



Compartment Review Presentation

Atlanta Forest Management Unit

Compartment 54085

Entry Year 2022

Acreage: 1,680

County Alpena

Management Area: Alpena Lake Plain

Revision Date: 2020-05-18

Stand Examiner: Dale Parris

Legal Description:

T29N R09E Sections 29, 30, 31, 32, and 33

Identified Planning Goals:

All harvests have been prescribed following the direction indicated in the Alpena Lake Plains Management Area (ALPMA) Plan and Timber Analysis. In all cases the unique characteristics of the individual stand was taken into consideration when writing the prescription. The most prevalent covertypes in the ALPMA for the 2022 Year of Entry (YOE) are the aspen, cedar, lowland conifers, lowland aspen/balsam, and lowland deciduous covertypes. As such, for the purpose of balancing the age class acre distributions of these covertypes across the Management Area (MA), forest management during the 2022 YOE in the ALPMA will focus on these covertypes. Wildlife, recreation, aesthetics, adjacent stands and the larger landscape were considered in all management decisions.

Soil and topography:

The topography of Compartment 85 is flat with a few with softly rolling hills in the eastern upland areas of the compartment. Most of the compartment is lowland with saturated organic soils.

Approximately 80 percent of the soils in Compartment 85 are muck type organic lowland soils with poor drainage. The most prevalent of these soils are the very poorly drained Lupton muck and Tawas muck. Lupton muck makes up greater than 60 percent of the compartment's soil and it is located centrally in the compartment.

The only upland soil within Compartment 85 lies along the western and eastern ends of the compartment. The upland soil in the southwestern corner of the stand is mainly East lake sand (somewhat poorly drained). Along the eastern end of the stand the upland soils are Battlefield sand (somewhat poorly drained), Croswell sand (moderately well drained), and Rubricon sand (excessively drained).

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

The location of Compartment 85 is south of Ossineke, MI and is rather remote. Western and southern portions of Compartment 85 are bordered by more state land. The southeastern portion of the Compartment is bordered by Negwegon State Park. The rest of Compartment 85 is border by large parcel recreational properties.

Unique Natural Features:

For the most part, Compartment 85 comprises vast areas of flat lowland coniferous forest. There are some unique pockets of naturally regenerated red pine at the east end of the compartment. The area just west of Tolan Road contains some narrow pond like flooded areas that were most likely carved out when soil was removed to build up nearby roads and for other purposes in the distant past.

Archeological, Historical, and Cultural Features:

The State Historic Preservation Office (SHPO) did have areas of concern within Compartment 85. For further information, contact the SHPO.

Special Management Designations or Considerations:

The Michigan Natural Features Inventory (MNFI) at the Michigan State University Extension website had record of 3 species historically being in and near Compartment 85 that require consideration when implementing forest management strategies. These species are the Red-shouldered hawk (*Buteo lineatus*; state threatened species), Northern goshawk (*Accipiter gentilis*; state special concerns species), and the Bald eagle (*Haliaeetus leucocephalus*; state special concerns species).

The Natural Heritage Database (NHD) has record of the Negwegon Dune and Swale Ecological Reference Area (ERA) extending 19 acres into the southeast corner of Compartment 85.

The NHD had no record of Special Conservation Area (SCA) or High Conservation Value Area occurrences in Compartment 85.

Watershed and Fisheries Considerations:

Wildlife Habitat Considerations:

This compartment is part of a large scale block of public land providing contiguous wildlife pathways that are necessary for many of our large game animals such as black bear. Habitat components of cedar and wetland complexes as well as aspen provide food and cover for multiple species at a variety of age classes. Wildlife considerations for this compartment primarily focused on managing early successional habitat where opportunity exists; protecting the biological integrity in lowland systems; and enhancing habitat conditions by allowing for opportunity for mesic and lowland conifer maintenance and restoration, as well as snag and coarse-woody debris enhancement. We are working to maintain winter cover areas as well as keep a good age rotation of aspen in this compartment with consideration of adjacent compartments. Species which benefit from our management include white-tailed deer, black bear, ruffed grouse, woodcock, and many other game and non-game species.

Mineral Resource and Development Concerns and/or Restrictions

T29N-R9E, Sections 29-33, Alpena County

Active sand/gravel pits are located southwest of the compartment. There is potential for sand & gravel within the compartment, but much of the compartment is covered by wetlands, which would inhibit surface mining. There has been Antrim Shale gas production just west of the compartment, but this area is at the very edge of the commercial limits of the Antrim play. New Antrim wells in this area would not be economical under current market conditions, and there is unlikely to be additional Antrim development into the compartment. Some deep gas production from the St. Peter Sandstone (Prairie du Chien) has occurred just northeast of the compartment. Active leases exist in the eastern end of the compartment, with some parcels leased as recently as 2019. There may be additional deep gas potential beneath the compartment. No known metallic mineral potential exists in this part of the state.

Vehicle Access:

Compartment 85 is accessible from Tolan Road to the west and Wilds Road to the east. There are minimal tracks forest roads that are open to the public that vehicles or ORV's can use to drive into the inner portions of the Compartment 85. Where they do exist, these access routes are short and are located at the west and east ends of the compartment.

Survey Needs:

For the purpose of conducting timber sales and maintaining legal private/state land boundary posting locations, there may be a need for property line surveys at the north and west edges of Compartment 85. Further investigation will be needed to determine the extent to which these surveys are required.

Recreational Facilities and Opportunities:

There are no state sponsored recreational trails within or in the vicinity of Compartment 85.

Compartment 85 offers good hunting throughout, but access to the inner areas of the compartment is limited as detailed in the Vehicle Access section above. Deer, turkey, grouse, and black bear hunting opportunities are available within Compartment 85 in season with a valid license. Fishing and wildlife viewing opportunities are also present.

Fire Protection:

In the case of a wildland fire, response to Compartment 83 will be from the Alpena DNR office as well as the Sanborn Township Fire Department.

Additional Compartment Information:

The central region of Compartment 85 has large lowland areas dominated by northern white cedar, tamarack, and black spruce. Several small creeks wind through the compartment's interior with the most notable body of water within Compartment 85 being the North Branch of the Black River. Higher ground can be found in the west and east ends of the compartment. Tree species that are most common in the higher ground areas are bigtooth aspen, red oak, red pine, white pine, paper birch, and red maple.

The following reports from the Inventory are attached:

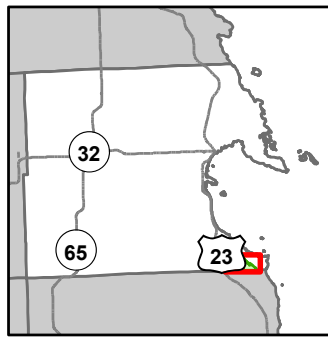
- Total Acres by Cover Type and Age Class**
- Cover Type by Harvest Method**
- Proposed Treatments – No Limiting Factors**
- Proposed Treatments – With Limiting Factors**
- Stand Details (Forested and Nonforested)**
- Dedicated and Proposed Special Conservation Areas**
- Site Condition Details**

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

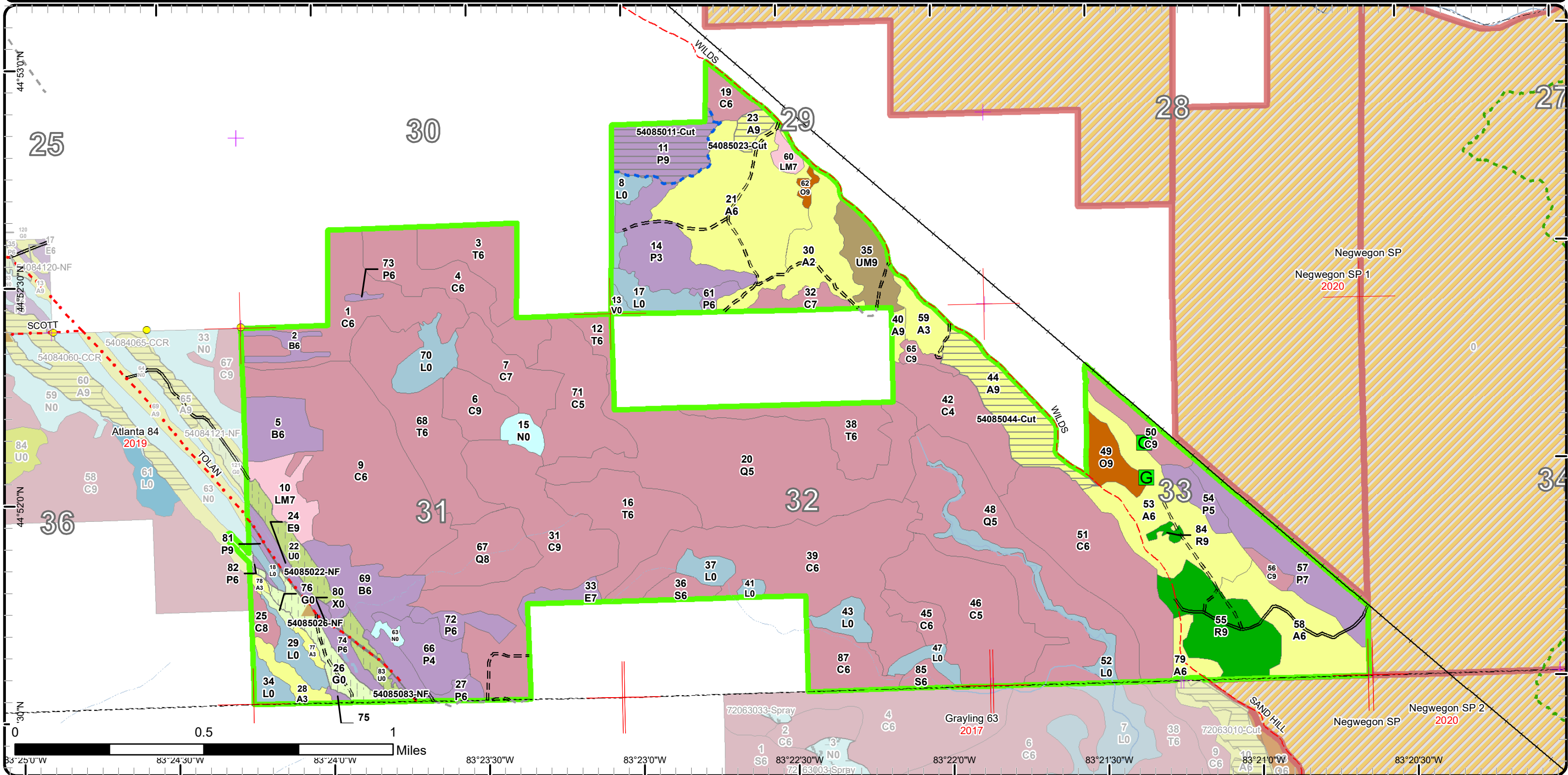
- Base feature information, stand boundaries, cover types, and numbers**
- Proposed treatments**
- Site condition boundaries**
- Details on the road access system**

Cover Type & Treatments Map

Compartment: 85
 T29N, R09E, Sec. 29-33
 T29N, R08E, Sec. 36
 County: Alpena
 Unit: Atlanta
 Mgmt Area: Alpena Lake Plain
 YOE: 2022
 Acres: 1,680 GIS Calculated
 Examiner: Dale Parris
 Map Revised: 10/22/2020
 Map Phase: Post-Review

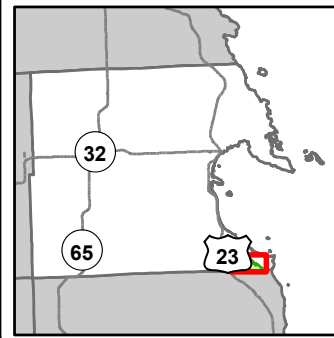


- Miris Corners
- + Remonumented Section Corners
- Survey Grade Corners
- Counties
- DNR - Secondary Forest Road
- DNR - Forest Access Route
- County - Gravel Road
- County - Dirt Road (Seasonal)
- Private - Dirt / Gravel Road
- Active Railroads
- Designated Hiking Trails
- Designated Ski Trails
- Berms
- G Gate
- Intermittent Stream
- Lake/Pond
- Perennial River
- Shoreline
- Lakes and Rivers
- Compartment Boundary
- Treatments with Site Conditions
- Clearcut (w/Reserves)
- Opening Maintenance
- 412 - Oak Types
- 413 - Aspen
- 422 - Natural Pines
- 430 - Upland Mixed Forest
- 611 - Lowland Deciduous Forest
- 612 - Lowland Coniferous Forest
- 613 - Lowland Mixed Forest
- 122 - Roads/Parking Lot
- 310 - Herbaceous Openland
- 320 - Upland Shrub
- 622 - Lowland Shrub
- 623 - Emergent Wetland

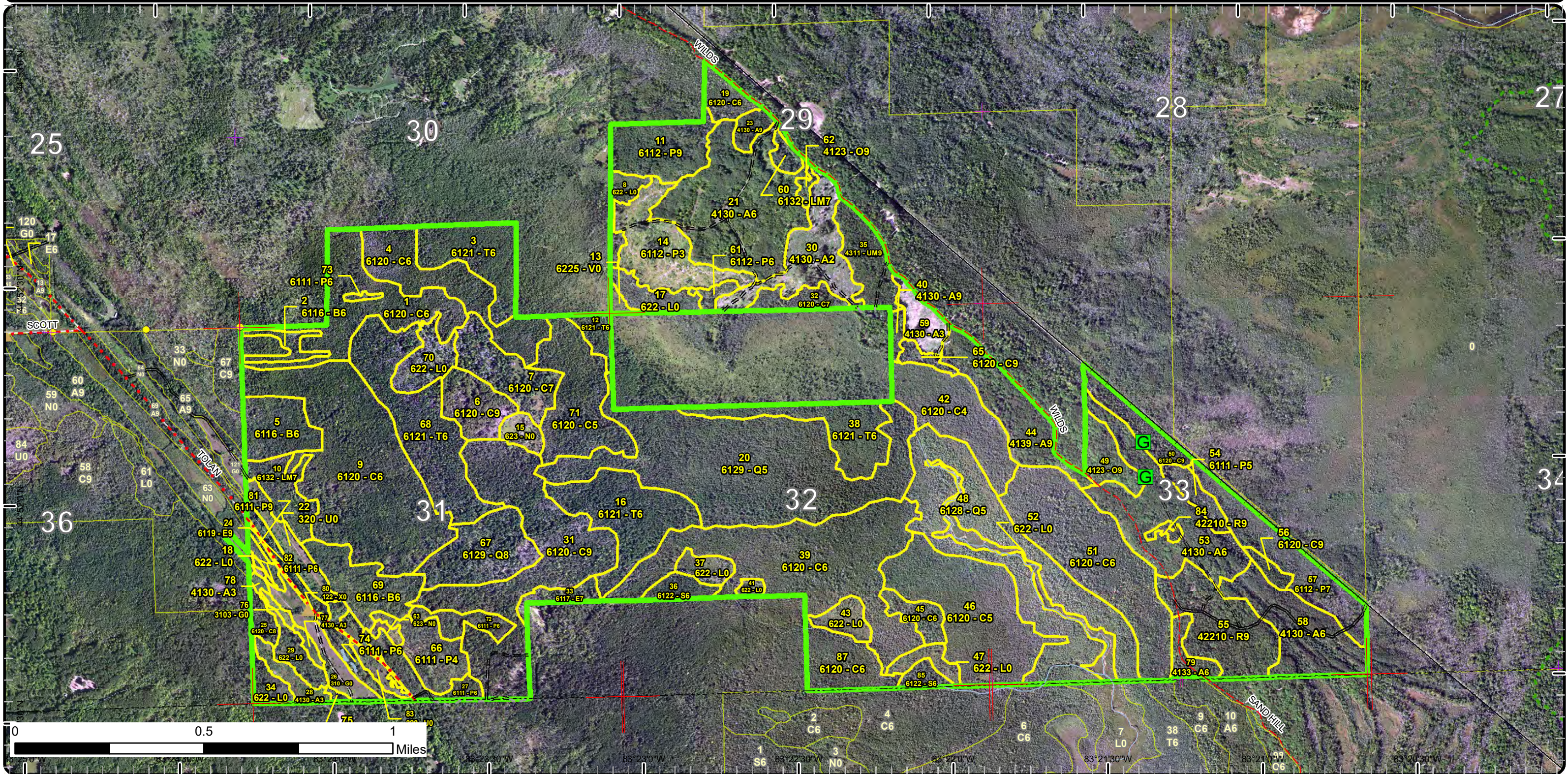


Stand Boundary Map

Compartment: 85
 T29N, R09E, Sec. 29-33
 T29N, R08E, Sec. 36
 County: Alpena
 Unit: Atlanta
 Mgmt Area: Alpena Lake Plain
 YOE: 2022
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Report 1 – Total Acres by Cover Type and Age Class

Atlanta Mgt. Unit
Dale Parris : Examiner

Compartment 85 Year of Entry 2022



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	49	0	0	100	5	84	0	0	0	3	0	0	0	0	0	0	0	241
Bog	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
Cedar	0	0	0	0	0	0	0	0	0	83	200	186	80	99	0	0	0	0	646
Herbaceous Openland	17	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	17
Lowland Aspen/Balsam Poplar	0	30	0	8	49	27	0	0	30	0	0	0	0	0	0	0	0	0	143
Lowland Conifers	0	0	0	0	0	0	0	0	0	0	201	28	0	0	0	0	0	0	229
Lowland Deciduous	0	0	0	0	0	0	0	0	6	0	6	0	0	0	0	0	0	0	12
Lowland Mixed Forest	0	0	0	0	0	0	0	0	0	0	14	4	0	0	0	0	0	0	18
Lowland Shrub	79	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	79
Lowland Spruce/Fir	0	0	0	0	0	0	0	0	0	4	6	0	0	0	0	0	0	0	10
Marsh	7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	7
Oak	0	0	0	0	0	0	0	0	0	0	13	0	0	0	0	0	0	0	13
Paper Birch	0	0	0	0	46	0	0	0	0	0	0	0	0	0	0	0	0	0	46
Red Pine	0	0	0	0	0	0	0	37	0	0	0	0	0	0	0	0	0	0	37
Tamarack	0	0	0	0	0	0	0	0	37	31	74	0	0	0	0	0	0	0	142
Upland Mixed Forest	0	0	0	0	0	0	0	0	17	0	0	0	0	0	0	0	0	0	17
Upland Shrub	19	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	19
Urban	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
Total	126	79	0	8	195	32	84	37	90	118	517	218	80	99	0	0	0	0	1680



Report 2 – Treatment Summary

Atlanta Mgt. Unit

Year of Entry: 2022

Acres of Harvest

Compartment 85

Total Compartment Acres: 1,680

Commercial Harvest - 34
 Harvests with Site Condition - 24
 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	34	0	0	0	0	0	0	0	0	34
Lowland Aspen/Balsam Poplar	24	0	0	0	0	0	0	0	0	24
Total	58	0	0	0	0	0	0	0	0	58

Proposed and Next Step Treatments by Method

	Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current	58	0	0	0	0	0	0	0	33	91
Next Step	0	0	0	0	0	0	58	0	0	58
Total	58	0	0	0	0	0	58	0	33	149



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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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Approved Treatments:

11	54085011-Cut	23.7	6112 - Lowland Aspen	Sawtimber Well	45	81-110	Harvest	Clearcut with Retention	6112 - Lowland Aspen	Even-Aged	No
<p><u>Prescription</u> Clear-cut with retention.</p> <p><u>Specs:</u> Place retention to towards the central/western areas of the stand where the highest tree species diversity is present. Include grouse spec 5.2.4.4 that requires full trees be left on the ground.</p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable Regen:</u> Acceptable regeneration is any medium to well stocked mix of aspen, balsam fir, spruce, and/or maple.</p> <p><u>Other Comment:</u></p> <p><u>Site Condition</u> Survey Needed</p> <p><u>Proposed Start Date:</u> 10/1 /2021</p>											
22	54085022-NF	11.7	320 - Upland Shrub	Nonstocked			Immature NonForestMgt	Herbaceous/Crop /Grass Planting	320 - Upland Shrub		No
<p><u>Prescription</u> Opening will be maintained on an ongoing rotational basis to produce wildlife forage through burning, mowing, planting, or other agriculture practices</p> <p><u>Specs:</u></p> <p><u>Next Step</u></p> <p><u>Treatments:</u></p> <p><u>Acceptable Regen:</u></p> <p><u>Other Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2021</p>											
23	54085023-Cut	4.8	4130 - Aspen	Sawtimber Well	48	81-110	Harvest	Clearcut	413 - Aspen	Even-Aged	No
<p><u>Prescription</u> Clear-cut.</p> <p><u>Specs:</u> Retention is not necessary due to the small size of the stand. Include the grouse specific 5.2.4.7 spec.</p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable Regen:</u> Acceptable regeneration is any medium to well stocked mix of aspen, balsam fir, spruce, and/or maple.</p> <p><u>Other Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2021</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
26	54085026-NF	14.8	310 - Herbaceous Openland	Nonstocked		Unspecified	NonForestMgt	Herbaceous/Crop /Grass Planting	310 - Herbaceous Openland		No
<p><u>Prescription</u> Opening will be maintained on an ongoing rotational basis to produce wildlife forage through burning, mowing, planting, or other agriculture practices</p> <p><u>Specs:</u></p> <p><u>Next Step</u></p> <p><u>Treatments:</u></p> <p><u>Acceptable Regen:</u></p> <p><u>Other Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2021</p>											
44	54085044-Cut	29.5	4139 - Aspen, Mixed Deciduous	Sawtimber Well	59	81-110	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	No
<p><u>Prescription</u> Clear-cut with retention.</p> <p><u>Specs:</u></p> <p>Use stand representative pocket and single tree retention not to exceed 10 percent of stand.</p> <p>Focus the pocket retention around large crowned oak for wildlife mast. Focus single tree retention on red pine that are of good form and are yet to reach log size.</p> <p>Do not cut and cedar or hemlock.</p> <p>Protect all pine regeneration for promoting future stand diversity.</p> <p>Include the grouse specific 5.2.4.7 spec.</p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable Regen:</u> Acceptable regeneration is any medium to well stocked mix of aspen, white pine, red maple, and/or oak.</p> <p><u>Other Comment:</u> Mark cedar and hemlock out of the sale where reasonable, along the western edge of the sale.</p> <p>The goal of the harvest is to regenerate the aspen. The goal of the retention is to have stand representative retention with a focus on putting diameter on pole sized pine and leaving acorn mast for deer.</p> <p>Thin the one acre pocket of red pine, that is west and central in the stand, to 50-60 BA.</p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2021</p>											
83	54085083-NF	6.6	320 - Upland Shrub	Nonstocked		Immature	NonForestMgt	Herbaceous/Crop /Grass Planting	310 - Herbaceous Openland		No
<p><u>Prescription</u> Opening will be maintained on an ongoing rotational basis to produce wildlife forage through burning, mowing, planting, or other agriculture practices</p> <p><u>Specs:</u></p> <p><u>Next Step</u></p> <p><u>Treatments:</u></p> <p><u>Acceptable Regen:</u></p> <p><u>Other Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2021</p>											

Total Treatment 91.1
Acreage Proposed:

Report 4 – Site Conditions

Atlanta Mgt. Unit
Dale Parris : Examiner

Compartment: 85
Year of Entry: 2022



Availability for Management

Total Acres	Acres Available	Acres Avail		Dominant Site Conditions	Dominant Site Conditions				
		With Condition	Not Available		2I	5B	5C	2G	5E
240	184	54	1	Aspen			54		1
2	2	0	0	Bog					
647	218	0	429	Cedar				429	
16	16	0	0	Herbaceous Openland					
143	64	24	56	Lowland Aspen/Balsam Poplar	24			54	1
228	0	0	228	Lowland Conifers				228	
13	6	6	0	Lowland Deciduous		6			
18	5	0	13	Lowland Mixed Forest				13	
79	79	0	0	Lowland Shrub					
11	0	0	11	Lowland Spruce/Fir				11	
7	7	0	0	Marsh					
13	2	11	0	Oak			11		
46	46	0	0	Paper Birch				0	
37	37	0	0	Red Pine					
142	0	0	142	Tamarack				142	
17	0	17	0	Upland Mixed Forest			17		
18	18	0	0	Upland Shrub					
2	2	0	0	Urban					
1,680	687	113	880	Total Forested Acres	24	6	83	877	3
	41%	7%	52%	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	2G: Too wet (sensitive soils, does not include access issues)	782	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

Atlanta Mgt. Unit
Dale Parris : Examiner

Compartment: 85
Year of Entry: 2022



2	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	50	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
3	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	8	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
4	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	8	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
5	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	17	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
6	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	11	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

Atlanta Mgt. Unit
Dale Parris : Examiner

Compartment: 85
Year of Entry: 2022



7	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	47	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
8	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	7	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
9	Available	5B: Maintain for regeneration purposes	6	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
10	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	13	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
11	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	17	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
12	Unavailable	5E: Long-Term Retention	1	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

Atlanta Mgt. Unit
Dale Parris : Examiner

Compartment: 85
Year of Entry: 2022



13	Available	2I: Survey needed	24	Unspecified	Unspecified	Unspecified	Unspecified
Comments: In order to harvest this stand, further investigation of records and on the ground would need to be completed to determine the need for a property corner survey.							
14	Unavailable	5E: Long-Term Retention	1	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

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
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.
ERA	Ecological Reference Areas	Ecological Reference Areas (ERAs) are high quality examples of natural communities that have been identified as Element Occurrences (EOs) by the Michigan Natural Features Inventory (MNFI) within the context of their natural community classification system. Element Occurrences with viability ranks of A (Excellent) or B (Good) and a Global (G) or State (S) element (rarity) ranking of endangered (1), threatened (2), or rare (3) serve as an initial base of ERAs. They may be located upon any ownership in the State. The system is comprised of individual or associations of natural community types that are managed for restoration and maintenance of natural ecological processes and values. The public may submit recommendations for lands as ERAs using the DNR Conservation Area Recommendation Form.



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																												
1	6120 - Lowland Cedar	Poletimber Well	45.6	87	171-200	N/A	This is a nice stand of dense cedar. Pockets of windthrow can be seen towards the north end of the stand in the aerial imagery.																																												
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2	6116 - Lowland Birch	Poletimber Well	5.6	33	1-50	N/A	This was a strip cut in cedar. There is no cedar regeneration present. The center of the stand is a small emergent wetland pocket.																																												
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3	6121 - Tamarack	Poletimber Well	25.3	94	51-80	N/A	These are nice tall straight tamarack. The tamarack are starting to fall out of the canopy as they age out. This soil is too wet to harvest on.																																												
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4	6120 - Lowland Cedar	Poletimber Well	33.8	105	141-170	N/A	The cedar in this stand is short and of smaller diameter. The stand is wet with tag alder and pockets of cattails. To the northwest where the imagery can look blueish-green in the 2016 CIR imagery, the area is very wet, the cedar has dying tops, and there is more dense balsam fir and tamarack in the understory. The opening canopy and wet soils are likely the cause of the difference in the imagery. In the future when the cedar die out of the canopy, due to the excessively wet soils, this northwest pocket could become its own stand.																																												
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5	6116 - Lowland Birch	Poletimber Well	18.3	33	1-50	N/A	This was a cedar stand that was cut and came back mainly to paper birch and balsam poplar. Old cedar stumps can be seen throughout the stand.																																												
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6	6120 - Lowland Cedar	Sawtimber Well	16.2	104	141-170	N/A	This is a stand of nice tall cedar with pockets of windthrow throughout. The areas of windthrow can be seen well in some of the CIR imagery.																																												
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments			
7	6120 - Lowland Cedar	Sawtimber Poor	22.5	104	1-50	N/A	This stand has is very diverse. The stand is borderline emergent wetland. With the larger tamarack dying out of the canopy, this stand is headed towards emergent wetland with pockets of cedar. There are lots of areas of swamp grass, cattail, and red-osier dogwood. Some of the grass may me invasive phragmites. The areas that may be invasive phragmites may be easily determined using the 2016 CIR imagery, and comparing the color to the circular pocket at the north end of stand 15.			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size
Northern White Cedar		85	Log/Pole	10	104	Red Osier Dogwood		Medium	< 5 feet	Tall Shrub
Tamarack		15	Log	15						
8	622 - Lowland Shrub	Nonstocked	6.3			No	Pockets of cedar and balsam poplar are present.			
9	6120 - Lowland Cedar	Poletimber Well	98.5	120	141-170	N/A	There is lots of windthrown cedar along the Western edge of the stand where a harvest opened up the cedar to the wind. The cedar is consistent throughout the stand with varying amounts of paper birch and black spruce scattered throughout. A pocket of cedar windthrow is also present in the southwest portion of the stand.			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size
Balsam Fir		1	Log	12		Tag Alder		Low	5 - 10 feet	Tall Shrub
Northern White Cedar		87	Pole/Log	9	120					
Black Spruce		5	Pole	8						
Paper Birch		5	Pole	8						
Balsam Poplar		2	Log	14						
10	6132 - Mixed Lowland Forest with Cedar	Sawtimber Poor	14.4	99	1-50	N/A	This stand is likely best harvested under the driest of soil conditions. This stand may prove to be too wet to harvest in the future.			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size
Paper Birch		22	Pole/Sapling	6	35	Tag Alder	Medium	5 - 10 feet	Tall Shrub	
Northern White Cedar		25	Log/Pole	12	99	Balsam Poplar	Low	5 - 10 feet	Sapling	
Yellow Birch		5	Pole/Sapling	5		Black Ash	Low	Variable	Sapling	
Basswood		20	Log/Pole	10		White Spruce	Trace	< 5 feet	Sapling	
Balsam Fir		20	Log/Pole	11						
American Elm		1	Pole/Sapling	5						
Balsam Poplar		5	Log/Pole	11						
White Spruce		2	Log/XLog	17						
11	6112 - Lowland Aspen	Sawtimber Well	23.7	45	81-110	N/A	The western portion of the stand has a dense balsam fir understory. Larger aspen, balsam fir, and white spruce can be found towards the center of the stand.			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size
Quaking Aspen		89	Log/Pole	10	45	Black Ash		Medium	Variable	Sapling
Balsam Fir		10	Pole/Log	8		Balsam Fir		High	Variable	Sapling
White Spruce		1	Pole/Log	8		Tag Alder	Low	5 - 10 feet	Tall Shrub	
12	6121 - Tamarack	Poletimber Well	5.7	84	51-80	N/A				
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size
Paper Birch		2	Pole	6		Tag Alder		Medium	5 - 10 feet	Tall Shrub
Tamarack		93	Pole/Log	8	84	Red Osier Dogwood		Medium	5 - 10 feet	Tall Shrub
Northern White Cedar		5	Pole/Sapling	7						



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																				
13	6225 - Bog	Nonstocked	1.9			No	New stand added.																																				
14	6112 - Lowland Aspen	Sapling Well	30.2	7	Immature	N/A	The harvest on this stand was completed on 9/25/13 as part of Timber Sale Name: Smashed Ford Aspen; Timber Sale No.: 54-22-12. All trees with a merchantable stick were harvested. Scattered cedar, hemlock, and pockets of cedar were retained. The retention pockets contain cedar and quaking aspen. Areas driven on hard by harvesting equipment and extreme wet areas frequently have minimal regeneration.																																				
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15	623 - Emergent Wetland	Nonstocked	5.5			No	This stand has a circular pocket of what might be invasive phragmites at the north end. This pocket can be seen in some of the CIR imagery. The northwestern 2/3 of the area is heavy to swamp grasses, while the southeastern 1/3 is dominated by red-osier dogwood and has scattered pole sized black spruce.																																				
16	6121 - Tamarack	Poletimber Well	37.3	74	51-80	N/A	This stand is too wet to harvest and there is no access route present.																																				
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17	622 - Lowland Shrub	Nonstocked	9.7		Immature	No	This area is very wet. There are scattered pockets of cedar throughout the stand. Dead standing black ash is present throughout the stand. For all intensive management purposes this is lowland shrub.																																				
18	622 - Lowland Shrub	Nonstocked	2.6			No	New stand added.																																				
19	6120 - Lowland Cedar	Poletimber Well	8.4	94	1-50	N/A	There is a strip of mature aspen with some pine along Wilds Road to the northeast. This stand likely holds water throughout the year. The canopy contains a large amount of dead standing black ash that were killed by EAB.																																				
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20	6129 - Mixed Coniferous Lowland Forest	Poletimber Medium	118.7	94	111-140	N/A	This stand is too wet to harvest. The black spruce tend to occur in scattered pockets.																																				
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments		
21	4130 - Aspen	Poletimber Well	65.8	31	51-80	N/A	This is a health stand of aspen. Autumn olive is present in open pockets.		
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Quaking Aspen		45	Pole	7	31	Black Ash	Medium	Variable	Sapling
Bigtooth Aspen		38	Pole	7	31	Balsam Fir	Low	Variable	Sapling
Balsam Fir		5	Pole/Sapling	5		White Spruce	Low	Variable	Sapling
Red Oak		1	Log	15		Autumn Olive	Low	5 - 10 feet	Tall Shrub
White Spruce		1	Pole/Sapling	5					
Balsam Poplar		5	Pole	7					
Ironwood		5	Sapling	3					
22	320 - Upland Shrub	Nonstocked	11.7		Immature	No			
Sub-Canopy Species		Density	Avg. Height	Size					
Sumac		High	5 - 10 feet	Tall Shrub					
Autumn Olive		Medium	5 - 10 feet	Tall Shrub					
23	4130 - Aspen	Sawtimber Well	4.8	48	81-110	N/A	This is a nice quality aspen stand that is ready for harvest.		
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Quaking Aspen		96	Log/Pole	10	48	Black Ash	Medium	Variable	Sapling
Balsam Fir		4	Pole	6		Balsam Fir	Medium	Variable	Sapling
24	6119 - Mixed Lowland Deciduous Forest	Sawtimber Well	6.3	71	111-140	N/A	A drainage runs through the entire stand. The red maple are along the bottom of the drainage and the basswood are adjacent to the drainage on higher ground. Sugar maple can be found along the edges. These trees grew fast and look older than they are.		
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple		34	Log/XLog	17	83	Black Ash	Low	Variable	Sapling
Balsam Poplar		5	Log/Pole	10					
Paper Birch		5	Pole/Log	8					
Basswood		43	Log	14	71				
Quaking Aspen		1	Log/Pole	10					
Sugar Maple		10	Log/Pole	12					
American Elm		1	Log	10					
25	6120 - Lowland Cedar	Sawtimber Medium	4.8	100	81-110	N/A	This stand is mostly too wet to harvest. There is a lowland shrub drainage running through the center of it.		
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple		10	Log/XLog	17		Red Osier Dogwood	Low	5 - 10 feet	Tall Shrub
Northern White Cedar		63	Log/Pole	12	100	Black Ash	Low	Variable	Sapling
American Elm		2	Sapling/Pole	4					
Basswood		23	Log/XLog	15					
Balsam Poplar		2	Log/Pole	10					
26	310 - Herbaceous Openland	Nonstocked	14.8		Unspecified	No	The stand looks to be dominated by spotted knap weed.		



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																							
27	6111 - Lowland Balsam Poplar	Poletimber Well	11.3	35	51-80	N/A	All merchantable trees were harvested in the southern 2/3 of this stand from 1984 through 1988. Some scattered larger trees were retained. There is Trace amounts of pole size oak present.																																							
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28	4130 - Aspen	Sapling Well	6.7	6	Immature	N/A	This is a fully stocked aspen stand . The harvest on this stand was completed on 10/6/14 as part of Timber Sale Name: Smashed Ford Aspen; Timber Sale No.: 54-22-12. All trees with a merchantable stick were harvested with the exception of hemlock where present. Some scattered pole sized aspen, spruce, and oak were retained during the last harvest. No hemlock was seen.																																							
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29	622 - Lowland Shrub	Nonstocked	7.9			No	This is lowland shrub with balsam poplar growing along the edges.																																							
30	4130 - Aspen	Sapling Medium	29.4	5	Immature	N/A	The harvest on this stand was completed on 7/29/15 as part of Timber Sale Name: Smashed Ford Aspen; Timber Sale No.: 54-22-12. All trees with a merchantable stick were harvested. Scattered red oak, red pine, white pine, and hemlock were retained. Two retention pockets of uncut timber remain in the South Central portion of the stand. Areas driven on hard by harvesting equipment and extreme wet areas frequently have minimal regeneration.																																							
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31	6120 - Lowland Cedar	Sawtimber Well	79.7	119	111-140	N/A	There is a lot of windthrown cedar in the southern 1/3 of the stand. There is a forest road with a ditch dug leading to the private land in the southern most portion of the stand. A majority of this stand is too wet to harvest.																																							
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32	6120 - Lowland Cedar	Sawtimber Poor	8.3	97	1-50	N/A	This stand has pockets of cedar with balsam poplar surrounded by areas of lowland shrub.																																							
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33	6117 - Lowland Deciduous, Mixed Coniferous	Sawtimber Poor	6.2	96	1-50	N/A	This is a fairly open stand with white birch falling out of the canopy. This stand is mostly too wet to harvest. There is poor access to this stand and the timber volume is on the low end.																																							
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34	622 - Lowland Shrub	Nonstocked	6.1			No	This stand is lowland shrub with dead standing pole sized black ash throughout.																																							
35	4311 - Pine, Aspen Mix	Sawtimber Well	17.4	74	81-110	N/A	All merchantable red maple, aspen, and white birch on high ground were harvested from this stand in 1964. The largest 1/3 of the red pine in the stand are pushing 24 inches in DBH and are 128 years old. White pine and red pine DBH's range in size from pole size to 20 plus inches. Based on the amount of white pine and some red pine in the understory, natural forest succession would lead to a pine dominate stand.																																							
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36	6122 - Black Spruce	Poletimber Well	6.4	92	111-140	N/A	This is a nice black spruce dominated stand that is slow to put on diameter. There is not access to this stand and it is too wet to harvest.																																							
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37	622 - Lowland Shrub	Nonstocked	6.2			No																																								
38	6121 - Tamarack	Poletimber Well	25.4	84	81-110	N/A	This stand is too wet to harvest. Cedar is beginning to fill in the understory.																																							
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39	6120 - Lowland Cedar	Poletimber Well	88.8	105	141-170	N/A	This stand is too wet to harvest. The cedar are stunted due to the saturated soil. Based on the appearance of the cedar canopy, these trees are moderately healthy.																																							
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40	4130 - Aspen	Sawtimber Well	2.7	97	81-110	N/A	This stand is is a remnant left over from the harvest to the east.																																																				
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41	622 - Lowland Shrub	Nonstocked	2.0		Immature	No																																																					
42	6120 - Lowland Cedar	Poletimber Poor	33.0	93	1-50	N/A	wet, very short cedar.																																																				
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43	622 - Lowland Shrub	Nonstocked	7.0			No																																																					
44	4139 - Aspen, Mixed Deciduous	Sawtimber Well	29.5	59	81-110	N/A	All merchantable red maple, aspen, and white birch were harvested from this stand in 1964. There are pockets of hemlock and cedar along the western swamp edge.																																																				
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45	6120 - Lowland Cedar	Poletimber Well	7.9	94	51-80	N/A	This stand is too wet to harvest.																																																				
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46	6120 - Lowland Cedar	Poletimber Medium	59.1	94	1-50	N/A	There is standing water throughout the stand. The cedar crowns are becoming sparse and many are dying due to the over saturated soil.																																																				
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47	622 - Lowland Shrub	Nonstocked	5.8			No																																																					



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48	6128 - Lowland Coniferous, Mixed Deciduous	Poletimber Medium	81.9	96	Unspecified	N/A	This stand is very wet.																																																			
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49	4123 - Red Oak	Sawtimber Well	11.4	98	81-110	N/A	This is an oak Savannah like stand that is quite different from adjacent stands in the area. Harvesting this stand will convert it from being oak dominated to aspen dominated. Hold the stand for the diversity it brings to the area. The oak is of poor form. All merchantable red maple, aspen, and white birch were harvested from this stand in 1964. The stand is likely falsely posted as private along the southern edge. A hunting shack present in the stand is likely illegally placed.																																																			
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50	6120 - Lowland Cedar	Sawtimber Well	12.2	102	141-170	N/A	There is an illegal road leading to the railroad grade with an illegal chain gate within the stand.																																																			
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51	6120 - Lowland Cedar	Poletimber Well	64.8	96		N/A	scattered white pine and red maple. short heights. 2-3 stick.																																																			
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52	622 - Lowland Shrub	Nonstocked	13.0		Unspecified	No	This is lowland shrub with the North Branch of the Black River flowing through it.																																																			
53	4130 - Aspen	Poletimber Well	47.1	54	81-110	N/A	There is a pocket of pine in center of stand. Tree diameters are larger along eastern edge of the stand. All merchantable red maple, aspen, and white birch were harvested from the northwestern 2/3 of this stand in 1964. There is some moderate dune swale topography on the west side of the stand.																																																			
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments	
54	6111 - Lowland Balsam Poplar	Poletimber Medium	7.5	24	1-50	N/A	This is a transition zone that is borderline too wet to harvest. Based on the presence of the balsam poplar, this stand has been harvested in the past.	
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		
Red Maple		15	Sapling	2	24	Black Ash		
Balsam Poplar		65	Pole/Sapling	6	24	High		
Northern White Cedar		10	Log/Pole	11		10 - 20 feet		
Paper Birch		10	Pole/Log	8		Sapling		
55	42210 - Natural Red Pine	Sawtimber Well	35.3	66	81-110	N/A	All merchantable red maple, aspen, and white birch were harvested from 10 acres along the western edge of this stand in 1963. This stand has a mix of mature pine with younger aspen. A goshawk could be heard nesting in the south end of the stand. There are scattered pockets where the red pine could use a crown thinning. 2022 YOE Inventory BA Measurements: (90, 120, 120, 180, 140) 11.5 DBH at 58 years 12" DBH at 69 years	
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		
Red Maple		2	Pole	8		White Pine		
Red Oak		6	Log	14		High		
Paper Birch		2	Pole	8		Variable		
Bigtooth Aspen		15	Pole	8		Sapling		
White Pine		15	Log/Pole	11		Medium		
Red Pine		60	Log/Pole	12	66	Sapling		
56	6120 - Lowland Cedar	Sawtimber Well	3.4	102	171-200	N/A	This stand of cedar has a canopy that offers good wildlife cover. This pocket adds diversity to the immediate area.	
Canopy Species		% Cover	Size Class	DBH	Age			
Balsam Fir		2	Pole/Log	9				
Northern White Cedar		97	Log/Pole	11	102			
Balsam Poplar		1	Log	16				
57	6112 - Lowland Aspen	Sawtimber Poor	30.2	70	1-50	N/A	This stand is a mix of lowland hardwood with pockets of lowland shrub and cedar mixed in. During the 2012 YOE inventory, black ash constituted 60 percent of the canopy. Now all black ash are dead due to EAB; some are standing but most are on the ground. This stand is too wet to harvest.	
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		
American Elm		5	Pole	6		Black Ash		
Red Maple		25	Log/Pole	12		Low		
Quaking Aspen		29	Log/Pole	11	70	Variable		
Paper Birch		5	Log/Pole	10		Sapling		
Northern White Cedar		1	Pole/Log	8		Tag Alder		
Balsam Poplar		35	Log	11	70	High		
						10 - 20 feet		
						Tall Shrub		
58	4130 - Aspen	Poletimber Well	33.7	37	81-110	N/A	According to timber sale records, all trees with the exception of oak were harvested in this stand in 1983; the situation on the ground confirms these records. This stand has a mix of ridges and low ground. There are veins of lowland shrub running north-south through the stand with the occasional cedar pocket adjacent to the low ground. Scattered hemlock are present. There is moderate dune swale topography throughout the stand. The aspen look to be in good health.	
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		
Quaking Aspen		27	Pole/Sapling	6	37	Red Maple		
Bigtooth Aspen		50	Pole/Sapling	6	37	Low		
Balsam Poplar		10	Pole/Sapling	6	37	Variable		
Red Pine		5	Log/Pole	11		Sapling		
Red Oak		2	XLog/Log	20				
Paper Birch		1	Pole	6				
White Pine		5	Pole	8				



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																											
59	4130 - Aspen	Sapling Well	10.0	4	Immature	N/A	The harvest on this stand was completed on 1/19/16 as part of Timber Sale Name: Smashed Ford Aspen; Timber Sale No.: 54-22-12. All trees with a merchantable stick were harvested. Very minimal hemlock and cedar were retained. There is a 1/2 acre pocket of lowland log sized red maple and lowland shrub in the center of the stand.																																											
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60	6132 - Mixed Lowland Forest with Cedar	Sawtimber Poor	3.7	100	1-50	N/A	This is a small stand that was part of a larger harvest. In the stand, a variety mature trees were not harvested and remain as the main stand canopy. Black ash dominate the understory and are heavily deer browsed. Areas of the stand likely hold water all year.																																											
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61	6112 - Lowland Aspen	Poletimber Well	3.2	40	1-50	N/A	This stand was not harvested with the stand to the east.																																											
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62	4123 - Red Oak	Sawtimber Well	2.0	97	51-80	N/A	This pocket of oak was retained during the surrounding harvests. This stand adds some nice diversity to the area while providing hard mast for wildlife.																																											
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63	623 - Emergent Wetland	Nonstocked	1.8		Immature	No																																												
65	6120 - Lowland Cedar	Sawtimber Well	3.6	105	81-110	N/A	The cedar in this small stand have some of the largest cedar diameters in this compartment. This stand makes a nice covertime transition area and adds some diversity in terms of the size of the trees being larger and the stand being different from all adjacent stands.																																											
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments	
66	6111 - Lowland Balsam Poplar	Poletimber Poor	16.5	35	1-50	N/A	This stand is low density and too wet to harvest. Many dead ash are present and most have fallen out of the canopy.	
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		
Balsam Poplar		41	Pole	7	35	Tag Alder		
Paper Birch		50	Pole	7	35	Balsam Poplar		
Balsam Fir		2	Log/Pole	10		Balsam Fir		
Northern White Cedar		1	Log/Pole	10		Density		
Red Maple		5	Pole/Sapling	5		Avg. Height		
American Elm		1	Pole	6		Size		
67	6129 - Mixed Coniferous Lowland Forest	Sawtimber Medium	27.6	100	81-110	N/A	There is much windthrown cedar at the west end of the stand. There is a narrow 3-5 foot wide stream winding the length of the stand. Nice large cedar grow in clumps along the stream and elsewhere. The tamarack and black spruce tend to grow in pockets. This stand is too wet to harvest and access is very limited.	
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		
Northern White Cedar		35	Log	12	100	Black Spruce		
Tamarack		35	Log/Pole	10		Balsam Fir		
Black Spruce		20	Pole/Log	9		Tag Alder		
Balsam Fir		5	Log/Pole	10		Density		
68	6121 - Tamarack	Poletimber Well	48.5	94	81-110	N/A	To determine whether the stand is dry enough ground to harvest it would need to be revisited during dry summer conditions. In general, black spruce reduces in dominance as you move from north to south in the stand.	
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		
Black Spruce		38	Pole/Log	8		Black Spruce		
Tamarack		50	Pole/Log	9	94	Red Osier Dogwood		
Northern White Cedar		10	Log/Pole	11		Tag Alder		
Red Maple		2	Pole	7		Density		
69	6116 - Lowland Birch	Poletimber Well	22.3	35	1-50	N/A	This stand could be too wet to harvest. It would have to be looked at under dry summer conditions. With snow on the ground it was difficult to get a good understanding of the soil's ability to undergo harvest. The paper birch is healthy as of now, but it is difficult to tell how long it will hold before it starts rotting and falling out of the stand. During the winter of 2020, the paper birch was on the small side and was not necessarily desirable for harvesting. In the north end of the stand cedar stumps could be seen that are left over from the last harvest. Tag alder is present throughout the stand, and balsam fir is sparsely present in the understory except for the north end of the stand where it is more dense.	
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		
Paper Birch		75	Pole/Sapling	6	35	Tag Alder		
Balsam Poplar		22	Pole	7		Balsam Fir		
Yellow Poplar (Tulip Tree)		1	Pole	7		Density		
American Elm		1	Pole	8		Avg. Height		
Northern White Cedar		1	Log/Pole	10		Size		
70	622 - Lowland Shrub	Nonstocked	12.1		Immature	No	Tamarack once dominated the canopy but most of it is now dead. The stand is a cross between lowland shrub, emergent wetland, and low density lowland conifer. This stand is too wet the harvest. Only black spruce and a few tamarack remain standing in the sparse canopy.	
Sub-Canopy Species		Density	Avg. Height	Size				
Red Osier Dogwood		Full	5 - 10 feet	Tall Shrub				



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments	
71	6120 - Lowland Cedar	Poletimber Medium	36.9	80	51-80	N/A	Much of the cedar in this stand has stumps/boles that parallel the forest floor before curving upward, making the stand somewhat challenging to walk through. This stand is too wet to harvest and the cedar are of poor quality.	
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		
Northern White Cedar		50	Pole	6	80	Tag Alder		
Tamarack		40	Pole	8		Medium		
Black Spruce		5	Pole	7		5 - 10 feet		
Paper Birch		5	Pole	7		Tall Shrub		
72	6111 - Lowland Balsam Poplar	Poletimber Well	8.2	35	51-80	N/A	All merchantable trees were harvested in the southern 2/3 of this stand from 1984 through 1988. Some scattered larger trees were retained. There is Trace amounts of pole size oak present.	
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		
Balsam Poplar		80	Pole/Log	9	35	Black Ash		
Paper Birch		2	Pole/Log	8		Low		
Basswood		8	Pole	7		Variable		
Quaking Aspen		10	Pole/Log	8	35	Sapling		
						Hawthorn (spp.)		
						Low		
						5 - 10 feet		
						Tall Shrub		
73	6111 - Lowland Balsam Poplar	Poletimber Well	1.0	38	1-50	N/A	This is a small stand cut out of a cedar stand.	
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		
Balsam Poplar		45	Pole	7	38	Tag Alder		
Paper Birch		55	Pole	6	38	High		
						5 - 10 feet		
						Tall Shrub		
						Low		
						5 - 10 feet		
						Tall Shrub		
74	6111 - Lowland Balsam Poplar	Poletimber Well	8.4	39	51-80	N/A	There are long narrow pits that are full of water that happened dug in the northern half of the stand.	
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		
Balsam Poplar		93	Pole/Log	9	39	Red Osier Dogwood		
American Elm		2	Pole/Log	8		Low		
Paper Birch		5	Pole/Sapling	5		5 - 10 feet		
						Tall Shrub		
75	6111 - Lowland Balsam Poplar	Poletimber Well	1.0	39	51-80	N/A		
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		
Balsam Poplar		100	Pole/Log	9	39	Red Osier Dogwood		
						High		
						5 - 10 feet		
						Tall Shrub		
76	3103 - Rubus-Fern	Nonstocked	1.5	0		No	This was part of a larger aspen stand that was harvested. This portion of the previous stand likely had little aspen in it and came back to dense raspberry. The harvest on this stand was completed on 10/6/14 as part of Timber Sale Name: Smashed Ford Aspen; Timber Sale No.: 54-22-12. All trees with a merchantable stick were harvested with the exception of hemlock where present.	
Sub-Canopy Species		Density	Avg. Height	Size				
Blackberry/Raspberry		Full	5 - 10 feet	Tall Shrub				



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments	
77	4130 - Aspen	Sapling Well	1.9	6	Immature	N/A	This is a fully stocked aspen stand . The harvest on this stand was completed on 10/6/14 as part of Timber Sale Name: Smashed Ford Aspen; Timber Sale No.: 54-22-12. All trees with a merchantable stick were harvested with the exception of hemlock where present. Some scattered pole sized aspen, spruce, and oak were retained during the last harvest. No hemlock was seen.	
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		
Paper Birch		1	Sapling	1		Autumn Olive		
American Elm		1	Sapling	1		Low		
Quaking Aspen		93	Sapling	1	6	5 - 10 feet		
Red Oak		2	Sapling	1		Tall Shrub		
Black Ash		2	Sapling	1				
White Spruce		1	Sapling/Pole	3				
78	4130 - Aspen	Sapling Well	1.1	6	Immature	N/A	This is a fully stocked aspen stand . The harvest on this stand was completed on 10/6/14 as part of Timber Sale Name: Smashed Ford Aspen; Timber Sale No.: 54-22-12. All trees with a merchantable stick were harvested with the exception of hemlock where present. Some scattered pole sized aspen, spruce, and oak were retained during the last harvest. No hemlock was seen.	
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		
Paper Birch		1	Sapling	1		Autumn Olive		
American Elm		1	Sapling	1		Low		
Quaking Aspen		93	Sapling	1	6	5 - 10 feet		
Red Oak		2	Sapling	1		Tall Shrub		
Black Ash		2	Sapling	1				
White Spruce		1	Sapling/Pole	3				
79	4133 - Aspen, Mixed Pine	Poletimber Well	7.0	54	81-110	N/A	There is a cedar pocket along the west edge of the stand.	
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		
Bigtooth Aspen		65	Pole/Log	8	54	White Pine		
Red Oak		10	Log/XLog	14		Low		
White Pine		10	Log/XLog	15		Variable		
Red Pine		15	Log/Pole/XLog	11		Sapling		
						Balsam Fir		
						Low		
						Variable		
						Sapling		
80	122 - Road/Parking Lot	Nonstocked	1.6		Immature	No	This is Tolan Road.	
Sub-Canopy Species		Density	Avg. Height	Size				
Sumac		High	5 - 10 feet	Tall Shrub				
Autumn Olive		Medium	5 - 10 feet	Tall Shrub				
81	6111 - Lowland Balsam Poplar	Sawtimber Well	1.0	39	51-80	N/A		
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		
Balsam Poplar		93	Log/Pole	10	39	Red Osier Dogwood		
Quaking Aspen		7	Log/Pole	10	39	Low		
						5 - 10 feet		
						Tall Shrub		
82	6111 - Lowland Balsam Poplar	Poletimber Well	0.9	39	51-80	N/A		
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		
Balsam Poplar		100	Pole/Log	9	39	Red Osier Dogwood		
						Low		
						5 - 10 feet		
						Tall Shrub		

