



Compartment Review Presentation

Gaylord Forest Management Unit

Compartment 52161

Entry Year 2024

Acreage: 558

County Cheboygan

Management Area: Mackinaw Lake Plain

Stand Examiner: Donald Stacks

Legal Description:

T37N R02W, Sections 6, 7. T37N R03W Section 1.

Identified Planning Goals:

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

Soil and topography:

Rubicon-Roselawn sands and Lupton muck on flat ground.

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

Numerous residential homes and a few small family farms are located adjacent to the compartment.

Unique Natural Features:

MNFI listed prairie white-fringed orchid, three-seed sedge, woodland vole.

Archeological, Historical, and Cultural Features:

None listed.

Special Management Designations or Considerations:

None.

Watershed and Fisheries Considerations:

This compartment is within CLMMU and Northern Lake Huron Management Units. No concerns were cited.

Wildlife Habitat Considerations:

Mineral Resource and Development Concerns and/or Restrictions

Multiple active and former sand/gravel pits exist within two miles. There is generally good potential for sand & gravel on upland drumlins in the area, but the compartment appears to be mostly low wetlands with limited potential for development. There is no known potential for economic oil & gas production beneath the compartment. There is no known potential for metallic minerals in this part of the state.

Vehicle Access:

Hill Rd. and Maynard Rd. are seasonal county roads that provide access to the northeast corner of the compartment. a couple forest trail roads run into the compartment from the east off Hill Rd.

Survey Needs:

Possible survey work may be required to establish ownership/property lines for timber sale 52161007. Three corners may need to be set around a private 40 acre parcel.

Recreational Facilities and Opportunities:

No designated trails are found within the compartment.

Fire Protection:

The majority of the compartment is conifer swamp. The Indian River Field Office is located about 20 miles to the south and the Inverness Township VFD is located about 4 miles to the west.

Additional Compartment Information:

The following reports from the Inventory are attached:

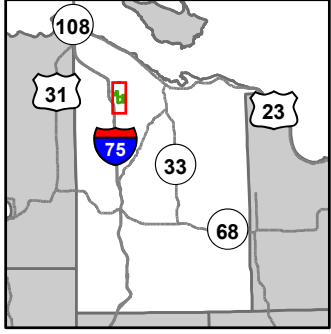
- Total Acres by Cover Type and Age Class**
- Cover Type by Harvest Method**
- Proposed Treatments – No Limiting Factors**
- Proposed Treatments – With Limiting Factors**
- Stand Details (Forested and Nonforested)**
- Dedicated and Proposed Special Conservation Areas**
- Site Condition Details**

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

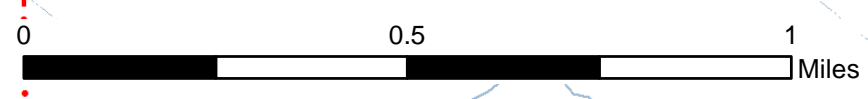
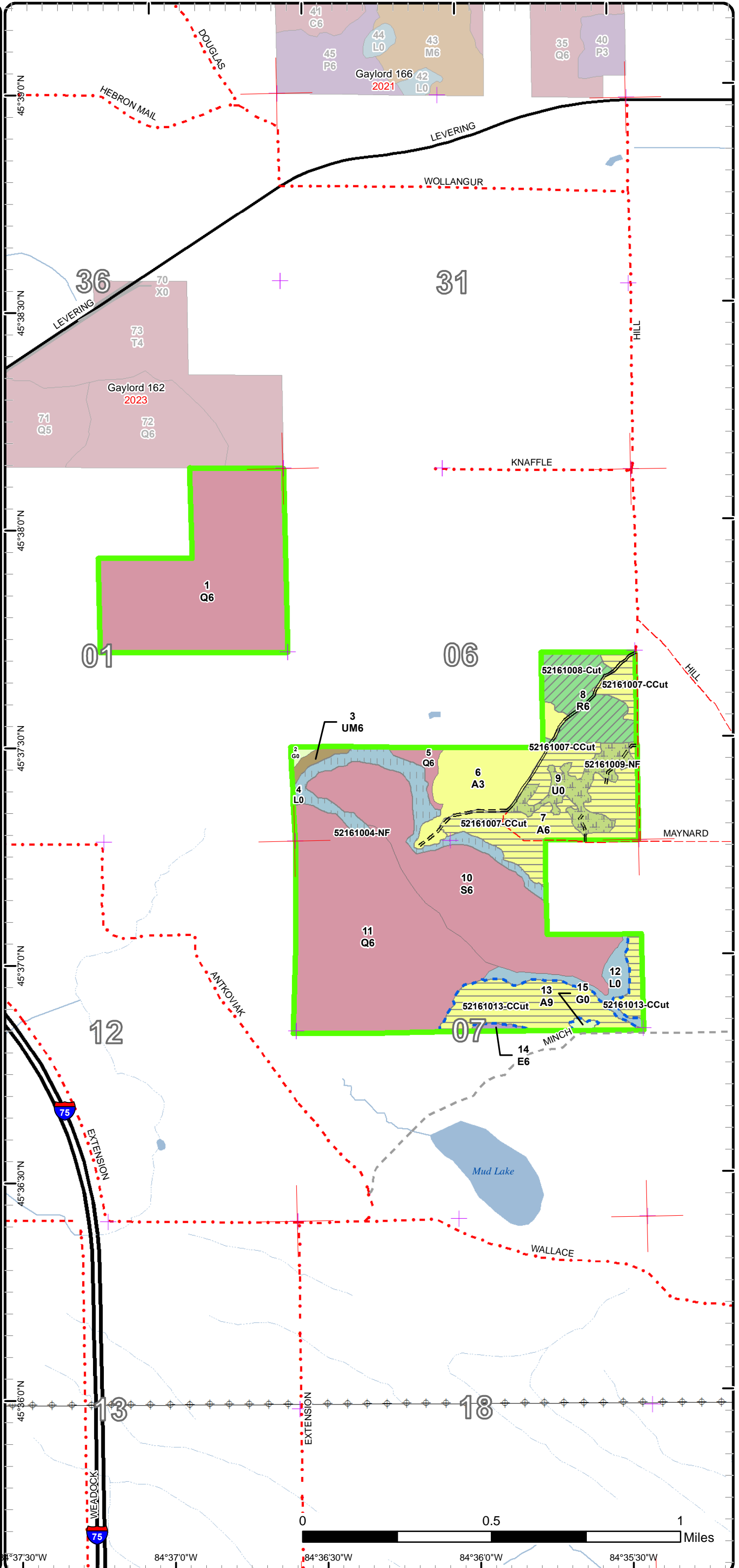
- Base feature information, stand boundaries, cover types, and numbers**
- Proposed treatments**
- Site condition boundaries**
- Details on the road access system**

Cover Type & Treatments Map

Compartment: 161
 T37N, R02W, Sec. 6, 7
 T37N, R03W, Sec. 1
 County: Cheboygan
 Unit: Gaylord
 Mgmt Area: Mackinaw Lake Plain
 YOE: 2024
 Acres: 558 GIS Calculated
 Examiner: Donald Stacks
 Map Revised: 11/15/2022
 Map Phase: Post-Review

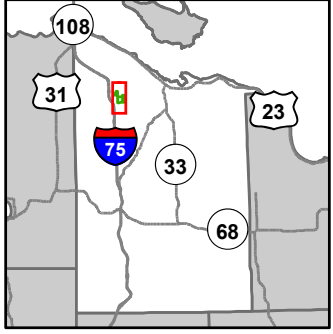


- Miris Corners
- ⊕ Remonumented Section Corners
- Counties
- == DNR - Secondary Forest Road
- == DNR - Forest Access Route
- Federal / State Highway
- Federal / State / County - Paved Road
- · - · County - Gravel Road
- - - County - Dirt Road (Seasonal)
- - - Private - Dirt / Gravel Road
- Intermittent Stream
- Lake/Pond
- Perennial River
- Lakes and Rivers
- ⊕ Powerline
- ▭ Compartment Boundary
- ▭ Treatments with Site Conditions
- ▭ Other Treatment - See Comments
- ▭ Clearcut (w/Reserves)
- ▭ Thinning (Crown, Low, Systematic)
- ▭ Opening Maintenance
- 413 - Aspen
- 421 - Planted Pines
- 430 - Upland Mixed Forest
- 611 - Lowland Deciduous Forest
- 612 - Lowland Coniferous Forest
- 310 - Herbaceous Openland
- 320 - Upland Shrub
- 622 - Lowland Shrub

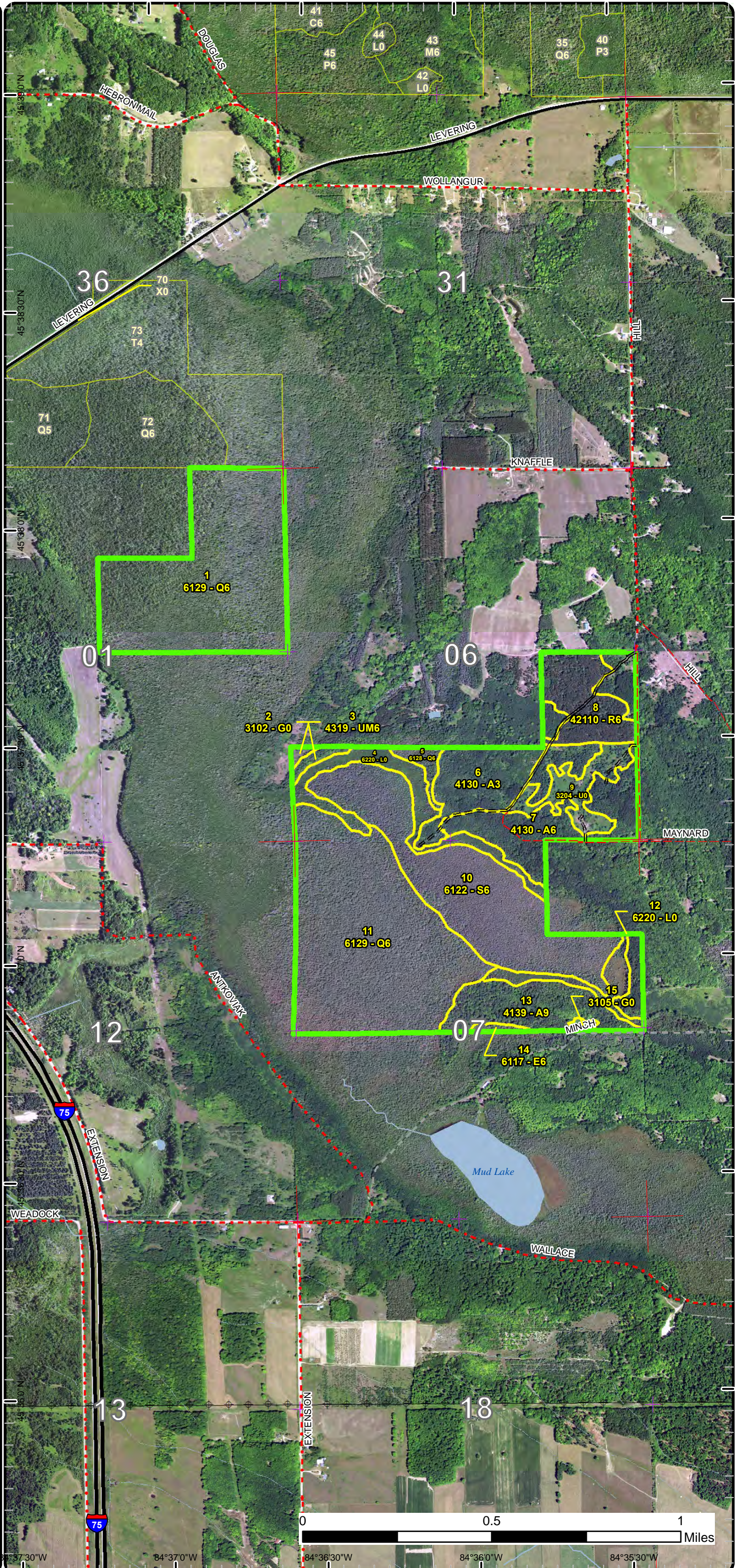


Stand Boundary Map

Compartment: 161
 T37N, R02W, Sec. 6, 7
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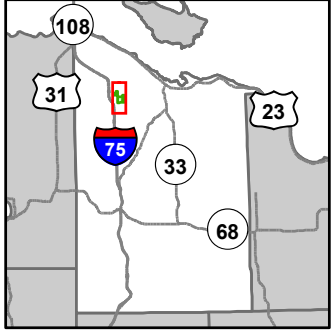


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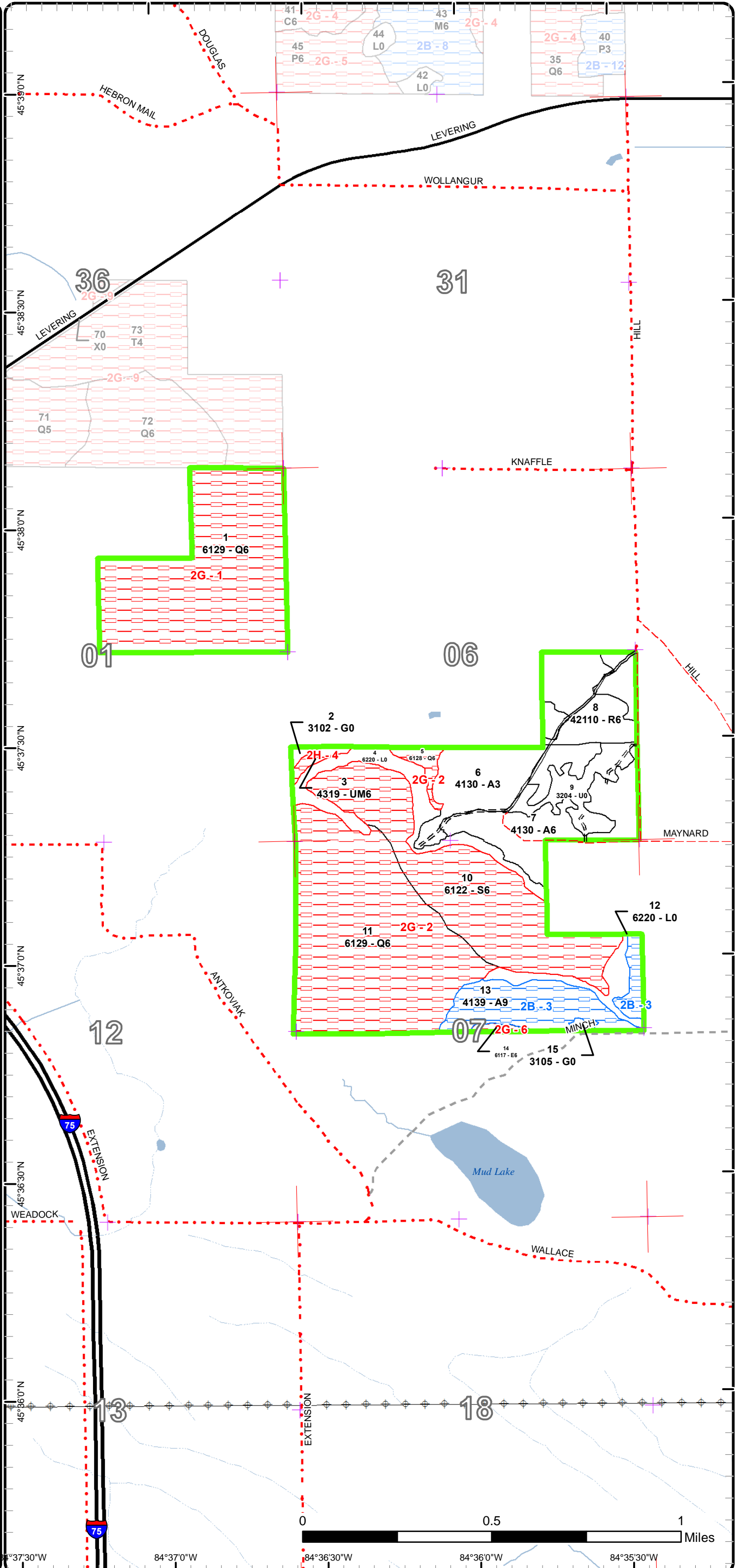


Special Conservation Areas

Compartment: 161
 T37N, R02W, Sec. 6, 7
 T37N, R03W, Sec. 1
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- Lake/Pond
- Perennial River
- Lakes and Rivers
- Powerline
- Compartment Boundary
- Available w/ Constraints
- Unavailable
- 2G: Too wet (sensitive soils, does not include access issues)
- 2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)
- Stand Boundaries
- Cold Water Streams



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	0	32	0	54	0	0	38	0	0	0	0	0	0	0	0	0	124
Herbaceous Openland	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
Lowland Conifers	0	0	0	0	0	0	0	0	117	140	0	0	0	0	0	0	0	0	257
Lowland Deciduous	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	2
Lowland Shrub	35	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	35
Lowland Spruce/Fir	0	0	0	0	0	0	0	0	0	0	90	0	0	0	0	0	0	0	90
Red Pine	0	0	0	0	0	0	0	28	0	0	0	0	0	0	0	0	0	0	28
Upland Mixed Forest	0	0	0	0	0	0	0	3	0	0	0	0	0	0	0	0	0	0	3
Upland Shrub	18	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	18
Total	56	0	0	32	0	54	0	31	157	140	90	0	0	0	0	0	0	0	559



Report 2 – Treatment Summary

Gaylord Mgt. Unit

Year of Entry: 2024

Acres of Harvest

Compartment 161

Total Compartment Acres: 558

Commercial Harvest - 81
 Harvests with Site Condition - 38
 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	92	0	0	0	0	0	0	0	0	92
Red Pine	0	0	0	0	28	0	0	0	0	28
Total	92	0	0	0	28	0	0	0	0	119

Proposed and Next Step Treatments by Method

	Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current	119	0	0	0	0	0	0	42	0	161
Next Step	0	0	0	0	0	92	0	0	0	92
Total	119	0	0	0	0	92	0	42	0	253



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:

4	52161004-NF	23.9	6220 - Alder/willow	Nonstocked		Unspec ified	NonForestMgt	Brush Cutting	6220 - Alder/willow		No
<p><u>Prescription</u> Non-commercial cutting of tag alder and other lowland shrubs, and incidental lowland tree species, for regeneration purposes. Winter treatment only when ground conditions are suitable for equipment to operate without excessive soil rutting.</p> <p><u>Specs:</u></p> <p><u>Next Step</u></p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> Moderately to fully-stocked tag alder and other lowland shrub species.</p> <p><u>Regen:</u></p> <p><u>Other</u> Possible volunteer groups will be part of the project.</p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2023</p>											
7	52161007-CCut	53.6	4130 - Aspen	Poletimber Well	46	81-110	Harvest	Clearcut	4139 - Aspen, Mixed Deciduous	Even-Aged	No
<p><u>Prescription</u> Cut all trees 2" or larger at DBH, except black cherry, incidental oak and hemlock. Also do not cut white pine trees that are 26" or larger. No unharvested retention islands will be left in this sale because of it's smaller size and irregular boundaries. Do not cut any trees with a raptor nest, or obvious den trees found within the sale area. Cut and leave intact on the ground any trees banded with green paint. These trees will serve as ruffed grouse drumming logs. Create 3 - 5 brushpiles of tops along SW boundary of sale adjacent to L stand. Protect areas of wet ground from harvest damage following BMP guidelines. Protect hawthorn and other mast producing shrubs in harvest area, as well as in the adjacent upland brush stand (Stand 9). No harvest equipment will be allowed to operate in Stand 9, except in the immediate designated landing areas.</p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> A moderately to fully stocked stand of mixed aspen/northern hardwood.</p> <p><u>Regen:</u></p> <p><u>Other</u></p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2023</p>											
8	52161008-Cut	27.7	42110 - Planted Red Pine	Poletimber Well	60	201+	Harvest	Crown Thinning	42110 - Planted Red Pine	Even-Aged	No
<p><u>Prescription</u> Mark to restore post-harvest BA to 100 - 120 sq.ft. Concentrate marking to remove larger diameter and/or lesser quality trees.</p> <p><u>Specs:</u></p> <p><u>Next Step</u></p> <p><u>Treatments:</u></p> <p><u>Acceptable</u></p> <p><u>Regen:</u></p> <p><u>Other</u> Red pine plantation in transition from poletimber into sawtimber. Adjacent to private property. Variable quality and stocking density. Rows meander somewhat.</p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 5 /21/2019</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
9 52161009-NF	17.7	3204 - Mast Producing Shrub	Nonstocked		Unspec ified	NonForestMgt	Other - Specify	3204 - Mast Producing Shrub		No
<p><u>Prescription</u> Mow, plant, burn, brush, or herbicide to maintain openings. Plant hard and soft mast.</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 /2023</p>										
13 52161013-CCut	38.1	4139 - Aspen, Mixed Deciduous	Sawtimber Well	71	81-110	Harvest	Clearcut	4139 - Aspen, Mixed Deciduous	Even-Aged	No
<p><u>Prescription</u> Cut all trees 2" or larger at DBH, except black cherry, incidental oak, hemlock, or white pine trees that are 26" or larger. Winter cut only to protect potential wet soil from rutting damage, as well as to protect Minch Rd. from log truck damage. No unharvested retention islands will be left in this sale because of it's smaller size and irregular boundaries. Do not cut any trees with a raptor nest, or obvious den trees found within the sale area. Cut and leave intact on the ground any trees banded with green paint. These trees will serve as ruffed grouse drumming logs. Protect areas of wet ground from harvest damage following BMP guidelines. Protect hawthorn and other mast producing shrubs in harvest area.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable Regen:</u> A moderately to fully stocked stand of mixed aspen/mixed deciduous species.</p> <p><u>Other Comment:</u> Site condition applied. Permission must be granted from multiple landowners to use Minch Rd. for access.</p> <p><u>Site Condition</u> Unknown Access</p> <p><u>Proposed Start Date:</u> 10/1 /2023</p>										

Total Treatment Acreage Proposed: 161

Report 4 – Site Conditions

Gaylord Mgt. Unit
Donald Stacks : Examiner

Compartment: 161
Year of Entry: 2024

Availability for Management

Total Acres	Acres Available	Acres Avail		Dominant Site Conditions	2B	2G	2H
		With Condition	Not Available				
124	86	38	0	Aspen	38	0	
2	2	0	0	Herbaceous Openland			
257	0	0	257	Lowland Conifers		257	
2	0	0	2	Lowland Deciduous		2	
35	35	0	0	Lowland Shrub		0	
90	0	0	90	Lowland Spruce/Fir		90	
28	28	0	0	Red Pine			
3	0	0	3	Upland Mixed Forest			3
18	18	0	0	Upland Shrub			
558	168	38	351	Total Forested Acres	38	348	3
	30%	7%	63%	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)	117	5F: Evaluated for Forest Health Considerations	Unspecified	Unspecified	Unspecified
Comments:							
2	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	230	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

Gaylord Mgt. Unit
Donald Stacks : Examiner

Compartment: 161
Year of Entry: 2024

3	Available	2B: Unknown if access through adjacent landowner(s) is possible	38	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
4	Unavailable	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	3	2B: Unknown if access through adjacent landowner(s) is possible	Unspecified	Unspecified	Unspecified
Comments:							
6	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	2	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
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																															
1	6129 - Mixed Coniferous Lowland Forest	Poletimber Well	117.0	77	111-140	N/A	Dense, lowland conifer swamp with scattered overmature aspen and paper birch on very wet, poorly drained soil. Too wet for harvest without significant soil damage. Site conditions applied.																																															
<table border="1"> <thead> <tr> <th>Canopy Species</th> <th>% Cover</th> <th>Size Class</th> <th>DBH</th> <th>Age</th> </tr> </thead> <tbody> <tr> <td>Northern White Cedar</td> <td>45</td> <td>Pole/Log/Sap</td> <td>8</td> <td>77</td> </tr> <tr> <td>Tamarack</td> <td>15</td> <td>Pole</td> <td>6</td> <td></td> </tr> <tr> <td>Quaking Aspen</td> <td>2</td> <td>Log/Pole</td> <td>12</td> <td></td> </tr> <tr> <td>Balsam Fir</td> <td>38</td> <td>Pole/Sapling</td> <td>6</td> <td></td> </tr> </tbody> </table>		Canopy Species	% Cover	Size Class	DBH	Age	Northern White Cedar	45	Pole/Log/Sap	8	77	Tamarack	15	Pole	6		Quaking Aspen	2	Log/Pole	12		Balsam Fir	38	Pole/Sapling	6		<table border="1"> <thead> <tr> <th>Sub-Canopy Species</th> <th>Density</th> <th>Avg. Height</th> <th>Size</th> </tr> </thead> <tbody> <tr> <td>Balsam Fir</td> <td>Medium</td> <td>5 - 10 feet</td> <td>Sapling</td> </tr> <tr> <td>Leatherleaf</td> <td>Medium</td> <td>Variable</td> <td>Tall Shrub</td> </tr> <tr> <td>Tag Alder</td> <td>Low</td> <td>5 - 10 feet</td> <td>Tall Shrub</td> </tr> </tbody> </table>		Sub-Canopy Species	Density	Avg. Height	Size	Balsam Fir	Medium	5 - 10 feet	Sapling	Leatherleaf	Medium	Variable	Tall Shrub	Tag Alder	Low	5 - 10 feet	Tall Shrub										
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2	3102 - Grass	Nonstocked	1.3		Unspecified	No	Small grass opening adjacent to private property. Difficult access.																																															
3	4319 - Mixed Upland Forest	Poletimber Well	3.0	62	51-80	N/A	Small poletimber stand consisting of a mix of balsam fir and quaking aspen, lying between a small grass opening and tag alder. Difficult access.																																															
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4	6220 - Alder/willow	Nonstocked	23.9		Unspecified	No	Tag alder and other lowland brush on very wet site. Non-commercial treatment prescribed.																																															
5	6128 - Lowland Coniferous, Mixed Deciduous	Poletimber Well	4.9	87	51-80	N/A	Small lowland conifer stand with scattered mixed aspen, paper birch, and red maple. Stand is located adjacent to private property in a transitional area between upland type and tag alder swamp. Too wet to harvest. Site condition applied.																																															
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6	4130 - Aspen	Sapling Well	32.0	26	Immature	N/A	High quality mixed aspen regen from 1996 final harvest. Lesser amounts of mixed northern hardwood also present. Possible final harvest in 20 years.																																															
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7	4130 - Aspen	Poletimber Well	53.6	46	81-110	N/A	Mixed aspen poletimber stand, with lesser amounts of mixed hardwood also found in stand. Areas of aspen sawtimber found throughout the stand. Ave. BA is about 95 sq. ft. presently. Stand surrounds an upland brush stand. Adjacent to private ownership on east and south sides. Prescribe a final harvest this YOE while stand is still vigorous to regenerate aspen. Harvested aspen stand will provide desirable habitat combined with adjacent upland brush stand. Possible survey work may be required for establishing property lines for this sale.																																															
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8	42110 - Planted Red Pine	Poletimber Well	27.7	60	201+	N/A	Red pine plantation in transition from poletimber into sawtimber. Variable quality and stocking density. Some irregular rows present. Current BA is about 210 sq. ft. Stand was marked last YOE, sold, cancelled because producer did not harvest it, resold in 2018, and is currently under contract to be harvested (Cournoyer II RP, 52-108-19). Orange paint is still quite visible. Stand was row-thinned in 1997. Adjacent to private property.																																																																				
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9	3204 - Mast Producing Shrub	Nonstocked	17.7		Unspecified	No	Mixed upland brush (blackberry, hawthorn, pin cherry) and scattered encroaching northern hardwood and mixed aspen.																																																																				
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10	6122 - Black Spruce	Poletimber Well	89.9	90	81-110	N/A	Stand consists almost entirely of black spruce, with scattered tamarack, on very wet, poorly drained soil. Mostly tag alder and other lowland shrubs in understory. Good thermal cover.																																																																				
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11	6129 - Mixed Coniferous Lowland Forest	Poletimber Well	135.0	87	81-110	N/A	Mixed swamp conifer with scattered big-toothed aspen, paper birch, and red maple, on very wet soil. Tag alder and other shrubs in understory. Too wet for harvest. Stand provides good winter thermal cover.																																																																				
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12	6220 - Alder/willow	Nonstocked	11.1		Unspecified	No	Tag alder and other lowland shrubs on very wet site. Too wet for a non-commercial harvest. Also, access issues exist for this stand. The only access to the stand is by way of a privately owned road.																																																																				
13	4139 - Aspen, Mixed Deciduous	Sawtimber Well	38.1	71	81-110	N/A	Stand consists of a mixed aspen sawtimber overstory, some trees showing mortality or loss of vigor, with red maple, balsam fir, paper birch, and sugar maple poletimber scattered throughout stand. Present BA is about 90 sq. ft. A consistent dense balsam fir understory exists in most of stand, with less dense red maple and paper birch saplings present. Areas, mostly edges along swamp, show more moist soils. Stand was prescribed for harvest the last two YOE's. Access issue.																																																																				
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14	6117 - Lowland Deciduous, Mixed Coniferous	Poletimber Well	1.7	74	81-110	N/A	Stand consists of a narrow strip of mixed aspen/hardwood overstory with balsam fir and cedar beneath, on poorly drained soil. Too wet to harvest without excessive soil damage. Current BA is about 90 sq. ft. Stand provides good winter thermal cover. Adjacent to private property and aspen stand prescribed for harvest. Access road is privately owned.					
								Canopy Species	% Cover	Size Class	DBH	Age
								Quaking Aspen	30	Log/Pole	10	74
								Balsam Fir	15	Pole	6	
								Northern White Cedar	15	Pole/Sapling	6	
Red Maple	30	Pole/Log	8									
Sub-Canopy Species	Density	Avg. Height	Size									
Balsam Fir	Full	10 - 20 feet	Sapling									
15	3105 - Mixed Upland Herbaceous	Nonstocked	1.2		Unspecified	No	Small grass/fern opening adjacent to private road. Could be used for landing if adjacent aspen stand is harvested. Access road is privately owned.					