



Compartment Review Presentation

Traverse City Forest Management Unit

Compartment 61208

Entry Year 2021

Acreage: 1,297

County Kalkaska

Management Area: Grayling Ice Contact

Revision Date: 2019-06-13

Stand Examiner: Steve Crigier

Legal Description:

T28N-R05W, Section 31, 32 & 33

Identified Planning Goals:

Management in the Grayling Ice Contact management area (MA) will continue to balance the age class of aspen on suitable sites, thin northern hardwoods, balance age classes of red pine and jack pine, and attempt to regenerate the aging oak resource. Management will strive to sustainably produce various forest products; enhance game and non-game wildlife habitat; protect areas of unique character; and provide for forest-based recreational uses. With about 3% of the management area being lowland, management activities will be minimally constrained. Expected challenges within this 10-year planning period include increased recreational pressure, managing oil and gas development, introduced pests and diseases and the difficulty in regenerating oak and sugar maple.

Soil and topography:

Blue Lake, Kalkaska and Rubicon Sands. This compartment is in some gently rolling terrain.

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

State and private ownership within compartment with solid state ownership to the north. Light or limited residential development throughout area, mostly mixed residential/ seasonal single family dwellings. Gas sweetening plant located in section 32 with associated pipelines and service roads.

Unique Natural Features:

None known

Archeological, Historical, and Cultural Features:

None known

Special Management Designations or Considerations:

Watershed and Fisheries Considerations:

There are no water features in this compartment and fisheries has no concerns.

Wildlife Habitat Considerations:

Northern hardwood is the dominant community, with some aspen, pine, wetlands, and openings scattered throughout. Considerations for northern hardwood stands include maintaining age and tree species diversity, the protection of den/nesting trees & snags, coarse woody debris (CWD), and maintaining a presence of mast-producing trees/shrubs. This will insure use by many species of wildlife. Examples of species include scarlet tanager, raccoon, broad-winged hawk, wild turkey, and white-tailed deer.

Aspen harvests should be designed to mimic wildfires of various intensities, when possible. This creates a mosaic of age classes and increases structural diversity within an area. The creation of dead and downed logs should be incorporated into timber prescriptions within to provide habitat for various wildlife species. Standing dead timber is usually left during harvest operations unless deemed a safety hazard. Species benefiting from continued management and age class diversification of aspen include ruffed grouse, white-footed mice, redbelly snakes, deer, yellow-billed cuckoos, and snowshoe hares.

Many wildlife species rely on small forest openings and upland shrub communities. These openings provide grassy nest sites, plentiful seeds and insects, and cover. Examples of species include wild turkeys, northern flicker, eastern chipmunk, and blue racer. Upland shrub stands are important because they contain many berry-producing trees and shrubs. Degraded sites (i.e. abandoned well sites) should be considered for revegetating to herbaceous cover.

This compartment is underlain by steep, broken ice contact ridges and is within the Grayling Ice Contact Management

Area of the Northern Lower Peninsula Regional State Forest Management Plan. Key wildlife species of this MA are woodcock, beaver, Eastern massasauga rattlesnake, pileated woodpecker, red-headed woodpecker, ruffed grouse, turkey, and deer.

Mineral Resource and Development Concerns and/or Restrictions

No active sand/gravel production is occurring in this area, but there appears to be good sand & gravel potential within the compartment. The compartment is located on the southern edge of the Guelph (Niagaran) reef trend and Antrim Shale gas play. There has been some Niagaran reef production within and around the compartment, and there is one remaining active lease within the compartment. There is Antrim Shale gas potential in this area, and some Collingwood gas production has occurred in the area. Oil & gas potential is considered moderate at this time. Active underground gas storage fields are located to the north and west. Future gas storage potential beneath the compartment may be limited unless new reefs are discovered. There is no known metallic mineral potential in this part of the state. The state does not own all the mineral rights within the compartment. Because the mineral estate is the dominant estate, reasonable access to the surface must be provided to private owners if they choose to explore or develop their mineral rights.

Vehicle Access:

Most of the access through out the compartment is on narrow dirt forest roads. Kennel and Deadman Lake road are county roads that provide interior access to the compartment.

Survey Needs:

Some interior corners are needed in sections 31 and 32. Request has been submitted.

Recreational Facilities and Opportunities:

The Blue Bear Snowmobile Trail and the Kalkaska ORV Trail run through compartment. Hunting is one of the other main opportunities

Fire Protection:

This compartment is protected by the Kalkaska DNR Field Office. VFD Fire Protection is from the Blue Lake Twp. Fire Department. Access is not a problem within this compartment. Some private land is located within the compartment, but fuel types don't contribute to catastrophic fires.

Additional Compartment Information:

The following reports from the Inventory are attached:

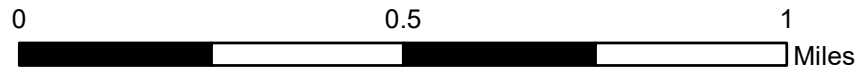
- Total Acres by Cover Type and Age Class**
- Cover Type by Harvest Method**
- Proposed Treatments – No Limiting Factors**
- Proposed Treatments – With Limiting Factors**
- Stand Details (Forested and Nonforested)**
- Dedicated and Proposed Special Conservation Areas**
- Site Condition Details**

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

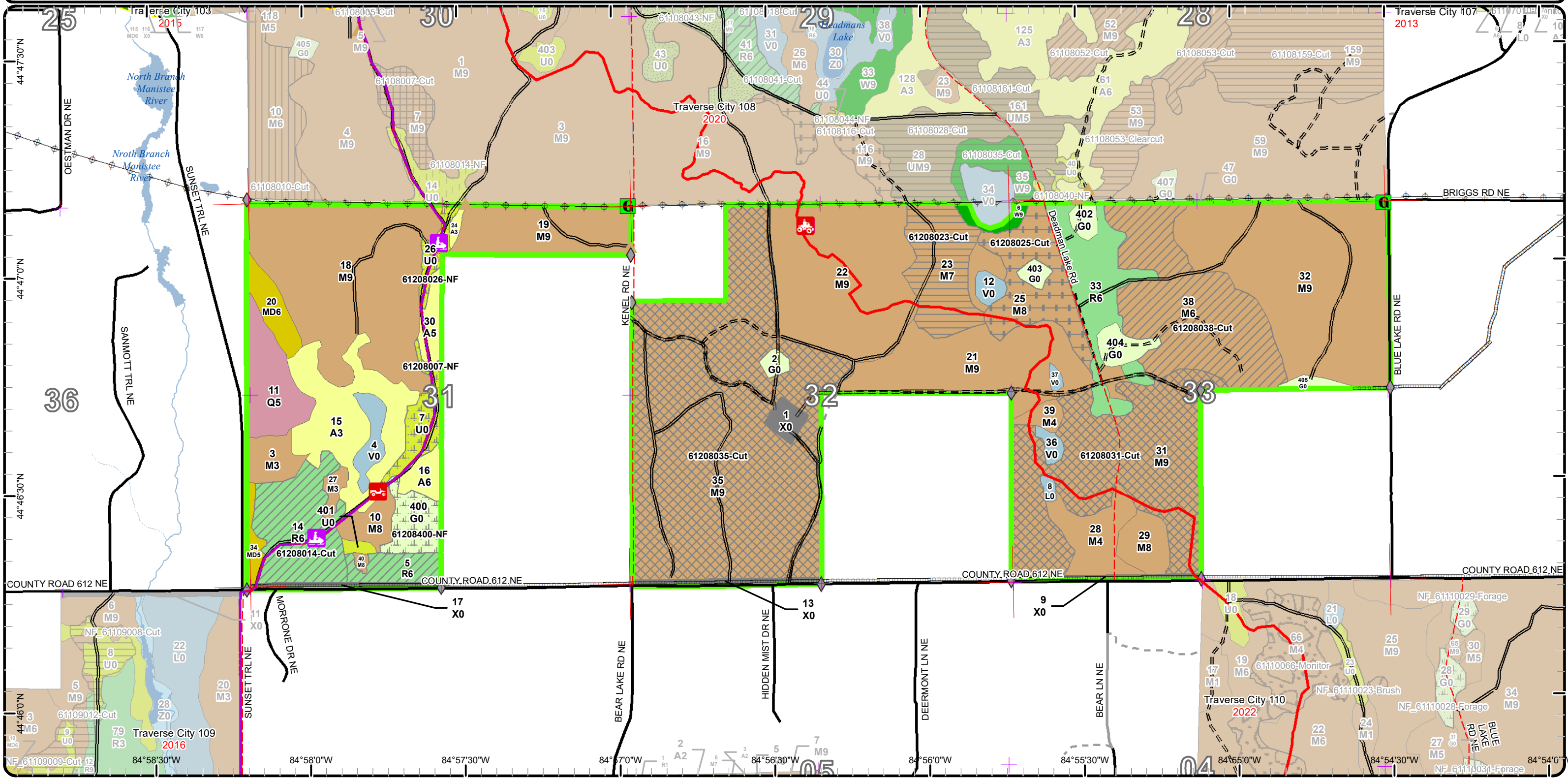
- Base feature information, stand boundaries, cover types, and numbers**
- Proposed treatments**
- Site condition boundaries**
- Details on the road access system**

Cover Type & Treatments Map

Compartment: 208
 T28N-R05W Sec. 31-33
 County: Kalkaska
 Unit: Traverse City
 Mgmt Area: Grayling Ice Contact
 YOE: 2021
 Acres: 1,297 GIS Calculated
 Examiner: Steve Crigier
 Map Revised: 11/6/2019
 Map Phase: Post Review

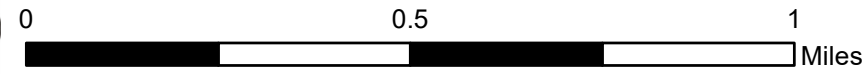


- Miris Corners
- Re monumented Section Corners
- Field Grade Corners
- Counties
- DNR - Secondary Forest Road
- DNR - Forest Access Route
- Federal / State / County - Paved Road
- Federal / State - Dirt / Gravel Road
- County - Dirt Road (Seasonal)
- Private - Paved Road
- Private - Dirt / Gravel Road
- ORV Trails
- ORV Routes
- Snowmobile Trails
- Designated ATV
- Designated ORV Route
- Designated Snowmobile Trails
- Berms
- Gate
- Intermittent Stream
- Lake/Pond
- Perennial River
- Lakes and Rivers
- Pipeline
- Powerline
- Compartment Boundary
- Other Treatment - See Comments
- Selection (Group, Single Tree)
- Clearcut (w/Reserves)
- Havest, Overstory Removal
- Thinning (Crown, Low, Systematic)
- 411 - Northern Hardwood
- 413 - Aspen
- 419 - Mixed Upland Deciduous
- 421 - Planted Pines
- 422 - Natural Pines
- 612 - Lowland Coniferous Forest
- 122 - Roads/Parking Lot
- 310 - Herbaceous Openland
- 330 - Low Density Trees
- 622 - Lowland Shrub



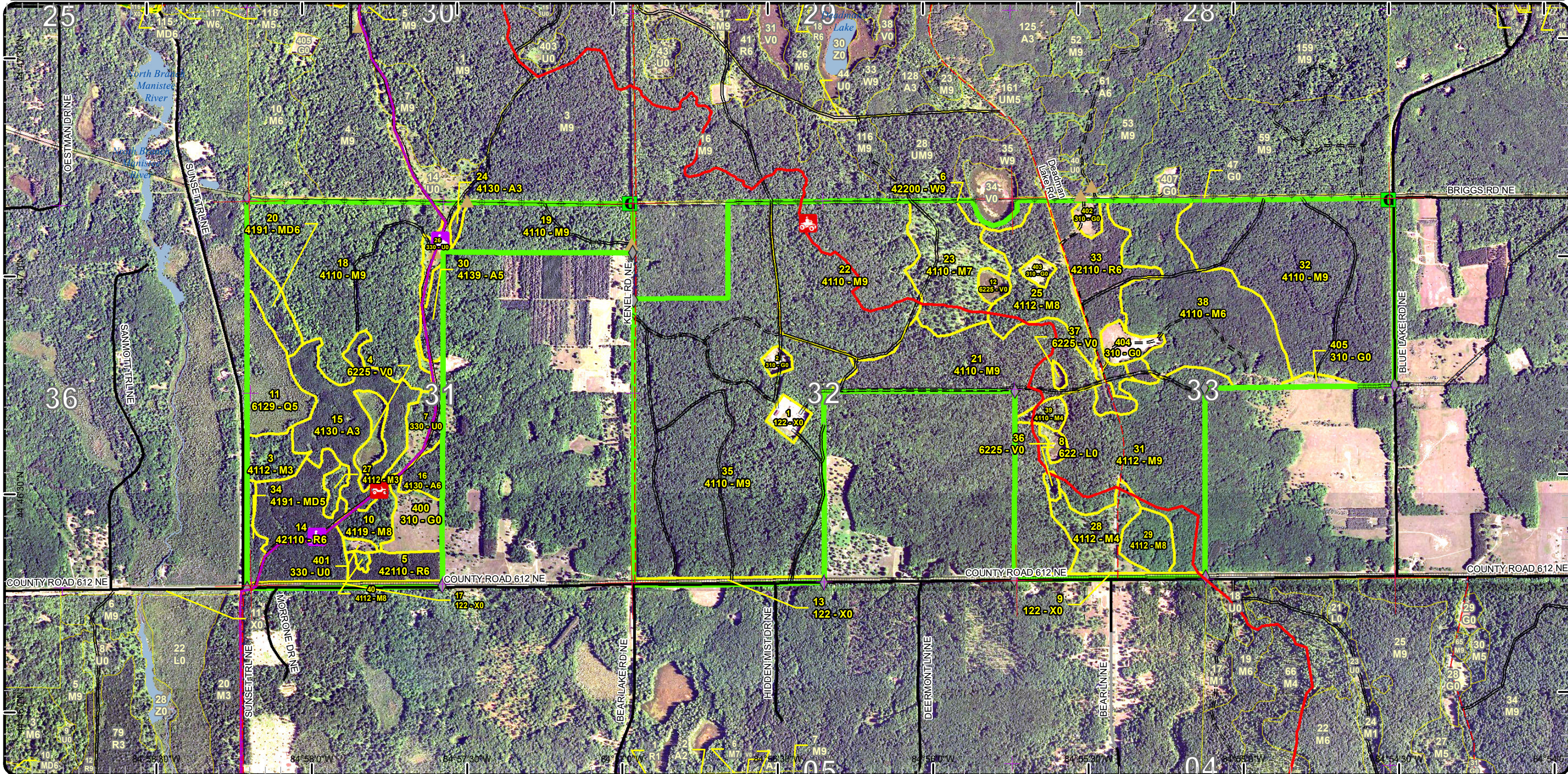
Stand Boundary Map

Compartment: 208
 T28N-R05W Sec. 31-33
 County: Kalkaska
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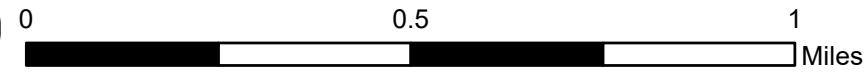
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- Remonumented Section Corners
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- Stand Boundaries

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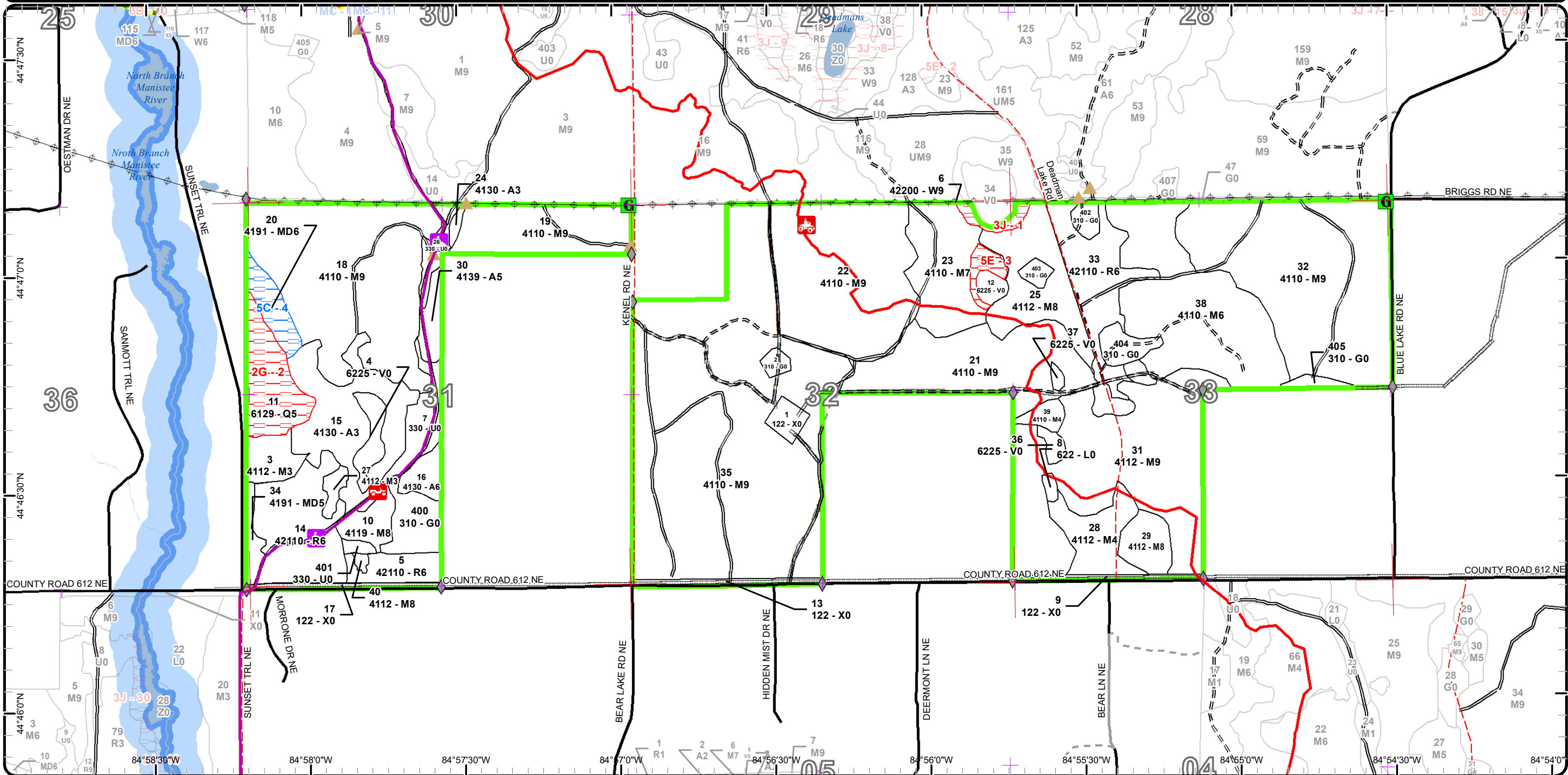


Special Conservation Areas & Site Conditions Map

Compartment: 208
 T28N-R05W Sec. 31-33
 County: Kalkaska
 Unit: Traverse City
 Mgmt Area: Grayling Ice Contact
 YOE: 2021
 Acres: 1,297 GIS Calculated
 Examiner: Steve Crigier
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- 🚙 Snowmobile Trails
- Designated ATV
- Designated ORV Route
- Designated Snowmobile Trails
- ▲ Berms
- G Gate
- Intermittent Stream
- Lake/Pond
- Perennial River
- Lakes and Rivers
- Pipeline
- ⊕ Powerline
- Compartment Boundary
- Available w/ Constraints
- Unavailable
- 5C: Delay treatment for age/size class diversity or exceptional site quality
- 2G: Too wet (sensitive soils, does not include access issues)
- 3J: Water quality / BMPs (stream, river, or lake)
- 5E: Long-Term Retention
- Stand Boundaries
- Natural Rivers Vegetative Buffer
- Natural Rivers Zoning District



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+	Unnever-Aged	Total
Aspen	0	0	2	46	7	0	0	0	0	0	0	0	0	0	0	0	0	8	63
Bog	15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	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	22	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	22
Lowland Conifers	0	0	0	0	0	25	0	0	0	0	0	0	0	0	0	0	0	0	25
Lowland Shrub	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
Mixed Upland Deciduous	0	0	0	0	5	0	0	0	0	11	0	0	0	0	0	0	0	0	16
Northern Hardwood	0	0	0	4	30	4	12	0	77	755	0	0	0	0	0	0	0	127	1009
Red Pine	0	0	0	0	88	0	0	0	0	0	0	0	0	0	0	0	0	0	88
Urban	20	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	20
White Pine	0	0	0	0	0	0	0	0	0	0	4	0	0	0	0	0	0	0	4
Total	92	0	2	50	130	29	12	0	77	766	4	0	0	0	0	0	0	135	1297



Report 2 – Treatment Summary

Traverse City Mgt. Unit
Year of Entry: 2021

Acres of Harvest

Compartment 208
Total Compartment Acres: 1,297

Commercial Harvest - 562
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
Northern Hardwood	35	357	0	0	0	83	35	0	0	510
Red Pine	0	0	0	0	0	51	0	0	0	51
Total	35	357	0	0	0	135	35	0	0	562

Proposed and Next Step Treatments by Method

	Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current	562	0	0	0	0	0	0	0	34	596
Next Step	0	35	35	0	0	70	427	0	0	567
Total	562	35	35	0	0	70	427	0	34	1163



Stand Name	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
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Approved Treatments:

5	61208005-Cut	11.4	42110 - Planted Red Pine	Poletimber Well	39	171-200	Harvest	Systematic Thinning	4211 - Planted Red Pine	Even-Aged	No
<p><u>Prescription</u> Third row thin stand. <u>Specs:</u> <u>Next Step</u> <u>Treatments:</u> <u>Acceptable</u> <u>Regen:</u> <u>Other</u> rows might be tight in some spots. <u>Comment:</u> <u>Site Condition</u> <u>Proposed Start Date:</u> 10/1 /2020</p>											
7	61208007-NF	13.2	330 - Low-Density Trees	Nonstocked	44	1-50	NonForestMgt	Fruit Tree/Shrub Planting	3205 - Mixed Upland Shrub		No
<p><u>Prescription</u> Could selectively hand fell woody encroachment to maintain upland brush/grassland community. Leave scattered mast producing trees and shrubs and/or conifers for wildlife food and cover. Plant site appropriate native shrubs and/or mast producing trees for wildlife food and cover. May need to fertilize plantings and protect with wire cages or tubex. <u>Specs:</u> <u>Next Step</u> <u>Treatments:</u> <u>Acceptable</u> <u>Regen:</u> <u>Other</u> Maintain as needed with mowing, native shrub planting, seeding of native grasses/forbs or Forest Certification approved forage, fertilizing, burning, or removal of woody encroachment. <u>Comment:</u> <u>Site Condition</u> <u>Proposed Start Date:</u> 10/1 /2020</p>											
14	61208014-Cut	40.0	42110 - Planted Red Pine	Poletimber Well	39	141-170	Harvest	Systematic Thinning	4211 - Planted Red Pine	Even-Aged	No
<p><u>Prescription</u> Third row thin the stand. Looks to cut any aspen or hardwoods also. <u>Specs:</u> <u>Next Step</u> <u>Treatments:</u> <u>Acceptable</u> <u>Regen:</u> <u>Other</u> See how stand fairs after the thinning. This stand might be a good candidate to convert to hardwoods. <u>Comment:</u> <u>Site Condition</u> <u>Proposed Start Date:</u> 10/1 /2020</p>											



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Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
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23	61208023-Cut	35.0	4110 - Sugar Maple Association	Sawtimber Poor	72	1-50	Harvest	Clearcut with Retention	4211 - Planted Red Pine	Even-Aged	No
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Prescription Clear cut stand and have it chipped to have a clean site for planting red pine. Pair stand with stand 28 in compartment 108 (2020YOE).
Specs: Retention should be along the eastside between the bogs.

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

Acceptable planted red pine.
Regen:

Other Long term MO of hardwoods. After a few thinnings see if sugar maple seeds in underneath the red pine.
Comment:

Site Condition

Proposed Start Date: 10/1 /2019

25	61208025-Cut	34.6	4112 - Maple, Beech, Cherry Association	Sawtimber Medium	70	51-80	Harvest	Overstory Removal	411 - Northern Hardwood	Even-Aged	No
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Prescription Remove the overstory cherry, aspen and maple. Try to protect and advanced sugar maple regen during harvest. Maybe leave a few mature
Specs: scattered mature sugar maple for a seed source. Leave a few white pine for shelter.

Next Step
Treatments:

Acceptable maple, cherry, basswood, birch, white pine, aspen.
Regen:

Other North end is more of a mix of aspen and white pine.
Comment:

Site Condition

Proposed Start Date: 10/1 /2020

26	61208026-NF	6.9	330 - Low-Density Trees	Nonstocked	44	1-50	NonForestMgt	Fruit Tree/Shrub Planting	3205 - Mixed Upland Shrub		No
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Prescription Could selectively hand fell woody encroachment to maintain upland brush/grassland community. Leave scattered mast producing trees and
Specs: shrubs and/or conifers for wildlife food and cover. Plant site appropriate native shrubs and/or mast producing trees for wildlife food and cover. May need to fertilize plantings and protect with wire cages or tubex.

Next Step
Treatments:

Acceptable
Regen:

Other Maintain as needed with mowing, native shrub planting, seeding of native grasses/forbs or Forest Certification approved forage, fertilizing,
Comment: burning, or removal of woody encroachment.

Site Condition

Proposed Start Date: 10/1 /2020



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	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
31	61208031-Cut	113.4	4112 - Maple, Beech, Cherry Association	Sawtimber Well	82	111-140	Harvest	Single Tree Selection	411 - Northern Hardwood	Uneven-Aged	No
<p><u>Prescription Specs:</u> Select cut stand (2nd entry) with a target BA of around 80sqft/ac. Also create some regen gaps about 150'-200' in size. 1 for every 10 acres or so. It would probably be easiest to line these out as mini clear cut areas. Removed most of the beech as BBD is in the stand.</p> <p><u>Next Step Treatments:</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Acceptable Regen:</u> maple, cherry, basswood, birch</p> <p><u>Other Comment:</u> Apply appropriate buffer around bogs. ORV trail passes through the stand so apply trail protection specs. Need to verify the center corner of section 33. There is a piece of rerod there and witnesses but looks a bit unofficial.</p> <p><u>Site Condition</u> <u>Proposed Start Date:</u> 10/1 /2020</p>											
35	61208035-Cut	243.8	4110 - Sugar Maple Association	Sawtimber Well	82	111-140	Harvest	Single Tree Selection	411 - Northern Hardwood	Uneven-Aged	No
<p><u>Prescription Specs:</u> Select cut stand with a target residual BA around 80sqft/ac. Target the trees with top dieback or poor form for harvest. Create some 150'-200' regen gaps. It would be probably best to line these out and try to get about 25 of these in the sale area.</p> <p><u>Next Step Treatments:</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Acceptable Regen:</u> maple, basswood, cherry.</p> <p><u>Other Comment:</u> Fairly nice quality hard maple with average BA 116 sf/acre. Quality is generally better to the west and north. There are some areas of top dieback killing both individual trees and creating small canopy gaps. Unfortunately understory is full of beech and ironwood, even in the canopy gaps. Only saw a few maple at the edge of a road. Topography is rolling hills but very manageable.</p> <p><u>Site Condition</u> <u>Proposed Start Date:</u> 10/1 /2020</p>											
38	61208038-Cut	83.3	4110 - Sugar Maple Association	Poletimber Well	82	111-140	Harvest	Crown Thinning	411 - Northern Hardwood	Uneven-Aged	No
<p><u>Prescription Specs:</u> Thin stand for the first time. Target BA 70-90sqft/ac. Look to remove most of the beech and aspen.</p> <p><u>Next Step Treatments:</u></p> <p><u>Acceptable Regen:</u></p> <p><u>Other Comment:</u> Stand is of medium quality to decent quality. Its on some lightly rolling terrain. There are some pockets of windthrow. BBD is present in the stand. little to no understory. BAs: 140, 130, 140, 120, 150 AVG = 140</p> <p><u>Site Condition</u> <u>Proposed Start Date:</u> 10/1 /2020</p>											



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Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
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400 61208400-NF	13.9	310 - Herbaceous Openland	Nonstocked		Unspecified	NonForestMgt	Fruit Tree/Shrub Planting	3105 - Mixed Upland Herbaceous		No
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Prescription Could selectively hand fell woody encroachment to maintain upland brush/grassland community. Leave scattered mast producing trees and shrubs and/or conifers for wildlife food and cover. Plant site appropriate native shrubs and/or mast producing trees for wildlife food and cover. May need to fertilize plantings and protect with wire cages or tubex.

Specs:

Next Step

Treatments:

Acceptable

Regen:

Other Maintain as needed with mowing, native shrub planting, seeding of native grasses/forbs or Forest Certification approved forage, fertilizing, burning, or removal of woody encroachment.

Comment:

Site Condition

Proposed Start Date: 10/1 /2020

Total Treatment Acreage Proposed: 595.5

Report 4 – Site Conditions

Traverse City Mgt. Unit

Steve Crigier : Examiner

Compartment: 208

Year of Entry: 2021

Availability for Management

Total Acres	Acres Available	Acres Avail		Dominant Site Conditions	5C	2G	3J	5E
		With Condition	Not Available					
62	62	0	0	Aspen				
15	15	0	0	Bog				
33	33	0	0	Herbaceous Openland				
22	22	0	0	Low-Density Trees				
25	0	0	25	Lowland Conifers		25		
1	1	0	0	Lowland Shrub				
16	5	11	0	Mixed Upland Deciduous	11	0		
1010	1005	0	5	Northern Hardwood			0	5
88	88	0	0	Red Pine				
20	20	0	0	Urban				
4	0	0	4	White Pine			4	
1,297	1,253	11	33	Total Forested Acres	11	25	4	5
	97%	1%	3%	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)	4	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
2	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	25	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
3	Unavailable	5E: Long-Term Retention	5	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

Traverse City Mgt. Unit
Steve Crigier : Examiner

Compartment: 208
Year of Entry: 2021

4	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	11	Unspecified	Unspecified	Unspecified	Unspecified
Comments: cut when stand 18 is ready to be thinned.							

Mgt. Unit

Compartment: #Type!

Year of Entry:



Report 5 – PROPOSED SPECIAL CONSERVATION AREA* (SCA) DETAILS

* This is a partial list of SCAs for this compartment. Not included are those areas identified under other Department initiatives (Natural Rivers, Deer Wintering Areas, etc.). Those will be identified in separate, future map and report products.

SCA Name	SCA Category	Detail Type	Recommendation	Acres
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Comments



Report 6 – EXISTING SPECIAL CONSERVATION AREA DETAILS

* This is a list of SCA's for this compartment along with a 1/4 mile buffer surrounding the compartment. Refer to the Special Conservation Area Map for locations of the below listed Conservation Areas.

ERA = Ecological Reference Area
 HCVA = High Conservation Value Area
 SCA = Special Conservation Area

Conservation Area	Type	Description
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	Managed Site	General Comments																																						
1	122 - Road/Parking Lot	Nonstocked	5.0		Unspecified	No	OPIC - FMD: Sour Gas Sweetening Plant owned by KCS. Essentially no ground cover on the site. Plant is fenced and gated. Former owners include Amoco, Savoy and Hawkins Oil. Three pipelines lead to or from this facility.																																						
2	310 - Herbaceous Openland	Nonstocked	2.8		Unspecified	No	OPIC - FMD: Sour Gas Sweetening related site with valves from pipelines. Clearing has some vegetation on the ground but no timber.																																						
3	4112 - Maple, Beech, Cherry Association	Sapling Well	10.3	35	1-50	N/A	Mostly small red maple with some scattered log and pole sized cherry.																																						
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4	6225 - Bog	Nonstocked	7.7		Unspecified	No	OPIC - FMD: Pothole like setting with stand down over a steep bank. Stand consists of an island of Lowland brush surrounded by marsh grasses and a few cattails.																																						
5	42110 - Planted Red Pine	Poletimber Well	11.4	39	171-200	N/A	OPIC - FMD: Planted in 1982 - Plantation has gaps in it. - Mostly 4 stick trees, good stocking. Rows are fairly narrow. Some scattered porcupine damage. BAs: 170, 180, 200.																																						
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6	42200 - Natural White Pine	Sawtimber Well	3.8	90	81-110	N/A	Large white pine along the edge of the bog.																																						
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7	330 - Low-Density Trees	Nonstocked	13.2	44	1-50	No	OPIC - FMD: This area contains a mixture of grass openings and sparse timberlands. Lots of cherry in places. Ground cover includes blackberry, grass and bracken fern.																																						
8	622 - Lowland Shrub	Nonstocked	1.5	182	1-50	No	OPIC - FMD: ORV Trail passes through the northern edge of this stand. Scattered cherry with small aspen clone in SE part of stand																																						
9	122 - Road/Parking Lot	Nonstocked	4.2	0	Unspecified	No																																							
10	4119 - Mixed Northern Hardwoods	Sawtimber Medium	9.4	82	51-80	N/A	OPIC - FMD: 1/17/12 Stand thinned down to 80sqft/ac, all aspen was removed '1 hour hardwood' - Maple is seeding into the more open canopy areas, skids trail and such. Heavier canopy has more ironwood and beech underneath.																																						
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11	6129 - Mixed Coniferous Lowland Forest	Poletimber Medium	24.8	44	1-50	N/A	OPIC - FMD: Tamarack, spruce and cedar occupy this site. Very wet soil, some tag alder. No merchantable timber yet. No site index taken - estimated.																															
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12	6225 - Bog	Nonstocked	3.7		Unspecified	No	OPIC - FMD: No trees - leatherleafbog with pockets that hold water most years. No cattails, just leatherleaf and some marsh grasses. Bog lies in a pronounced depression that is 10-12' lower than the surrounding stands.																															
13	122 - Road/Parking Lot	Nonstocked	5.8	0	Unspecified	No	j																															
14	42110 - Planted Red Pine	Poletimber Well	40.0	39	141-170	N/A	- OPIC - FMD: Planted in 1982 - Plantation has gaps in it. There is considerable competition from cherry that is mixed into the stand. Open areas have lots of bracken fern ground cover. Red Pine has lots of limbs. - The trees are 3-4 sticks tall with good diameter. Stocking is a bit patchy on the south end with M3/A4 pockets. Good live crown ratio on the trees. Row spacing is wide and very operable. In spots there is a decent amount of advanced hardwood regeneration in the understory. BAs: 190, 160, 220, 150, 160, 130, 150, 170, AVG = 160																															
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15	4130 - Aspen	Sapling Well	46.1	27	Immature	N/A	- OPIC - FMD: Stand was clearcut in 1991-92. 49 acres with 175 cords of Red Maple and 340 cords of Aspen. - Good stem density, some hardwoods mixed in along the north edge of the stand. Trees are about 30' tall.																															
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16	4130 - Aspen	Poletimber Well	7.1	37	51-80	N/A	Stand is converting to a pole stand. Decent stocking. Maple in the understory.																															
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17	122 - Road/Parking Lot	Nonstocked	5.2	0	Unspecified	No																																
18	4110 - Sugar Maple Association	Sawtimber Well	112.2	82	81-110	N/A	- 2004 KGR Note: This stand was a part of a 143 acre hardwood thinning completed 12/16/03 under contract #025-01-1. Stand 18 encompassed 103 acres of the sale. Residual BA was not tracked during cruise, so this figure is estimated to be +/-70 sq ft.. - Stand is made up of medium quality hardwoods. There are some patches of sugar maple regen but it is mostly beech and ironwood. There is some top die back and BBD present. The NCT passes through the stand. BA's 80, 90, 120, 120, 90, 120, 70 AVG = 98																															
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19	4110 - Sugar Maple Association	Sawtimber Well	37.9	82	81-110	N/A	OPIC - FMD: FDF. 2004 KGR Note: Hardwood Thinning was completed here in 12/16/03 as part of a 143 acre timber sale. Sale # 025-01-1 included this 38 acre stand. - Hardwood quality is a bit on the rough side. West end seems to have higher and more consistent stocking. East end has some regen gaps that have filling in with beech and ironwood. BAs: 120, 40, 80, 100, 40, 120 AVG = 83																																	
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20	4191 - Mixed Upland Deciduous with Conifer	Poletimber Well	10.6	82	81-110	N/A	OPIC - FMD: Stand on west aspect slope - This stand is on transition ground down to the bog/swamp. There are pockets of M3 of red maple. Pockets of red pine. The red maple is of pretty poor quality																																	
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21	4110 - Sugar Maple Association	Sawtimber Well	63.2	82	81-110	N/A	OPIC - FMD: Terrain varies from level to rolling. ORV trail bisects the stand. Higher Cherry BA in the eastern part of stand - Stand was thinned in January 2015 'Sour Gas Hardwoods' 61-055-11-01. Residual BA is around 90sqft/ac. Decent quality stand. - Stand recieved some minor wind damage since the thinning in 2015. Beech and Ironwood seem to dominate the understory so that is a concern. A trace of sugar maple in the understory in the NE growing under the cherry. BAs: 100, 110, 60, 90 AVG = 90.																																	
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22	4110 - Sugar Maple Association	Sawtimber Well	89.8	82	81-110	N/A	OPIC - FMD: .Bear Beech Hdwd # 48-03 completed in 2005 - Decent quality Hardwoods. There seems to be a higher beech component on the west side of the stand. BBD is present and there is some scattered top die back in the maple. Some red maple and cherry regen but ironwood and beech seem to dominate. Stocking seems a bit variable. BAs 110, 80, 90, 140, 80, 120, 110 AVG = 104.																																	
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23	4110 - Sugar Maple Association	Sawtimber Poor	40.2	72	1-50	N/A	Lots of grasses, bracken fern, and raspberry. Timber is mostly cherry in the form of saplings, poles and low quality sawlogs. Minor occurrence of aspen. Also scattered white pine and juneberry, sugar maple and basswood. Lots of open spaces. ORV trail passes through the southern edge of this stand.																																	
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24	4130 - Aspen	Sapling Well	1.5	15	Immature	N/A	small pocket of aspen that was cut when stand 19 was thinned. Good TPA, trees are ~ 15' tall.																																	
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25	4112 - Maple, Beech, Cherry Association	Sawtimber Medium	37.3	70	51-80	N/A	Stand is mostly poor quality a cherry over maple saplings. North of the well pad has more of an aspen and white pine component. The cherry like it is starting to decline.																																								
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26	330 - Low-Density Trees	Nonstocked	6.9	44	1-50	No	OPIC - FMD: This area contains a mixture of grass openings and sparse timberlands. Lots of cherry in places. Ground cover includes blackberry, grass and bracken fern.																																								
27	4112 - Maple, Beech, Cherry Association	Sapling Well	3.5	27	Immature	N/A	for the most part good stocking. Trees are 15-20' tall																																								
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28	4112 - Maple, Beech, Cherry Association	Poletimber Poor	20.4	30	1-50	N/A	Trail passes through the northern edge of this stand. Scattered cherry with small aspen clones																																								
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29	4112 - Maple, Beech, Cherry Association	Sawtimber Medium	11.7	50	51-80	N/A	Stand is mostly poor quality cherry and red maple. A good amount of maple in the understory. Cherry is starting to decline. Stocking is variable. Lots of age and size classes. There is some aspen along the west side.																																								
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30	4139 - Aspen, Mixed Deciduous	Poletimber Medium	7.7	30	Immature	N/A	Stand is made up of small aspen clones and pockets of M2/M3. Large scattered basswood. Snow trail runs through the stand.																																								
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31	4112 - Maple, Beech, Cherry Association	Sawtimber Well	114.7	82	111-140	N/A	OPIC - FMD: ORV trail bisects the stand. Good mixture of sawlog/pole/saplings. Terrain is rolling. Stand thinned in Spring 2003 (Sale #013-01-1 Deadman's Lake) - Nice quality Hardwoods, some sugar maple regen out there. NW part of stand has more pole sized trees. BAs: 140, 110, 130, 140, 110, 100, 120 AVG = 121.																																								
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32	4110 - Sugar Maple Association	Sawtimber Well	126.7	82	81-110	N/A	<p>- A TSI was done on 120 acres here in 1979. That exposed a lot of crop trees and immensely improved the stand. The BA is somewhat lower at the south end of the stand. 2004 KGR Notes: - Timber sale completed 11/25/03 by AJD Forest Products. Thinning of hardwood under contract 035-01-01. This 128 acre stand was marked by Ken Rouston. Lots of nice hard maple crop trees on the site now after the harvest. Cruise indicated +/- 67 sq ft of residual timber. Hard Maple dominates stand but there is some Beech, Black Cherry, Red Maple, Basswood and Yellow Birch in the stand. - Nice quality timber. Starting to get a good amount of sugar maple regen in the stand. East end of the stand has a bit more beech creeping in. BBD is present in the stand as well. Noticed some top dieback and individual dead trees. This area was hit hard by the eastern tent caterpillar in 2009 and 2010. BAs: 120, 90, 80, 90, 90, 100, 130, 100 AVG = 100.</p>																																						
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33	42110 - Planted Red Pine	Poletimber Well	36.9	39	111-140	N/A	<p>Red pine has good diameters but is short. Mostly 3 stick trees some up around 4. Stems are very limby and have good live crowns. Quiet a few gaps in the plantation and overall stocking is variable. BAs: 180, 100, 150, 120 AVG = 137</p>																																						
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34	4191 - Mixed Upland Deciduous with Conifer	Poletimber Medium	4.9	39	51-80	N/A	<p>Stand is a mixed stand. Still pretty young</p>																																						
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35	4110 - Sugar Maple Association	Sawtimber Well	243.8	82	111-140	N/A	<p>OPIC - FMD: Overworked hwd sale. 43-01 completed 9/04. Good mixed generation dkj</p> <p>Fairly nice quality hard maple with average BA 116 sf/acre. Quality is generally better to the west and north. There are some areas of top dieback killing both individual trees and creating small canopy gaps (somewhat visible in 2016 NAIP imagery). Unfortunately understory is full of beech and ironwood, even in the canopy gaps. Only saw a few maple at the edge of a road. Topography is rolling hills but very manageable.</p>																																						
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36	6225 - Bog	Nonstocked	2.7		Unspecified	No	<p>OPIC - FMD: Leatherleaf Bog in center with water around the leatherleaf, then marsh grasses along the edges. Still has water despite the dry summer. The stand is down in a depression some 15-20' lower than the surrounding stands.</p>																																						
37	6225 - Bog	Nonstocked	1.2		Unspecified	No	<p>OPIC - FMD: Center is leatherlea, then a small wet area that holds water, then marsh grasses along the edge. Not as good of a water holding capacity as the bog 500' to the south. Sour gas pipeline directly south of the stand.</p>																																						



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																
38	4110 - Sugar Maple Association	Poletimber Well	83.3	82	111-140	N/A	Stand is of medium quality to decent quality. Its on some lightly rolling terrain. There are some pockets of windthrow. BBD is present in the stand. little to no understory. BAs: 140, 130, 140, 120, 150 AVG = 136																																
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39	4110 - Sugar Maple Association	Poletimber Poor	4.4	40	1-50	N/A	This area contains a mixture of grass openings and sparse timberlands. Lots of cherry in places with maple seeding in. The stand is directly between two pothole bogs. ORV trail bisects the stand.																																
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40	4112 - Maple, Beech, Cherry Association	Sawtimber Medium	1.0	82	51-80	N/A	pocket of open grown hardwood.																																
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400	310 - Herbaceous Openland	Nonstocked	13.9		Unspecified	No	OPIC - FMD: Grass opening, part of an old homestead.																																
401	330 - Low-Density Trees	Nonstocked	1.7		Unspecified	No	OPIC - FMD: Grass opening resulting from once being part of an old farmstead.																																
402	310 - Herbaceous Openland	Nonstocked	3.8		Unspecified	No	OPIC - FMD: Grass opening resulting from once being a well site. Currently a detoxification permit is issued on the site and monitoring wells are scattered across the stand.																																
403	310 - Herbaceous Openland	Nonstocked	2.8		Unspecified	No	OPIC - FMD: Grass opening that was used for gas/oil purposes. Site is revegetated with knappweed and some grasses. Two bluebird boxes are located on the East side of the stand.																																
404	310 - Herbaceous Openland	Nonstocked	7.1		Unspecified	No	OPIC - FMD: Abandoned gravel pit. - now being used by the locals as a shooting range. CO has been notified.																																
405	310 - Herbaceous Openland	Nonstocked	2.9		Unspecified	No	Looks to be a possible trespass issue.																																