



Compartment Review Presentation

Gaylord Forest Management Unit

Compartment 52134

Entry Year 2017

Acreage: 1,522

County Emmet

Management Area: Mackinaw Lake Plain

Revision Date: 2015-08-26

Stand Examiner: Donald Stacks

Legal Description:

T38N R04W Sections 1-3, 10-12, and 15.

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:

Mostly East Lake, Kalkaska, and Au Gres sands and loams, and Tawas muck on flat topography.

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

Private residences exist in and around the compartment boundary. Numerous recreational resorts operate on Paradise Lake.

Unique Natural Features:

Potential occurrences include: Bald eagle, osprey, great blue heron rookery, Blanding's turtle, wood turtle, Hungerford's crawling water beetle, spotted pondweed, Torrey's bulrush, calypso orchid, Ram's head orchid, limestone oak fern, and Michigan monkey flower.

Archeological, Historical, and Cultural Features:

One archaeological site, 20EM55, is located within stand 11. The site is considered to be not significant, so we have no concerns.

Special Management Designations or Considerations:

None listed.

Watershed and Fisheries Considerations:

Both Dow Lake and the Carp Lake River are located within this compartment. Though none of the treatments proposed appear as though they will impact this area directly, these are small waterbodies that would be significantly impacted through the loss of riparian vegetation, so the appropriate BMP's should be followed

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. Oak will be left where appropriate for hard mast.

Mineral Resource and Development Concerns and/or Restrictions

Surface sediments consist of lacustrine sand and gravel. The glacial drift thickness varies between 100 and 400 feet. The Devonian Detroit River Group subgroups below the glacial drift. The Detroit River could be used for stone and is mined for salt in other parts of the state. A gravel pit is located in Section 11 and potential appears to be good. The nearest oil and gas production, the Antrim Shale gas play, is located 36 miles to the south. There is no known oil and gas potential in the area and not State land in the compartment is currently leased.

Vehicle Access:

Multiple county roads and forest trail roads provide access into the compartment.

Survey Needs:

None.

Recreational Facilities and Opportunities:

The Northwestern Trail, a designated snowmobile and ORV trail, runs through the compartment. Boating and fishing take place on Paradise Lake. Hunting occurs within the compartment.

Fire Protection:

Pellston Field Office is located approximately 11 miles to the south. Carp Lake VFD is located about 1 mile from much of the compartment in section 10.

Additional Compartment Information:

The following reports from the Inventory are attached:

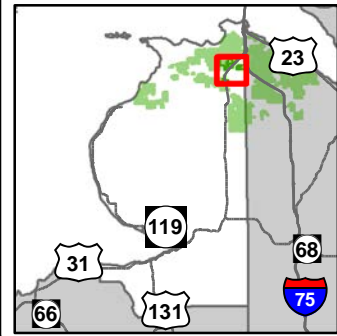
- Total Acres by Cover Type and Age Class**
- Cover Type by Harvest Method**
- Proposed Treatments – No Limiting Factors**
- Proposed Treatments – With Limiting Factors**
- Stand Details (Forested and Nonforested)**
- Dedicated and Proposed Special Conservation Areas**
- Site Condition Details**

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

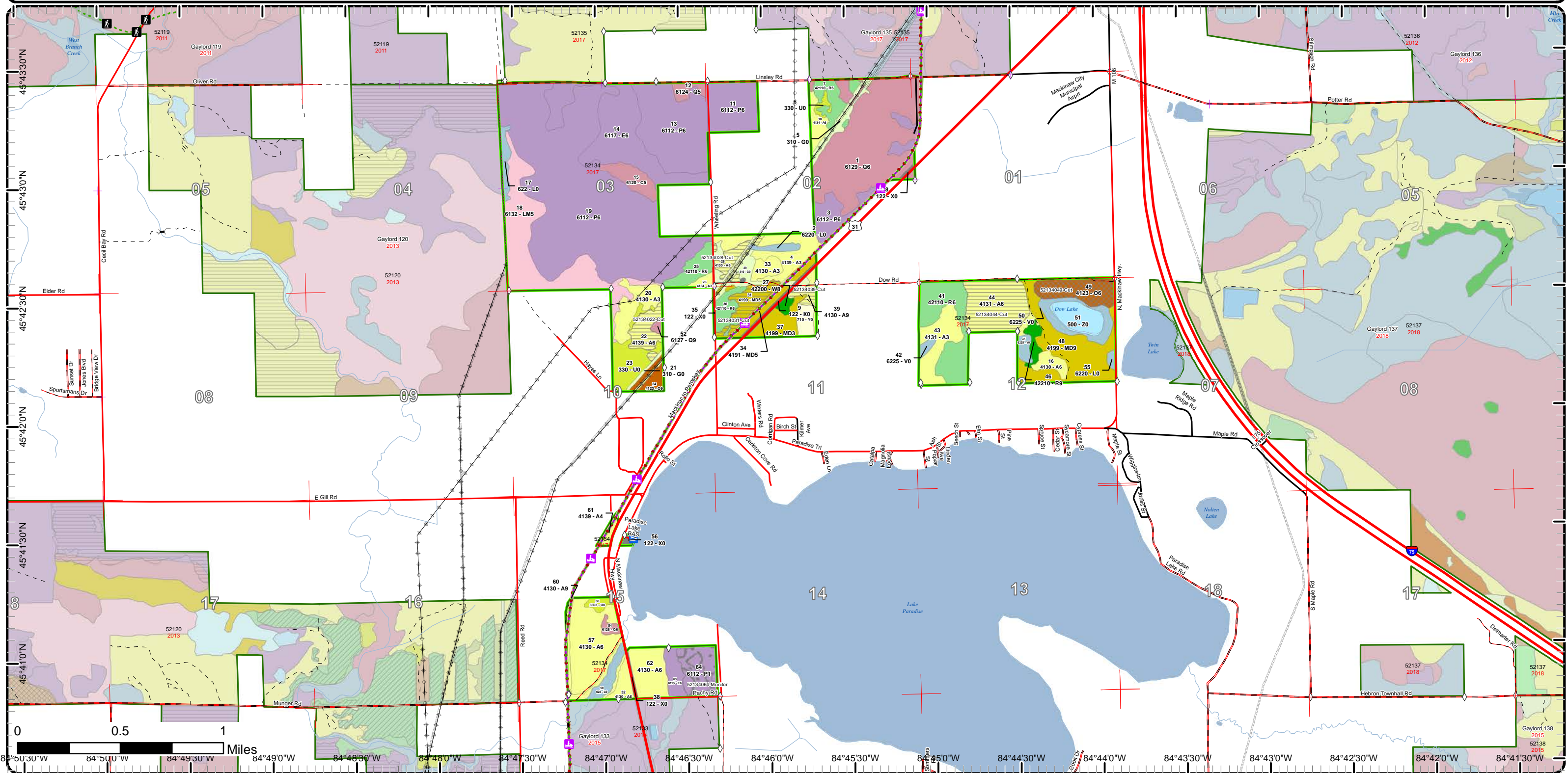
- Base feature information, stand boundaries, cover types, and numbers**
- Proposed treatments**
- Site condition boundaries**
- Details on the road access system**

Cover Type & Treatments Map

Compartment: 134
 T38N,R04W, Sec. 1-3, 10-12, 15
 County: Emmet
 Unit: Gaylord
 Mgmt Area: Mackinaw Lake Plain
 YOE: 2017
 Acres: 1522 GIS Calculated
 Examiner: Donald Stacks
 Map Revised: 3/24/2016
 Map Phase: Post-Review

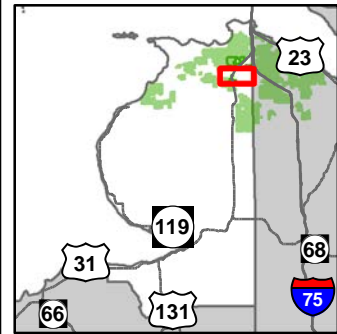


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|---|--|--|---|
| <ul style="list-style-type: none"> — Miris Corners — Remonumented Section Corners ◇ Field Grade GPS Corners 🛷 Snowmobile Trails — Designated Hiking Trails ● Designated Equestrian Trails — Designated Snowmobile Trails — Designated Railtrail 🌉 Bridges 🚤 Boating Access Site 🛣 Highway — County Paved Roads — Paved Roads | <ul style="list-style-type: none"> — County Gravel Roads — Poor Dirt Roads — County Poor Dirt Roads — Trail (Non-Recreation) — Rivers — Pipeline — Powerline — Compartment Boundary ☒ Selection (Group, Single Tree) ☐ Clearcut (w/Reserves) ☒ Regeneration Survey Forest Covertype — 412 - Oak Types | <ul style="list-style-type: none"> 413 - Aspen 419 - Mixed Upland Deciduous 421 - Planted Pines 422 - Natural Pines 611 - Lowland Deciduous Forest 612 - Lowland Coniferous Forest 613 - Lowland Mixed Forest Non-Forest Covertype 122 - Roads/Parking Lot 310 - Herbaceous Openland 330 - Low Density Trees 500 - Water 622 - Lowland Shrub 710 - Sand/Soil | <ul style="list-style-type: none"> — Lakes |
|---|--|--|---|

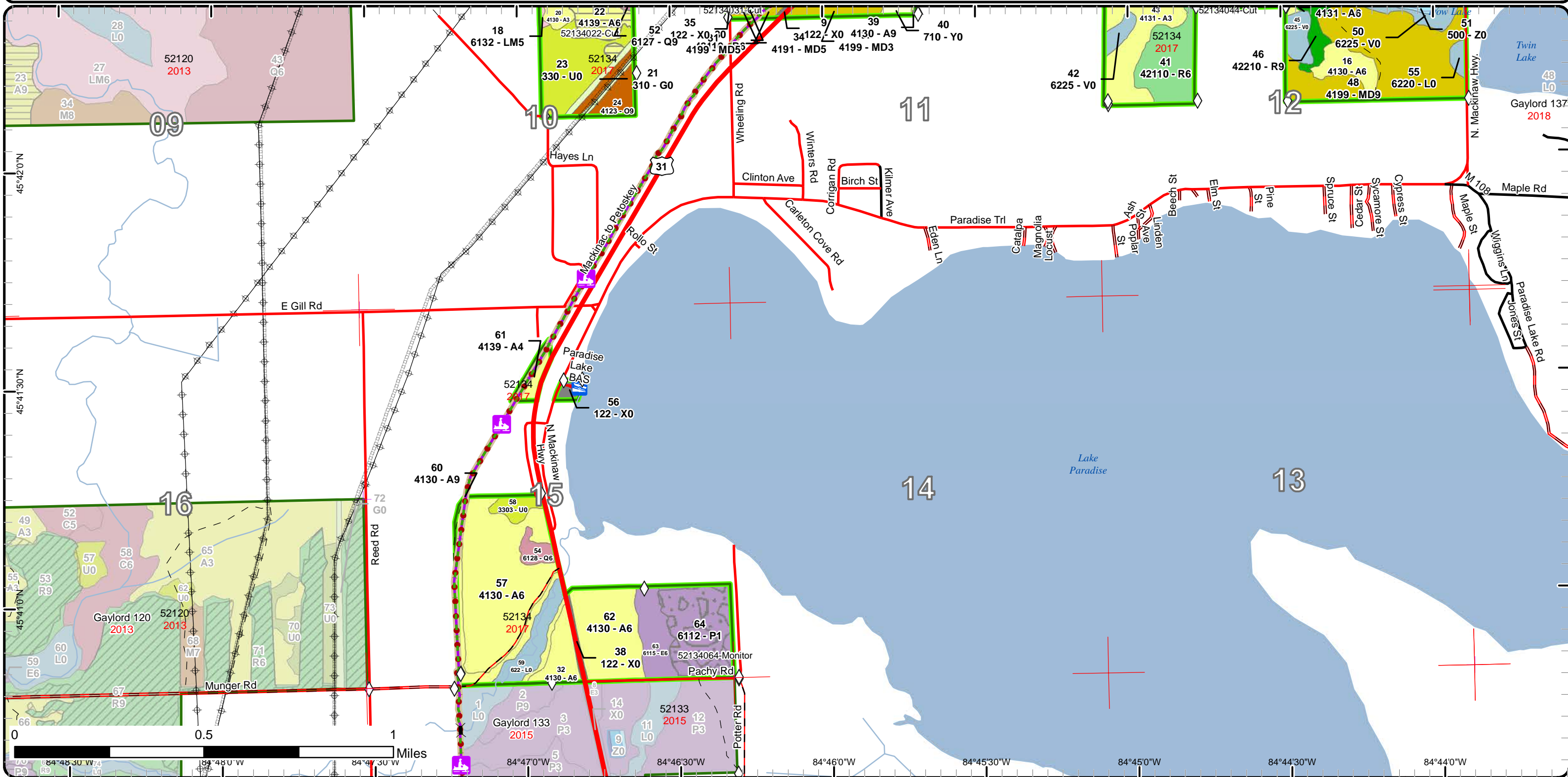


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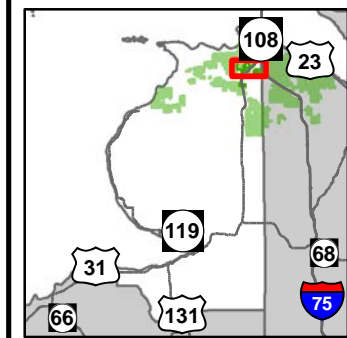


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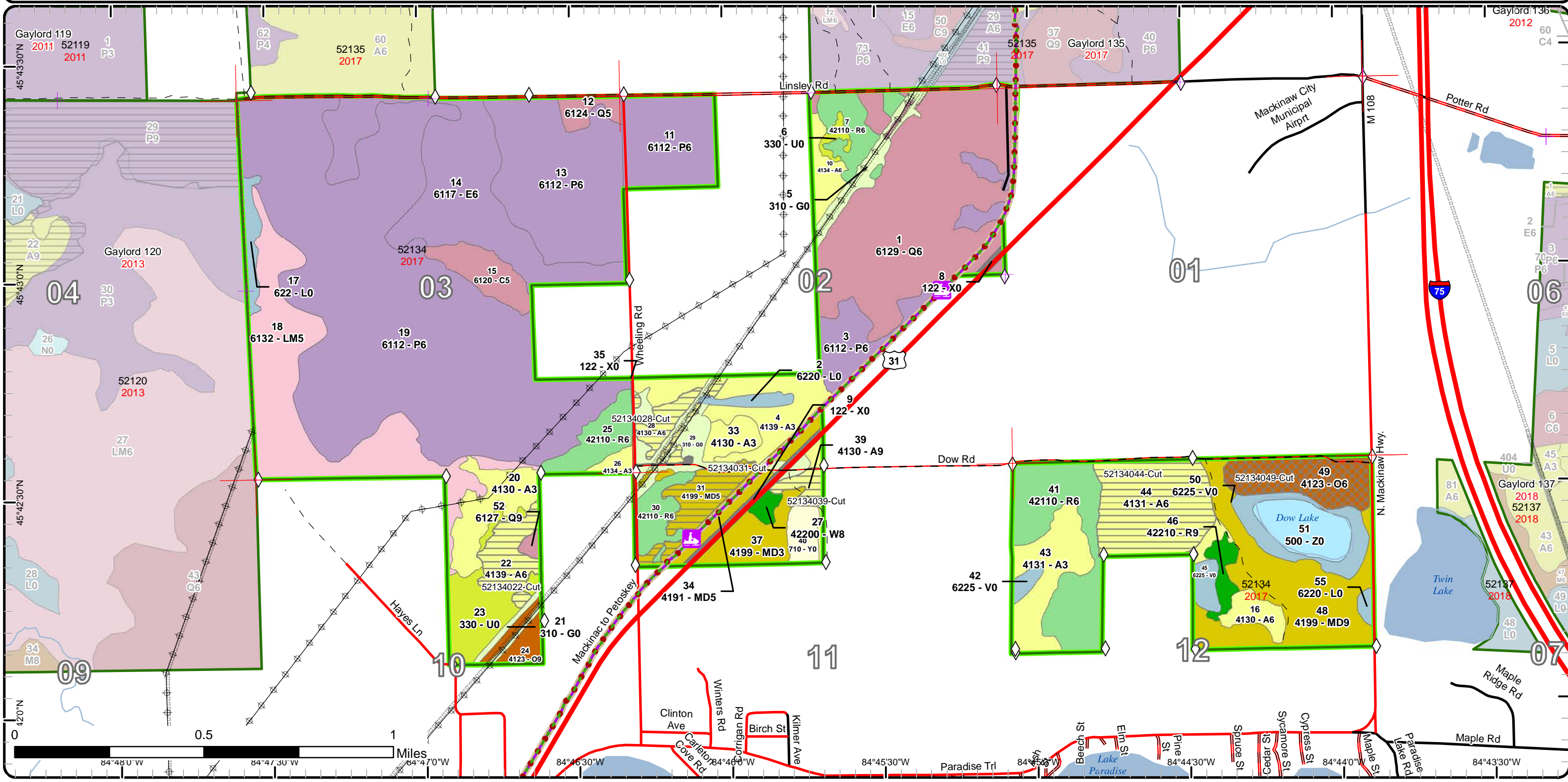


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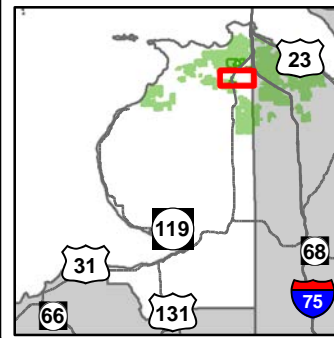


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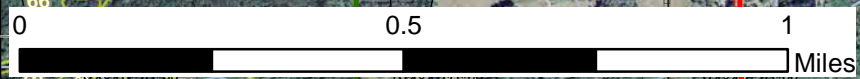


Stand Boundary Map

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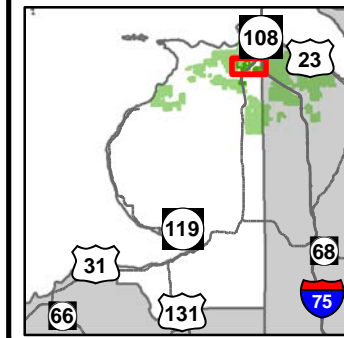
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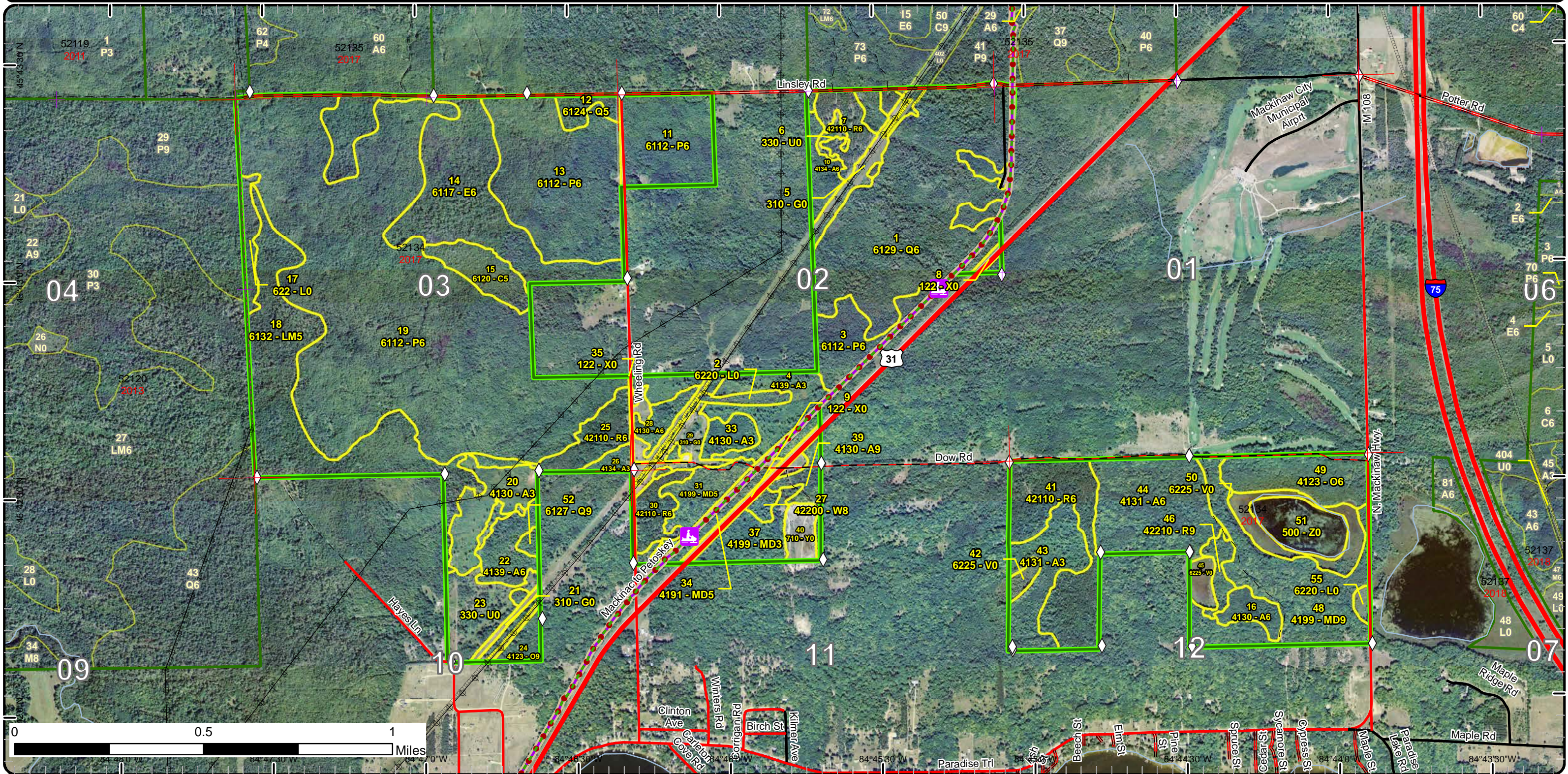
84°47'0" W
84°46'30" W
84°46'0" W
84°45'30" W
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84°44'30" W
84°44'0" W

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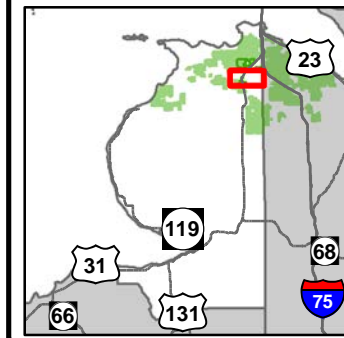


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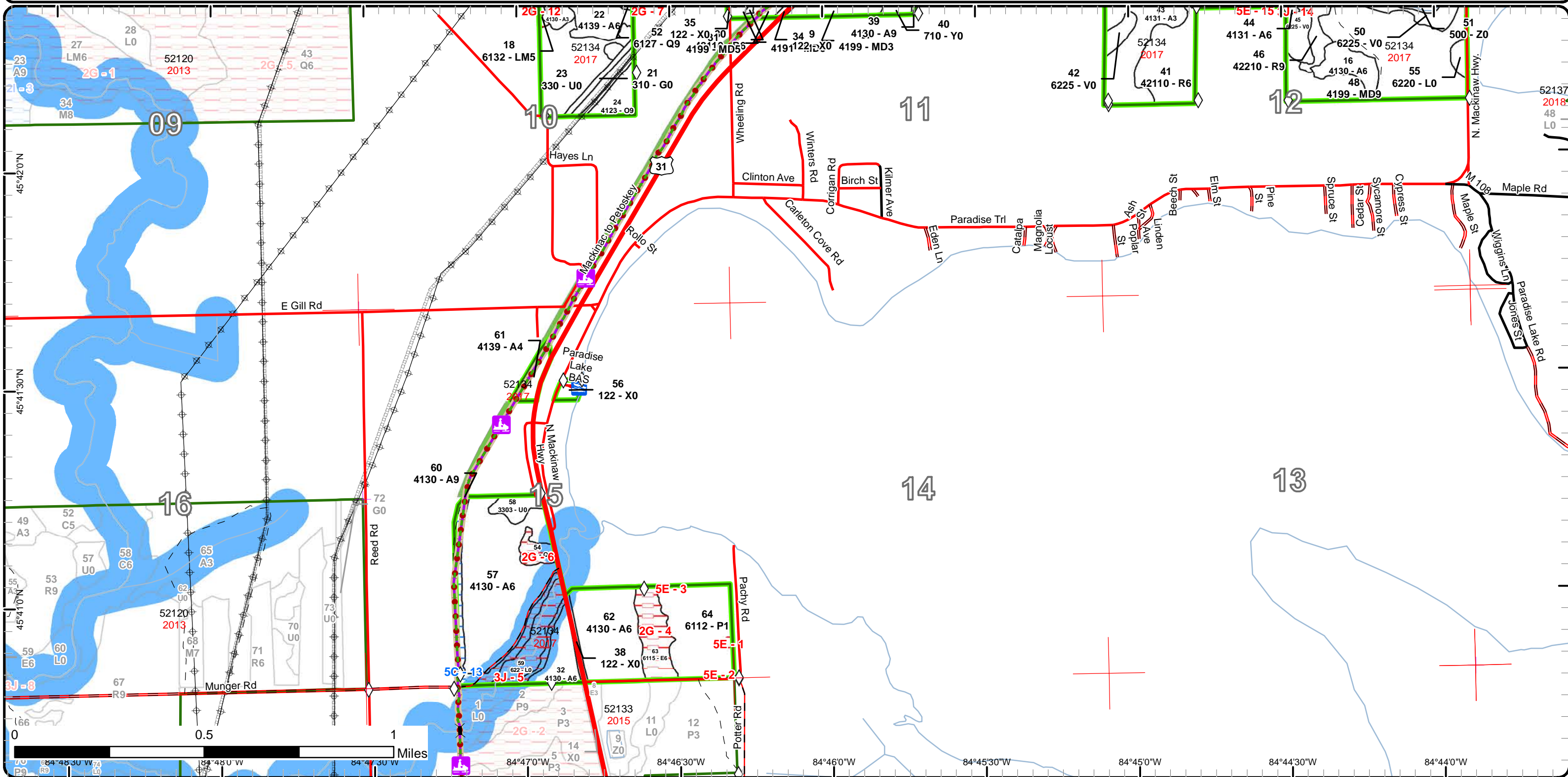


Special Conservation Areas & Site Conditions Map

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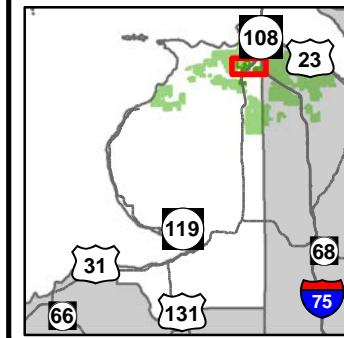


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|---|--|---|

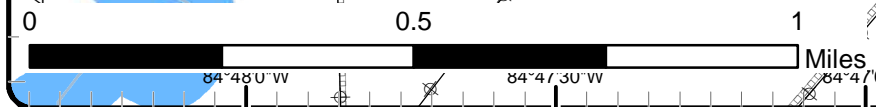
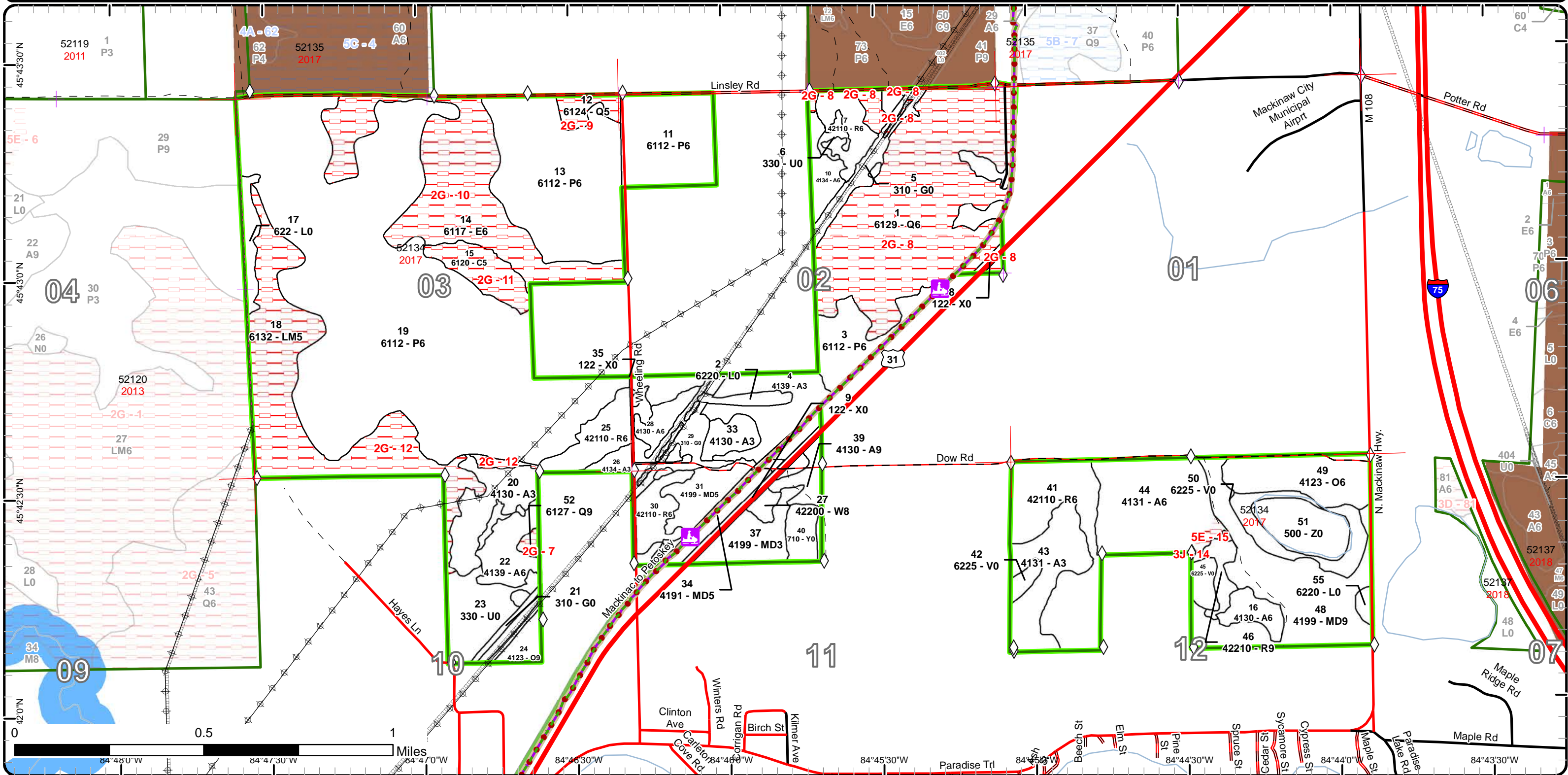


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- - - Trail (Non-Recreation)
- Rivers
- - - Pipeline
- Powerline
- Compartment Boundary
- - - Unavailable
- 2G: Too wet (sensitive soils, does not include access issues)
- 3J: Water quality / BMPs (stream, river, or lake)
- 5E: Long-Term Retention
- Stand Boundaries
- Special Conservation Areas
- Cold Water Streams
- High Priority Trout Stream Buffer
- Wildlife Management Areas
- Rail-Trail Corridor





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	52	36	0	154	4	11	37	0	0	0	0	0	0	0	0	0	0	294
Bog	24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24
Cedar	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	15	15
Herbaceous Openland	33	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	33
Low-Density Trees	31	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	31
Lowland Aspen/Balsam Poplar	0	27	0	0	459	0	0	0	0	0	0	0	0	0	0	0	0	0	486
Lowland Conifers	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	150	150
Lowland Deciduous	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	94	94
Lowland Mixed Forest	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	86	86
Lowland Shrub	25	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	25
Mixed Upland Deciduous	0	0	17	0	0	0	0	0	0	0	0	0	0	0	0	0	0	92	109
Oak	0	0	0	0	0	0	0	0	0	0	28	0	0	0	0	0	0	9	37
Red Pine	0	0	0	0	0	0	87	0	0	0	0	0	0	0	0	0	0	6	93
Sand, Soil	8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	8
Urban	15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	15
Water	19	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	19
White Pine	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	3
Total	155	79	53	0	613	4	98	37	0	0	28	0	0	0	0	0	0	455	1522



Report 2 – Treatment Summary

Gaylord Mgt. Unit

Compartment 134

Year of Entry:

Acres of Harvest

Total Compartment Acres: 1,522

Commercial Harvest - 123
 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	78	0	0	0	0	0	0	0	0	78
Mixed Upland Deciduous	17	0	0	0	0	0	0	0	0	17
Oak	0	28	0	0	0	0	0	0	0	28
Total	95	28	0	0	0	0	0	0	0	123

Proposed and Next Step Treatments by Method

	Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current	123	0	0	0	0	0	25	0	0	148
Next Step	0	0	0	0	0	0	123	0	0	123
Total	123	0	0	0	0	0	148	0	0	271



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
22	52134022-Cut	15.7	4139 - Aspen, Mixed Deciduous	Poletimber Well	65	51-80	Harvest	Clearcut	413 - Aspen	Even-Aged	Draft Field Boundary

Habitat Cut: No

Site Condition:

Prescription MANAGE THIS STAND FOR ASPEN. FINAL HARVEST THIS YO. CUT EVERYTHIN 2" AND LARGER AT DBH. DO NOT CUT RED OAK, WHITE PINE, AND ANY INCIDENTAL HEMLOCK. BECAUSE OF THE SMALLER STAND ACREAGE, NO UNHARVESTED RETENTION ISLANDS WILL BE LEFT. ACCESS WILL BE THROUGH STATE-OWNED LAND TO THE NORTH. USE OLD LANDING IN THE NE CORNER OF STAND 20. ADJACENT TO PRIVATE PROPERTY TO THE EAST.

Next Step
Treatments:

Acceptable A MIX OF ASPEN, RED OAK, AND NORTHERN HARDWOOD.
Regen:

Other STAND CONSISTS OF MOSTLY QUAKING ASPEN POLETIMBER, WHICH IS STARTING TO SHOW SIGNS OF DECLINE AND MORTALITY. RED MAPLE AND RED OAK POLETIMBER IS FOUND THROUGHOUT THE STAND, WITH LESSER AMOUNTS OF BALSAM FIR, PAPER BIRCH, AND WHITE PINE. Old next step comments:

Proposed Start Date: 10/01/2016

28	52134028-Cut	10.9	4130 - Aspen	Poletimber Well	56	81-110	Harvest	Clearcut	413 - Aspen	Even-Aged	Draft Field Boundary
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Habitat Cut: No

Site Condition:

Prescription HARVEST EVERYTHING EXCEPT RED OAK AND INCIDENTAL WHITE PINE AND HEMLOCK. NO RETENTION ISLANDS WILL BE LEFT BECAUSE OF SMALL ACREAGE. SELL THIS STAND WITH STANDS 22, 31, AND 39 TO MAKE IT MORE COMMERCIALY DESIRABLE

Next Step
Treatments:

Acceptable BIGTOOTH ASPEN/QUAKING ASPEN
Regen:

Other MIXED ASPEN/RED MAPLE STAND, BROKEN UP BY UTILITY ROW. QUAKING ASPEN SHOWING SIGNS OF DECLINE. FINAL HARVEST THIS YO. Old next step comments:

Proposed Start Date: 10/01/2016

31	52134031-Cut	16.7	4199 - Other Mixed Upland Deciduous	Poletimber Medium	76	51-80	Harvest	Clearcut	4199 - Other Mixed Upland Deciduous	Uneven-Aged	Draft Field Boundary
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Habitat Cut: No

Site Condition:

Prescription CUT ALL TREES 2" AND LARGER AT DBH, EXCEPT RED OAK, AND INCIDENTAL WHITE PINE AND HEMLOCK. NO UNHARVESTED RETENTION ISLANDS WILL BE LEFT WITHIN THE MAIN PORTION OF THE STAND BECAUSE OF THE SMALL ACREAGE WITHIN THE HARVEST AREA. HOWEVER, TWO HALF-ACRE ISLANDS LOCATED TO THE WEST OF THE RED PINE PLANTATION WILL NOT BE HARVESTED BECAUSE THERE IS NO ASPEN STEMS FOUND HERE. NO TRUCKS OR HARVEST EQUIPMENT WILL BE ALLOWED TO OPERATE ON THE SNOWMOBILE TRAIL. "LOGGING" SIGNS WILL BE PLACED ON THE TRAIL.

Next Step
Treatments:

Acceptable A MIX OF ASPEN AND NORTHERN HARDWOOD SPECIES IS ACCEPTABLE REGEN.
Regen:

Other STAND CONSISTS OF A MIX OF NORTHERN HARDWOOD POLETIMBER(MOSTLY RED MAPLE), AND BIGTOOTHED ASPEN SAWLOGS. SUGAR MAPLE, PAPER BIRCH, RED OAK ARE ALSO FOUND WITHIN THE STAND. PRESENT BA IS 56. HEAVY ADVANCED HARDWOOD REGEN PRESENT. ADJACENT TO SNOWMOBILE TRAIL. A FEW ASPEN ARE STARTING TO SHOW SIGNS OF DECLINE. MANAGE STAND FOR ASPEN. PRESCRIBE A FINAL HARVEST THIS YO. Old next step comments:

Proposed Start Date: 10/01/2016



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Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Approval Status
39 52134039-Cut	5.6	4130 - Aspen	Sawtimber Well	61	51-80	Harvest	Clearcut	413 - Aspen	Even-Aged	Draft Field Boundary

Habitat Cut: No

Site Condition:

Prescription HARVEST EVERYTHING 2" AND GREATER EXCEPT RED OAK AND INCIDENTAL WHITE PINE. NO UNHARVESTED RETENTION ISLANDS WILL BE NEEDED DUE TO SMALL ACREAGE. DO NOT HARVEST STAND NORTH OF DOW ROAD AND IN THE NARROW STRIP ALONG THE EAST EDGE OF THE GRAVEL PIT BECAUSE THERE IS ALMOST NO ASPEN STEMS LOCATED HERE AND THERE IS A DENSE UNDERSTORY OF HARDWOOD AND RED OAK.

Next Step
Treatments:

Acceptable Regen: A MIX OF ASPEN/NORTHERN HARDWOOD/RED OAK WILL BE ACCEPTABLE REGEN.

Other Comment: STAND CONSISTS OF A MIX OF ASPEN/NORTHERN HARDWOOD/RED OAK. MANAGE THIS STAND FOR ASPEN. FINAL HARVEST THIS YOY. ACREAGE IS SMALL, INCLUDE THIS STAND WITH PRESCRIBED STANDS TO THE WEST. ADJACENT TO US-31 AND PRIVATE PROPERTY. Old next step comments:

Proposed Start Date: 10/01/2016

44 52134044-Cut	46.3	4131 - Aspen, Oak	Poletimber Well	39	81-110	Harvest	Clearcut	4139 - Aspen, Mixed Deciduous	Two-Aged	Draft Field Boundary
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Habitat Cut: No

Site Condition:

Prescription HARVEST ALL TREES 2" AND LARGER AT DBH EXCEPT OAK AND INCIDENTAL WHITE PINE AND HEMLOCK. ONE UN-HARVESTED LONG TERM RETENTION AREA WILL BE LEFT TO THE NORTH SIDE OF THE BUFFER TO PROTECT BOG.

Next Step
Treatments:

Acceptable Regen: A FULLY-STOCKED STAND OF ASPEN, OAK, AND OTHER MIXED DECIDUOUS.

Other Comment: TWO-AGED STAND OF MIXED ASPEN POLETIMBER, AND LESSER AMOUNTS OF NORTHERN HARDWOOD POLETIMBER FROM 1977 FINAL HARVEST, WITH RED OAK SAWTIMBER/POLETIMBER THAT WAS LEFT UN-CUT FROM THE SAME HARVEST. MANAGE THIS STAND FOR THE ASPEN COMPONENT. HARVEST THIS STAND THIS Y.O.E., WHICH WILL HELP BALANCE ASPEN AGE CLASSES WITHIN THE COMPARTMENT AND MANAGEMENT AREA. Old next step comments:

Proposed Start Date: 10/01/2016

49 52134049-Cut	27.7	4123 - Red Oak	Poletimber Well	91	81-110	Harvest	Group Selection	4123 - Red Oak	Uneven-Aged	Draft Field Boundary
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Habitat Cut: No

Site Condition:

Prescription PRESCRIBE A GROUP SELECTION HARVEST TO CREATE MULTIPLE 100 - 200' CANOPY GAPS IN THE STAND, TO ENCOURAGE RED OAK REGEN. MARK TO RELEASE RED OAK CROP TREES TO A BA OF 70 SQ. FT. BETWEEN THE AREAS OF GAP CREATIONS. ALSO HARVEST ALL MIXED NORTHERN HARDWOOD AND ASPEN WITHIN THE STAND.

Next Step
Treatments:

Acceptable Regen: RED OAK

Other Comment: GOOD QUALITY RED OAK POLETIMBER/SAWTIMBER, WITH A MINOR COMPONENT OF N. HARDWOOD AND BIGTOOTH ASPEN. RED OAK IS STOCKED MORE HEAVILY IN THE SOUTH AND EAST HALVES OF STAND. STAND BA IS CURRENTLY 91 SQ. FT., WITH 77 SQ. FT. CONSISTING OF RED OAK. NOT MUCH RED OAK REGEN IN UNDERSTORY CURRENTLY. ADJACENT TO DOW LAKE. 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
64	52134064- Monitor	24.9	6112 - Lowland Aspen	Sapling Poor	1	Immatur re	Monitoring	Natural Regen (Intermediate)	6112 - Lowland Aspen	Even-Aged	Field Boundary

Habitat Cut: No**Site Condition:**Prescription Check regen.Specs:Next Step

Treatments:

Acceptable Mixed aspen/lowland hardwood.Regen:Other Percent to Treat = 100% Old next step comments:Comment:Proposed Start Date: 10/01/2018

**Total Treatment
Acreage Proposed: 147.7**

Report 5 – Site Conditions

Gaylord Mgt. Unit
Donald Stacks : Examiner

Compartment: 134
Year of Entry: 2017

Availability for Management

Total Acres	Acres Available	Acres Avail		Dominant Site Conditions	Dominant Site Conditions			
		With Condition	Not Available		5C	2G	3J	5E
295	279	7	9	Aspen	7		6	3
24	24	0	0	Bog				
15	0	0	15	Cedar		15		
33	33	0	0	Herbaceous Openland				
31	31	0	0	Low-Density Trees				
486	486	0	0	Lowland Aspen/Balsam Poplar				
150	0	0	150	Lowland Conifers		150		
94	0	0	94	Lowland Deciduous		94		
86	0	0	86	Lowland Mixed Forest		86		
25	15	0	10	Lowland Shrub			10	
109	109	0	0	Mixed Upland Deciduous				
37	37	0	0	Oak				
93	93	0	0	Red Pine				
8	8	0	0	Sand, Soil				
15	15	0	0	Urban				
19	19	0	0	Water				
3	3	0	0	White Pine				
1,522	1,151	7	364	Total Forested Acres	7	346	16	3
	76%	0%	24%	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	5E: Long-Term Retention	1	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
2	Unavailable	5E: Long-Term Retention	0	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 5 – Site Conditions

Gaylord Mgt. Unit
Donald Stacks : Examiner

Compartment: 134
Year of Entry: 2017

3	Unavailable	5E: Long-Term Retention	0	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
4	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	12	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
5	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	16	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
6	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	4	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
7	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	2	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
8	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	138	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 5 – Site Conditions

Gaylord Mgt. Unit
Donald Stacks : Examiner

Compartment: 134
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9	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	7	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
10	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	83	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
11	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	15	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
12	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	86	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
13	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	7	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
14	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	1	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 5 – Site Conditions

**Gaylord Mgt. Unit
Donald Stacks : Examiner**

**Compartment: 134
Year of Entry: 2017**

15	Unavailable	5E: Long-Term Retention	3	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 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	Gaylord Mgt. Unit		Report 8 – Forested Stands			Compartment: 134 Year of Entry: 2017
	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
1	6129 - Mixed Coniferous Lowland Forest	Poletimber Well	137.8	86	111-140	SWAMP CONIFERS WITH SPARSE OVERMATURE ASPEN WHICH IS FALLING OUT OF STAND. SCATTERED RED MAPLE, PAPER BIRCH, WHITE PINE ALSO. TOO WET TO HARVEST. GOOD WILDLIFE THERMAL COVER.
3	6112 - Lowland Aspen	Poletimber Well	28.8	36	51-80	SMALL MIXED ASPEN POLETIMBER AND SAPS FROM 1980 FINAL HARVEST. LESSER AMOUNTS OF BALSAM FIR, RED MAPLE, AND PAPER BIRCH. LOCATED ON MOSTLY WET GROUND WITH AREAS OF SLIGHTLY HIGHER GROUND. MANAGE THIS STAND FOR ASPEN. FINAL HARVEST AGAIN IN 20 YEARS. ADJACENT TO SNOWMOBILE TRAIL.
4	4139 - Aspen, Mixed Deciduous	Sapling Well	30.9	7	Immature	STAND CONSISTS OF A MIX OF ASPEN/N. HARDWOOD REGEN FROM FINAL HARVEST IN 2009. A FEW SCATTERED RED OAK, HEMLOCK, AND WHITE PINE WERE LEFT UN CUT. MANAGED FOR ASPEN. FINAL HARVEST AGAIN IN ABOUT 50 YEARS.
7	42110 - Planted Red Pine	Poletimber Well	15.3	54	111-140	RED PINE PLANTATION IN TRANSITION FROM POLETIMBER INTO SAWLOG TREES. STAND WAS MARKED AND THINNED IN 1999 AND AGAIN IN 07/2009. LOWER BA AT PRESENT (127). POSSIBLE THINNING NEXT YOE.
10	4134 - Aspen, Spruce/Fir	Poletimber Well	9.3	36	51-80	MIXED ASPEN/BALSAM FIR/RED MAPLE POLETIMBER. SLIGHTLY YOUNGER AT PRESENT TIME. CONTINUE TO MANAGE FOR ASPEN. FINAL HARVEST IN ABOUT 20 YEARS. LOCATED ON HIGHER GROUND WITH A FEW LOW AREAS.
11	6112 - Lowland Aspen	Poletimber Well	38.6	34	1-50	MIXED ASPEN REGEN FROM 1982 FINAL HARVEST. MOSTLY SMALL POLETIMBER AND SAPS, WITH LESSER AMOUNTS OF RED MAPLE AND BALSAM FIR. CONTINUE TO MANAGE STAND FOR ASPEN. FINAL HARVEST AGAIN IN ABOUT 20 YEARS.
12	6124 - Lowland Spruce- Fir	Poletimber Medium	6.7	88	51-80	SMALL, WET SWAMP CONIFER STAND ON CORNER OF WHEELING AND LINSLEY RDS. TOO WET TO HARVEST.
13	6112 - Lowland Aspen	Poletimber Well	81.0	36	51-80	SMALLER DIAMETER MIXED ASPEN POLETIMBER, WITH LESSER AMOUNTS OF RED MAPLE AND BALSAM FIR. MANAGE FOR ASPEN, FINAL HARVEST IN ABOUT 20 YERAS.
14	6117 - Lowland Deciduous, Mixed Coniferous	Poletimber Well	82.6	51	51-80	OLD STAND OF SWAMP ASPEN CONVERTING TO Q AND E TYPES. TOO WET TO HARVEST IN 1980 WITH ADJACENT STANDS. TOO WET TO HARVEST PRESENTLY.
15	6120 - Lowland Cedar	Poletimber Medium	15.4	91	111-140	SMALL CEDAR STAND WITH VARIABLE DIAMETERS. LESSER AMOUNTS OF BALSAM FIR, BLACK SPRUCE, AND SWAMP HARDWOODS.
16	4130 - Aspen	Poletimber Well	8.2	39	81-110	MIXED ASPEN/N. HARDWOOD/RED OAK POLETIMBER FROM 1977 HARVEST. SCATTERED RED OAK SAWLOG TREES FOUND WITHIN STAND. MANAGE THIS STAND FOR ASPEN. FINAL HARVEST EVERYTHING EXCEPT RED OAK AND WHITE PINE IN 10 - 20 YEARS.



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
18	6132 - Mixed Lowland Forest with Cedar	Poletimber Medium	85.5	51	51-80	WET, MIXED STAND OF BLACK ASH, BALSAM FIR, RED MAPLE, AND CEDAR WITH SPARSE, SCATTERED OLD, DYING QUAKING ASPEN. CANOPY IS LESSER STOCKED IN PLACES. SUB-CANOPY IS DENSE CONSISTING MOSTLY OF TAG ALDER, BLACK ASH, AND RED MAPLE IN UNDERSTORY. TOO WET TO HARVEST WITH ADJACENT STANDS IN 1980, TOO WET TO HARVEST PRESENTLY. SOME WINDTHROW PRESENT.
19	6112 - Lowland Aspen	Poletimber Well	310.6	36	81-110	SMALLER DIAMETER MIXED ASPEN/RED MAPLE POLETIMBER FROM 1980 FINAL HARVEST. BALSAM FIR SCATTERED THROUGHOUT STAND. CONTINUE TO MANAGE STAND FOR ASPEN. START HARVESTING PART OF THIS STAND IN TEN YEARS, AND CONTINUE TO HARVEST PORTIONS OF THE STAND FOR THE NEXT TWO ENTRY YEARS AFTER THAT, TO BREAK UP THE AGE CLASSES.
20	4130 - Aspen	Sapling Well	21.6	7	Immature	QUAKING ASPEN REGEN FROM 2009 FINAL HARVEST. LESSER AMOUNT OF RED MAPLE REGEN. SCATTERED WHITE PINE AND RED OAK POLETIMBER/SAWTIMBER PRESENT ALSO, WHICH WERE LEFT UNHARVESTED FROM 2009 TREATMENT. MANAGE STAND FOR ASPEN. FINAL HARVEST AGAIN IN 40 - 50 YEARS.
22	4139 - Aspen, Mixed Deciduous	Poletimber Well	15.7	65	51-80	STAND CONSISTS OF MOSTLY QUAKING ASPEN POLETIMBER, WHICH IS STARTING TO SHOW SIGNS OF DECLINE AND MORTALITY. RED MAPLE AND RED OAK POLETIMBER IS FOUND THROUGHOUT THE STAND, WITH LESSER AMOUNTS OF BALSAM FIR, PAPER BIRCH, AND WHITE PINE.
24	4123 - Red Oak	Sawtimber Well	8.9	81	51-80	SMALL STAND OF RED OAK, RED MAPLE, AND LESSER AMOUNTS SUGAR MAPLE AND BEECH. ADJACENT TO UTILITY R.O.W. AND PRIVATE RESIDENCES. NOT GREAT FORM OR QUALITY, AND LOWER STOCKING DENSITY (BA - 64). FAIRLY HEAVY UNDERSTORY MOSTLY RED MAPLE. LEAVE UNTREATED THIS YOE.
25	42110 - Planted Red Pine	Poletimber Well	15.2	53	141-170	RED PINE PLANTATION IN TRANSITION FROM POLETIMBER TO SAWLOG CLASS, ROW-THINNED IN 1997 AND MARKED THINNED 07/2009. LOWER BA AT PRESENT (150). POSSIBLE MARKED THINNING AGAIN NEXT YOE.
26	4134 - Aspen, Spruce/Fir	Sapling Well	3.7	35	Immature	SMALL STAND OF QUAKING ASPEN/BALSAM FIR REGEN, IN TRANSITION FROM SAPS TO SMALLER DIAMETER POLETIMBER, FROM 1980 FINAL HARVEST. ADJACENT TO WHEELING RD. CONTINUE TO MANAGE FOR ASPEN. FINAL HARVEST IN 20 -30 YEARS.
27	42200 - Natural White Pine	Sawtimber Medium	3.0	76	51-80	A SMALL STAND OF WHITE PINE SAWTIMBER AND LESSER AMOUNTS OF WP POLETIMBER, RESULTING FROM THE WHITE PINE BEING LEFT UNCUT DURING THE 1999 ASPEN FINAL HARVEST. STAND IS ADJACENT TO US-31. WHITE PINE WAS LEFT FOR VISUAL MANAGEMENT.
28	4130 - Aspen	Poletimber Well	10.9	56	81-110	MIXED ASPEN/RED MAPLE STAND, BROKEN UP BY UTILITY ROW. QUAKING ASPEN SHOWING SIGNS OF DECLINE. FINAL HARVEST THIS YOE.



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
30	42110 - Planted Red Pine	Poletimber Well	11.7	54	81-110	VARIABLY STOCKED RED PINE STAND. MARKED THINNING WAS COMPLETED IN 07/2009. LOWER BA AT PRESENT (123). TREAT AGAIN IN 10 - 20 YEARS. HEAVY HARDWOOD UNDERSTORY. ADJACENT TO WHEELING RD.
31	4199 - Other Mixed Upland Deciduous	Poletimber Medium	17.6	76	51-80	STAND CONSISTS OF A MIX OF NORTHERN HARDWOOD POLETIMBER(MOSTLY RED MAPLE), AND BIGTOOTHED ASPEN SAWLOGS. SUGAR MAPLE, PAPER BIRCH, RED OAK ARE ALSO FOUND WITHIN THE STAND. PRESENT BA IS 56. HEAVY ADVANCED HARDWOOD REGEN PRESENT. ADJACENT TO SNOWMOBILE TRAIL. A FEW ASPEN ARE STARTING TO SHOW SIGNS OF DECLINE. MANAGE STAND FOR ASPEN. PRESCRIBE A FINAL HARVEST THIS YO.E.
32	4130 - Aspen	Poletimber Well	8.6	37	1-50	MIXED ASPEN/RED MAPLE/BALSAM FIR IN TRANSITION FROM SAPS TO POLETIMBER FROM 1979 FINAL HARVEST. AN UNHARVESTED BUFFER FROM THIS STAND EXISTS ALONG THE LITTLE CARP RIVER TO THE WEST. ADJACENT TO US-31 TO THE EAST. CONTINUE TO MANAGE THIS STAND FOR ASPEN. FINAL HARVEST IN 20 - 30 YEARS.
33	4130 - Aspen	Sapling Well	8.1	17	Immature	MIXED ASPEN/ N. HARDWOOD REGEN FROM 1999 FINAL HARVEST. A FEW RED OAK ARE LEFT FROM THE LAST HARVEST. CONTINUE TO MANAGE STAND FOR ASPEN. FINAL HARVEST AGAIN IN ABOUT 40 YEARS.
34	4191 - Mixed Upland Deciduous with Conifer	Poletimber Medium	13.6	78	1-50	STAND LIES BETWEEN US-31 AND SNOWMOBILE TRAIL. CANOPY IS FAIRLY SPARSE. BA IS 39 SQ. FT. AT PRESENT. HEAVIER ADVANCED HARDWOOD REGEN PRESENT. SERVES AS A GOOD BUFFER BETWEEN SNOWMOBILE TRAIL AND HIGHWAY. NOT MUCH TIMBER VOLUME PRESENTLY.
37	4199 - Other Mixed Upland Deciduous	Sapling Well	16.9	17	Immature	MIXED ASPEN/OAK/N. HARDWOOD REGEN WITH SCATTERED RED OAK AND WHITE PINE SAWTIMBER/POLETIMBER FROM 1999 HARVEST. ADJACENT TO US-31.
39	4130 - Aspen	Sawtimber Well	8.4	61	51-80	STAND CONSISTS OF A MIX OF ASPEN/NORTHERN HARDWOOD/RED OAK. MANAGE THIS STAND FOR ASPEN. FINAL HARVEST THIS YO.E. ACREAGE IS SMALL, INCLUDE THIS STAND WITH PRESCRIBED STANDS TO THE WEST. ADJACENT TO US-31 AND PRIVATE PROPERTY.
41	42110 - Planted Red Pine	Poletimber Well	44.7	54	141-170	RED PINE PLANTATION ROW-THINNED IN 1999. SLIGHTLY LOWER B.A. PRESENTLY (146SQ. FT.). THIN NEXT Y.O.E. HEAVY HARDWOOD UNDERSTORY.
43	4131 - Aspen, Oak	Sapling Well	27.5	16	Immature	MIXED ASPEN/N. HARDWOOD/RED OAK REGEN WITH SCATTERED CLUMPS OF RED OAK AND WHITE PINE POLETIMBER/SAWTIMBER FROM A 2000 HARVEST. CONTINUE TO MANAGE THIS STAND FOR ASPEN. FINAL HARVEST AGAIN IN ABOUT 40 YEARS.



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
44	4131 - Aspen, Oak	Poletimber Well	49.3	39	81-110	A TWO-AGED STAND OF MIXED ASPEN POLETIMBER, AND LESSER AMOUNTS OF NORTHERN HARDWOOD POLETIMBER FROM 1977 FINAL HARVEST, WITH RED OAK SAWTIMBER/POLETIMBER THAT WAS LEFT UNCUT FROM THE SAME HARVEST. MANAGE THIS STAND FOR THE ASPEN COMPONENT. HARVEST THIS STAND THIS Y.O.E., WHICH WILL HELP BALANCE ASPEN AGE CLASSES WITHIN THE COMPARTMENT AND MANAGEMENT AREA.
46	42210 - Natural Red Pine	Sawtimber Well	6.3	76	81-110	SMALL STAND OF NATURAL RED PINE SAWTIMBER/POLETIMBER WITH LESSER AMOUNTS OF WHITE PINE SAWLOGS/POLETIMBER. SCATTERED RED OAK POLETIMBER/SAWTIMBER ALSO. NOT MUCH VOLUME DUE TO SMALL ACREAGE. ADJACENT TO POND. LEAVE THIS STAND FOR DIVERSITY AND AESTHETICS.
48	4199 - Other Mixed Upland Deciduous	Sawtimber Well	60.6	86	51-80	A MIXED STAND OF MOSTLY RED OAK SAWTIMBER, WITH LESSER AMOUNTS OF ASPEN AND NORTHERN HARDWOOD POLETIMBER/SAWTIMBER. STAND IS LOWER STOCKED AT PRESENT (58 SQ. FT.). POSSIBLE LIGHT TREATMENT TO ENCOURAGE OAK REGEN IN 10 - 20 YEARS.
49	4123 - Red Oak	Poletimber Well	27.7	91	81-110	GOOD QUALITY RED OAK POLETIMBER/SAWTIMBER, WITH A MINOR COMPONENT OF N. HARDWOOD AND BIGTOOTH ASPEN. RED OAK IS STOCKED MORE HEAVILY IN THE SOUTH AND EAST HALVES OF STAND. STAND BA IS CURRENTLY 91 SQ. FT., WITH 77 SQ. FT. CONSISTING OF RED OAK. NOT MUCH RED OAK REGEN IN UNDERSTORY CURRENTLY. ADJACENT TO DOW LAKE.
52	6127 - Lowland Pine	Sawtimber Well	2.0	91	51-80	SMALL STAND OF WHITE PINE SAWLOGS/POLETIMBER ON POORLY DRAINED SOIL. MANAGE FOR WHITE PINE SAWTIMBER. DIVERSITY FROM ADJACENT COVERTYPES. LEAVE AS IS.
54	6128 - Lowland Coniferous, Mixed Deciduous	Poletimber Well	3.7	81	111-140	SMALL STAND OF HEMLOCK POLETIMBER/SAWLOGS AND RED MAPLE POLETIMBER ON LOW, POORLY DRAINED SOIL. PROTECT HEMLOCK WHEN ADJACENT ASPEN STAND IS HARVESTED IN 20 - 30 YEARS. INCIDENTAL CEDAR, YELLOW BIRCH, AND BIGTOOTHED ASPEN PRESENT ALSO.
57	4130 - Aspen	Poletimber Well	49.6	37	81-110	SMALLER DIAMETER ASPEN POLETIMBER/SAPS FROM 1979 FINAL HARVEST. CONTINUE TO MANAGE THIS STAND FOR ASPEN. FINAL HARVEST AGAIN IN 20 - 30 YEARS.
60	4130 - Aspen	Sawtimber Well	12.7	60	51-80	REMAINING BUFFER STRIP TO CARP RIVER FROM THE PREVIOUS ASPEN HARVEST IN 1979. ALSO BUFFERS SNOWMOBILE TRAIL ON THE WEST SIDE. CUT THE PORTION ALONG THE SNOWMOBILE TRAIL WHEN ADJACENT STAND 57 IS HARVESTED. LEAVE BUFFER IN PLACE ALONG CARP RIVER.
61	4139 - Aspen, Mixed Deciduous	Poletimber Poor	4.4	41	51-80	MIX OF ASPEN CLONES, RED MAPLE, SCATTERED RED OAK, AND SMALL GRASS OPENINGS BETWEEN SNOWMOBILE TRAIL AND US-31. TOO SMALL TO MANAGE TIMBER. POSSIBLE DISPOSAL.

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Gaylord Mgt. Unit

Report 8 – Forested Stands

Compartment: 134
Year of Entry: 2017

	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
62	4130 - Aspen	Poletimber Well	25.8	39	51-80	SMALLER DIAMETER BTA/Q. ASPEN AND RED MAPLE POLETIMBER FROM 1977 FINAL HARVEST. SCATTERED BEECH, RED OAK, AND BALSAM FIR. CONTINUE TO MANAGE STAND FOR ASPEN. FINAL HARVEST IN 20 YEARS. BA IS CURRENTLY 77. ADJACENT TO US-31.
63	6115 - Lowland Ash	Poletimber Well	11.8	65	51-80	STAND IS A STRIP OF POORLY DRAINED SOIL ON LOWER GROUND. MOSTLY BLACK ASH, MOST OF WHICH HAS NOT BEEN KILLED BY EAB, WITH SCATTERED RED MAPLE, AND QUAKING ASPEN. STAND IS TOO WET TO HARVEST. BLACK ASH WILL MOST LIKELY BE DEAD IN A FEW YEARS.
64	6112 - Lowland Aspen	Sapling Poor	27.0	1	Immature	STAND WAS ADDED TO THE 2011 POW TO HELP MAKE UP STATEWIDE ACREAGE SHORTFALL. STAND WAS PRESCRIBED FOR A FINAL HARVEST WITH THREE SMALL RETENTION AREAS. STAND WAS HARVESTED BETWEEN 09/2014 AND 01/2015. STAND WAS ORIGINALLY CODED FOR A WINTER CUT ONLY BUT AN AGREEMENT WAS MADE WITH THE PRODUCER TO START EARLY AS CONDITIONS WOULD ALLOW. STAND NOW CONSISTS OF A SPARSELY STOCKED MIXED LOWLAND ASPEN/HARDWOOD AND BALSAM FIR SAPLINGS LEFT AFTER FINAL HARVEST.



Stand	Cover Type	Acres	Managed Site	General Comments:
2	6220 - Alder/willow	4.6	No	SMALL STAND OF POORLY DRAINED TAG ALDER, WILLOW, RO DOGWOOD AND OTHER L-TYPE SHRUBS.
5	310 - Herbaceous Openland	10.9	No	
6	330 - Low-Density Trees	2.6	No	GRASS STAND WITH SPARSE, SCATTERED RED PINE POLETIMBER. THIS STAND WAS PART OF THE ADJACENT RED PINE PLANTATION, BUT SUFFERED SIGNIFICANT MORTALITY SHORTLY AFTER PLANTING.
8	122 - Road/Parking Lot	1.3	No	US-31 ROW.
9	122 - Road/Parking Lot	6.3	No	US-31.
17	622 - Lowland Shrub	8.2	No	MOSTLY TAG ALDER, R.O. DOGWOOD, AND OTHER LOWLAND SHRUBS ON VERY WET, POORLY DRAINED SOIL. SCATTERED LARGE, OLD QUAKING ASPEN AND SPRUCE/FIR. WINDTHROW PRESENT.
21	310 - Herbaceous Openland	3.8	No	GRASS UTILITY ROW.
23	330 - Low-Density Trees	23.7	No	UPLAND BRUSH STAND WITH SCATTERED RED MAPLE, WHITE PINE, CHERRY AND LOW SHRUBS. ENCROACHING ASPEN REGEN IN THE NORTH PART OF STAND 23.
29	310 - Herbaceous Openland	18.4	No	GRASS OPING WITH SPARSE, SCATTERED SHRUBS/SAPLINGS. MUCH OF THIS STAND IS LOCATED IN THE UTILITY R.O.W. ALSO ADJACENT TO OLD CARP LAKE TRANSFER STATION.
35	122 - Road/Parking Lot	2.8	No	WHEELING RD. AND DRIVEWAY TO OLD CARP LAKE TRANSFER STATION.
38	122 - Road/Parking Lot	2.2	No	US-31.
40	710 - Sand, Soil	7.7	No	OPIC - FMD: OLD GRAVEL PIT.
42	6225 - Bog	3.1	No	LEATHERLEAF BOG.
45	6225 - Bog	5.3	No	SMALL BOG.
50	6225 - Bog	15.6	No	LEATHERLEAF BOG AROUND EDGE OF DOW LAKE.
51	500 - Water	18.8	No	SMALL, SHALLOW LAKE KNOWN AS DOW LAKE OR TWIN LAKE.



Stand	Cover Type	Acres	Managed Site	General Comments:
55	6220 - Alder/willow	2.3	No	TAG ALDER.
56	122 - Road/Parking Lot	2.1	Yes	CARP LAKE BOAT LAUNCH/ACCESS SITE.
58	3303 - Mixed Low Density Trees	4.4	No	SMALL GRASS OPENING WITH SCATTERED MIXED LOW DENSITY TREES, BTA, QA, WHITE PINE, AND RED MAPLE SAPS AND POLETIMBER, ADJACENT TO US-31.
59	622 - Lowland Shrub	9.9	No	FLOODPLAIN OF CARP RIVER. VARIOUS LOWLAND SHRUBS AND SCATTERED QUAKING ASPEN, BLACK ASH, AND RED MAPLE.