



Compartment Review Presentation

Cadillac Forest Management Unit

Compartment 63110

Entry Year 2021

Acreage: 2,246

County Missaukee

Management Area: Upper Muskegon

Revision Date: 2019-06-11

Stand Examiner: Blair Tweedale

Legal Description:

T22N, R8W Sections 18, 19, 29, 30, 31.

T21N, R8W Sections 7, 8, 17.

Identified Planning Goals:

Vegetation management in the Upper Muskegon management area (MA) (Figure 2.27.1) will provide forest products; maintain or enhance wildlife habitat; protect areas of unique threatened, endangered and special concern species; and provide for forest-based recreational uses. Timber management for this 10-year period will focus on harvesting older jack pine and balancing age class distributions of oak, aspen and red pine. Wildlife habitat management objectives include perpetuating early-successional communities for species adapted to young forests for hunting and other wildlife-related recreation. Expected trends within this 10-year planning period are the need to manage exotic species (especially Phragmites and glossy buckthorn), the need to continue to manage cover types for a balanced age-class distribution and an expected increase in recreation pressure.

Soil and topography:

Montcalm, Rubicon and Kalkaska sands. Undulating upland and well drained with a few low areas.

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

There are no private inholdings within the compartment. However, access to section 19 is dependent on private access. In T22N, significant development has occurred since the last inventory in 1989 – east of section 18, west of sections 18, 19, and 30. In T21N, development has been less intense. A few homes have been built north and west of section 7.

Unique Natural Features:

None listed

Archeological, Historical, and Cultural Features:

None listed.

Special Management Designations or Considerations:

Watershed and Fisheries Considerations:

Clam River passes through compartment.

Wildlife Habitat Considerations:

Featured wildlife species include deer, bear, ruffed grouse, woodcock, and beaver. Management objectives are to retain a variety of cover types and age class diversity as well as maintain and/or enhance habitat including work on openings and edges to preserve wildlife viewing and hunting opportunities.

Mineral Resource and Development Concerns and/or Restrictions

Several active sand/gravel pits are located just southeast of Cadillac, and there is good sand & gravel potential within the compartment. The compartment is located six miles away from any existing fields. Many of these fields have been productive for both oil and gas from multiple formations. Some of the Stray gas fields have been converted to natural gas storage. These fields tend to be structurally controlled and it is probable that the compartment does not sit on one of these structures. There has been some exploration in the area, both test wells and seismic. There are no active mineral leases within the compartment. Oil & gas potential is considered low at this time. There is no known metallic mineral potential in this part of the state.

Vehicle Access:

Survey Needs:

Recreational Facilities and Opportunities:

The very popular Cadillac Pathway traverses portions of sections 19 and 30. This trail is used by hikers, cross-country skiers, and mountain bikers. This is also a popular area for hunting.

Fire Protection:

There are numerous urban interface concerns within this compartment. Access would be fairly good in most of the compartment. There are scattered pine areas that could allow for large fire growth.

Additional Compartment Information:

The following reports from the Inventory are attached:

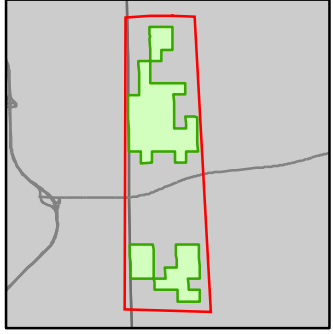
- Total Acres by Cover Type and Age Class**
- Cover Type by Harvest Method**
- Proposed Treatments – No Limiting Factors**
- Proposed Treatments – With Limiting Factors**
- Stand Details (Forested and Nonforested)**
- Dedicated and Proposed Special Conservation Areas**
- Site Condition Details**

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

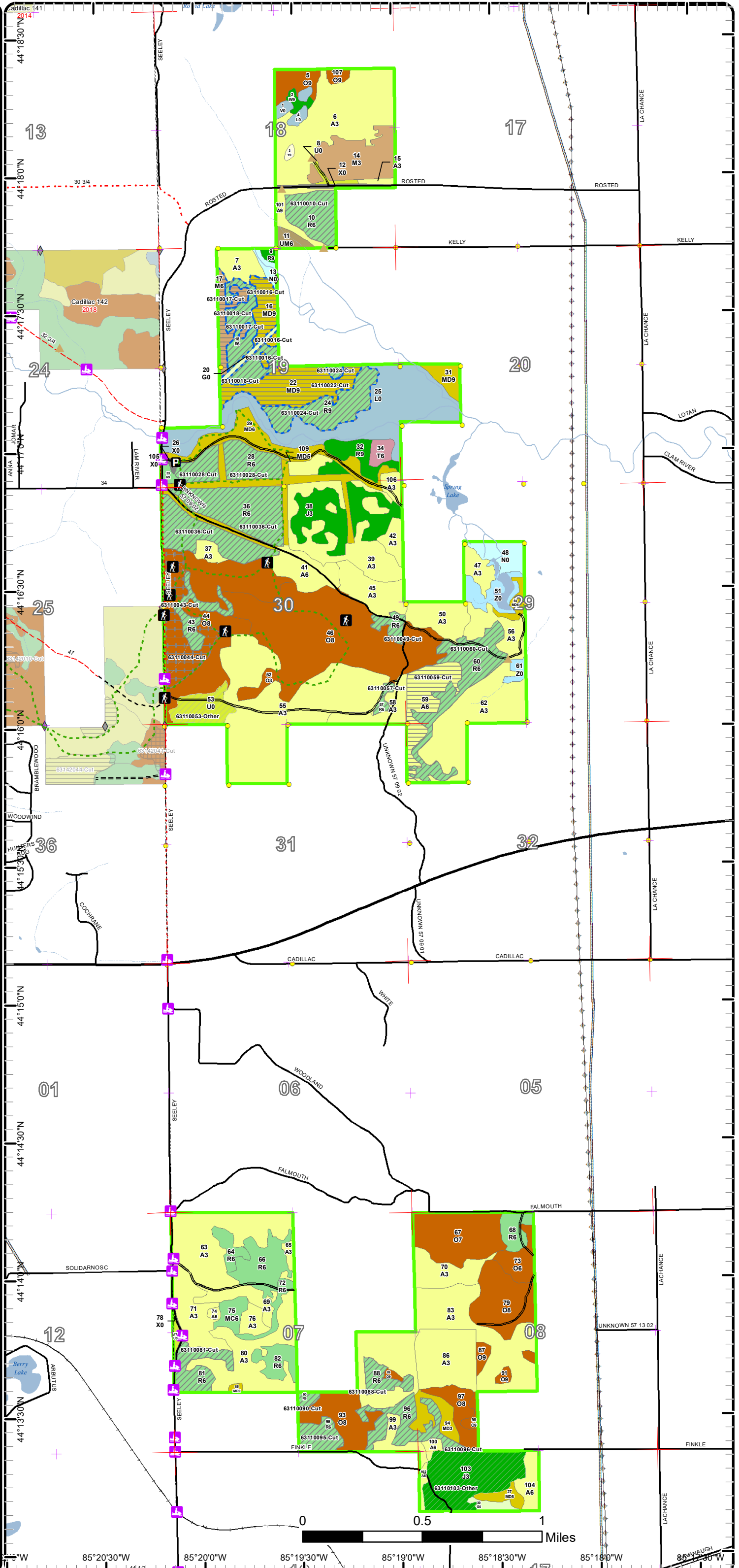
- Base feature information, stand boundaries, cover types, and numbers**
- Proposed treatments**
- Site condition boundaries**
- Details on the road access system**

Cover Type & Treatments Map

Compartment: 110
 T22N-R08W Sec. 18,19,29-31
 County: Missaukee
 Unit: Cadillac
 Mgmt Area: Upper Muskegon
 YOE: 2021
 Acres: 2,246 GIS Calculated
 Examiner: Blair Tweedale
 Map Revised: 11/18/2019
 Map Phase: Post-Review



- Miris Corners
- Remonumented Section Corners
- Survey Grade Corners
- Field Grade Corners
- Counties
- DNR - Secondary Forest Road
- DNR - Forest Access Route
- Federal / State Highway
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- County - Dirt Road (Seasonal)
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- Intermittent Stream
- Lake/Pond
- Perennial River
- Lakes and Rivers
- ▲ Berms
- Parking Lot
- Trailhead
- Compartment Boundary
- Treatments with Site Conditions
- Other Harvest - See Comments
- Clearcut (w/Reserves)
- Harvest, Overstory Removal
- Thinning (Crown, Low, Systematic)
- 411 - Northern Hardwood
- 412 - Oak Types
- 413 - Aspen
- 419 - Mixed Upland Deciduous
- 421 - Planted Pines
- 422 - Natural Pines
- 430 - Upland Mixed Forest
- 612 - Lowland Coniferous Forest
- 122 - Roads/Parking Lot
- 310 - Herbaceous Openland
- 330 - Low Density Trees
- 500 - Water
- 622 - Lowland Shrub
- 623 - Emergent Wetland
- 710 - Sand/Soil

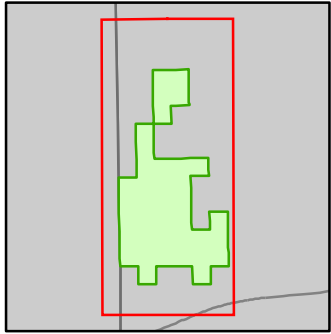


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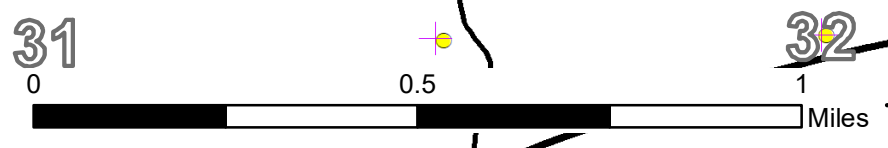
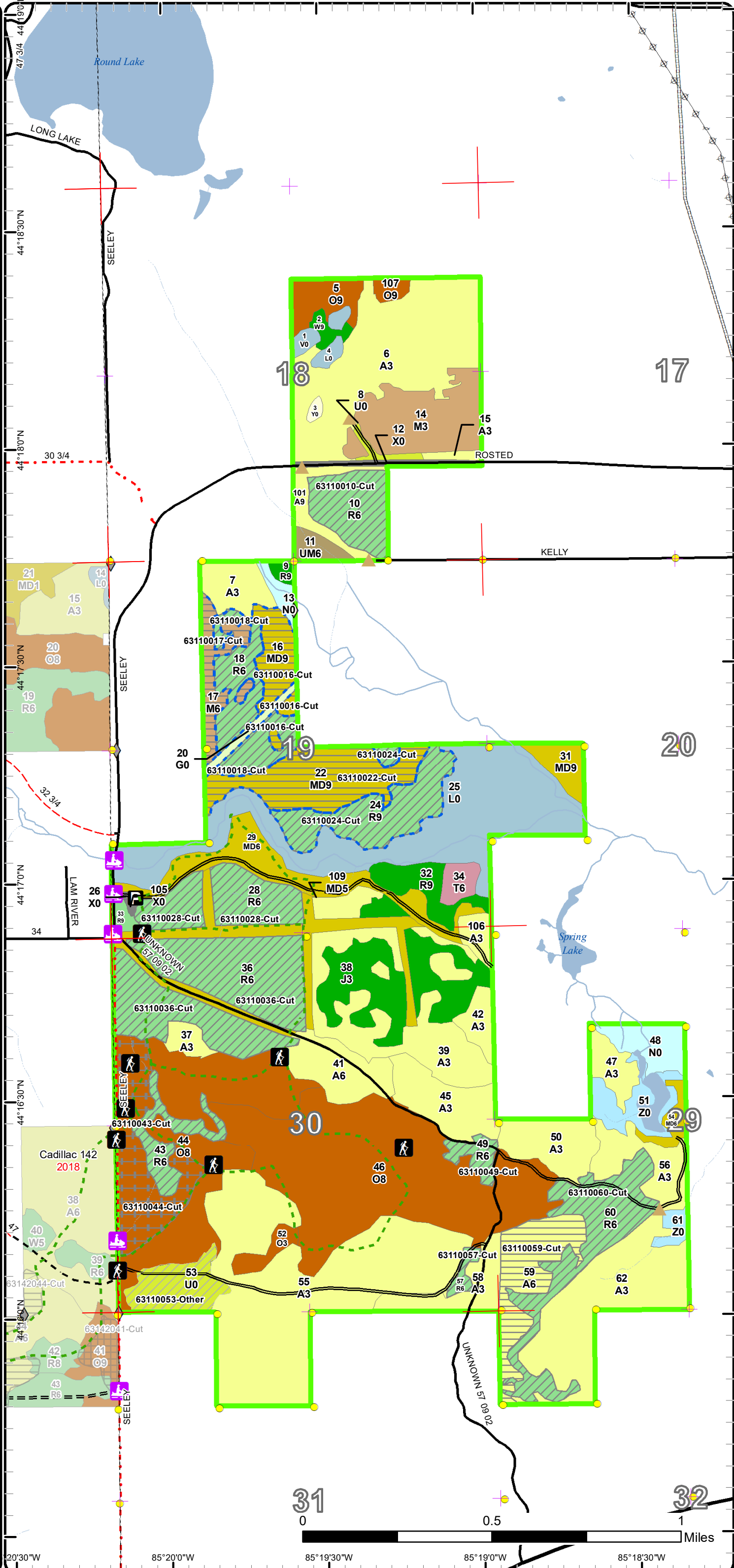
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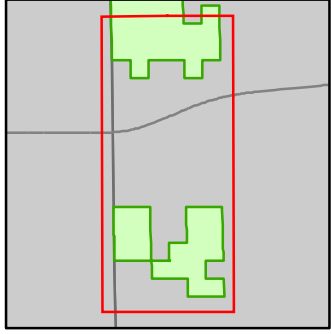
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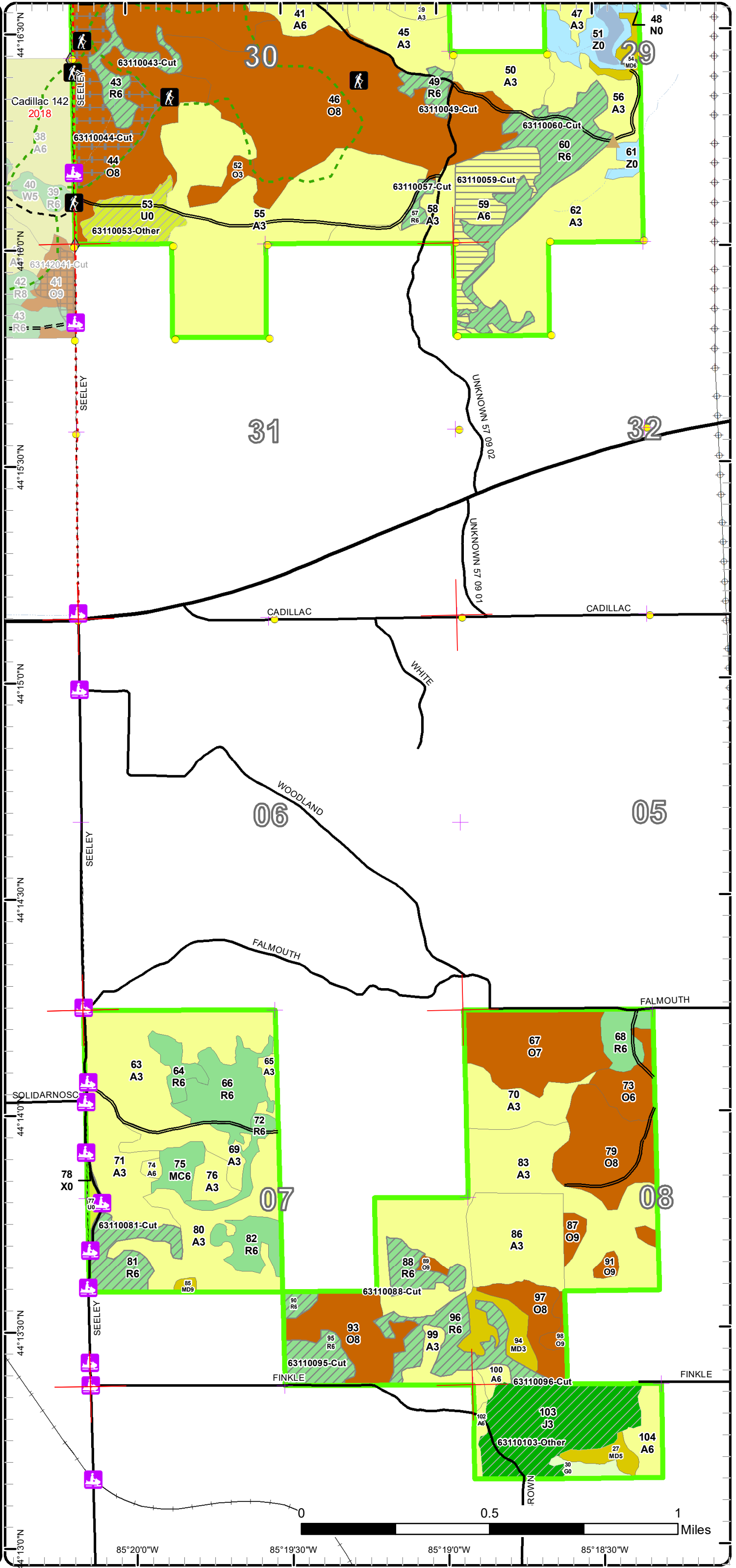
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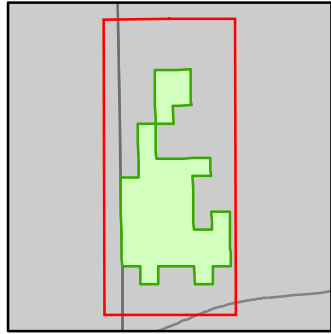


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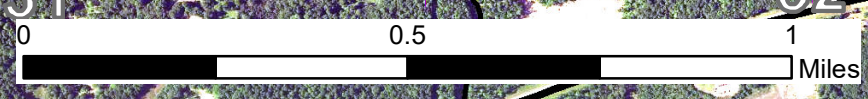
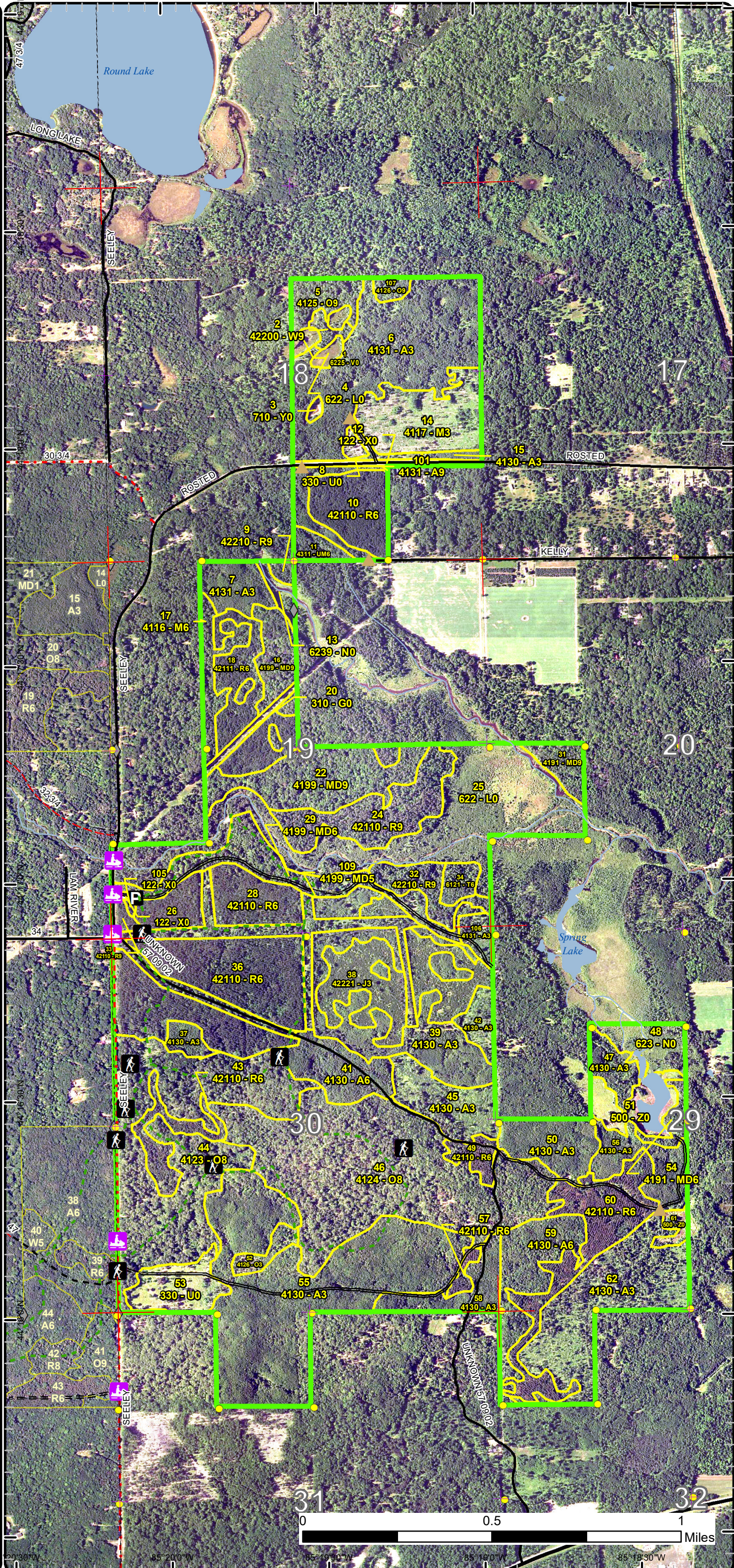


Stand Boundary Map

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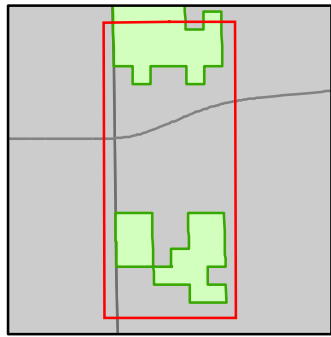
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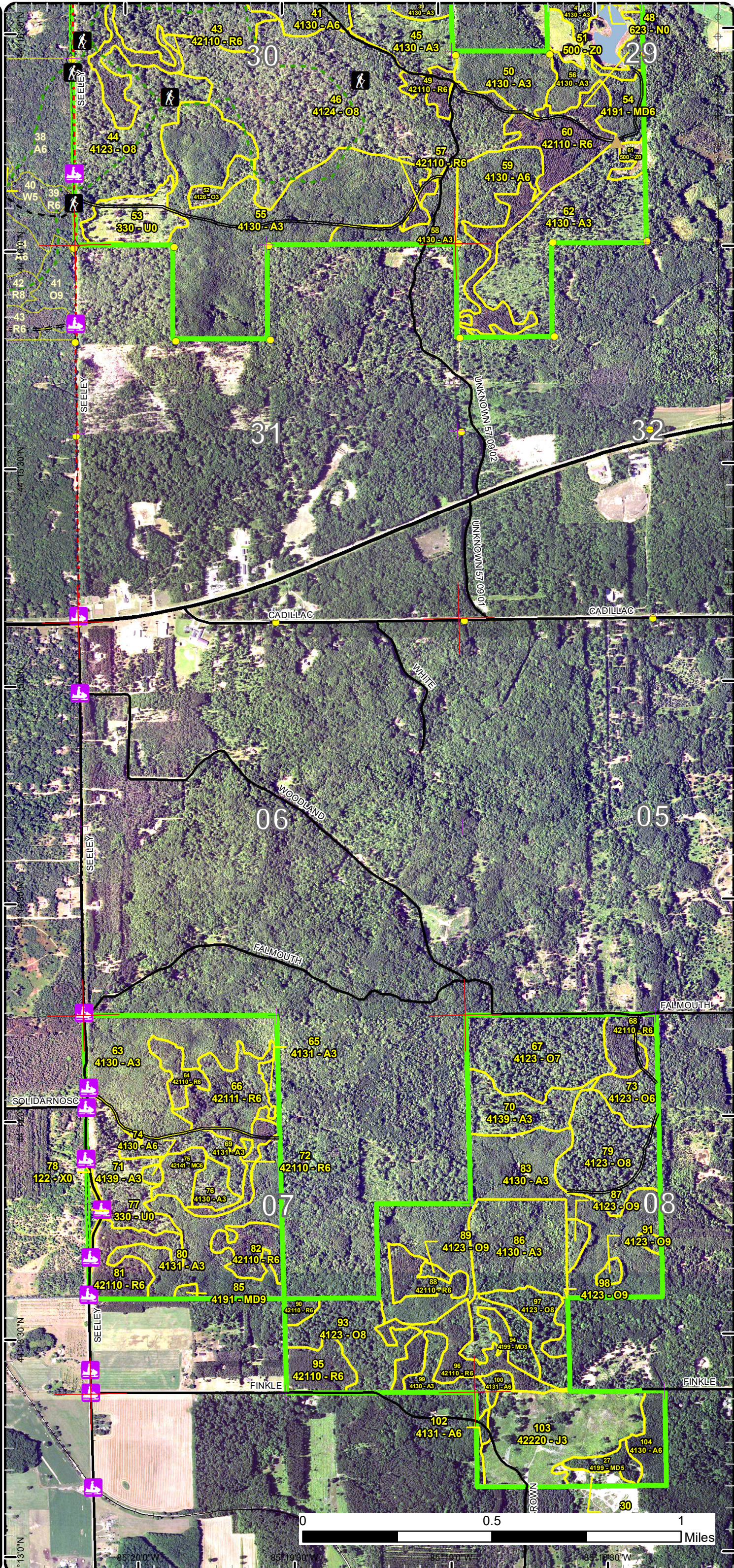
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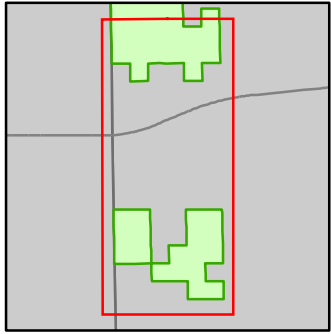


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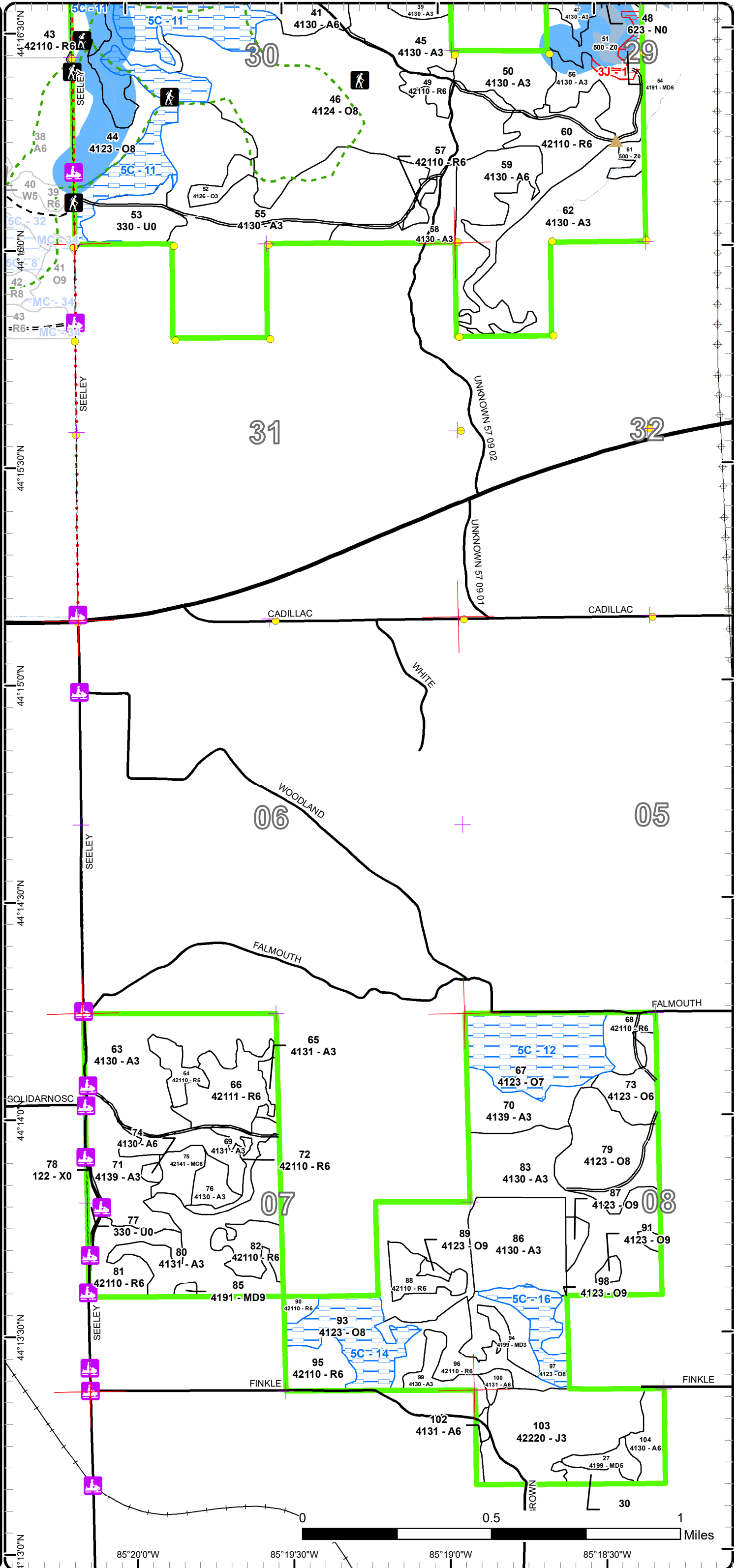


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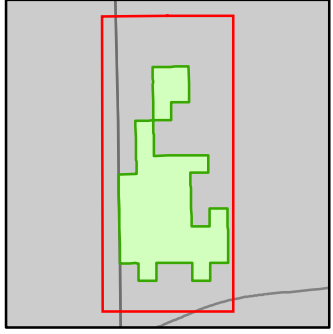


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- Available w/ Constraints
- Unavailable
- 5C: Delay treatment for age/size class diversity or exceptional site quality
- 3J: Water quality / BMPs (stream, river, or lake)
- Stand Boundaries
- High Priority Trout Stream Buffer

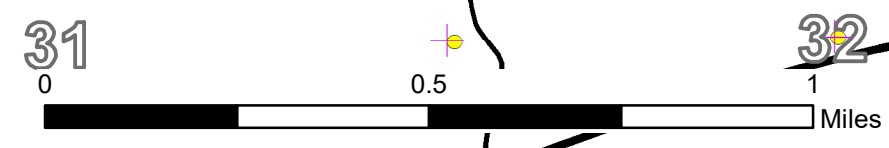
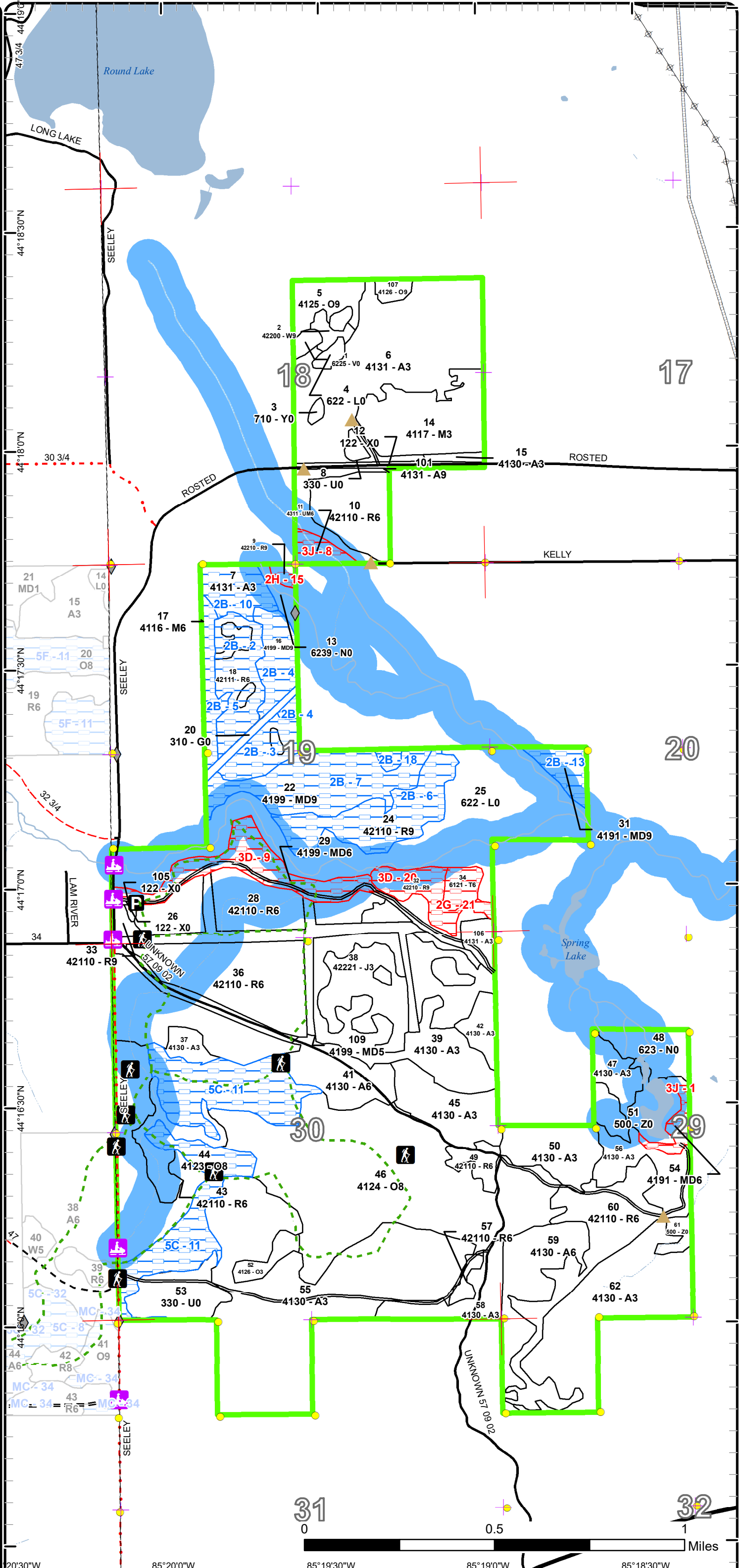


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- Available w/ Constraints
- Unavailable
- 5C: Delay treatment for age/size class diversity or exceptional site quality
- 2G: Too wet (sensitive soils, does not include access issues)
- 2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)
- 3D: Recreational / Scenic values
- 3J: Water quality / BMPs (stream, river, or lake)
- Stand Boundaries
- Cold Water Streams
- High Priority Trout Stream Buffer



20°30'W 85°20'0"W 85°19'30"W 85°19'0"W 85°18'30"W



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	95	85	210	331	3	0	33	0	0	0	0	0	0	0	0	0	110	866
Bog	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
Herbaceous Openland	9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	9
Jack Pine	0	53	47	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	100
Low-Density Trees	24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24
Lowland Shrub	106	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	106
Marsh	18	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	18
Mixed Upland Deciduous	0	13	0	0	6	0	0	0	0	17	1	0	15	0	0	0	0	109	161
Northern Hardwood	0	38	0	0	0	0	0	0	0	15	0	0	0	0	0	0	0	0	53
Oak	0	0	0	0	6	0	0	0	37	129	33	45	0	0	0	0	0	177	427
Planted Mixed Pines	0	0	0	0	0	0	9	0	0	0	0	0	0	0	0	0	0	0	8
Red Pine	0	0	0	0	0	0	359	14	0	0	0	14	2	0	0	0	0	35	424
Sand, Soil	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
Tamarack	0	0	0	0	0	0	0	0	0	6	0	0	0	0	0	0	0	0	6
Upland Mixed Forest	0	0	0	0	0	0	0	0	6	0	0	0	0	0	0	0	0	0	6
Urban	8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	8
Water	22	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	22
White Pine	0	0	0	0	0	0	0	0	0	3	0	0	0	0	0	0	0	0	3
Total	191	199	132	210	343	3	368	47	43	170	34	45	29	2	0	0	0	431	2244



Report 2 – Treatment Summary

Cadillac Mgt. Unit

Year of Entry: 2021

Acres of Harvest

Compartment 110

Total Compartment Acres: 2,246

Commercial Harvest - 346
 Harvests with Site Condition - 140
 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	30	0	0	0	0	0	0	0	0	30
Mixed Upland Deciduous	58	0	0	0	0	0	0	0	0	58
Northern Hardwood	15	0	0	0	0	0	0	0	0	15
Oak	0	0	0	0	0	40	0	0	0	40
Red Pine	0	0	0	0	343	0	0	0	0	343
Total	103	0	0	0	343	40	0	0	0	486

Proposed and Next Step Treatments by Method

	Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current	486	0	0	0	0	0	72	0	0	558
Next Step	0	0	0	0	0	143	0	0	0	143
Total	486	0	0	0	0	143	72	0	0	701



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

10	63110010-Cut	24.4	42110 - Planted Red Pine	Poletimber Well	59	141-170	Harvest	Low Thinning	4211 - Planted Red Pine	Even-Aged	No
<p><u>Prescription</u> Thin to 100-110 BA <u>Specs:</u> <u>Next Step</u> <u>Treatments:</u> <u>Acceptable</u> <u>Regen:</u> <u>Other</u> <u>Comment:</u> <u>Site Condition</u> <u>Proposed Start Date:</u> 10/1 /2020</p>											

16	63110016-Cut	16.6	4199 - Other Mixed Upland Deciduous	Sawtimber Well	83	51-80	Harvest	Clearcut with Retention	4199 - Other Mixed Upland Deciduous	Even-Aged	No
<p><u>Prescription</u> Final harvest. pocket retention. <u>Specs:</u> <u>Next Step</u> Monitoring, Natural Regen (Re-Inventory) <u>Treatments:</u> <u>Acceptable</u> mixed deciduous <u>Regen:</u> <u>Other</u> <u>Comment:</u> <u>Site Condition</u> Unknown Access <u>Proposed Start Date:</u> 10/1 /2020</p>											

17	63110017-Cut	15.0	4116 - Mixed N. Hardwood - Aspen	Poletimber Well	83	51-80	Harvest	Clearcut with Retention	4199 - Other Mixed Upland Deciduous	Even-Aged	No
<p><u>Prescription</u> Final harvest. Leave a few white oak where possible. <u>Specs:</u> <u>Next Step</u> Monitoring, Natural Regen (Re-Inventory) <u>Treatments:</u> <u>Acceptable</u> Mixed deciduous <u>Regen:</u> <u>Other</u> <u>Comment:</u> <u>Site Condition</u> Unknown Access <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
18 63110018-Cut	31.3	42111 - Planted Red Pine, Mixed Deciduous	Poletimber Well	59	171- 200	Harvest	Crown Thinning	4211 - Planted Red Pine	Even-Aged	No
<p><u>Prescription</u> remove 25%-33% of the BA. <u>Specs:</u> <u>Next Step</u> <u>Treatments:</u> <u>Acceptable</u> <u>Regen:</u> <u>Other</u> <u>Comment:</u> <u>Site Condition</u> Unknown Access <u>Proposed Start Date:</u> 10/1 /2020</p>										
22 63110022-Cut	41.3	4199 - Other Mixed Upland Deciduous	Sawtimber Well	83	51-80	Harvest	Clearcut with Retention	4199 - Other Mixed Upland Deciduous	Even-Aged	No
<p><u>Prescription</u> Final harvest. leave scattered white oak and pocket retention. <u>Specs:</u> <u>Next Step</u> Monitoring, Natural Regen (Re-Inventory) <u>Treatments:</u> <u>Acceptable</u> oak, maple, aspen and cherry <u>Regen:</u> <u>Other</u> <u>Comment:</u> <u>Site Condition</u> Unknown Access <u>Proposed Start Date:</u> 10/1 /2020</p>										
24 63110024-Cut	35.4	42110 - Planted Red Pine	Sawtimber Well	110	141- 170	Harvest	Crown Thinning	4211 - Planted Red Pine	Even-Aged	No
<p><u>Prescription</u> Remove approximately 1/3 of the volume. <u>Specs:</u> <u>Next Step</u> <u>Treatments:</u> <u>Acceptable</u> <u>Regen:</u> <u>Other</u> <u>Comment:</u> <u>Site Condition</u> Unknown Access <u>Proposed Start Date:</u> 10/1 /2020</p>										
28 63110028-Cut	32.2	42110 - Planted Red Pine	Poletimber Well	59	141- 170	Harvest	Low Thinning	4211 - Planted Red Pine	Even-Aged	No
<p><u>Prescription</u> Thin stand to a residual BA of 100-110 <u>Specs:</u> <u>Next Step</u> <u>Treatments:</u> <u>Acceptable</u> <u>Regen:</u> <u>Other</u> protect Cadillac Pathway <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
36 63110036-Cut	80.2	42110 - Planted Red Pine	Poletimber Well	59	141-170	Harvest	Low Thinning	4211 - Planted Red Pine	Even-Aged	No
<p><u>Prescription</u> thin stand to a BA of 100-110 <u>Specs:</u> <u>Next Step</u> <u>Treatments:</u> <u>Acceptable</u> <u>Regen:</u> <u>Other</u> Protect Cadillac pathway <u>Comment:</u> <u>Site Condition</u> <u>Proposed Start Date:</u> 10/1 /2020</p>										
43 63110043-Cut	13.8	42110 - Planted Red Pine	Poletimber Well	63	141-170	Harvest	Low Thinning	42110 - Planted Red Pine	Even-Aged	No
<p><u>Prescription</u> thin stand to a residual BA of 110. <u>Specs:</u> <u>Next Step</u> <u>Treatments:</u> <u>Acceptable</u> <u>Regen:</u> <u>Other</u> <u>Comment:</u> <u>Site Condition</u> <u>Proposed Start Date:</u> 10/1 /2020</p>										
44 63110044-Cut	40.3	4123 - Red Oak	Sawtimber Medium	85	51-80	Harvest	Overstory Removal	4199 - Other Mixed Upland Deciduous	Even-Aged	No
<p><u>Prescription</u> Overstory remove. Leave a few white oak if available. <u>Specs:</u> <u>Next Step</u> Monitoring, Natural Regen (Re-Inventory) <u>Treatments:</u> <u>Acceptable</u> oak, maple, aspen and cherry <u>Regen:</u> <u>Other</u> <u>Comment:</u> <u>Site Condition</u> <u>Proposed Start Date:</u> 10/1 /2020</p>										
49 63110049-Cut	6.6	42110 - Planted Red Pine	Poletimber Well	59	141-170	Harvest	Low Thinning	4211 - Planted Red Pine	Even-Aged	No
<p><u>Prescription</u> Thin stand to a residual BA of 110. <u>Specs:</u> <u>Next Step</u> <u>Treatments:</u> <u>Acceptable</u> <u>Regen:</u> <u>Other</u> <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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53	63110053-Other	18.7	330 - Low-Density Trees	Nonstocked		Unspecified	Other	Other	4211 - Planted Red Pine	Even-Aged	No
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Prescription 3 year check for replanted stock

Specs:

Next Step

Treatments:

Acceptable red pine

Regen:

Other Percent to Treat = 100%

Comment:

Site Condition

Proposed Start Date: 10/1 /2020

57	63110057-Cut	3.1	42110 - Planted Red Pine	Poletimber Well	59	141-170	Harvest	Low Thinning	4211 - Planted Red Pine	Even-Aged	No
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Prescription Thin to a residual BA of 110.

Specs:

Next Step

Treatments:

Acceptable

Regen:

Other

Comment:

Site Condition

Proposed Start Date: 10/1 /2020

59	63110059-Cut	30.0	4130 - Aspen	Poletimber Well	65	Unspecified	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	No
-----------	---------------------	------	--------------	-----------------	----	-------------	---------	-------------------------	-------------	-----------	----

Prescription Clearcut. Retain an island.

Specs:

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Aspen, maple, oak

Regen:

Other

Comment:

Site Condition

Proposed Start Date: 10/1 /2020

60	63110060-Cut	42.9	42110 - Planted Red Pine	Poletimber Well	59	141-170	Harvest	Low Thinning	4211 - Planted Red Pine	Even-Aged	No
-----------	---------------------	------	--------------------------	-----------------	----	---------	---------	--------------	-------------------------	-----------	----

Prescription Thin stand to a residual BA of 110.

Specs:

Next Step

Treatments:

Acceptable

Regen:

Other

Comment:

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
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81	63110081-Cut	19.3	42110 - Planted Red Pine	Poletimber Well	59	141-170	Harvest	Low Thinning	4211 - Planted Red Pine	Even-Aged	No
-----------	---------------------	------	--------------------------	-----------------	----	---------	---------	--------------	-------------------------	-----------	----

Prescription Mark to a residual 110-120 BA

Specs:

Next Step
Treatments:

Acceptable
Regen:

Other
Comment:

Site Condition

Proposed Start Date: 10/1 /2020

88	63110088-Cut	10.4	42110 - Planted Red Pine	Poletimber Well	59	141-170	Harvest	Low Thinning	4211 - Planted Red Pine	Even-Aged	No
-----------	---------------------	------	--------------------------	-----------------	----	---------	---------	--------------	-------------------------	-----------	----

Prescription Thin to a residual of 110-120 BA

Specs:

Next Step
Treatments:

Acceptable
Regen:

Other
Comment:

Site Condition

Proposed Start Date: 10/1 /2020

90	63110090-Cut	3.3	42110 - Planted Red Pine	Poletimber Well	59	141-170	Harvest	Low Thinning	4211 - Planted Red Pine	Even-Aged	No
-----------	---------------------	-----	--------------------------	-----------------	----	---------	---------	--------------	-------------------------	-----------	----

Prescription Thin to a residual of 110-120 BA

Specs:

Next Step
Treatments:

Acceptable
Regen:

Other
Comment:

Site Condition

Proposed Start Date: 10/1 /2020

95	63110095-Cut	13.7	42110 - Planted Red Pine	Poletimber Well	59	171-200	Harvest	Low Thinning	4211 - Planted Red Pine	Even-Aged	No
-----------	---------------------	------	--------------------------	-----------------	----	---------	---------	--------------	-------------------------	-----------	----

Prescription Thin to an average residual BA of 110-120

Specs:

Next Step
Treatments:

Acceptable
Regen:

Other
Comment:

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
96 63110096-Cut	26.0	42110 - Planted Red Pine	Poletimber Well	59	141-170	Harvest	Low Thinning	4211 - Planted Red Pine	Even-Aged	No
<p><u>Prescription</u> Thin to a residual of 110-120 BA</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></p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2020</p>										
103 63110103-Other	53.3	42220 - Natural Jack Pine	Sapling Well	4	Immature	Other	Other	4211 - Planted Red Pine	Even-Aged	No
<p><u>Prescription</u> red pine</p> <p><u>Specs:</u></p> <p><u>Next Step</u></p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> red pine</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 /2020</p>										

Total Treatment 557.8
Acreage Proposed:

Report 4 – Site Conditions

Cadillac Mgt. Unit
Blair Tweedale : Examiner

Compartment: 110
Year of Entry: 2021

Availability for Management

Total Acres	Acres Available	Acres Avail		Dominant Site Conditions	Dominant Site Conditions					
		With Condition	Not Available		2B	5C	2G	2H	3D	3J
866	852	14	0	Aspen	14				0	0
2	2	0	0	Bog						
9	9	0	0	Herbaceous Openland	0					
100	100	0	0	Jack Pine						
24	24	0	0	Low-Density Trees						
106	106	0	0	Lowland Shrub	0		0		0	
18	18	0	0	Marsh	0			0		
161	62	67	33	Mixed Upland Deciduous	67				27	6
53	38	15	0	Northern Hardwood	15					
427	266	160	0	Oak		160				
9	9	0	0	Planted Mixed Pines						
425	342	67	16	Red Pine	67		0	2	14	
1	1	0	0	Sand, Soil						
6	0	0	6	Tamarack			6			
6	0	0	6	Upland Mixed Forest						6
8	8	0	0	Urban					0	
22	22	0	0	Water						
3	3	0	0	White Pine						
2,246	1,862	323	60	Total Forested Acres	163	160	6	2	41	12
	83%	14%	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)	6	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

Cadillac Mgt. Unit
Blair Tweedale : Examiner

Compartment: 110
Year of Entry: 2021

2	Available	2B: Unknown if access through adjacent landowner(s) is possible	24	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
3	Available	2B: Unknown if access through adjacent landowner(s) is possible	13	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
4	Available	2B: Unknown if access through adjacent landowner(s) is possible	16	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
5	Available	2B: Unknown if access through adjacent landowner(s) is possible	11	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
6	Available	2B: Unknown if access through adjacent landowner(s) is possible	33	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

Cadillac Mgt. Unit
Blair Tweedale : Examiner

Compartment: 110
Year of Entry: 2021

7	Available	2B: Unknown if access through adjacent landowner(s) is possible	41	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
8	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	6	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
9	Unavailable	3D: Recreational / Scenic values	27	3J: Water quality / BMPs (stream, river, or lake)	Unspecified	Unspecified	Unspecified
Comments:							
10	Available	2B: Unknown if access through adjacent landowner(s) is possible	14	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
11	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	72	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
12	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	45	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

Cadillac Mgt. Unit
Blair Tweedale : Examiner

Compartment: 110
Year of Entry: 2021

13	Available	2B: Unknown if access through adjacent landowner(s) is possible	9	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
14	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	29	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
15	Unavailable	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	2	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
16	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	15	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
18	Available	2B: Unknown if access through adjacent landowner(s) is possible	2	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
20	Unavailable	3D: Recreational / Scenic values	14	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

Cadillac Mgt. Unit
Blair Tweedale : Examiner

Compartment: 110
Year of Entry: 2021

21	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	6	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.
SCA	Riparian Area	A transitional area between aquatic and terrestrial ecosystems in which the terrestrial ecosystem influences the aquatic ecosystem and vice-versa. Because of the unique conditions adjacent to lakes, streams and open water wetlands, riparian areas harbor a high diversity of plants and wildlife. Riparian communities are ecologically and socially significant in their effects on water quality and quantity, as well as aesthetics, habitat, bank stability, timber production, and their contribution to overall biodiversity.



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																									
1	6225 - Bog	Nonstocked	2.5		Unspecified	No																																										
2	42200 - Natural White Pine	Sawtimber Well	3.4	85	51-80	N/A	Natural pine stand surrounded on three sides by vernal wetlands.																																									
<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>Red Maple</td> <td>13</td> <td>Pole</td> <td>9</td> <td></td> </tr> <tr> <td>Black/Red (Hybrid) Oak</td> <td>10</td> <td>Log</td> <td>12</td> <td></td> </tr> <tr> <td>White Pine</td> <td>70</td> <td>Log/Pole</td> <td>12</td> <td>85</td> </tr> </tbody> </table>		Canopy Species	% Cover	Size Class	DBH	Age	Red Maple	13	Pole	9		Black/Red (Hybrid) Oak	10	Log	12		White Pine	70	Log/Pole	12	85	<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>Red Maple</td> <td>Low</td> <td>Variable</td> <td>Sapling</td> </tr> <tr> <td>Black/Red (Hybrid) Oak</td> <td>Low</td> <td>10 - 20 feet</td> <td>Sapling</td> </tr> <tr> <td>White Pine</td> <td>Low</td> <td>Variable</td> <td>Sapling</td> </tr> </tbody> </table>		Sub-Canopy Species	Density	Avg. Height	Size	Red Maple	Low	Variable	Sapling	Black/Red (Hybrid) Oak	Low	10 - 20 feet	Sapling	White Pine	Low	Variable	Sapling									
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White Pine	Low	Variable	Sapling																																													
3	710 - Sand, Soil	Nonstocked	1.2		Unspecified	No																																										
4	622 - Lowland Shrub	Nonstocked	4.2		Unspecified	No																																										
5	4125 - Black, N. Pin Oak	Sawtimber Well	12.4	85	51-80	N/A	mix of black oak, white oak and red maple. Some small vernal ponds located in stand.																																									
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6	4131 - Aspen, Oak	Sapling Well	84.3	35	Unspecified	N/A	Aspen with oak mixed throughout. Some aspen clones have a 7 inch DBH average, while others are smaller. mixed open areas throughout. White pine pocket to the north.																																									
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7	4131 - Aspen, Oak	Sapling Well	14.0	26	Unspecified	N/A																																										
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8	330 - Low-Density Trees	Nonstocked	2.6		Unspecified	No																																										
9	42210 - Natural Red Pine	Sawtimber Well	2.2	120	141-170	N/A	Diameters up to 18 inches. Inaccessible, borders a lowland area. High water table. Stand may get seasonably wet.																																									
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments		
10	42110 - Planted Red Pine	Poletimber Well	24.4	59	141-170	N/A			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Pine		95	Log/Pole	11	59	Red Maple	Full	5 - 10 feet	Sapling
						Black/Red (Hybrid) Oak	High	5 - 10 feet	Sapling
						Black Cherry	Medium	5 - 10 feet	Sapling
11	4311 - Pine, Aspen Mix	Poletimber Well	6.0	70	1-50	N/A	moderate white pine understory. Small g type in south west portion of the stand. Scattered black cherry and black oak sawlog sized trees. Wet swale along northern boarder running NW to SE. Large white pine with tag alder understory on the edges of the stand along drainage. Corner in SW corner of stand is an old rifle barrel. No access due to terrane. Age of white pine varies. Large white pine on edge of stand is over 100 years old. Age of 60 was taken on a pole-sized tree.		
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple		10	Pole	8		Red Maple	Low	< 5 feet	Sapling
Bigtooth Aspen		35	Pole	8		White Pine	Medium	Variable	Sapling
White Pine		45	Log/Pole	10	70	Tag Alder	Low	5 - 10 feet	Tall Shrub
12	122 - Road/Parking Lot	Nonstocked	5.1		Unspecified	No			
13	6239 - Mixed Emergent Wetland	Nonstocked	4.4		Unspecified	No			
14	4117 - Mixed N. Hardwood - Pine	Sapling Well	37.6	6	Immature	N/A	2012-Rolled Chopped, R.W. Gallatin & Son, reduce vegetative competition 2012-Trenched, R.W. Gallatin & Son 2013-Planted, Hand Crew--Superior Forestry, Oversight-Forest Resource Services 2015-Herbicide 2017-Replanted, Hand Crew - Superior Forestry, Oversight - Forest Resource Services Accepting hardwood mix along with planted pine. 3 year regen check performed in 2016.		
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Pine		35	Sapling	1	6	Red Maple	Low	< 5 feet	Sapling
Black Cherry		20	Sapling	1	6	Black/Red (Hybrid) Oak	Low	< 5 feet	Sapling
Red Maple		40	Sapling	1	6	Hawthorn (spp.)	Low	5 - 10 feet	Tall Shrub
						Pin Cherry	Medium	< 5 feet	Sapling
15	4130 - Aspen	Sapling Well	2.3	17	Unspecified	N/A			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Bigtooth Aspen		90	Sapling	2	17	Red Maple	Low	< 5 feet	Sapling
						Black/Red (Hybrid) Oak	Low	< 5 feet	Sapling
						Hawthorn (spp.)	Low	5 - 10 feet	Tall Shrub
						Pin Cherry	Medium	< 5 feet	Sapling
16	4199 - Other Mixed Upland Deciduous	Sawtimber Well	16.6	83	51-80	N/A			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple		20	Log	12		Red Maple	Low	5 - 10 feet	Sapling
Red Oak		50	Log	16	83	Red Oak	Medium	Variable	Sapling
Bigtooth Aspen		30	Pole/Log	10		Witch Hazel	Low	5 - 10 feet	Tall Shrub



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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17	4116 - Mixed N. Hardwood - Aspen	Poletimber Well	15.0	83	51-80	N/A	Narrow strip between planted red pine and private property. Stand is low quality maple. Access is unknown at this time.
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Canopy Species	% Cover	Size Class	DBH	Age
Red Maple	60	Pole/Log	10	83
Red Oak	15	Log	14	83
Bigtooth Aspen	20	Pole	8	

Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	Medium	Variable	Sapling
Red Oak	Low	5 - 10 feet	Sapling
Hawthorn (spp.)	Low	5 - 10 feet	Tall Shrub
Black Cherry	Medium	Variable	Sapling

18	42111 - Planted Red Pine, Mixed Deciduous	Poletimber Well	31.3	59	171-200	N/A	
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Canopy Species	% Cover	Size Class	DBH	Age
Bigtooth Aspen	15	Pole	8	
Red Pine	80	Pole	8	59

Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	Medium	5 - 10 feet	Sapling
Beech	Low	< 5 feet	Sapling
Black Cherry	Medium	Variable	Sapling
Red Oak	Low	Variable	Sapling

20	310 - Herbaceous Openland	Nonstocked	4.1		Unspecified	No	powerline ROW
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22	4199 - Other Mixed Upland Deciduous	Sawtimber Well	41.3	83	51-80	N/A	Access is unknown at this time.
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Canopy Species	% Cover	Size Class	DBH	Age
Red Maple	15	Pole	8	
Red Oak	50	Log	18	83
Bigtooth Aspen	30	Log/Pole	10	

Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	Medium	Variable	Sapling
Beech	Low	5 - 10 feet	Sapling
Red Oak	Low	Variable	Sapling
White Pine	Low	Variable	Sapling
Witch Hazel	Low	5 - 10 feet	Tall Shrub
Black Cherry	Low	Variable	Sapling

24	42110 - Planted Red Pine	Sawtimber Well	35.4	110	141-170	N/A	Currently no access to stand.
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Canopy Species	% Cover	Size Class	DBH	Age
Red Pine	90	Log	14	110

Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	High	5 - 10 feet	Sapling
Beech	Low	5 - 10 feet	Sapling
Red Oak	Low	>20 feet	Pole
White Oak	Low	>20 feet	Pole
Bigtooth Aspen	Medium	Variable	Pole
White Pine	Medium	5 - 10 feet	Sapling

25	622 - Lowland Shrub	Nonstocked	101.9		Unspecified	No	clam river bottom
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26	122 - Road/Parking Lot	Nonstocked	1.0		Unspecified	No	
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments		
27	4199 - Other Mixed Upland Deciduous	Poletimber Medium	6.2	37	1-50	N/A			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Sugar Maple		10	Pole/Sapling	5	37	Beech	Low	5 - 10 feet	Sapling
Red Oak		50	Pole	5	37	Ironwood	Medium	5 - 10 feet	Sapling
Bigtooth Aspen		35	Pole	5	37				
28	42110 - Planted Red Pine	Poletimber Well	32.2	59	141-170	N/A	diameters running a little smaller in this stand.		
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Pine		90	Pole/Log	8	59	Red Maple	Low	< 5 feet	Sapling
						White Oak	Low	< 5 feet	Sapling
						Black Cherry	Low	< 5 feet	Sapling
29	4199 - Other Mixed Upland Deciduous	Poletimber Well	33.9	43	51-80	N/A	Scattered open grown oak sawtimber, black cherry, clumps of red maple and aspen. Cadillac Pathway passes thru portions of stand. Most of stand borders the roads passing thru the red pine plantations.		
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple		25	Pole	6		Red Maple	Low	Variable	Sapling
Red Oak		30	Log/Pole	14	73	Black Cherry	Medium	Variable	Sapling
Bigtooth Aspen		35	Pole	8	43				
Black Cherry		10	Pole	6					
30	310 - Herbaceous Openland	Nonstocked	4.7		Unspecified	No	old gravel pit.		
31	4191 - Mixed Upland Deciduous with Conifer	Sawtimber Well	9.2	114	81-110	N/A	Mix of oak and red maple and white pine.		
32	42210 - Natural Red Pine	Sawtimber Well	13.8	117	111-140	N/A	Natural red pine. Moderate white pine understory.		
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple		10	Pole	8		Red Maple	Medium	5 - 10 feet	Sapling
Black/Red (Hybrid) Oak		10	Log	12		Black/Red (Hybrid) Oak	Low	< 5 feet	Sapling
Red Pine		80	Log	12	117	White Pine	Medium	5 - 10 feet	Sapling
33	42110 - Planted Red Pine	Sawtimber Well	2.9	59	1-50	N/A	Some black oak saw-log sized tress (low quality) scattered throughout stand. Cadillac Pathway crosses thru stand. Pathway parking lot borders stand in north west corner. 2 acre portion along parking lot was cut in 2018 to allow PRD to expand the parking lot. (Negotiated sale 63-008-18-01)		
Canopy Species		% Cover	Size Class	DBH	Age				
Red Pine		90	Pole/Log	9	59				
Red Oak		8	Log/XLog	16					
34	6121 - Tamarack	Poletimber Well	5.9	85	81-110	N/A			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Tamarack		85	Log	12	85	American Elm	Low	5 - 10 feet	Sapling
White Pine		10	Log	18		Red Maple	Low	5 - 10 feet	Sapling
						Tag Alder	Medium	5 - 10 feet	Tall Shrub



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																	
36	42110 - Planted Red Pine	Poletimber Well	80.2	59	141-170	N/A																																																		
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37	4130 - Aspen	Sapling Well	5.5	25	Unspecified	N/A	Harvested in 1993.																																																	
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38	42221 - Natural Jack Pine, Mixed Deciduous	Sapling Well	46.6	17	Unspecified	N/A	Clearcut last yoe. Jack pine is seeding in from seed source left from old plantation. Snow was deep at time of inventory. May be more seedlings under the snow. The ones that I could see were over 3 feet in height.																																																	
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments		
43	42110 - Planted Red Pine	Poletimber Well	13.8	63	141-170	N/A	Stand was cut with sale number 63-042-11-01.		
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Pine		95	Pole	8	63	Red Maple	Low	Variable	Sapling
44	4123 - Red Oak	Sawtimber Medium	112.0	85	51-80	N/A	previous harvest in this stand focused on removing most aspen and maple. A couple of pockets of the stand were not harvested, which have a little bit higher BA. These pockets are isolated and small.		
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Oak		70	XLog/Log/Pole	18	85	Red Maple	Medium	5 - 10 feet	Sapling
White Oak		15	Log/Pole	14		Red Oak	Medium	Variable	Sapling
						Bigtooth Aspen	High	5 - 10 feet	Sapling
						White Pine	Low	Variable	Sapling
45	4130 - Aspen	Sapling Well	24.0	7	Immature	N/A	Stand treated with sale number 63-037-11-01		
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple		19	Sapling	1		Red Maple	Medium	< 5 feet	Sapling
Bigtooth Aspen		63	Sapling	1	7	Beech	Low	5 - 10 feet	Sapling
Jack Pine		8	Pole	6		White Pine	Low	>20 feet	Sapling
						Black Cherry	Medium	5 - 10 feet	Sapling
46	4124 - Red with White Oak	Sawtimber Medium	140.3	85	51-80	N/A	Lower BA oak stand with variable size trees.		
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Oak		75	Log/Pole/Sap	12	85	Red Maple	Medium	5 - 10 feet	Sapling
White Oak		20	Log/Pole/Sap	12		Red Oak	Medium	Variable	Sapling
						White Oak	Medium	5 - 10 feet	Sapling
						Bigtooth Aspen	Low	5 - 10 feet	Sapling
						White Pine	Low	5 - 10 feet	Sapling
47	4130 - Aspen	Sapling Well	10.1	26	Unspecified	N/A	Final harvested in 1993. Accessed thru private property. Borders wetlands on three sides.		
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Bigtooth Aspen		85	Pole/Sapling	5	26	Red Maple	Medium	< 5 feet	Sapling
						Red Oak	Low	5 - 10 feet	Sapling
						Black Cherry	Low	5 - 10 feet	Sapling
48	623 - Emergent Wetland	Nonstocked	13.8		Unspecified	No			
49	42110 - Planted Red Pine	Poletimber Well	6.6	59	141-170	N/A	Red pine with variable height hardwood regeneration throughout.		
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Pine		100	Pole/Log	9	59	Red Maple	Medium	Variable	Sapling
						White Oak	Medium	Variable	Sapling
						Beech	Low	5 - 10 feet	Sapling



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																									
50	4130 - Aspen	Sapling Well	21.0	37	Unspecified	N/A																																										
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Cherry (spp.)	Medium	< 5 feet	Sapling																																													
51	500 - Water	Nonstocked	17.8		Unspecified	No																																										
52	4126 - White, Black, N. Pin Oak	Sapling Well	5.8	37	51-80	N/A	There was a wildfire in western portion of stand in 1998. Cadillac Pathway passes thru eastern portion of stand.																																									
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53	330 - Low-Density Trees	Nonstocked	18.6		Unspecified	42110 - Planted Red Pine	Stand was trenched in 2013 and planted to red pine in 2015. regen check in 2016 and showed 547 TPA red pine. 4000 TPA of non target hardwood. Look to spray and replant. Replanted to 955 trees per acre on 5/31/2018. FY 2019 Regen Survey: ~70% survival among 2018 replant trees, overall stocking of RP is very good. Free to grow % is low due to patches of heavy natural JP regen, 3-5 feet tall. JP ranges from 400-800 TPA on S side of road, and 100-300 TPA on N side of road. 2018 spraying seems to have been very effective on maple. Large patch of 6-8 ft aspen in SE corner still leafed out. Consider changing management objective to mixed stand, also good candidate for brushsaw release. 3 year check recommended.																																									
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54	4191 - Mixed Upland Deciduous with Conifer	Poletimber Well	5.8	115	1-50	N/A	Small stand along wetland. Maintain as buffer. Wildfire in stand in 2007.																																									
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55	4130 - Aspen	Sapling Well	131.2	37	Unspecified	N/A																																										
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments		
56	4130 - Aspen	Sapling Well	20.0	26	Unspecified	N/A	Low quality . Good stem densities.		
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Bigtooth Aspen		65	Sapling	3	26	Red Maple	Medium	5 - 10 feet	Sapling
Black/Red (Hybrid) Oak		10	Sapling	2		Black/Red (Hybrid) Oak	Low	5 - 10 feet	Sapling
Quaking Aspen		15	Sapling	3		Black Cherry	Medium	5 - 10 feet	Sapling
57	42110 - Planted Red Pine	Poletimber Well	3.1	59	141-170	N/A			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Pine		100	Pole/Log	9	59	Red Maple	Medium	5 - 10 feet	Sapling
						Black/Red (Hybrid) Oak	Medium	Variable	Sapling
						Witch Hazel	Low	5 - 10 feet	Tall Shrub
58	4130 - Aspen	Sapling Well	16.7	26	Unspecified	N/A	Nice a 3.		
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple		10	Sapling	2		Red Maple	Medium	< 5 feet	Sapling
Bigtooth Aspen		75	Sapling	3	26	Black/Red (Hybrid) Oak	Low	5 - 10 feet	Sapling
Black/Red (Hybrid) Oak		10	Sapling	3		Blackberry/Raspberry	Low	Variable	Tall Shrub
						Black Cherry	Medium	5 - 10 feet	Sapling
						White Pine	Low	5 - 10 feet	Sapling
59	4130 - Aspen	Poletimber Well	30.0	65	Unspecified	N/A			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple		10	Pole/Log	8		Red Maple	Medium	< 5 feet	Sapling
Bigtooth Aspen		80	Log/Pole	10	65	Beech	Low	10 - 20 feet	Pole
Black/Red (Hybrid) Oak		10	Log	16		Black/Red (Hybrid) Oak	Medium	5 - 10 feet	Sapling
						White Pine	Low	< 5 feet	Sapling
60	42110 - Planted Red Pine	Poletimber Well	42.9	59	141-170	N/A			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Pine		95	Pole/Log	9	59	Red Maple	Medium	5 - 10 feet	Sapling
						Bigtooth Aspen	Low	< 5 feet	Sapling
						Black/Red (Hybrid) Oak	Low	5 - 10 feet	Sapling
						Black Cherry	Medium	5 - 10 feet	Sapling
61	500 - Water	Nonstocked	3.9		Unspecified	No	Flooding		
62	4130 - Aspen	Sapling Well	61.4	7	Unspecified	N/A	Stand treated with sale number 63-037-11-01. Aspen regeneration with mature oak and pine scattered. Low area runs through stand, dominated by pine.		
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple		10	Sapling	1		Black/Red (Hybrid) Oak	High	5 - 10 feet	Sapling
Bigtooth Aspen		65	Sapling	1	7	White Pine	Low	5 - 10 feet	Sapling
White Pine		10	Log/Pole	14		Cherry (spp.)	Low	5 - 10 feet	Sapling



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																
63	4130 - Aspen	Sapling Well	59.7	36	Unspecified	N/A																																	
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64	42110 - Planted Red Pine	Poletimber Well	7.8	59	141-170	N/A	On hill. Irregular shaped stand. Diameters and densities vary.																																
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65	4131 - Aspen, Oak	Sapling Well	3.8	15	Unspecified	N/A	Mature oak with aspen and mixed deciduous regeneration.																																
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66	42111 - Planted Red Pine, Mixed Deciduous	Poletimber Well	23.4	59	51-80	N/A	Stand was harvested in 1992, avoided pine areas. Scattered planted red pine throughout stand.																																
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68	42110 - Planted Red Pine	Poletimber Well	10.9	59	141-170	N/A	Small diameter average.																																
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
69	4131 - Aspen, Oak	Sapling Well	13.5	15	Unspecified	N/A	Aspen regeneration with scattered mature oak.
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
Red Oak		20	Pole/Log	10		Red Maple	
Bigtooth Aspen		75	Sapling	3	15	Red Pine	
						Black Cherry	
						Density	
						Avg. Height	
						Size	
70	4139 - Aspen, Mixed Deciduous	Sapling Well	21.3	6	Unspecified	N/A	Treated with sale #63-009-11-01
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
Red Maple		30	Sapling	1		Red Maple	
Red Oak		15	Log/Pole	14		Beech	
Bigtooth Aspen		50	Sapling	1	6		
						Density	
						Avg. Height	
						Size	
71	4139 - Aspen, Mixed Deciduous	Sapling Well	28.0	7	Immature	N/A	Red pine plantation was final harvested in 2012.
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
Red Oak		15	Pole/Sapling	7		Red Oak	
Bigtooth Aspen		55	Sapling	1	7		
Red Maple		30	Sapling	1			
						Density	
						Avg. Height	
						Size	
72	42110 - Planted Red Pine	Poletimber Well	8.7	59	141-170	N/A	Stand was third row thinned in 2012.
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
Red Pine		90	Pole	8	59	Serviceberry (Juneberry)	
						Black Cherry	
						Density	
						Avg. Height	
						Size	
73	4123 - Red Oak	Poletimber Well	14.2	99	1-50	N/A	Moderate to high density oak regen. Variable heights. Manage for a mix of oak and pine.
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
Red Maple		10	Pole	8		Red Maple	
Red Oak		70	Log	14	99	Beech	
Bigtooth Aspen		10	Log/Pole	10		Red Oak	
Red Pine		10	Log/Pole	10		Red Pine	
						Density	
						Avg. Height	
						Size	
74	4130 - Aspen	Poletimber Well	1.5	35	81-110	N/A	
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
Red Maple		10	Pole	8		Red Oak	
Red Oak		15	Log/Pole	10	85	White Pine	
Bigtooth Aspen		75	Pole	6	35		
						Density	
						Avg. Height	
						Size	



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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75 42141 - Planted Mixed Pine, Mixed Deciduous Poletimber Well 8.5 59 81-110 N/A Mixed stand. Maybe harvest when adjacent timber types mature.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	10	Pole	8		Red Maple	Low	5 - 10 feet	Sapling
Red Oak	20	Log/Pole	10		Beech	Low	< 5 feet	Sapling
Bigtooth Aspen	10	Pole	8		Red Oak	Low	Variable	Sapling
Red Pine	50	Log/Pole	10	59	White Pine	Low	< 5 feet	Sapling
Jack Pine	10	Pole	6	59				

76 4130 - Aspen Sapling Well 7.2 7 Unspecified N/A Final harvested in 2012 all pine and oak was left.

Canopy Species	% Cover	Size Class	DBH	Age
Red Maple	10	Sapling	1	12
Red Oak	10	Log/Pole	12	
Bigtooth Aspen	70	Sapling	1	7

77 330 - Low-Density Trees Nonstocked 2.4 Unspecified No

78 122 - Road/Parking Lot Nonstocked 1.6 Unspecified No

79 4123 - Red Oak Sawtimber Medium 37.4 77 1-50 N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Oak	95	Log	14	77	Red Maple	Medium	< 5 feet	Sapling
					Beech	Medium	5 - 10 feet	Sapling
					Red Oak	Medium	10 - 20 feet	Sapling
					Bigtooth Aspen	High	10 - 20 feet	Sapling
					Blackberry/Raspberry	Medium	Variable	Tall Shrub

80 4131 - Aspen, Oak Sapling Well 46.1 24 Unspecified N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	15	Sapling	3		Red Maple	Medium	5 - 10 feet	Sapling
Red Oak	20	Sapling	3		Beech	Medium	< 5 feet	Sapling
Bigtooth Aspen	65	Sapling/Pole	4	24	Red Oak	Low	5 - 10 feet	Sapling
					White Pine	Low	5 - 10 feet	Sapling
					Red Pine	Low	< 5 feet	Sapling
					Witch Hazel	Low	5 - 10 feet	Tall Shrub

81 42110 - Planted Red Pine Poletimber Well 19.3 59 141-170 N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Pine	95	Pole/Log	9	59	Red Maple	Low	5 - 10 feet	Sapling
					Beech	Low	5 - 10 feet	Sapling



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																				
82	42110 - Planted Red Pine	Poletimber Well	12.6	59	141-170	N/A	Stand was third row thinned in 2012.																																				
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85	4191 - Mixed Upland Deciduous with Conifer	Sawtimber Well	1.3	94	81-110	N/A	Stand is located along south property line. Left as a visual buffer when stand 83 was harvested.																																				
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93	4123 - Red Oak	Sawtimber Medium	28.8	97	51-80	N/A	Two ages stand dominated by oak in the overstory, with aspen, maple, beech and oak regeneration.																																					
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94	4199 - Other Mixed Upland Deciduous	Sapling Well	13.1	5	Immature	N/A	Treated with sale #63-009-11-01																																					
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95	42110 - Planted Red Pine	Poletimber Well	13.7	59	171-200	N/A																																						
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments		
96	42110 - Planted Red Pine	Poletimber Well	26.0	59	141-170	N/A			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Oak		10	Log	16		Red Maple	Low	< 5 feet	Sapling
Red Pine		90	Pole	8	59	Beech	Low	Variable	Log
97	4123 - Red Oak	Sawtimber Medium	15.1	88	1-50	N/A	Fair amount of pole-sized red oak was released with previous harvest. Aspen regen is heavy in portions of stand.		
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Oak		100	Log	16	88	Sugar Maple	Low	5 - 10 feet	Sapling
						Black Cherry	Low	5 - 10 feet	Sapling
						Beech	Low	>20 feet	Pole
						Red Oak	Medium	5 - 10 feet	Sapling
						Red Oak	Medium	Variable	Pole
						Bigtooth Aspen	High	5 - 10 feet	Sapling
98	4123 - Red Oak	Sawtimber Well	3.4	88	111-140	N/A	Mixed stand.		
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple		10	Pole	8		Red Maple	Medium	Variable	Sapling
Red Oak		60	Log	14	88	White Ash	Medium	10 - 20 feet	Sapling
Bigtooth Aspen		20	Pole	8	55	Beech	Medium	5 - 10 feet	Sapling
						Red Oak	Medium	>20 feet	Pole
99	4130 - Aspen	Sapling Well	9.7	16	Unspecified	N/A	Did not cut oak.		
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple		25	Sapling	1		Red Maple	Medium	< 5 feet	Sapling
Bigtooth Aspen		70	Sapling	1	16	Bigtooth Aspen	Low	< 5 feet	Sapling
						Black Cherry	Low	< 5 feet	Sapling
100	4131 - Aspen, Oak	Poletimber Well	3.0	68	Unspecified	N/A	Small stand. Retain as retention.		
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple		10	Pole	7		Beech	Medium	5 - 10 feet	Sapling
Red Oak		50	Log/Pole	14		Red Oak	Medium	Variable	Sapling
Bigtooth Aspen		40	Pole/Log	8	68	White Pine	Low	< 5 feet	Sapling
101	4131 - Aspen, Oak	Sawtimber Well	9.5	42	1-50	N/A	mix of black oak, white oak and red maple.		
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple		20	Pole/Log	8		Red Maple	Medium	Variable	Sapling
White Oak		10	Log/Pole	12		Black/Red (Hybrid) Oak	Low	5 - 10 feet	Sapling
Bigtooth Aspen		40	Pole	8	42	White Pine	Low	Variable	Sapling
Black/Red (Hybrid) Oak		20	Log/Pole	12	85				



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																										
102	4131 - Aspen, Oak	Poletimber Well	2.8	47	51-80	N/A	Left as retention for stand 101. Small stand along county road. Nice advanced oak regen in stand.																																										
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103	42220 - Natural Jack Pine	Sapling Well	53.3	4	Immature	N/A	Stand has been trenched and planted to red pine.5/2015. Year one regen survey is at 653 TPA, needing a release spray. 10/11/2018- Site has been replanted. Release spray was somewhat effective. Extremely variable sized red pine (600-700 TPA). Jack Pine is very dominate on the site. NO FUTURE TREATMENTS. Site is too far gone to expect planted red pine to dominate the area. Variance should be written to change management objective to accept a mixed conifer (red pine/jack pine) stand with mixed deciduous.																																										
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104	4130 - Aspen	Poletimber Well	11.4	37	Unspecified	N/A																																											
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105	122 - Road/Parking Lot	Nonstocked	0.6	0	Unspecified	No	Some black oak saw-log sized tress (low quality) scattered throughout stand. Cadillac Pathway crosses thru stand. Pathway parking lot borders stand in north west corner. 2 acre portion along parking lot was cut in 2018 to allow PRD to expand the parking lot. (Negotiated sale 63-008-18-01)																																										
106	4131 - Aspen, Oak	Sapling Well	6.0	7	Unspecified	N/A	Stand treated with sale number 63-037-11-01																																										
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107	4126 - White, Black, N. Pin Oak	Sawtimber Well	3.4	85	51-80	N/A																																											
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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109 4199 - Other Mixed Upland Deciduous Poletimber Medium 33.8 43 1-50 N/A

Scattered open grown oak sawtimber, black cherry, clumps of red maple and aspen. Cadillac Pathway passes thru portions of stand. Most of stand borders the roads passing thru the red pine plantations.

Canopy Species	% Cover	Size Class	DBH	Age
Red Maple	25	Pole	6	
Red Oak	25	Log/Pole	14	73
Bigtooth Aspen	25	Pole	8	43
Black Cherry	25	Pole	8	

Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	Low	Variable	Sapling
Black Cherry	Medium	Variable	Sapling