prescribe marked thinning to reduce BA to 110, and release pine within the rows. HARVESTED IN 2010. Looks like the marked thinning did not remove too much BA. Still would be a good candidate to hold for 10 years.
65	42141 - Planted Mixed Pine, Mixed Deciduous	Sapling Well	29.3	16	Immature	Red Pine of planted origin, Jack pine naturally seeded in post harvest, Red pine not doing well, lots of aspen sprouts as well
67	4130 - Aspen	Poletimber Medium	16.6	46	51-80	patchy clones of aspen and red maple, low quality
68	42110 - Planted Red Pine	Poletimber Well	14.0	55	81-110	OPIC - FMD: Third row thin red pine for first thinning effort. HARVESTED IN 2010. Small for age, very low stocking in the south half of the stand, better in the north.
69	4130 - Aspen	Sapling Well	21.0	25	Immature	OPIC - FMD: Young aspen stand with some scattered upland brush within stand.
71	4111 - S.Maple, Hard Mast Association	Poletimber Well	253.2	88	51-80	Selection harvest completed in Dec.2011. Good Residual. Steep Terrain along the east edge of the stand.
72	42110 - Planted Red Pine	Sawtimber Well	23.0	59	111-140	lots of aspen/hdwd in stand due to species thinning when 3rd row thinned. very open and limby red pine
73	42121 - Planted Jack Pine, Mixed Deciduous	Sapling Well	18.3	16	Immature	Cut and replanted with a white pine/jack pine mix. White pine is not doing well.
75	4130 - Aspen	Poletimber Well	22.2	49	51-80	Low quality aspen stand
76	42110 - Planted Red Pine	Sawtimber Well	45.4	55	141-170	Red Pine thinned in 2010, BA still pretty high
77	42111 - Planted Red Pine, Mixed Deciduous	Poletimber Well	25.0	53	111-140	OPIC - FMD: Third row thin red pine plantation for first thinning effort. Remove red maple as long as damage doesn't occur due to any large topped clumps. More pure hardwood strips located in north part of stand that will species thinned out. HARVESTED IN 2010. Lots of RM and Aspen mixed into stand, RP BA ranges fro 80 to 170
78	42110 - Planted Red Pine	Sawtimber Well	36.3	55	171-200	Thinned in 98. Stocking is back high enough for a marked thinning. Rows easy to find.
81	4130 - Aspen	Sawtimber Well	6.8	70	81-110	Aspen stand, small inclusion of upland spruce/fir in the SE corner of stand adjacent to lowland (stand 79)
82	4112 - Maple, Beech, Cherry Association	Poletimber Well	75.7	78	111-140	OPIC - FMD: Predominantly red maple pole stand with intermixed sugar maple, b.cherry. Lower BA, can be held. Lower priority to thin.



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
83	42110 - Planted Red Pine	Poletimber Well	12.2	55	111-140	OPIC - FMD: Red pine plantation. Prescribe a third row thinning. Narrow access trail leading to pine. HARVESTED IN 2010.
84	4112 - Maple, Beech, Cherry Association	Poletimber Well	4.0	75	81-110	Northern hardwood stand left during adjacent final harvest. Mix of sugar maple, red maple, and big tooth aspen on outside edges of stand. In southwest part of stand is an A5,M4 clone left for diversity during final harvest of stand 27.
85	4130 - Aspen	Sapling Well	8.4	5	Immature	OPIC - FMD: Final harvest completed in Dec. 2011.
86	4112 - Maple, Beech, Cherry Association	Poletimber Well	274.9	70	111-140	Mostly fair quality red maple, some trace clones of aspen as well. Quality of the stand improves as you move uphill to the west, this is where you start finding more sugar maple.
87	4130 - Aspen	Sawtimber Well	6.6	71	81-110	OPIC - FMD: Mature aspen stand with quaking, big tooth aspen, and red maple. Management decision to create this island of aspen during adjacent harvest for age/class diversity.
88	4112 - Maple, Beech, Cherry Association	Poletimber Well	37.5	76	81-110	Clumpy Sugar Maple and Red Maple, more single stems in the south of stand. Good looking basswood and yellow birch. Some MIFI hits in the area.
90	42110 - Planted Red Pine	Sawtimber Well	22.4	55	111-140	OPIC - FMD: ROW THIN EVERY THIRD ROW & SPECIES THIN TO REMOVE MIXED HARDWOOD in 1998. Prescribe a marked thinning to reduce the red pine BA & remove mixed hardwood. HARVESTED IN 2010.
92	42110 - Planted Red Pine	Sawtimber Well	36.2	55	111-140	OPIC - FMD: Red pine plantation with good survival. Third row thin. Rows are generally easy to follow, but some might require marking to reduce BA to 120. Some porcupine damage. Note: Frost pocket with small openings within plantation. HARVESTED IN 2010.
95	42110 - Planted Red Pine	Sawtimber Well	68.3	65	111-140	OPIC - FMD: Third row thinning completed in 1997 on 62 acres. Marked thinning needed currently. HARVESTED IN 2010.
96	4110 - Sugar Maple Association	Poletimber Well	110.4	73	81-110	Hardwood selectively thinned in 1991. Slow response to release but still fair quality trees mostly of pole timber size. Hold for another 10 years.
97	4112 - Maple, Beech, Cherry Association	Sawtimber Well	63.6	72	81-110	Northern hardwood polestand with component of 12-14" beech & red maple. O.K. logging access from the gas well site, stand 94.
100	4130 - Aspen	Sapling Well	16.4	16	Immature	Final harvest completed in 2000.
101	42110 - Planted Red Pine	Sapling Well	18.1	16	Immature	White pine planted in 2000, some Jack Pine and Quaking Aspen due to natural seeding.



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
103	4130 - Aspen	Sapling Well	16.4	6	Immature	OPIC - FMD: Mature aspen and limby open grown hardwood on rolling terrain. Final harvest prescribed to promote regeneration of mature stand. HARVESTED IN 2010.
104	4130 - Aspen	Sapling Well	14.0	16	Immature	Final harvest completed in 2000. Young aspen regeneration with heavy hardwood stump sprouting also.
106	42110 - Planted Red Pine	Poletimber Well	19.8	55	111-140	OPIC - FMD: Red pine plantation that would benefit from a first time thinning. Remove 25% either by cutting every fourth row or marking stand. Small inclusion in southwest corner of stand will not need to be thinned (R5). HARVESTED IN 2010.
110	4111 - S.Maple, Hard Mast Association	Poletimber Well	98.4	78	51-80	OPIC - FMD: Northern hardwood polestand with basswood logs 12-16" d.b.h. Workable terrain with access from the north. Selection harvest completed in Dec.2011. AVG BA = 73
111	4111 - S.Maple, Hard Mast Association	Poletimber Well	106.1	76	81-110	Northern hardwood of open grown, limby quality on rolling to hilly terrain. Thinning not needed currently. Basswood log component with commercial value. Noticed 2 oak trees during inventory of stand.
112	4130 - Aspen	Sapling Well	41.1	25	Immature	Fully Stocked A3 stand, merged old OI stand 60 and 112
113	4130 - Aspen	Sapling Well	4.2	8	Immature	OPIC - FMD: Mature big tooth aspen stand prescribed for final harvest in combination with the thinning on adjacent stand 20. 2008: Harvest completed in May, 2008.
125	4130 - Aspen	Sapling Well	22.4	25	Immature	Fully stocked aspen stand
130	4130 - Aspen	Sawtimber Well	8.1	70	81-110	Aspen stand similar to stand 81, separated by stand 416 and stand 78.
132	42200 - Natural White Pine	Poletimber Well	7.7	57	51-80	Natural white pine stand, older trees are open grown but dense sapling development
133	42121 - Planted Jack Pine, Mixed Deciduous	Sapling Well	18.1	16	Immature	Jack pine planted in 2000
135	4111 - S.Maple, Hard Mast Association	Poletimber Well	180.2	72	111-140	Hilly terrain with M6 poletimber. Hold & let grow at present density. Merged with stand 70 to the east. Some nice stems in places.



Stand	Cover Type	Acres	Managed Site	General Comments:
5	3209 - Upland Shrub (OI)	36.2	No	OPIC - FMD: Upland brush with scattered non-merchantable cherry. Minor component of small aspen clone saplings developing. Proposed planting of white and red pine seedlings in this stand to restore native pine. Also, within 5 yrs. after pine planting, plant acorns
8	3209 - Upland Shrub (OI)	6.1	No	OPIC - FMD: Upland brush with scattered cherry of non-merchantable open grown form. A4, A1.
11	3209 - Upland Shrub (OI)	35.2	No	OPIC - FMD: Upland brush with small inclusions of low quality 1 stick aspen clones.
14	3209 - Upland Shrub (OI)	32.8	No	OPIC - FMD: Upland brush. White pine stump land with some scrub black cherry & A2 developing. Experimented with a prescribed burn that promoted sedge growth, so no further white pine seeding was done.
16	3209 - Upland Shrub (OI)	3.0	No	OPIC - FMD: Upland brush with cherry & young aspen developing. White pine stump remnants.
24	790 - Other Bare/Sparsely Vegetate	1.0	No	Gaswell
26	3209 - Upland Shrub (OI)	12.1	No	OPIC - FMD: Upland brush with scattered cherry of non-merchantable open grown form.
33	3209 - Upland Shrub (OI)	33.6	No	OPIC - FMD: Upland brush with scattered cherry and aspen developing. Experimented with a prescribe burn that promoted sedge growth making it difficult to proceed with any pine seeding.
36	3209 - Upland Shrub (OI)	35.1	No	OPIC - FMD: Upland brush with scattered non-commercial black cherry & white pine. Small clones of aspen developing also. White pine dense in northeast corner.
42	3209 - Upland Shrub (OI)	10.3	No	OPIC - FMD: Upland brush with scattered cherry, jack pine, red maple, & aspen clones.
45	3209 - Upland Shrub (OI)	33.2	No	OPIC - FMD: Upland brush with scattered non-merchantable black cherry trees and some A1.
49	790 - Other Bare/Sparsely Vegetate	3.8	No	OPIC - FMD: GAS AND OIL FACILITY
50	31029 - Grass (OI)	3.4	No	OPIC - FMD: Open rolling terrain with a depression or bowl. Could have been glacier carved. White pine stump country. Keep open due to frost pocket.
52	3209 - Upland Shrub (OI)	18.2	No	OPIC - FMD: Upland brush with scattered small, young clones of quaking aspen, some J1, A1.
58	790 - Other Bare/Sparsely Vegetate	1.3	No	Gas Well Site



Stand	Cover Type	Acres	Managed Site	General Comments:
59	790 - Other Bare/Sparsely Vegetate	1.0	No	Gaswell
60	790 - Other Bare/Sparsely Vegetate	1.2	No	Gas Well Site
63	3209 - Upland Shrub (OI)	37.6	No	OPIC - FMD: Upland brush with non-commercial cherry & some quaking aspen clones. Proposed to plant white pine & red pine seedlings to restore native species. Also, within 5 yrs. after the pine planting, plant acorns throughout.
66	3209 - Upland Shrub (OI)	21.7	No	OPIC - FMD: Upland brush with scattered non-merchantable cherry & some young aspen clones developing.
74	3209 - Upland Shrub (OI)	16.4	No	OPIC - FMD: Upland brush with scattered non-merchantable cherry.
79	6299 - Lowland Shrub (OI)	8.4	No	OPIC - FMD: Tag alder, wild raisin, viburnum.
80	790 - Other Bare/Sparsely Vegetate	1.0	No	
89	790 - Other Bare/Sparsely Vegetate	1.8	No	Gaswell site.
91	320 - Upland Shrub	12.7	No	Grassy opening, some orv trails throughout
94	790 - Other Bare/Sparsely Vegetate	2.2	No	Gas well site
99	3209 - Upland Shrub (OI)	32.4	No	OPIC - FMD: Upland brush with open, grassy areas and small clones of A3, A5. Minor scattered species include jack pine, white pine, cherry.
102	3209 - Upland Shrub (OI)	1.1	No	OPIC - FMD: Upland brush in low depression with scattered aspen, cherry trees.
105	790 - Other Bare/Sparsely Vegetate	1.9	No	Gas Well Site looks abandoned
107	3209 - Upland Shrub (OI)	9.7	No	OPIC - FMD: Upland brush with scattered black cherry, aspen clones. Potential landing site.
108	3209 - Upland Shrub (OI)	3.7	No	OPIC - FMD: Upland brush with scattered cherry developing & minor component of jack pine, knap weed ground cover.
109	790 - Other Bare/Sparsely Vegetate	0.7	No	
115	790 - Other Bare/Sparsely Vegetate	1.5	No	Gas Well



Stand	Cover Type	Acres	Managed Site	General Comments:
116	790 - Other Bare/Sparsely Vegetate	1.2	No	
117	790 - Other Bare/Sparsely Vegetate	1.2	No	Gas Well Site
118	790 - Other Bare/Sparsely Vegetate	0.9	No	Gas Well Site
119	790 - Other Bare/Sparsely Vegetate	1.0	No	Gas Well
120	790 - Other Bare/Sparsely Vegetate	3.1	No	Gas well site
121	320 - Upland Shrub	4.9	No	
122	790 - Other Bare/Sparsely Vegetate	1.0	No	Gas Well Site
124	310 - Herbaceous Openland	3.0	No	OPIC - FMD: Northern hardwood polestand on steep hillside with variable density and more difficult access. Hold & re-evaluate next time.
126	790 - Other Bare/Sparsely Vegetate	1.0	No	Gas Well
127	790 - Other Bare/Sparsely Vegetate	1.3	No	Gas well site.
128	790 - Other Bare/Sparsely Vegetate	0.8	No	Gas Well Site
129	790 - Other Bare/Sparsely Vegetate	0.8	No	Gas Well Site
131	310 - Herbaceous Openland	1.5	No	
402	790 - Other Bare/Sparsely Vegetate	1.0	No	Gas well site.
403	790 - Other Bare/Sparsely Vegetate	1.0	No	Gas well site.
405	790 - Other Bare/Sparsely Vegetate	2.1	No	Gas well site.
407	790 - Other Bare/Sparsely Vegetate	1.2	No	Gas well site.
409	790 - Other Bare/Sparsely Vegetate	1.5	No	Gas well site.



Stand	Cover Type	Acres	Managed Site	General Comments:
410	790 - Other Bare/Sparsely Vegetate	1.0	No	Gas well site.
415	790 - Other Bare/Sparsely Vegetate	2.0	No	Gas well site.
416	790 - Other Bare/Sparsely Vegetate	2.1	No	Gas well site
417	790 - Other Bare/Sparsely Vegetate	0.7	No	Gas well Site
419	790 - Other Bare/Sparsely Vegetate	0.7	No	Gas well site.
450	31029 - Grass (OI)	2.7	No	Low, glacial formed frost pocket with scattered cherry. Possible future landing site when adjacent hardwood is thinned.