



Compartment Review Presentation

Gaylord Forest Management Unit

Compartment 52169

Entry Year 2017

Acreage: 1,946

County Cheboygan

Management Area: Cheboygan Lake Plain

Revision Date: 2015-08-03

Stand Examiner: Shannon Harig

Legal Description:

T34N R02W Sec. 4,5,6,8,9

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:

Soils in the north 1/2 of the compartment are primarily Grayling-Rubicon association while the south 1/2 leans more toward the Rubicon-Blue Lake association. Topography is rolling throughout the compartment.

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

State ownership in the compartment is fairly contiguous. Residential development is light in the areas adjacent to this compartment.

Unique Natural Features:

Potential for Alleghany Plum and Wood Turtle.

Archeological, Historical, and Cultural Features:

None known

Special Management Designations or Considerations:

None

Watershed and Fisheries Considerations:

This compartment contains the Little Sturgeon River, a high priority designated trout stream, and Crumley Creek. Best management practices should be followed to avoid erosion and sedimentation, and a buffer zone (no clear-cutting) should be provided to discourage early successional species such as aspen. The no-clear cut buffer next to Little Sturgeon River should be a minimum of 300 feet.

Wildlife Habitat Considerations:

Treatments in this compartment will maintain age class diversity in aspen and oak while creating early successional habitat benefiting deer, grouse, wild turkey and woodcock. Oak clumps and/or large crowned oak will be left where appropriate for hard mast. Openings are prescribed to be maintained and supplemented with hard and soft mast plantings benefiting deer, grouse, wild turkey, and woodcock.

Mineral Resource and Development Concerns and/or Restrictions

Surface sediments consist of ice-contact outwash sand and gravel, lacustrine sand and gravel, and dune sand. The glacial drift thickness varies between 10 and 200 feet. The Devonian Antrim Shale and Traverse Group subcrop below the glacial drift. The Traverse and Antrim are used for stone and cement products, and Afton Quarry is located two miles to the east. Gravel pits are located two miles to the south and there is good potential. The nearest significant oil and gas production, the Antrim Shale gas play, is located 12 miles to the south. The Antrim Shale is thin to missing in this area. Parcels in sections 5 and 6 are currently under lease for oil and gas development, but based on previous drilling done by Encana in this area, potential is limited.

Vehicle Access:

Good access to most of the compartment.

Survey Needs:

None

Recreational Facilities and Opportunities:

MCCCT runs through the compartment.

Fire Protection:

Additional Compartment Information:

The following reports from the Inventory are attached:

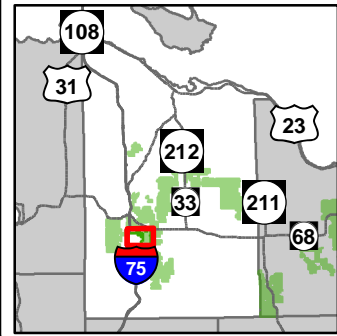
- Total Acres by Cover Type and Age Class
- Cover Type by Harvest Method
- Proposed Treatments – No Limiting Factors
- Proposed Treatments – With Limiting Factors
- Stand Details (Forested and Nonforested)
- Dedicated and Proposed Special Conservation Areas
- Site Condition Details

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

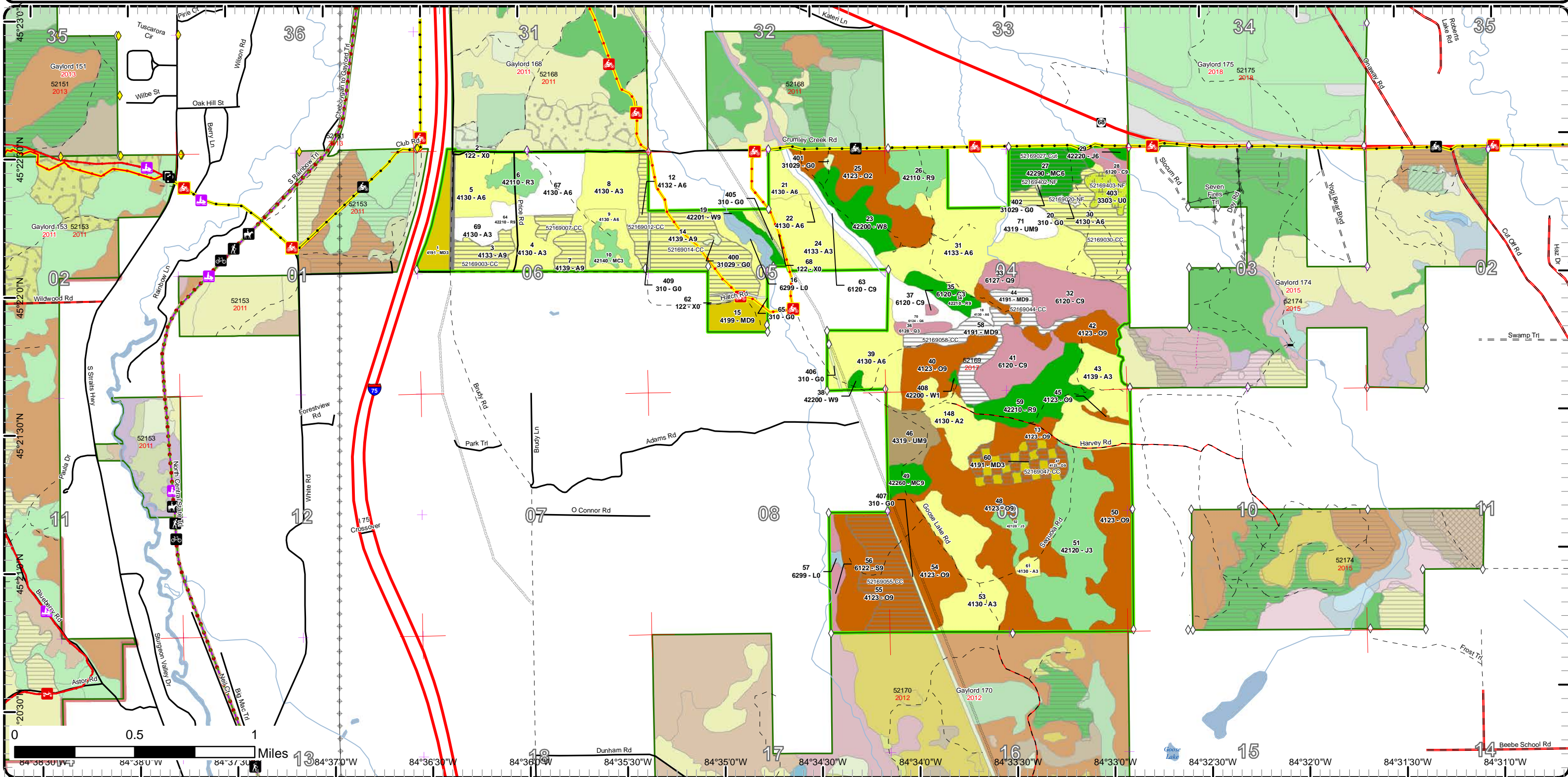
- Base feature information, stand boundaries, cover types, and numbers
- Proposed treatments
- Site condition boundaries
- Details on the road access system

Cover Type & Treatments Map

Compartment: 169
 T34N,R02W, Sec. 4-6, 8, 9
 County: Cheboygan
 Unit: Gaylord
 Mgmt Area: Cheboygan Lake Plain
 YOE: 2017
 Acres: 1946 GIS Calculated
 Examiner: Shannon Harig
 Map Revised: 3/24/2016
 Map Phase: Post-Review

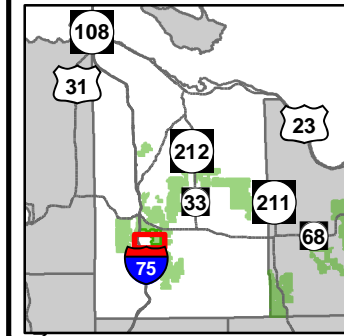


- Miris Corners
- + Remonumented Section Corners
- ◆ Survey Grade GPS Corners
- ◇ Field Grade GPS Corners
- Motorcycle Trails (SOS License)
- MCCCT Trails
- ORV License & Trail Permit
- ORV License
- Michigan Cross Country Cycle Trail (MCCCT)
- Highway
- Paved Roads
- County Gravel Roads
- Gravel Roads
- Poor Dirt Roads
- County Poor Dirt Roads
- - - Trail (Non-Recreation)
- Rivers
- Pipeline
- Powerline
- Compartment Boundary
- Clearcut (w/Reserves)
- Other Treatment - See Comments
- Forest Covertype
- 412 - Oak Types
- 413 - Aspen
- 419 - Mixed Upland Deciduous
- 421 - Planted Pines
- 422 - Natural Pines
- 430 - Upland Mixed Fores
- 612 - Lowland Coniferous Forest
- Non-Forest Covertype**
- 122 - Roads/Parking Lot
- 310 - Herbaceous Openland
- 330 - Low Density Trees
- 622 - Lowland Shrub
- Lakes

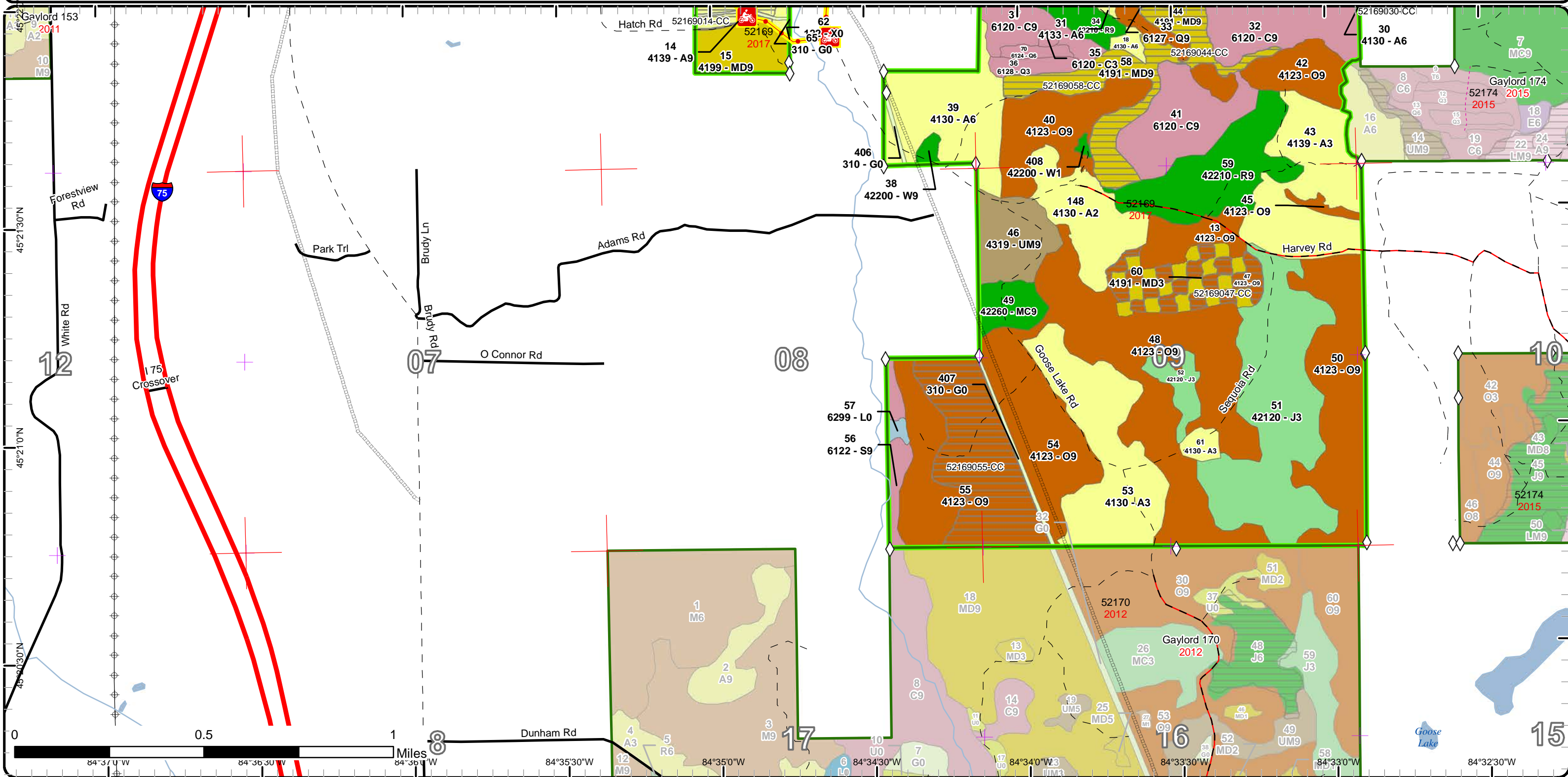


Cover Type & Treatments Map

Compartment: 169
 T38N,R03W, Sec. 1-4, 9-16
 County: Cheboygan
 Unit: Gaylord
 Mgmt Area: Cheboygan Lake Plain
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 Map Phase: Post-Review

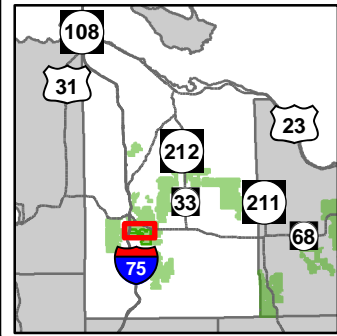


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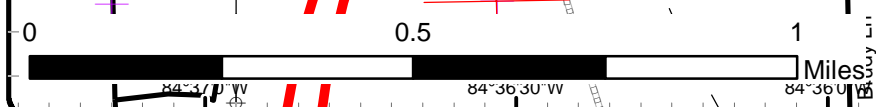
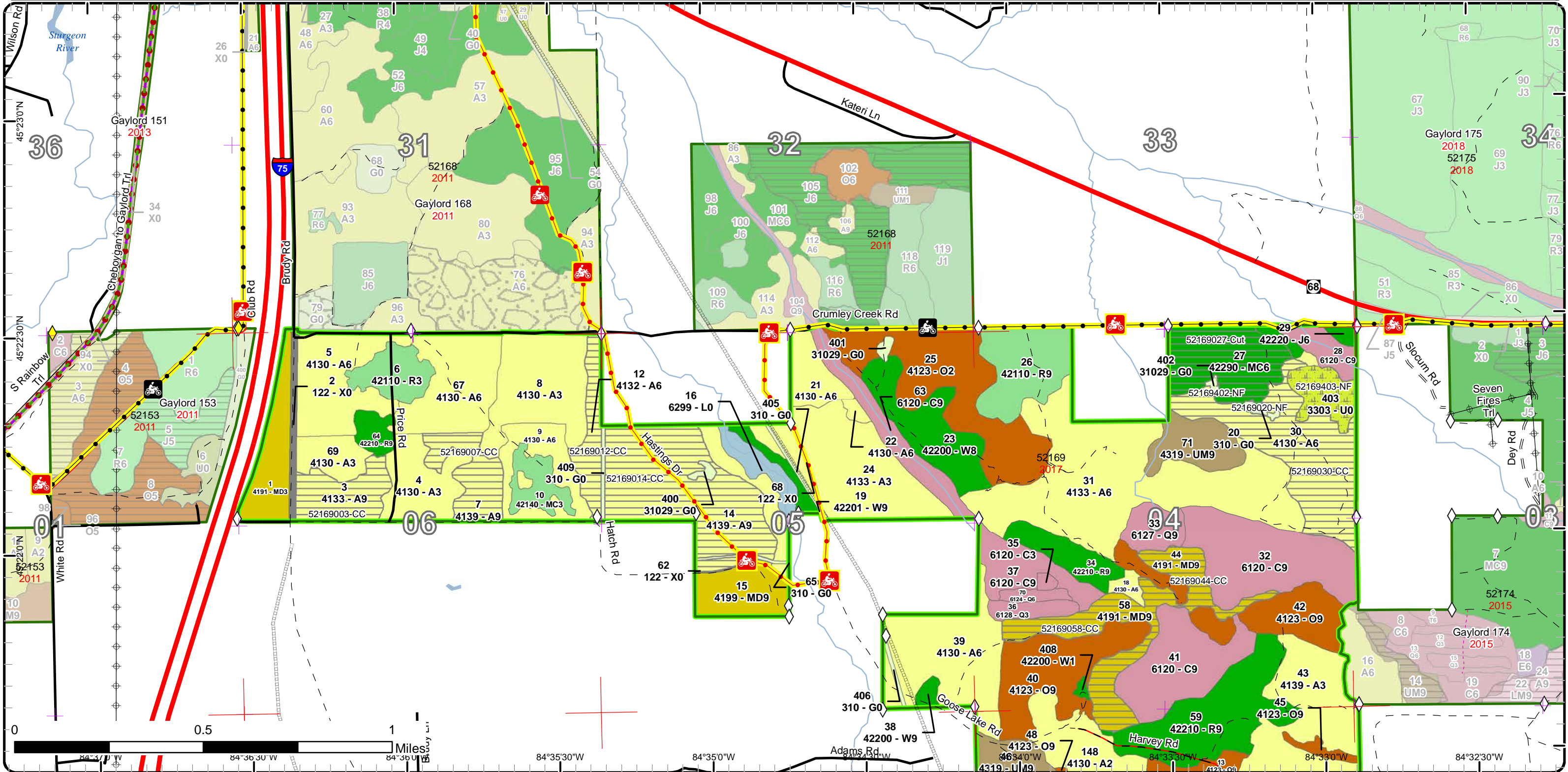


Cover Type & Treatments Map

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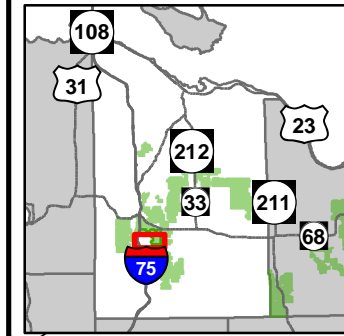


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|--|---|--|---|
| <ul style="list-style-type: none"> — Miris Corners — Remonumented Section Corners ◆ Survey Grade GPS Corners ◇ Field Grade GPS Corners 🏍 Motorcycle Trails (SOS License) 🏍 Motorcycle Trails (DNR License) 🏍 MCCCT Trails — Designated Hiking Trails — Designated Bicycle Trails ● Designated Equestrian Trails — ORV License & Trail Permit ● ORV License | <ul style="list-style-type: none"> — Designated Snowmobile Trails — Michigan Cross Country Cycle Trail (MCCCT) — Designated Railtrail — Highway — Paved Roads — County Gravel Roads — Gravel Roads — Poor Dirt Roads — County Poor Dirt Roads — Trail (Non-Recreation) — Rivers — Pipeline — Powerline — Compartment Boundary | <p>Treatments</p> <ul style="list-style-type: none"> ☐ Clearcut (w/Reserves) ☐ Other Treatment - See Comments <p>Forest Covertype</p> <ul style="list-style-type: none"> 412 - Oak Types 413 - Aspen 419 - Mixed Upland Deciduous 421 - Planted Pines 422 - Natural Pines 430 - Upland Mixed Fores 612 - Lowland Coniferous Forest <p>Non-Forest Covertype</p> <ul style="list-style-type: none"> 122 - Roads/Parking Lot 310 - Herbaceous Openland | <ul style="list-style-type: none"> 330 - Low Density Trees 622 - Lowland Shrub — Lakes |
|--|---|--|---|

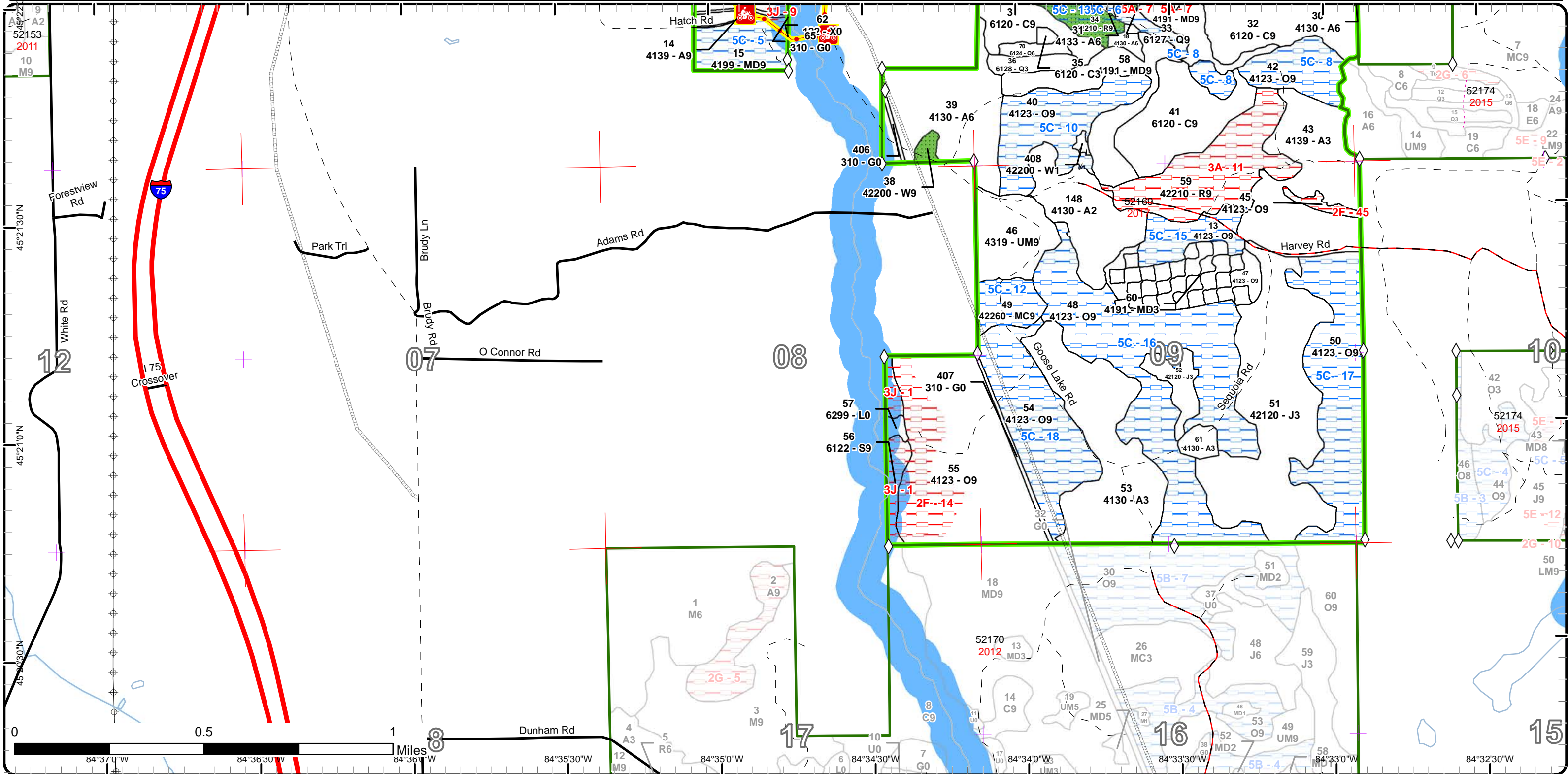


Special Conservation Areas & Site Conditions Map

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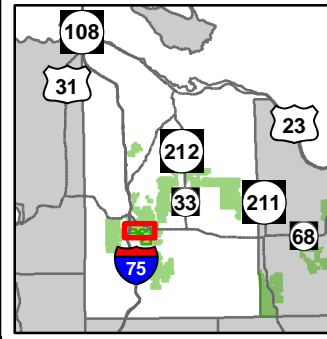


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- Rivers
- Pipeline
- ⊕ Powerline
- Compartment Boundary
- SCA
- Available w/ Constraints
- Unavailable
- 5C: Delay treatment for age/size class diversity or exceptional site quality
- 2F: Too steep
- 3A: Potential old growth / biodiversity
- 3J: Water quality / BMPs (stream, river, or lake)
- Stand Boundaries
- Special Conservation Areas
- Cold Water Streams
- High Priority Trout Stream Buffer
- Verified Type 1 Old Growth

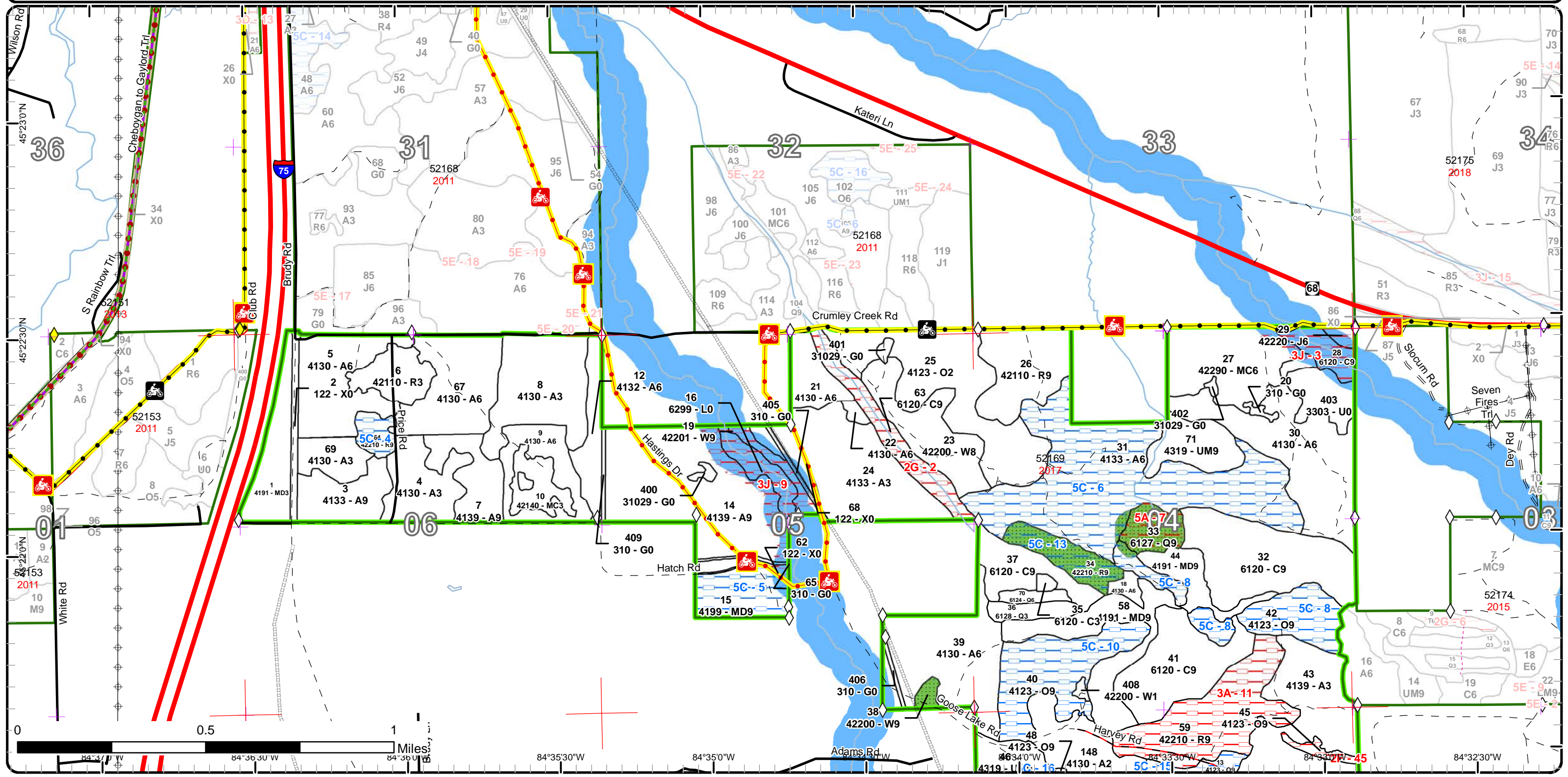


Special Conservation Areas & Site Conditions Map

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|--|---|---|--|





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	35	204	179	0	95	113	96	39	0	0	0	0	0	0	0	0	0	761
Cedar	0	0	0	1	0	0	0	0	0	0	10	0	19	51	57	0	0	0	138
Herbaceous Openland	14	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	14
Jack Pine	0	0	108	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	110
Low-Density Trees	13	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	13
Lowland Conifers	0	0	0	0	0	7	4	0	0	0	0	0	0	0	0	0	0	11	22
Lowland Shrub	12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	12
Lowland Spruce/Fir	0	0	0	0	0	0	0	0	0	0	0	11	0	0	0	0	0	0	11
Mixed Upland Deciduous	0	0	38	0	0	0	0	0	0	20	45	0	0	0	0	0	0	0	103
Natural Mixed Pines	0	0	0	0	0	37	0	0	0	0	0	0	0	0	0	0	0	13	50
Oak	0	59	0	0	0	0	0	0	0	0	236	199	0	0	0	0	0	0	494
Planted Mixed Pines	0	0	0	11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	11
Red Pine	0	0	0	15	0	0	31	0	0	0	0	0	48	15	0	0	7	0	116
Upland Mixed Forest	0	0	0	0	0	0	0	27	0	0	0	18	0	0	0	0	0	0	45
Urban	8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	8
White Pine	0	0	1	0	0	0	0	0	30	6	0	0	0	0	0	0	0	3	40
Total	47	94	351	206	0	139	150	123	69	26	291	228	67	66	57	0	7	27	1948



Report 2 – Treatment Summary

Gaylord Mgt. Unit

Compartment 169

Year of Entry:

Acres of Harvest

Total Compartment Acres: 1,946

Commercial Harvest - 341
 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	179	0	0	0	0	0	0	0	0	179
Mixed Upland Deciduous	45	0	0	0	0	0	0	0	0	45
Natural Mixed Pines	35	0	0	0	0	0	0	0	0	35
Oak	82	0	0	0	0	0	0	0	0	82
Total	341	0	0	0	0	0	0	0	0	341

Proposed and Next Step Treatments by Method

	Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current	341	0	0	0	0	0	0	15		356
Next Step	0	70	35	0	62	0	376	0	0	543
Total	341	70	35	0	62	0	376	0	15	899



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
3	52169003-CC	20.0	4133 - Aspen, Mixed Pine	Sawtimber Well	75	81-110	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	Draft Field Boundary

Habitat Cut: No**Site Condition:**

Prescription Clearcut to 2" DBH leaving retention in pocket(s). Leave oak.

Specs:

Next Step

Treatments:

Acceptable Minimum stocking level of aspen, red maple and jack pine.

Regen:

Other Old next step comments:

Comment:

Proposed Start Date: 10/01/2016

7	52169007-CC	19.1	4139 - Aspen, Mixed Deciduous	Sawtimber Well	74	111- 140	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	Draft Field Boundary
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Habitat Cut: No**Site Condition:**

Prescription Clearcut to 2" DBH, leaving retention in pocket(s). Leave oak.

Specs:

Next Step

Treatments:

Acceptable Minimum stocking level of aspen and red maple.

Regen:

Other Old next step comments:

Comment:

Proposed Start Date: 10/01/2016

12	52169012-CC	14.6	4132 - Aspen, Jack Pine	Polettimber Well	69	81-110	Harvest	Clearcut	413 - Aspen	Even-Aged	Draft Field Boundary
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Habitat Cut: No**Site Condition:**

Prescription Clearcut everything to 2" DBH. Mark a few large red pine to leave.

Specs:

Next Step

Treatments:

Acceptable Minimum stocking level of aspen and pine is acceptable.

Regen:

Other Old next step comments:

Comment:

Proposed Start Date: 10/01/2016

14	52169014-CC	69.2	4139 - Aspen, Mixed Deciduous	Sawtimber Well	69	81-110	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	Draft Field Boundary
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Habitat Cut: No**Site Condition:**

Prescription Clearcut to 2"DBH. Leave retention in pockets. Leave oak. Mark to leave some large red and white pine. Keep sale boundary 300' from stream due to High Priority Trout Stream SCA on the Little Sturgeon River corridor. Protect MCCCT trail during harvest operations.

Specs:

Next Step

Treatments:

Acceptable Minimum stocking of aspen, maple and pine.

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
20	52169020-NF	1.1	310 - Herbaceous Openland	Nonstocked	0	Unspec ified	NonForestMgt	Other - Specify	310 - Herbaceous Openland		Draft Field Boundary

Habitat Cut: No**Site Condition:**

Prescription Brush, mow, plant, burn and/or herbicide to maintain opening. Planting of hard and soft mast.

Specs:

Next Step

Treatments:

Acceptable

Regen:

Other Old next step comments:

Comment:

Proposed Start Date: 10/01/2016

27	52169027-Cut	35.1	42290 - Natural Mixed Pine	Poletimber Well	49	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 to 2" DBH. Leave retention in pockets. Re-plant to red pine. Interplant oak. Keep sale boundary 300' from stream due to High Priority

Specs: Trout Stream SCA on the Crumley Creek corridor.

Next Step SitePrep, Other - Specify; SitePrep, Trenching; Planting, Initial Plant; Monitoring, Artificial Regen(1yr); Monitoring, Artificial Regen(3yr)

Treatments:

Acceptable Minimum stocking level of red pine.

Regen:

Other Old next step comments:

Comment:

Proposed Start Date: 10/01/2016

30	52169030-CC	55.7	4130 - Aspen	Poletimber Well	49	81-110	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	Draft Field Boundary
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Habitat Cut: No**Site Condition:**

Prescription Clearcut to 2" DBH, leave retention in pocket(s). Leave oak. Keep sale boundary 300' from stream due to High Priority Trout Stream SCA on the

Specs: Crumley Creek corridor.

Next Step

Treatments:

Acceptable Minimum stocking of aspen and pine.

Regen:

Other Old next step comments:

Comment:

Proposed Start Date: 10/01/2016

44	52169044-CC	13.1	4191 - Mixed Upland Deciduous with Conifer	Sawtimber Well	99	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 Clearcut to 2" DBH, leave retention in pocket(s). Mark several large red and white pine per acre to leave.

Specs:

Next Step

Treatments:

Acceptable Minimum stocking of red maple, aspen, pine and balsam fir.

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
47	52169047-CC	20.1	4123 - Red Oak	Sawtimber Well	94	111-140	Harvest	Clearcut	412 - Oak Types	Even-Aged	Draft Field Boundary

Habitat Cut: No **Site Condition:**

Prescription Clearcut to 2" DBH, no retention.

Specs:

Next Step

Treatments:

Acceptable Minimum stocking of oak, red maple and pine.

Regen:

Other Old next step comments:

Comment:

Proposed Start Date: 10/01/2016

55	52169055-CC	62.1	4123 - Red Oak	Sawtimber Well	99	81-110	Harvest	Clearcut	4121 - Oak, Aspen	Even-Aged	Draft Field Boundary
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Habitat Cut: No **Site Condition:**

Prescription Clearcut to 2"DBH. Mark 1 to 2 clumps per 5 acres of 3 to 5 oak per clump. Leave a few large white pine. West part of stand on inoperable steep

Specs: slope can serve as retention. Tops must be chipped.

Next Step Monitoring, Natural Regen (Re-Inventory); Burn, Other

Treatments:

Acceptable Minimum stocking of oak, aspen and white pine.

Regen:

Other When doing the post harvest burn, leave 10% of the treatment area un-burned to act as a control. Orient this area east/west if possible. Old

Comment: next step comments:

Proposed Start Date: 10/01/2016

58	52169058-CC	31.6	4191 - Mixed Upland Deciduous with Conifer	Sawtimber Well	94	111-140	Harvest	Clearcut with Retention	4199 - Other Mixed Upland Deciduous	Even-Aged	Draft Field Boundary
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Habitat Cut: No **Site Condition:**

Prescription Clearcut to 2" DBH, leave retention in pocket(s). Mark several large red and white pine per acre to leave.

Specs:

Next Step

Treatments:

Acceptable Minimum stocking of red maple, aspen, pine and balsam fir.

Regen:

Other Old next step comments:

Comment:

Proposed Start Date: 10/01/2016

402	52169402-NF	0.7	31029 - Grass (OI)	Nonstocked		Unspec ified	NonForestMgt	Other - Specify	310 - Herbaceous Openland		Draft Field Boundary
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Habitat Cut: No **Site Condition:**

Prescription Brush, mow, plant and/or herbicide to maintain opening. Planting of hard and soft mast.

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
403	52169403-NF	13.1	3303 - Mixed Low Density Trees	Nonstocked		Unspec ified	NonForestMgt	Other - Specify	310 - Herbaceous Openland		Draft Field Boundary

Habitat Cut: No

Site Condition:

Prescription Brush, mow, plant, burn and/or herbicide to maintain opening. Planting of hard and soft mast.

Specs:

Next Step

Treatments:

Acceptable

Regen:

Other Old next step comments:

Comment:

Proposed Start Date: 10/01/2016

**Total Treatment
Acreage Proposed: 355.7**

Report 5 – Site Conditions

Gaylord Mgt. Unit
Shannon Harig : Examiner

Compartment: 169
Year of Entry: 2017

Availability for Management

Total Acres	Acres Available	Acres Avail		Dominant Site Conditions	Dominant Site Conditions					
		With Condition	Not Available		5C	2F	2G	3A	3J	5A
762	639	110	13	Aspen	110	0			13	
138	109	0	29	Cedar			19		10	
14	13	0	0	Herbaceous Openland					0	
110	108	0	2	Jack Pine					2	
13	13	0	0	Low-Density Trees					0	
21	10	0	11	Lowland Conifers						11
12	2	0	10	Lowland Shrub					10	
11	0	0	11	Lowland Spruce/Fir					11	
102	83	20	0	Mixed Upland Deciduous	20					
51	35	13	2	Natural Mixed Pines	13				2	
494	141	318	35	Oak	318	32			3	
11	11	0	0	Planted Mixed Pines						
115	46	21	48	Red Pine	21			48		
45	45	0	0	Upland Mixed Forest						
8	8	0	0	Urban					0	
39	34	0	6	White Pine					6	
1,946	1,296	482	168	Total Forested Acres	482	32	19	48	58	11
	67%	25%	9%	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)	14	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
2	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	19	3J: Water quality / BMPs (stream, river, or lake)	Unspecified	Unspecified	Unspecified
Comments:							

Report 5 – Site Conditions

Gaylord Mgt. Unit
Shannon Harig : Examiner

Compartment: 169
Year of Entry: 2017

3	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	16	2G: Too wet (sensitive soils, does not include access issues)	Unspecified	Unspecified	Unspecified
Comments:							
4	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	7	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
5	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	20	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
6	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	110	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
7	Unavailable	5A: Not able to obtain desirable regeneration	11	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
8	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	31	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 5 – Site Conditions

Gaylord Mgt. Unit
Shannon Harig : Examiner

Compartment: 169
Year of Entry: 2017

9	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	28	Unspecified	Unspecified	Unspecified	Unspecified
Comments: High Priority Trout Stream SCA							
10	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	39	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
11	Unavailable	3A: Potential old growth / biodiversity	48	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
12	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	13	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
13	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	15	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
14	Unavailable	2F: Too steep	29	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 5 – Site Conditions

Gaylord Mgt. Unit
Shannon Harig : Examiner

Compartment: 169
Year of Entry: 2017

15	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	17	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
16	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	114	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
17	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	66	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
18	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	51	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
45	Unavailable	2F: Too steep	3	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							



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
Big Red Pine Comments	Type 1 or Type 2 Old Growth	Verified Type 1 Old Growth Area	Proposed SCA	15
Big White Pine Comments	Type 1 or Type 2 Old Growth	Verified Type 1 Old Growth Area	Proposed SCA	3
Big White Pine w/ Spruce Comments Natural stand of large white pine.	Type 1 or Type 2 Old Growth	Verified Type 1 Old Growth Area	Proposed SCA	13



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 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.



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
1	4191 - Mixed Upland Deciduous with Conifer	Sapling Well	22.0	18	Immature	Red and White Oak are represented in all size classes from sapling up to large 20"+ DBH. Oak aspen and pine regeneration all look great.
3	4133 - Aspen, Mixed Pine	Sawtimber Well	20.0	75	81-110	Aspen is showing signs of decline.
4	4130 - Aspen	Sapling Well	24.0	18	Immature	Some scattered white and red oak. Aspen regeneration looks good.
5	4130 - Aspen	Poletimber Well	34.9	26	1-50	Regeneration looks great.
6	42110 - Planted Red Pine	Sapling Well	15.0	26	1-50	Mix of planted red pine and volunteer jack pine. PARVHa.
7	4139 - Aspen, Mixed Deciduous	Sawtimber Well	19.1	74	111-140	Aspen is showing signs of decline. A few large red pine and jack pine in the southern part of the stand.
8	4130 - Aspen	Sapling Well	41.8	19	Immature	A few small areas of sparse regeneration but overall the stand looks good.
9	4130 - Aspen	Poletimber Well	21.0	26	51-80	Regen looks good. Just moving into pole size stand.
10	42140 - Planted Mixed Pine	Sapling Well	11.3	26	1-50	Mix of planted red pine and volunteer jack pine.
12	4132 - Aspen, Jack Pine	Poletimber Well	14.6	69	81-110	Aspen and jack pine beginning to lose vigor.
13	4123 - Red Oak	Sawtimber Well	17.1	99	111-140	Looks healthy. On the side of a north facing slope.
14	4139 - Aspen, Mixed Deciduous	Sawtimber Well	81.0	69	81-110	A lot of the aspen is starting to lose vigor. A couple pockets of white pine understory.
15	4199 - Other Mixed Upland Deciduous	Sawtimber Well	19.5	84	81-110	Some scattered hemlock and large white and red pine.
18	4130 - Aspen	Poletimber Well	3.1	54	81-110	
19	42201 - Natural White Pine, Mixed Deciduous	Sawtimber Well	5.8	86	111-140	Some white pine regeneration. Oak looks good. A lot of this stand is on a steep west facing slope.
21	4130 - Aspen	Poletimber Well	13.3	28	1-50	In transition to pole stand.
22	4130 - Aspen	Poletimber Well	1.8	47	81-110	
23	42200 - Natural White Pine	Sawtimber Medium	30.0	73	1-50	Oak, aspen, red maple and jack pine are regenerating.



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
24	4133 - Aspen, Mixed Pine	Sapling Well	54.6	17	Immature	Regeneration looks good.
25	4123 - Red Oak	Sapling Medium	58.9	3	Immature	Good looking oak regeneration.
26	42110 - Planted Red Pine	Sawtimber Well	30.6	55	141-170	
27	42290 - Natural Mixed Pine	Poletimber Well	37.5	49	81-110	Aspen and jack pine are showing signs of decline. The red and white pine look good. PARVAa
28	6120 - Lowland Cedar	Sawtimber Well	9.8	98	111-140	Crumley Creek runs through this stand.
29	42220 - Natural Jack Pine	Poletimber Well	2.4	52	51-80	
30	4130 - Aspen	Poletimber Well	56.6	49	81-110	
31	4133 - Aspen, Mixed Pine	Poletimber Well	110.4	56	81-110	Multiple size classes of aspen though they are all roughly the same age.
32	6120 - Lowland Cedar	Sawtimber Well	50.7	124	201+	Healthy, nice looking stand.
33	6127 - Lowland Pine	Sawtimber Well	10.9	179	141-170	Natural stand composed primarily of large white pine. Cored a 20" WP, 154 yrs old. There were larger, apparently older trees that were too large to core with the borer I have.
34	42210 - Natural Red Pine	Sawtimber Well	14.6	121	171-200	Natural stand.
35	6120 - Lowland Cedar	Sapling Well	1.3	20	Immature	Very nice regeneration. Fully stocked.
36	6128 - Lowland Coniferous, Mixed Deciduous	Sapling Well	6.7	44	Immature	Fully stocked, healthy regeneration.
37	6120 - Lowland Cedar	Sawtimber Well	19.0	130	201+	Heavy CWD throughout stand. Looks Healthy.
38	42200 - Natural White Pine	Sawtimber Well	2.6	179	141-170	Nice natural stand of old white pine.
39	4130 - Aspen	Poletimber Well	50.4	28	51-80	Nice regeneration just moving into pole class.
40	4123 - Red Oak	Sawtimber Well	39.0	99	51-80	Red maple and aspen were removed from this stand approximately 14 years ago.
41	6120 - Lowland Cedar	Sawtimber Well	37.9	130	201+	Heavy CWD throughout stand. Looks healthy.



Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
4123 - Red Oak	Sawtimber Well	31.3	101	51-80	
4139 - Aspen, Mixed Deciduous	Sapling Well	59.5	27	1-50	Good looking, diverse regeneration.
4191 - Mixed Upland Deciduous with Conifer	Sawtimber Well	13.1	99	81-110	Transition between upland oak and cedar stand.
4123 - Red Oak	Sawtimber Well	3.2	101	111-140	Oak looks good. Very steep north facing slope.
4319 - Mixed Upland Forest	Sawtimber Well	27.0	63	81-110	Stand of large white pine, wet ion places.
4123 - Red Oak	Sawtimber Well	20.1	94	111-140	
4123 - Red Oak	Sawtimber Well	113.5	103	111-140	Stand looks healthy. White pine regen throughout stand as well as some oak regen. PARVHa.
42260 - Natural Pine, Mixed Deciduous	Sawtimber Well	13.1	122	111-140	Natural stand of large white pine.
4123 - Red Oak	Sawtimber Well	66.0	97	81-110	Some small oak regen. Stand looks healthy.
42120 - Planted Jack Pine	Sapling Well	97.5	16	Immature	OPIC - FMD: 2000-LEAVE DEAD WOOD AND SNAGS, SEEDED IN 1999, then followed up with a planting because of a failure in the seeding, hand planted 4/2000. 2004-Regen looks good.
42120 - Planted Jack Pine	Sapling Well	10.0	16	Immature	
4130 - Aspen	Sapling Well	67.0	16	1-50	Good regeneration, nice looking mixed stand.
4123 - Red Oak	Sawtimber Well	50.9	101	81-110	Stand looks healthy. Very nice white pine regen throughout stand. Hilly terrain. Long term MO is for pine/oak forest. PARVHa.
4123 - Red Oak	Sawtimber Well	94.0	99	81-110	Stand looks healthy. Very nice white pine regen throughout stand. Hilly terrain. Long term MO is for pine/oak forest. PARVHa.
6122 - Black Spruce	Sawtimber Well	10.8	107	81-110	Some coarse woody debris, looks pretty healthy.
4191 - Mixed Upland Deciduous with Conifer	Sawtimber Well	31.6	94	111-140	Transition stand between upland oak and swamp.
42210 - Natural Red Pine	Sawtimber Well	48.1	112	141-170	Soils are transition between Roscommon Muck and Rubicon sand. PARVCo/PARVHa.

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Gaylord Mgt. Unit

Report 8 – Forested Stands

Compartment: 169
Year of Entry: 2017

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
60	4191 - Mixed Upland Deciduous with Conifer	Sapling Well	15.9	18	1-50	Regenerating to mix of oak, red maple and pine.
61	4130 - Aspen	Sapling Well	4.8	18	Immature	
63	6120 - Lowland Cedar	Sawtimber Well	19.1	110	201+	Crumley Creek runs through this stand.
64	42210 - Natural Red Pine	Sawtimber Well	6.6	155	111-140	Nice natural stand of red pine and white pine.
67	4130 - Aspen	Poletimber Well	36.6	43	51-80	Regeneration looks great.
69	4130 - Aspen	Sapling Well	12.0	18	Immature	Some scattered white and red oak. Aspen regeneration looks good.
70	6124 - Lowland Spruce-Fir	Poletimber Well	3.7	57	141-170	
71	4319 - Mixed Upland Forest	Sawtimber Well	18.2	101	81-110	
148	4130 - Aspen	Sapling Medium	35.1	7	Immature	Decent regeneration, mostly aspen.
408	42200 - Natural White Pine	Sapling Poor	1.0	11	Immature	



Stand	Cover Type	Acres	Managed Site	General Comments:
2	122 - Road/Parking Lot	6.0	No	OPIC - FMD: Brudy Road and pipeline ROW
16	6299 - Lowland Shrub (OI)	10.2	No	Tag alder in the north end of the stand thins out to the south. Some standing dead cedar and fir. The south tip of the stand contains some red maple and balsam fir poles with a heavy balsam fir understory.
20	310 - Herbaceous Openland	1.1	No	Starting to fill in with cherry, red maple and pine.
57	6299 - Lowland Shrub (OI)	1.9	No	Tag alder.
62	122 - Road/Parking Lot	0.7	No	Hatch Road
65	310 - Herbaceous Openland	1.1	No	Powerline
68	122 - Road/Parking Lot	1.1	No	OPIC - FMD: 1995-LEAVE ALL OAK 2004-Good regen, some residual oak, red pine and white pine. PVCd.
400	31029 - Grass (OI)	1.3	No	OPIC - FMD: PARVHa.
401	31029 - Grass (OI)	1.2	No	OPIC - FMD: PARVHa.
402	31029 - Grass (OI)	0.7	No	Starting to fill in with a little pine.
403	3303 - Mixed Low Density Trees	13.1	No	Scattered cherry and white pine and clumps of maple and aspen.
405	310 - Herbaceous Openland	1.9	No	OPIC - FMD: 2004-Pipeline
406	310 - Herbaceous Openland	1.3	No	OPIC - FMD: 2004-Pipeline
407	310 - Herbaceous Openland	3.4	No	OPIC - FMD: 2004-Pipeline
409	310 - Herbaceous Openland	1.6	No	OPIC - FMD: Power line.