



Compartment Review Presentation

Traverse City Forest Management Unit

Compartment 61013

Entry Year 2022

Acreage: 2,884

County Benzie

Management Area: Benzie Outwash

Revision Date: 2020-07-22

Stand Examiner: Tim Webb

Legal Description:

T26N R13W Sections 3, 4, 5, 6, 7, 8, 16, 17, 18

Identified Planning Goals:

This compartment falls within the Benzie Outwash Management Area (MA). Vegetation management in this MA will provide forest products; maintain or enhance wildlife habitat; protect areas of unique character and threatened, endangered and special concern species; and provide for forest-based recreational uses and Native American non-commercial uses of forest products. Timber management for the next 10 years includes improving the age-class distribution of aspen and red pine. Northern hardwoods management includes continued selective or regeneration harvesting of northern hardwoods to achieve an uneven age-class structure or improve timber quality. Wildlife management objectives include increasing the structural complexity of northern hardwood communities for interior forest species and perpetuating early-successional communities for species adapted to young forests. Expected trends in this 10-year planning period are increased recreational pressure on recreational trails and introduced insect and disease concerns, especially beech bark disease.

The Platte River State Fish Hatchery falls within this compartment, so water quality is of particular importance. Hatchery operation depends on cold, clean water from local streams, especially Brundage Creek. Forest management must not compromise the integrity of the Platte River or its tributaries.

Beyond the important riparian areas, the compartment will continue to be managed as a mix of forest types and age classes, including aspen, northern hardwood, swamp forest, plantation pine and natural white pine stands. Several forest openings scattered throughout the compartment will continue to be managed for open habitat.

Soil and topography:

The compartment is entirely within an extensive outwash plain landscape, which covers a significant part of Benzie County. The compartment is topographically defined, however, by the valleys of the Platte River and several tributary streams. Beyond these valleys, the terrain is flat to gently rolling. Sandy soils predominate (Nessen, Kaleva, Covert-Pipestone, Benona, Grattan, Benzonia, and Shavenaugh sands), with some muck soils in lowlands.

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

Areas to the south and west of compartment 13 are predominantly state forest land with some private inholdings. To the north are private rural parcels of 5 to 300+ acres, including some small agricultural fields and a small private airstrip. State lands in the compartment surround on three sides a large block of heavily subdivided, private rural-residential lots, typically 5 to 20 acres in size, which extends to the east and to the southwest of the compartment. U.S. Highway 31, a busy transportation corridor, divides the compartment north and south.

Unique Natural Features:

There are several water bodies within the compartment, including Bronson Lake, Platte River, Stanley Creek, Brundage Creek, and Kinney Creek. Numerous springs and seeps emerging from bluff bases feed into these creeks. Lake Louise and Belt Lake are also within the compartment on privately owned parcels.

A wetland basin in the northeast part of the compartment was long ago drained and had much of the marl removed, likely for fertilizer. This area has an uncommon young cedar component.

Archeological, Historical, and Cultural Features:

Brundage Cemetery, a small, privately owned one-acre parcel, is surrounded by state land within section 17. The State Historical Preservation Office notes an Indian burial mound somewhere in the vicinity, but the actual location is unknown. An old railroad grade crosses through the northern part of the compartment, with some old structural remnants in section 5. Brundage dam and pond are in section 17, with an adjacent old stone foundation.

Special Management Designations or Considerations:

A Special Conservation Area within the compartment includes much of the floodplain of the Platte River and its tributaries, along with adjacent steep bluffs. This designation is intended to afford protection to the riparian area and its multiple resource values.

Watershed and Fisheries Considerations:

This compartment is within the Platte River watershed, and contains the Platte River State Fish Hatchery, Stanley Creek, Brundage Creek, and the Platte River. All of these streams are Type 1 trout streams with cold water fish populations. Reasonable buffers (as outlined in Water Quality Management Practices on Forest Land) and restrictions should be adhered to and appear to be appropriate for the proposed treatments.

Wildlife Habitat Considerations:

This compartment falls entirely within a broad, flat outwash plain with few wetlands and excessively drained sand (Land Type Association 5111). This compartment represents a small unique portion of this LTA, as the usually flat outwash plain is broken here by the valleys of the Platte River and its tributaries. Consequently, this compartment would have been less influenced by the historic large-scale fires that affected the rest of the LTA and therefore more successional advanced to white pine and northern hardwood types. Maintenance of large unfragmented tracts of northern hardwoods in association with the Platte River drainage will provide mature interior forest habitat for numerous forest songbirds and riparian associates, most notably the threatened red-shouldered hawk. Such management will complement goals to maintain water quality in the river and protect fragile banks. Maintaining diversity of hardwood species and retention of cavity trees and down logs should be a part of selection cutting. Upland areas away from the river should continue to be managed for a variety of successional stages and age classes of aspen-white pine forest, from grass and shrub openings to late-successional white pine forest. Where harvesting is to occur in these types, we should maintain within stand structural diversity by retaining various leave trees (particularly mast producers), snags, and down logs. If possible tops should be left unchipped and piles scattered throughout the sale. One of the larger openings has been scheduled for treatment to reduce bracken and exotics and to restore grasses and forbs for wildlife forage and cover. Lowland conifers should be maintained as much as possible. Patch cuts may be appropriate in some conifer swamps to replicate small naturally occurring blowdowns, to provide winter deer browse, and to attempt cedar and hemlock regeneration.

Mineral Resource and Development Concerns and/or Restrictions

Surface sediments consist of glacial outwash sand and gravel and post-glacial alluvium. The glacial drift thickness varies between 400 and 600 feet. Beneath the glacial drift are the Devonian Ellsworth and Antrim shales. The Antrim is quarried for cement products. The nearest gravel pit is within one mile to the east in the SW of Section 9. Gravel potential in the compartment is considered good. This area is located northwest of the Antrim Shale gas play. Most of the Compartment is leased for oil and gas development. The Antrim Shale appears to have potential.

Vehicle Access:

Access for management and recreation is adequate throughout, except for the isolated 80-acre parcel in section 8. A private subdivision road ends near the northwest corner of this parcel, and an old 2-track through private land enters this parcel from the southwest. There is no public access. The Platte River and tributary streams restrict the approaches to various parts of the compartment.

Survey Needs:

Survey monuments may be needed to establish property lines in the SW1/4 of sec. 3, some parts of sec. 5, and in the north 1/2 of sec. 17.

Recreational Facilities and Opportunities:

Trout fishing is popular along the Platte River and its tributaries. Deer and ruffed grouse hunting are also important recreational activities. The Platte River Snowmobile Trail runs north and south through the compartment. The Shore-to-Shore Trail crosses the northeast corner of the compartment along county roads. Veterans Memorial State Forest Campground is just west of the compartment off U.S. 31.

Fire Protection:

VFD Fire Protection is from the Inland Twp. Fire Dept., and DNR Fire Protection is from the Traverse City Field Office. Access is acceptable, and urban interface is not much of a concern except for private residences scattered throughout the compartment.

Additional Compartment Information:

The E½ SENE of section 5 would be a desirable acquisition, should it become available for purchase or exchange.

The Platte River State Fish Hatchery has a pipeline running from Brundage Pond to the Hatchery as a water source for hatchery operations. Clearing trees along this pipeline corridor may be needed during this planning period for maintenance purposes.

The following reports from the Inventory are attached:

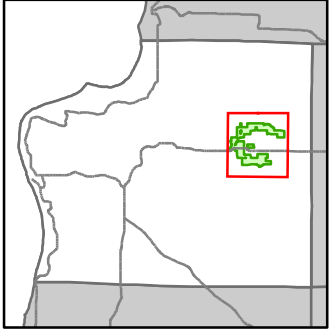
- Total Acres by Cover Type and Age Class**
- Cover Type by Harvest Method**
- Proposed Treatments – No Limiting Factors**
- Proposed Treatments – With Limiting Factors**
- Stand Details (Forested and Nonforested)**
- Dedicated and Proposed Special Conservation Areas**
- Site Condition Details**

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

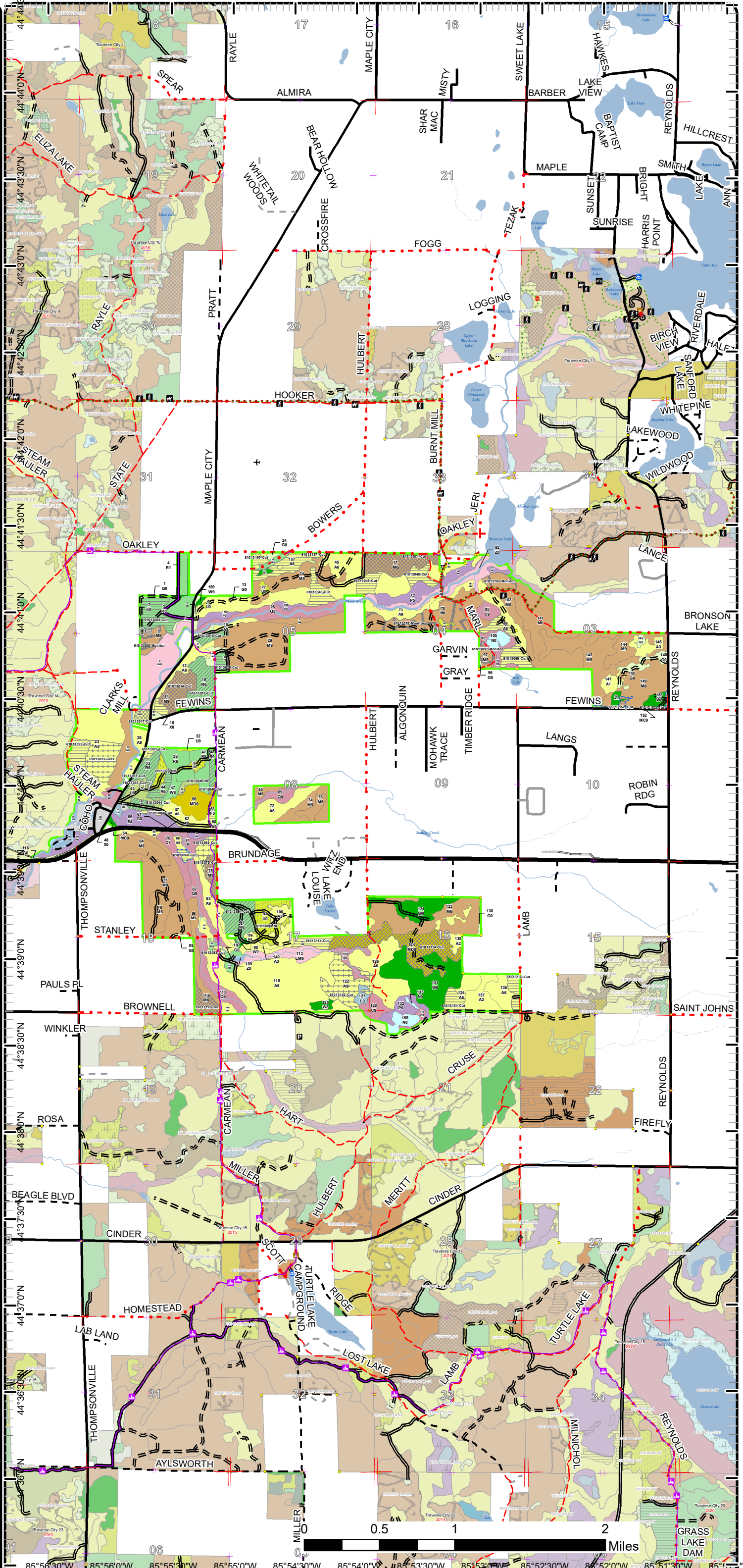
- Base feature information, stand boundaries, cover types, and numbers**
- Proposed treatments**
- Site condition boundaries**
- Details on the road access system**

Cover Type & Treatments Map

Compartment: 13
 T26N R13W
 Sections 3-8, 16-18
 County: Benzie
 Unit: Traverse City
 Mgmt Area: Benzie Outwash
 YOE: 2022
 Acres: 2,884.5 GIS Calculated
 Examiner: Tim Webb
 Map Revised: 1/6/2021
 Map Phase: Post-Review



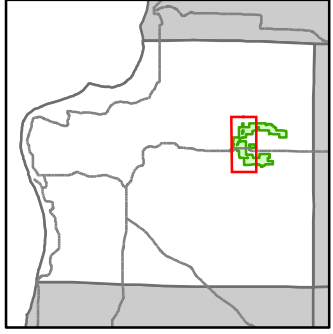
- Miris Corners
- + Remonumented Section Corners
- Survey Grade Corners
- Counties
- == DNR - Secondary Forest Road
- == DNR - Forest Access Route
- == Federal / State Highway
- == Federal / State / County - Paved Road
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- - - County - Gravel Road
- - - County - Dirt Road (Seasonal)
- - - Private - Paved Road
- - - Private - Dirt / Gravel Road
- ▣ Hiking Trails
- ▣ Horse Trails
- ▣ Snowmobile Trails
- ⋯ Designated Hiking Trails
- ⋯ Designated Equestrian Trails
- ⋯ Designated Snowmobile Trails
- Intermittent Stream
- Lake/Pond
- Perennial River
- Lakes and Rivers
- + Airport
- ▲ Berms
- × Bridges
- Culvert
- ▣ Parking Lot
- Pipeline
- ▣ Compartment Boundary
- ▣ Treatments with Site Conditions
- ▣ Selection (Group, Single Tree)
- ▣ Clearcut (w/Reserves)
- ▣ Harvest, Overstory Removal
- ▣ Thinning (Crown, Low, Systematic)
- ▣ Regeneration Survey
- ▣ Opening Maintenance
- 411 - Northern Hardwood
- 413 - Aspen
- 419 - Mixed Upland Deciduous
- 421 - Planted Pines
- 422 - Natural Pines
- 423 - Other Upland Conifers
- 611 - Lowland Deciduous Forest
- 612 - Lowland Coniferous Forest
- 613 - Lowland Mixed Forest
- 110 - Low Intensity Urban
- 122 - Roads/Parking Lot
- 310 - Herbaceous Openland
- 320 - Upland Shrub
- 330 - Low Density Trees
- 500 - Water
- 622 - Lowland Shrub
- 623 - Emergent Wetland



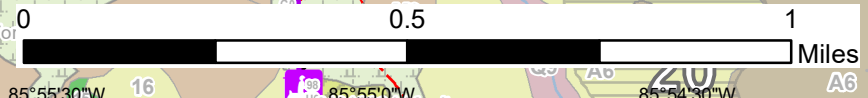
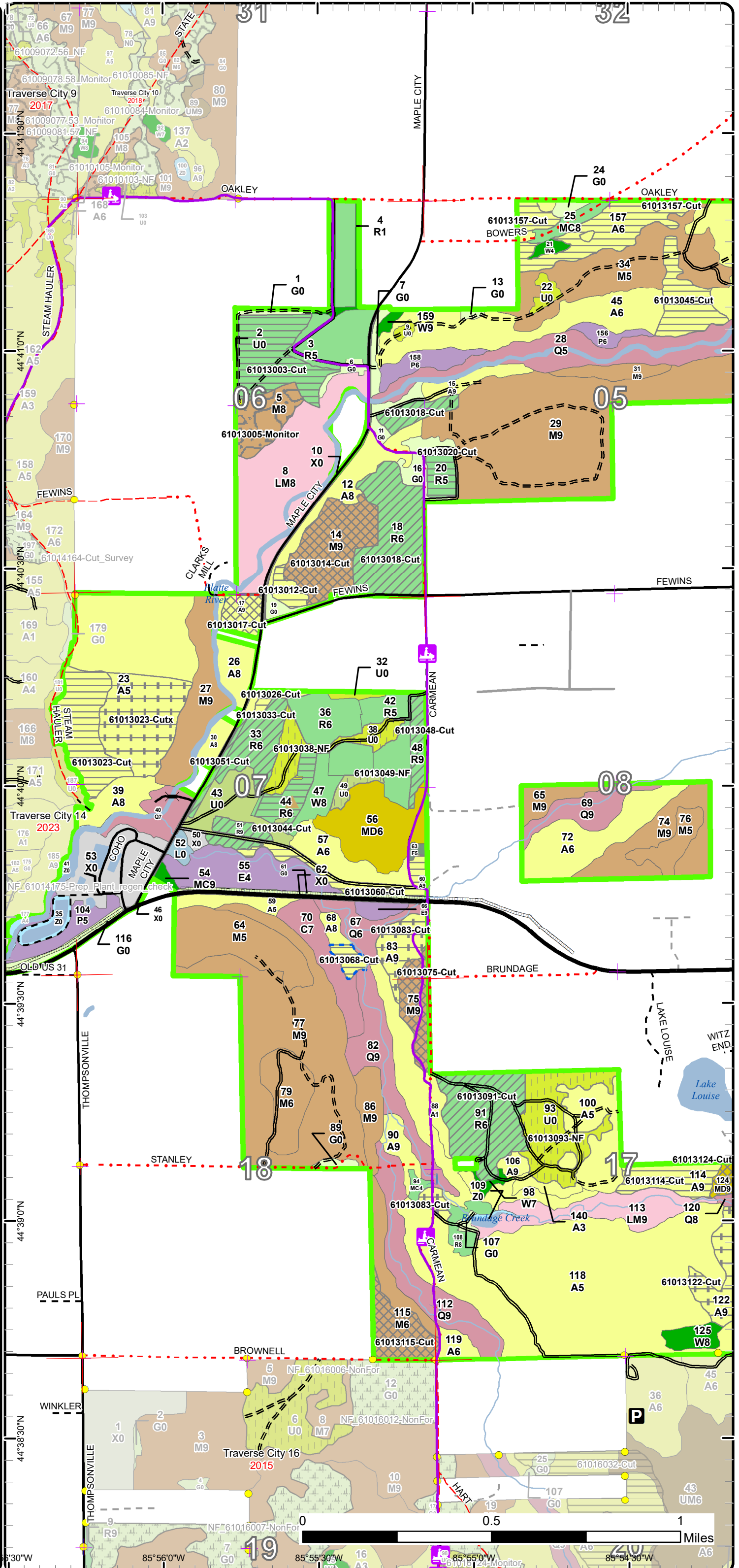
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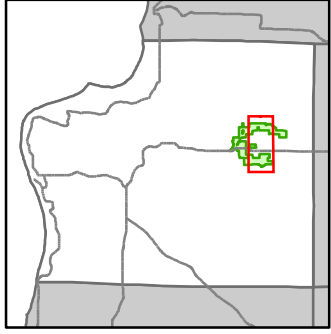


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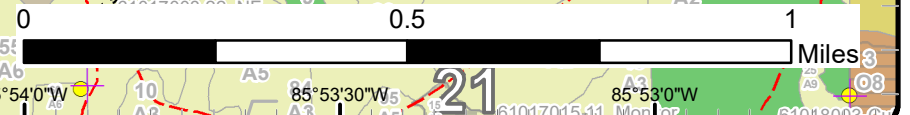
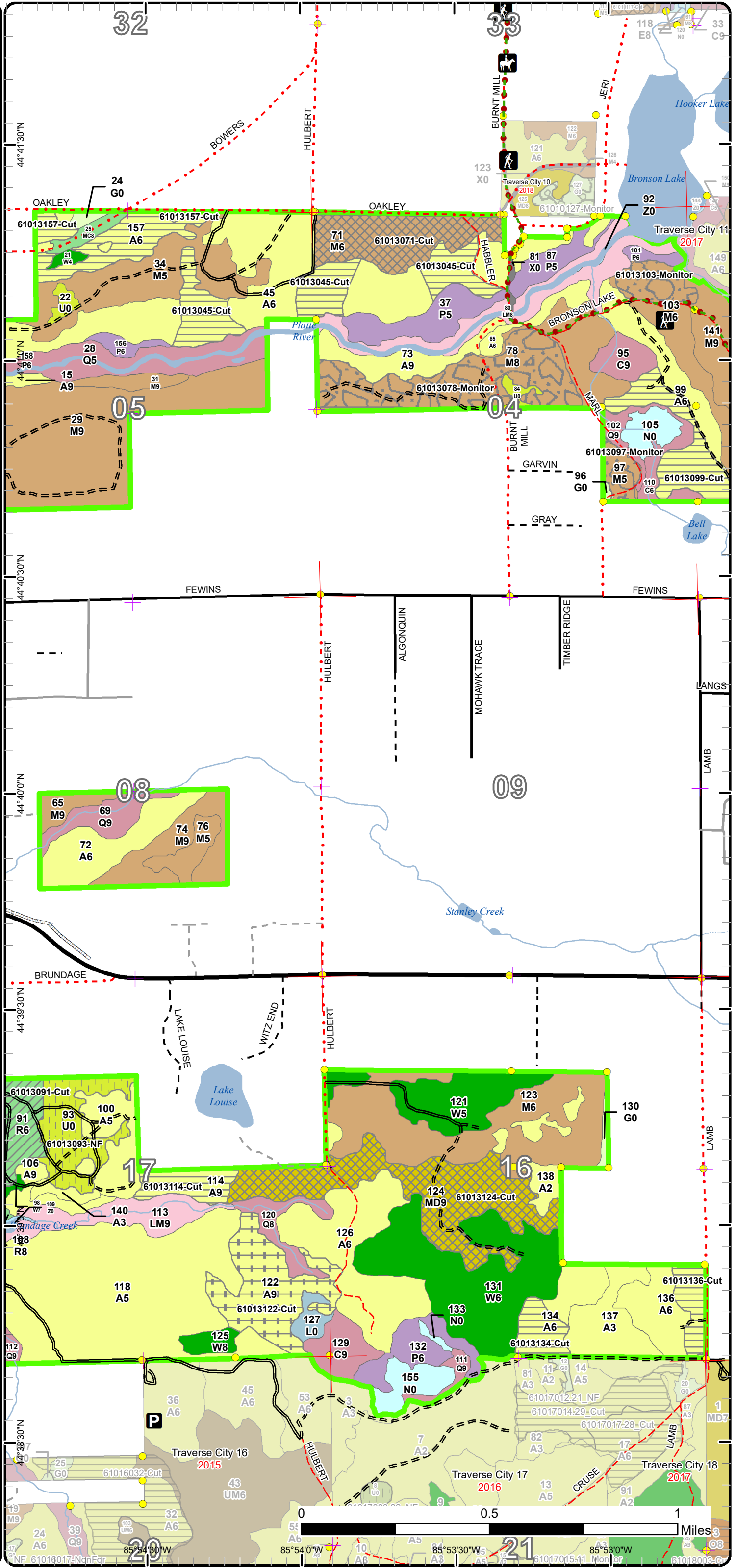


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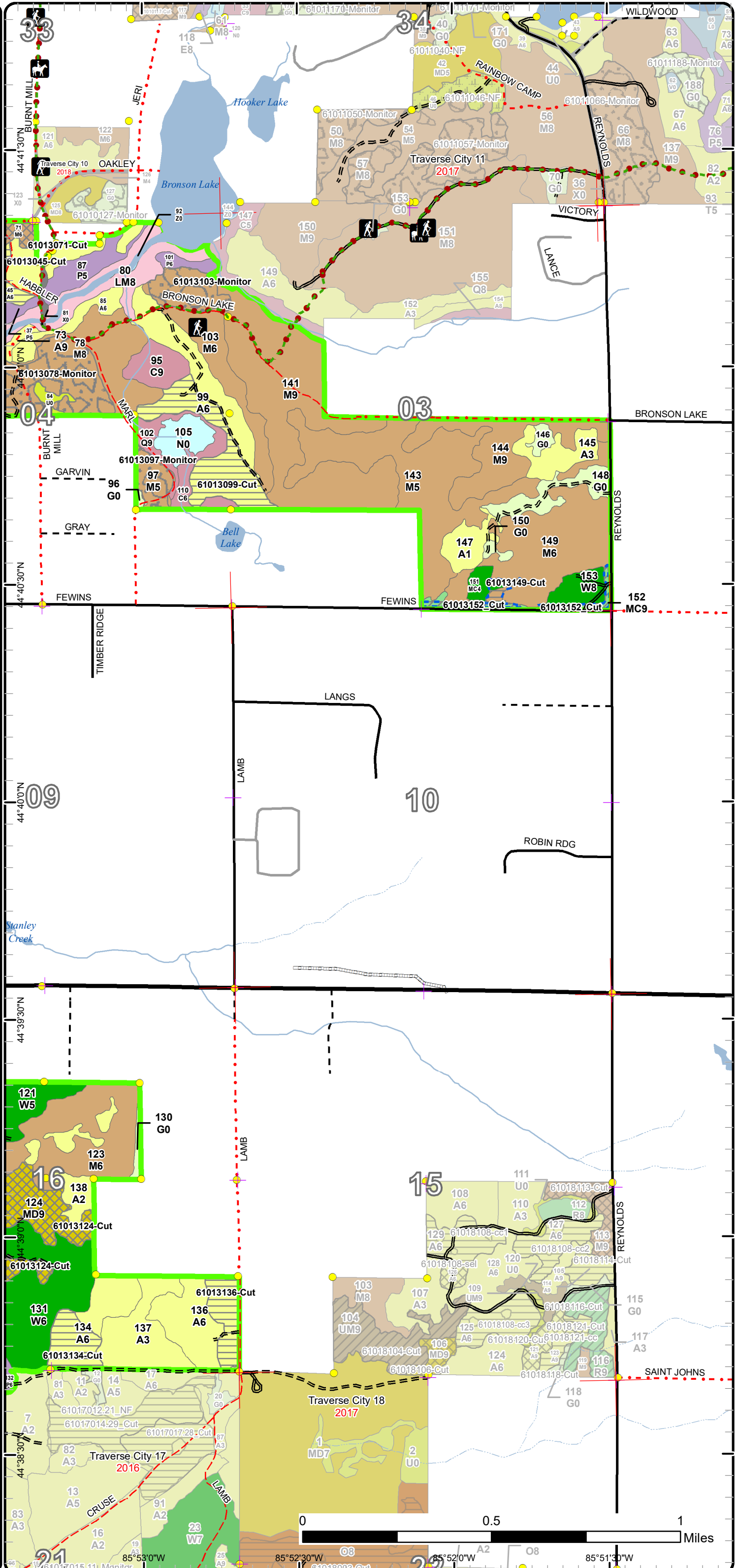
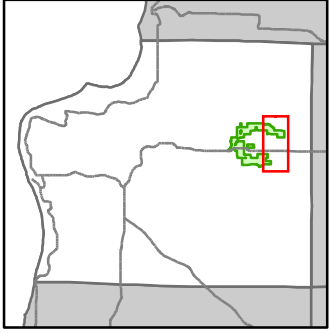
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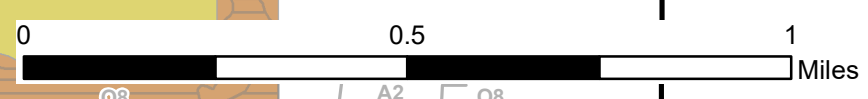
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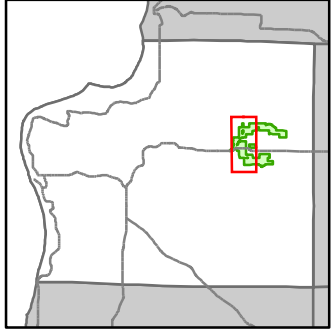
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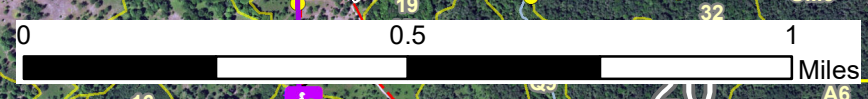
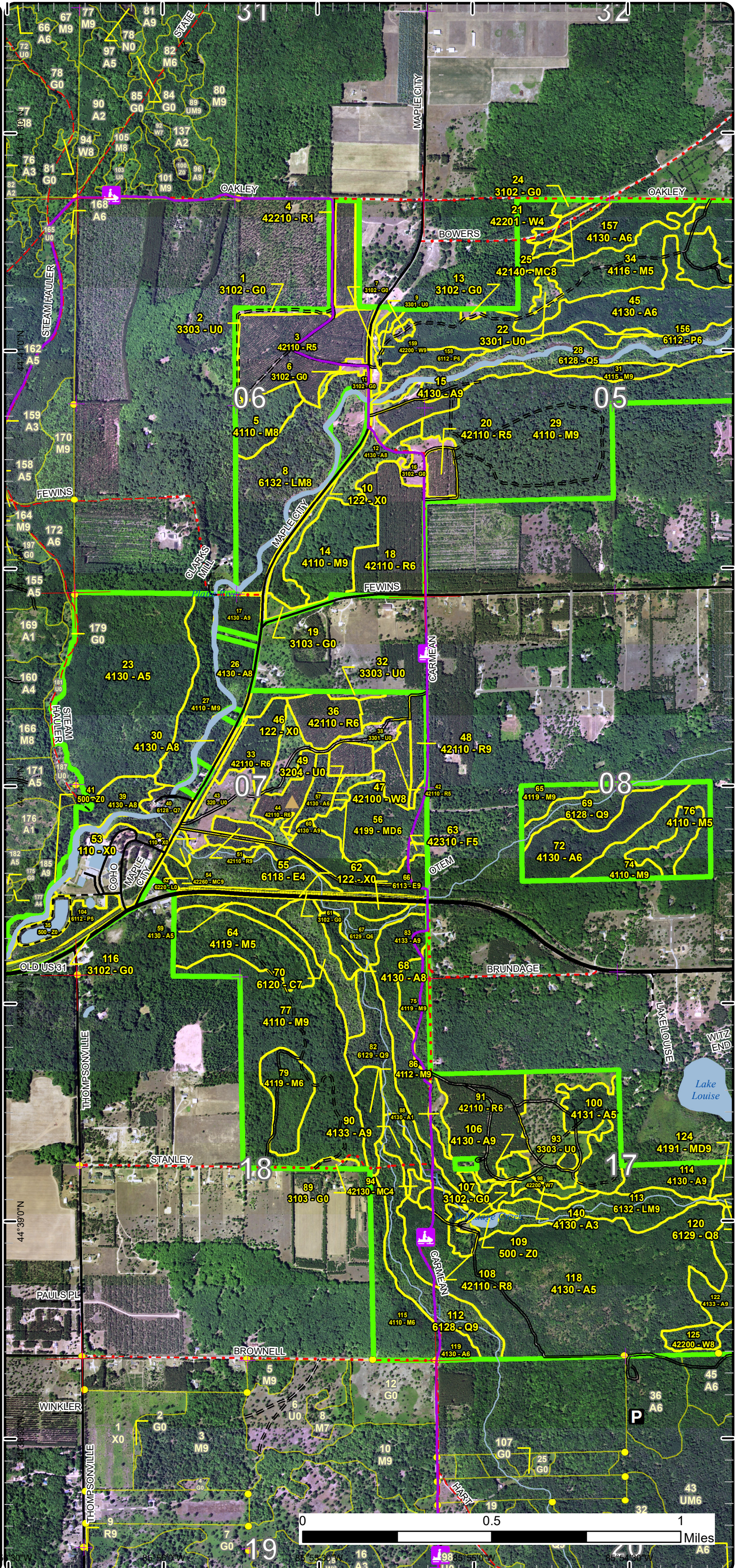
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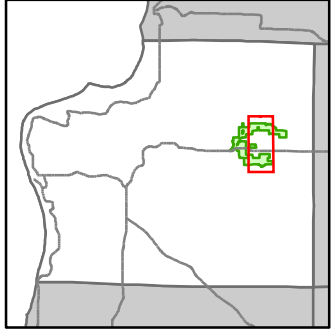


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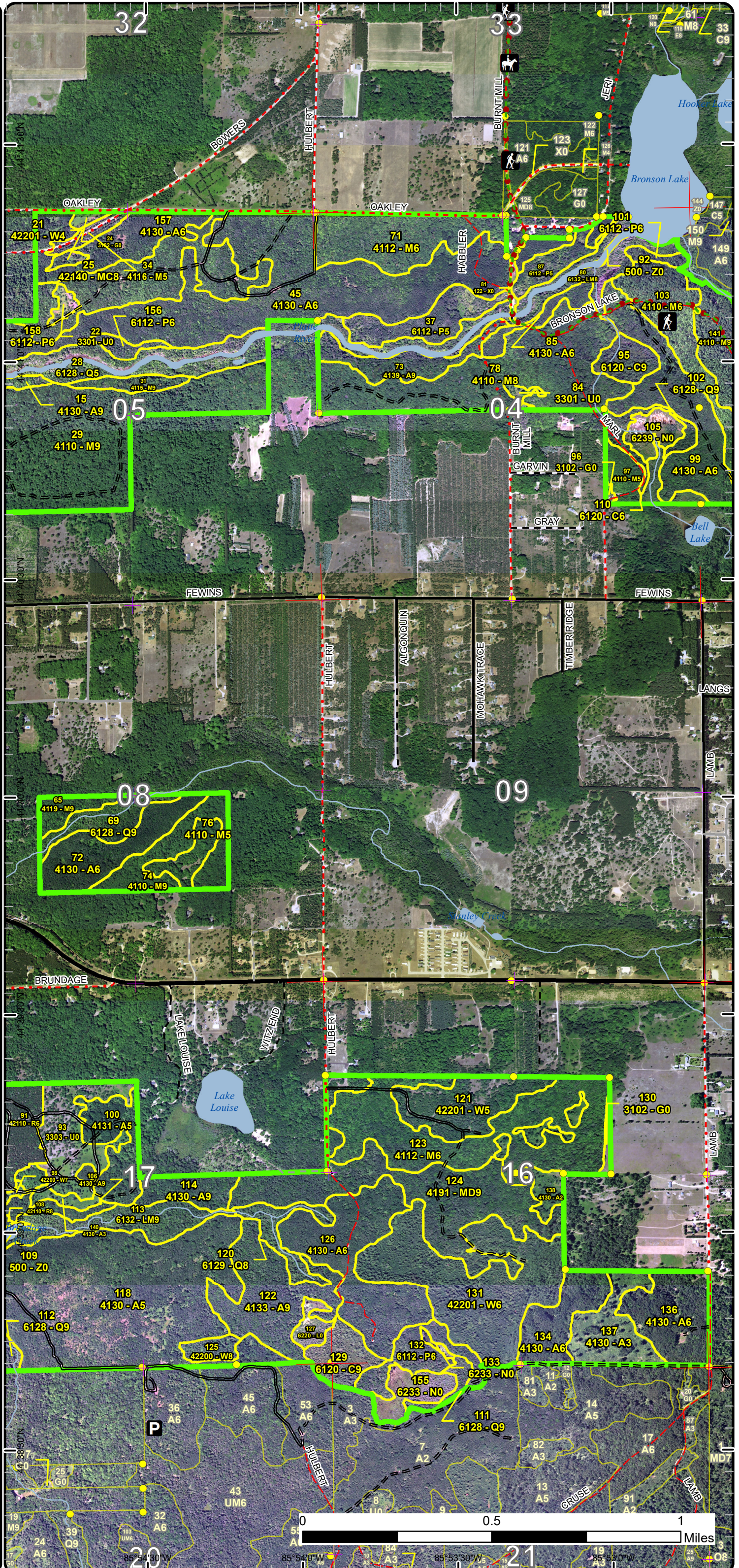


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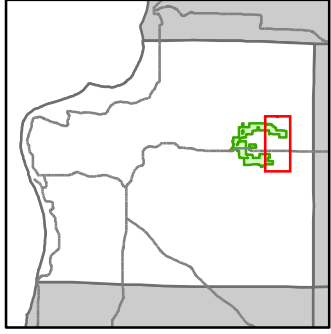


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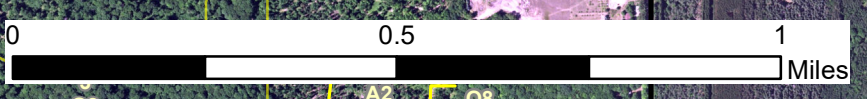
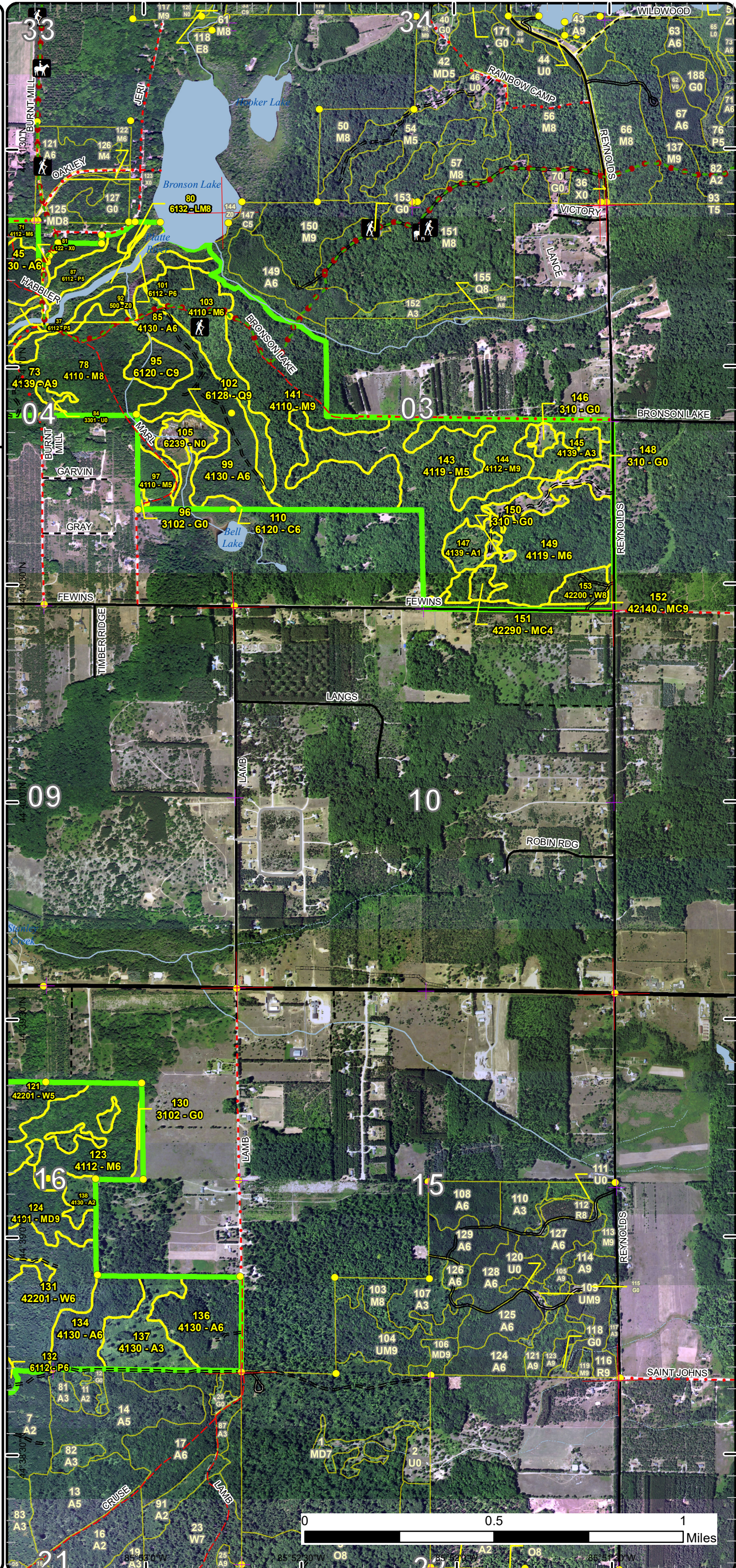


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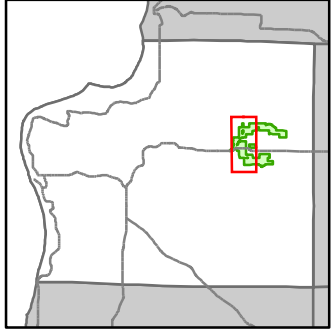


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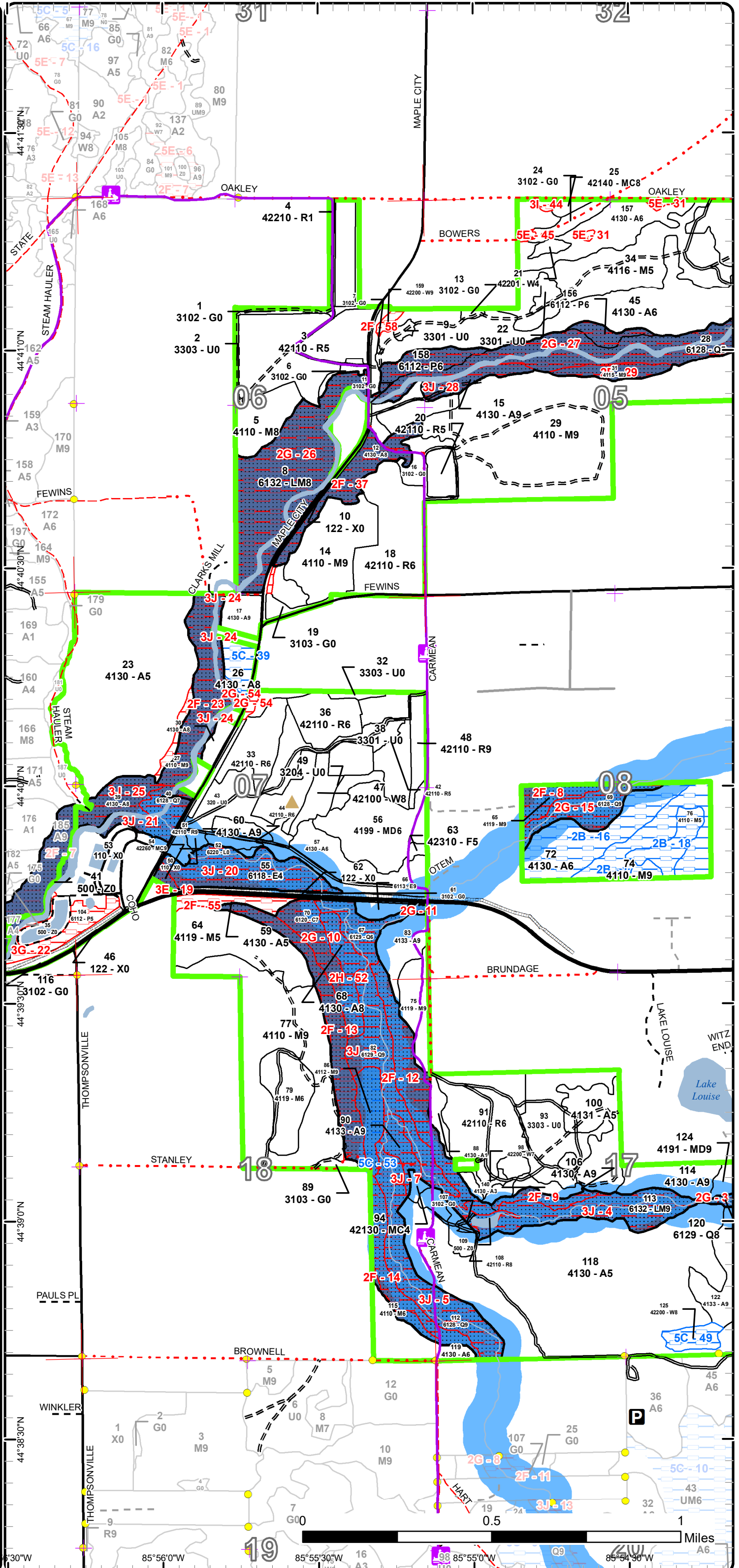


Special Conservation Areas

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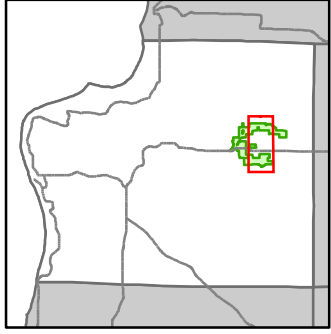


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- Compartment Boundary
- Available w/ Constraints
- Unavailable
- 5C: Delay treatment for age/size class diversity or exceptional site quality
- 2F: Too steep
- 2G: Too wet (sensitive soils, does not include access issues)
- 2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)
- 3E: Easement / lease, non-military (e.g.- Consumers Power red pine, etc)
- 3G: Other Influence zones - See comments
- 3J: Water quality / BMPs (stream, river, or lake)
- 5E: Long-Term Retention
- Stand Boundaries
- SCA
- Cold Water Streams
- Cold Water Lakes
- High Priority Trout Stream Buffer
- Spring or Seep
- Other SCA (No Category Assigned)

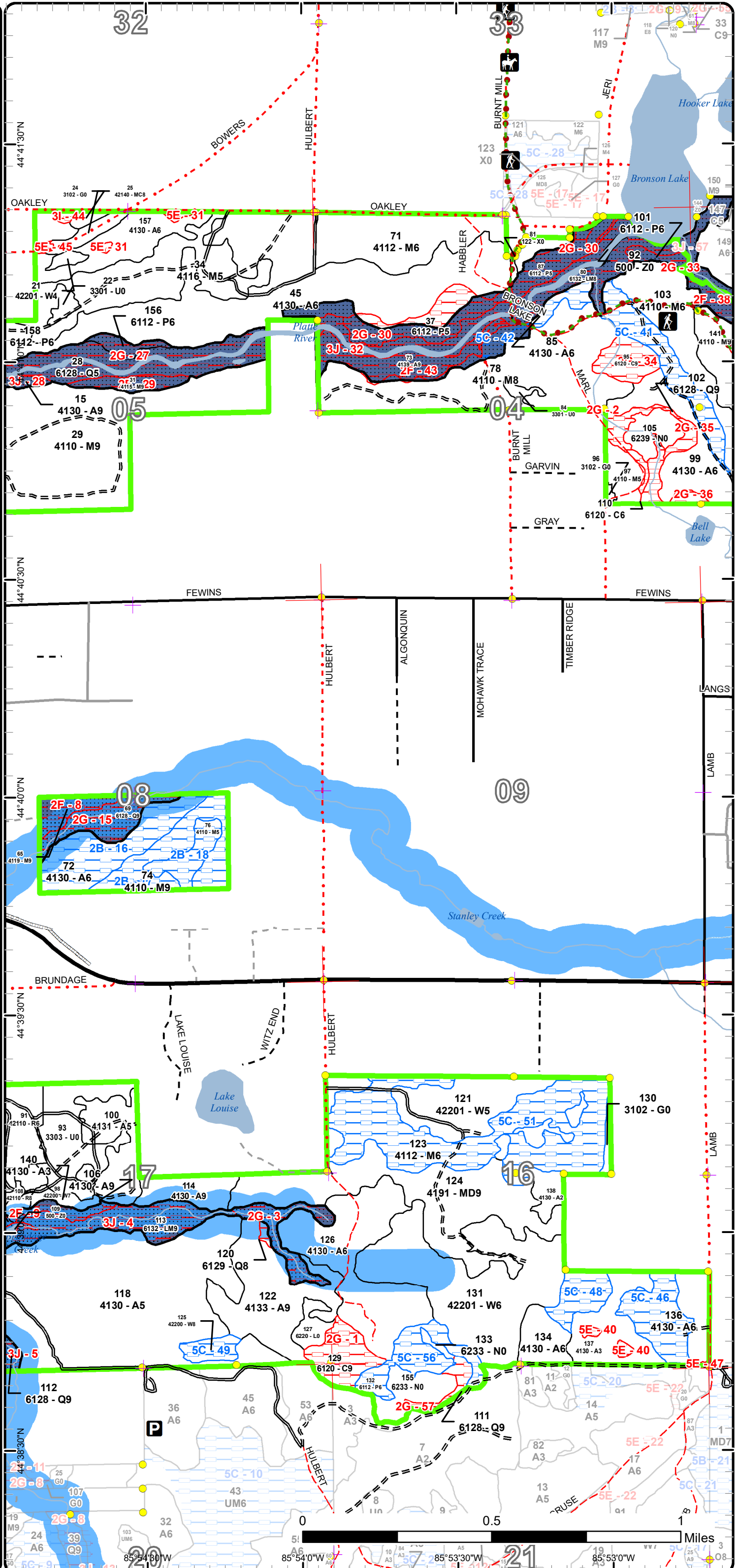


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 Acres: 2,884.5 GIS Calculated
 Examiner: Tim Webb
 Map Revised: 1/6/2021
 Map Phase: Post-Review

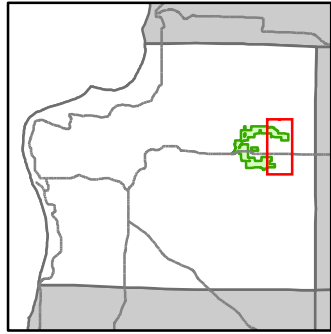


- Miris Corners
- + Remonumented Section Corners
- Survey Grade Corners
- Counties
- DNR - Secondary Forest Road
- DNR - Forest Access Route
- Federal / State Highway
- Federal / State / County - Paved Road
- Federal / State - Dirt / Gravel Road
- County - Gravel Road
- County - Dirt Road (Seasonal)
- Private - Paved Road
- Private - Dirt / Gravel Road
- Hiking Trails
- Horse Trails
- Designated Hiking Trails
- Designated Equestrian Trails
- Intermittent Stream
- Lake/Pond
- Perennial River
- Lakes and Rivers
- P Parking Lot
- Pipeline
- Compartment Boundary
- Available w/ Constraints
- Unavailable
- 5C: Delay treatment for age/size class diversity or exceptional site quality
- 2F: Too steep
- 2G: Too wet (sensitive soils, does not include access issues)
- 3J: Water quality / BMPs (stream, river, or lake)
- 5E: Long-Term Retention
- Stand Boundaries
- SCA
- Cold Water Streams
- Cold Water Lakes
- High Priority Trout Stream Buffer
- Spring or Seep

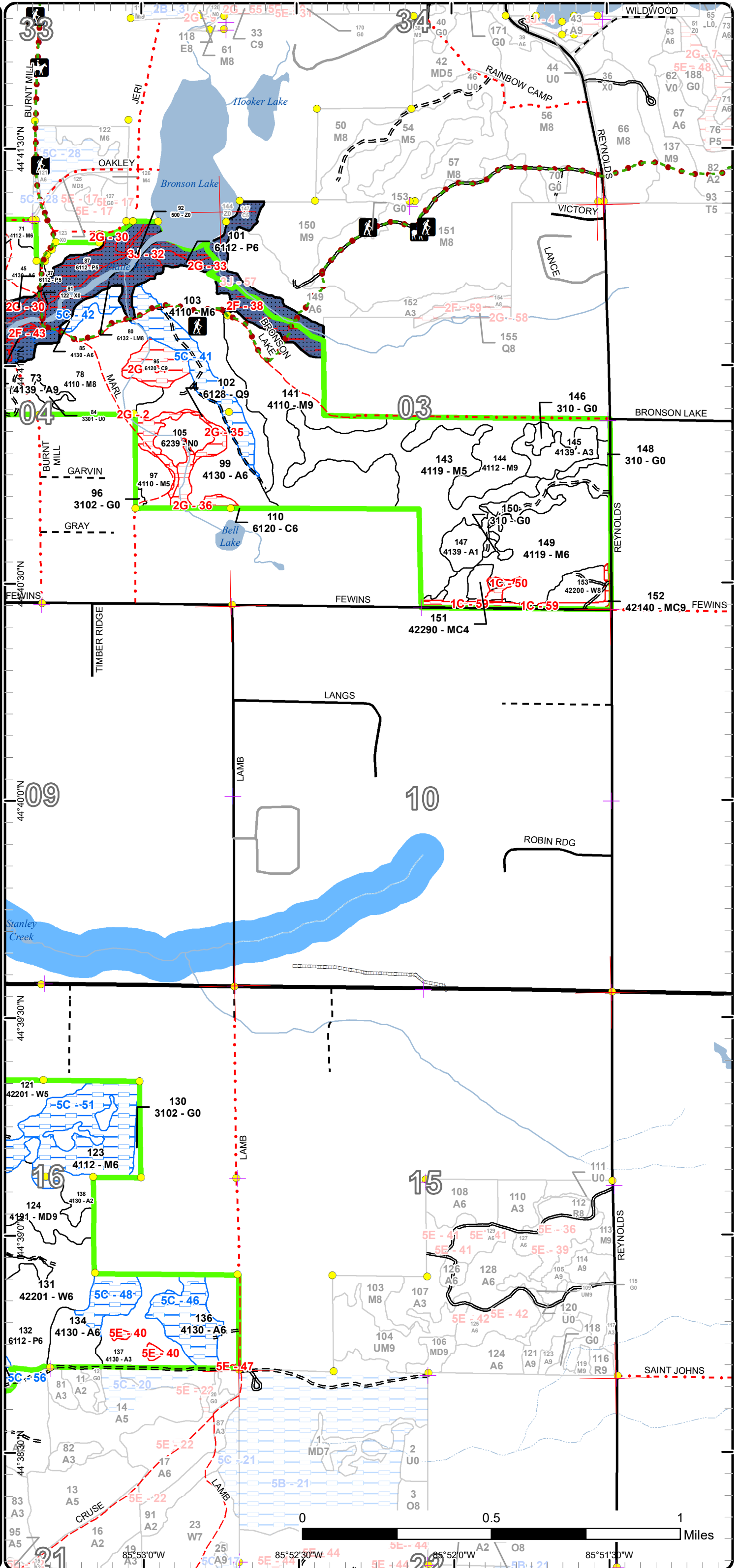


Special Conservation Areas

Compartment: 13
 T26N R13W
 Sections 3-8, 16-18
 County: Benzie
 Unit: Traverse City
 Mgmt Area: Benzie Outwash
 YOE: 2022
 Acres: 2,884.5 GIS Calculated
 Examiner: Tim Webb
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- Miris Corners
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- Private - Paved Road
- Private - Dirt / Gravel Road
- Hiking Trails
- Horse Trails
- Designated Hiking Trails
- Designated Equestrian Trails
- Intermittent Stream
- Lake/Pond
- Perennial River
- Lakes and Rivers
- Pipeline
- Compartment Boundary
- Available w/ Constraints
- Unavailable
- 5C: Delay treatment for age/size class diversity or exceptional site quality
- 1C: Other dept or div proc/practices
- 2F: Too steep
- 2G: Too wet (sensitive soils, does not include access issues)
- 3J: Water quality / BMPs (stream, river, or lake)
- 5E: Long-Term Retention
- Stand Boundaries
- SCA
- Cold Water Streams
- Cold Water Lakes
- High Priority Trout Stream Buffer
- Spring or Seep



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+	Uneven-Aged	Total
Aspen	0	44	20	0	265	292	112	121	6	9	0	0	0	0	0	0	0	52	920
Cedar	0	0	0	0	0	0	0	0	0	0	0	15	0	14	10	0	6	0	45
Herbaceous Openland	52	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	52
Low-Density Trees	51	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	51
Lowland Aspen/Balsam Poplar	0	0	0	0	10	48	3	0	0	0	0	0	0	0	0	0	0	11	72
Lowland Conifers	0	0	0	0	0	0	0	0	0	0	41	89	0	0	0	0	0	18	147
Lowland Deciduous	0	0	0	0	0	0	24	0	3	0	0	0	0	0	0	0	0	0	27
Lowland Mixed Forest	0	0	0	0	0	0	0	56	0	23	0	0	0	0	0	0	0	33	112
Lowland Shrub	8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	8
Marsh	22	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	22
Mixed Upland Deciduous	0	0	0	0	0	28	0	0	0	0	0	0	0	0	0	0	0	66	94
Natural Mixed Pines	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	4	6
Northern Hardwood	0	0	0	0	17	45	0	0	0	48	285	63	263	77	0	0	0	91	889
Planted Mixed Pines	0	0	0	0	0	0	2	5	7	0	0	0	0	0	0	0	0	0	14
Red Pine	0	0	0	21	47	0	97	44	0	6	0	0	0	0	0	0	0	0	214
Upland Shrub	19	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	19
Upland Spruce/Fir	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
Urban	47	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	47
Water	16	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	16
White Pine	0	0	0	2	0	0	11	74	0	0	0	0	6	0	0	0	0	39	132
Total	215	44	20	24	339	415	249	300	16	86	326	167	269	91	10	0	6	314	2888



Report 2 – Treatment Summary

Traverse City Mgt. Unit
Year of Entry: 2022

Acres of Harvest

Compartment 13
Total Compartment Acres: 2,884

Commercial Harvest - 550
Harvests with Site Condition - 6
Next Step Harvest - 0
Habitat Cut - 3

Cover Type by Harvest Method

	Clearcut	Selection	Patch Clearcut	Seed Tree	Shelterwood	Thinning	Overstory Removal	Salvage	Other	Total Acres
Aspen	166	7	0	0	0	84	0	0		257
Mixed Upland Deciduous	0	66	0	0	0	0	0	0		66
Northern Hardwood	2	89	0	0	0	0	0	0		91
Planted Mixed Pines	0	0	0	0	4	0	0	0		4
Red Pine	41	0	0	0	101	0	0	0		142
Total	209	162	0	0	105	84	0	0		559

Proposed and Next Step Treatments by Method

	Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current	559	0	0	0	0	86	0	44		689
Next Step	0	41	41	0	41	451	0	28		601
Total	559	41	41	0	41	537	0	72		1290



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

Proposed Treatments:

12	61013012-Cut	4.0	4130 - Aspen	Sawtimber Medium	68		Harvest	Clearcut with Retention	4130 - Aspen	Even-Aged	No
<p><u>Prescription</u> Clearcut the south end of the stand east of the power line. Retain most or all of the hardwoods and pines.</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</u> aspen, mixed hardwoods</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 /2021</p>											
14	61013014-Cut	27.6	4110 - Sugar Maple Association	Sawtimber Well	93	81-110	Harvest	Single Tree Selection	4110 - Sugar Maple Association	Uneven- Aged	No
<p><u>Prescription</u> Mark for selection harvest, focusing on removal of low quality trees. Target residual BA about 80.</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</u> mixed hardwoods in regen gaps</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 /2021</p>											
17	61013017-Cut	6.7	4130 - Aspen	Sawtimber Well	61		Harvest	Group Selection	4116 - Mixed N. Hardwood - Aspen	Uneven- Aged	No
<p><u>Prescription</u> Mark for selection, removing most of the aspen and retaining most of the hardwoods and pine; higher retention along property line. Residual</p> <p><u>Specs:</u> BA range from 50-70. Create some regeneration holes where the stand is more solidly aspen.</p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> mixed hardwoods, aspen, and white 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 /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
18 61013018-Cut	39.7	42110 - Planted Red Pine	Poletimber Well	54	171-200	Harvest	Low Thinning	42110 - Planted Red Pine	Even-Aged	No
<p><u>Prescription</u> Thin to a residual BA of about 120. Focus removal on trees with poor form, forked tops, small diameters, etc.</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 /2021</p>										
20 61013020-Cut	6.1	42110 - Planted Red Pine	Poletimber Medium	54	111-140	Harvest	Clearcut	42110 - Planted Red Pine	Even-Aged	No
<p><u>Prescription</u> Clearcut and re-plant to red pine. No retention prescribed due to small size and need to re-plant. Include sale specifications to protect use, condition of snowmobile trail.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> SitePrep, Trenching; Pesticide, Skidder - Site Prep; Planting, Initial Plant; Monitoring, Artificial Regen(1yr); Monitoring, Artificial</p> <p><u>Treatments:</u> Regen(3yr)</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 /2021</p>										
23 61013023-Cut	24.8	4130 - Aspen	Poletimber Medium	46		Harvest	Clearcut with Retention	4130 - Aspen	Even-Aged	No
<p><u>Prescription</u> Clearcut to a 2" diameter limit. Retain about 5% in uncut fingers/strips running up and down the hill. Create some CWD during harvest.</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</u> aspen and mixed hardwoods</p> <p><u>Regen:</u></p> <p><u>Other</u> Gated road in south part of the treatment area leads to old radio tower in adjacent stand 39. Restore this road during sale operations to</p> <p><u>Comment:</u> facilitate equipment access for tower removal.</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
23 61013023-Cutx	30.3	4130 - Aspen	Poletimber Medium	46		Harvest	Overstory Removal	4139 - Aspen, Mixed Deciduous	Two-Aged	No
<p><u>Prescription</u> Cut all aspen and ironwood over 5" dbh; leave all other species. Protect maple, cherry and basswood of all sizes as much as possible during harvest. Remove ironwood saplings as necessary to facilitate harvest.</p> <p><u>Specs:</u></p> <p><u>Next Step</u></p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> aspen and mixed hardwoods in gaps</p> <p><u>Regen:</u></p> <p><u>Other</u> Goal is to release existing hardwoods and to allow mixed aspen/hardwood regeneration in gaps created by harvesting.</p> <p><u>Comment:</u> Gated road in south part of the treatment area leads to old radio tower in adjacent stand 39. Restore this road during sale operations to facilitate equipment access for tower removal.</p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2021</p>										
26 61013026-Cut	2.6	4130 - Aspen	Sawtimber Medium	61	Unspec ified	Harvest	Clearcut with Retention	4130 - Aspen	Even-Aged	No
<p><u>Prescription</u> Clearcut to a 2" diameter limit. Mark a few mixed species clumps for retention.</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</u> aspen</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 /2021</p>										
33 61013033-Cut	14.3	42110 - Planted Red Pine	Poletimber Well	39	141-170	Harvest	Systematic Thinning	42110 - Planted Red Pine	Even-Aged	No
<p><u>Prescription</u> Cut every 3rd row, including any cherry within the cut rows.</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 /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
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38	61013038-NF	13.2	3301 - Low Density Deciduous Trees	Nonstocked		Immature	NonForestMgt	Brush Cutting	3205 - Mixed Upland Shrub	No
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Prescription Selectively hand fell woody encroachment to maintain upland brush/grassland community. Leave scattered mast producing trees and shrubs and/or conifers for wildlife food and cover. Could plant site appropriate native shrubs and/or mast producing trees for wildlife food and cover. Fertilize plantings and protect with wire cages or tubex.

Next Step
Treatments:

Acceptable
Regen:

Other Retain healthy black cherry for mast production. May need to remove some black cherry to release other wildlife beneficial shrubs or trees.
Comment:

Site Condition

Proposed Start Date: 10/1 /2021

44	61013044-Cut	9.5	42110 - Planted Red Pine	Poletimber Well	61	111-140	Harvest	Clearcut with Retention	42110 - Planted Red Pine	Even-Aged	No
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Prescription Clearcut and replant to red pine. A retention strip along the southwest edge was left out of the prescribed sale boundary.
Specs:

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

Acceptable red pine
Regen:

Other
Comment:

Site Condition

Proposed Start Date: 10/1 /2021

45	61013045-Cut	38.0	4130 - Aspen	Poletimber Well	46		Harvest	Clearcut with Retention	4130 - Aspen	Even-Aged	No
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Prescription Clearcut to a 2" diameter limit. Retain any oaks and conifers, plus about 5% of the acreage in retention islands.
Specs:

Next Step Monitoring, Natural Regen (Re-Inventory)
Treatments:

Acceptable aspen with some hardwood sprouts
Regen:

Other
Comment:

Site Condition

Proposed Start Date: 10/1 /2021

48	61013048-Cut	7.0	42110 - Planted Red Pine	Sawtimber Well	66	141-170	Harvest	Low Thinning	42140 - Planted Mixed Pine	Even-Aged	No
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Prescription Mark for thinning down to a residual BA of about 120. Include sale specifications to protect use, condition of snowmobile trail (including seasonal restrictions).
Specs:

Next Step
Treatments:

Acceptable
Regen:

Other
Comment:

Site Condition

Proposed Start Date: 10/1 /2021



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Treatment ID	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
49	61013049-NF	3.3	3204 - Mast Producing Shrub	Nonstocked		Immature	NonForestMgt	Brush Cutting	3205 - Mixed Upland Shrub		No
<p><u>Prescription</u> Selectively hand fell woody encroachment to maintain upland brush/grassland community. Leave scattered mast producing trees and shrubs and/or conifers for wildlife food and cover. Could plant site appropriate native shrubs and/or mast producing trees for wildlife food and cover. Fertilize plantings and protect with wire cages or tubex.</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> Remove all scotch pine and some red maple and white pine.</p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2021</p>											
51	61013051-Cut	7.9	42110 - Planted Red Pine	Sawtimber Well	66	141-170	Harvest	Low Thinning	42110 - Planted Red Pine	Even-Aged	No
<p><u>Prescription</u> Mark for thinning down to a residual BA of about 120.</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>											
60	61013060-Cut	10.5	4130 - Aspen	Sawtimber Well	59		Harvest	Clearcut with Retention	4133 - Aspen, Mixed Pine	Even-Aged	No
<p><u>Prescription</u> Clearcut to a 2" diameter limit. Retain white pine and some or all of the maple. Create some CWD during harvest. Include sale specifications to protect use, condition of snowmobile trail (including seasonal restrictions).</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> aspen and white pine</p> <p><u>Other Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2021</p>											
68	61013068-Cut	3.3	4130 - Aspen	Sawtimber Medium	67		Harvest	Clearcut with Retention	4130 - Aspen	Even-Aged	Yes
<p><u>Prescription</u> Hand fell some of the deciduous component (aspen, maple, etc) in an effort to produce horizontal cover in the form of coarse woody debris, promote vertical cover in the form of regenerating deciduous species, and produce woody browse that will be available to a variety of herbivores during winter.</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> Any mixed deciduous regeneration is acceptable as this is a non-commercial cut for wildlife habitat.</p> <p><u>Other Comment:</u> Plant site appropriate native shrubs and/or mast producing trees for wildlife food and cover. May want to fertilize plantings and protect with wire cages or tubex.</p> <p><u>Site Condition</u> Blocked by Obstacle</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
71 61013071-Cut	34.8	4112 - Maple, Beech, Cherry Association	Poletimber Well	110	81-110	Harvest	Single Tree Selection	4110 - Sugar Maple Association	Uneven-Aged	No
<p><u>Prescription</u> Mark for selection harvest, residual BA 80-90. Focus on removing multi-stemmed trees, plus many of the over mature maple, but leave some for wildlife and legacy trees. Create some CWD during harvest.</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</u> mixed hardwoods and some white 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 /2021</p>										
75 61013075-Cut	11.7	4119 - Mixed Northern Hardwoods	Sawtimber Well	93	111-140	Harvest	Single Tree Selection	4119 - Mixed Northern Hardwoods	Uneven-Aged	No
<p><u>Prescription</u> Mark for selection harvest to a residual BA of about 90. Cut most of the aspen, beech, and ironwood. Include specs to protect use and condition of the snowmobile trail.</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</u> mixed hardwoods in regen gaps</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 /2021</p>										
83 61013083-Cut	13.8	4133 - Aspen, Mixed Pine	Sawtimber Well	88	111-140	Harvest	Overstory Removal	42201 - Natural White Pine, Mixed Deciduous	Uneven-Aged	No
<p><u>Prescription</u> Cut most of the aspen, thin other species as needed for spacing and operability. Protect advanced pine regeneration as possible. Include specs to protect use, condition of snowmobile trail.</p> <p><u>Specs:</u></p> <p><u>Next Step</u></p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> white pine, mixed hardwoods; some aspen ok in gaps</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 /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
91 61013091-Cut	32.2	42110 - Planted Red Pine	Poletimber Well	39	171-200	Harvest	Systematic Thinning	42110 - Planted Red Pine	Even-Aged	No
<p><u>Prescription</u> 3rd-row thin. If hardwoods need to be cut, leave them on the ground for CWD.</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 /2021</p>										
93 61013093-NF	27.6	3303 - Mixed Low Density Trees	Nonstocked		Immature	NonForestMgt	Herbaceous/Crop /Grass Planting	3105 - Mixed Upland Herbaceous		No
<p><u>Prescription</u> This opening is dominated by bracken fern due to lack of natural disturbances. Mechanically treat bracken to reduce its extent, plant to annual rye for several years and then convert to an appropriate perennial pasture mix (i.e. clover/alfalfa) or native mix if soils will allow. Periodic maintenance such as mowing, fertilization, reseeding, burning, and/or removal of woody encroachment.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> NonForestMgt, Other - Specify</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u></p> <p><u>Regen:</u></p> <p><u>Other</u> Could plant site appropriate native shrubs and/or mast producing trees for wildlife food and cover.</p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2021</p>										
99 61013099-Cut	24.4	4130 - Aspen	Poletimber Well	51	Unspecified	Harvest	Clearcut with Retention	4130 - Aspen	Even-Aged	No
<p><u>Prescription</u> Clearcut to a 2" diameter limit, retaining a 1/2 acre island in each lobe, plus some or all of the mature white pine and any other conifers.</p> <p><u>Specs:</u> Create some CWD during harvest.</p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> aspen, plus some hardwood sprouts and white pine seedlings</p> <p><u>Regen:</u></p> <p><u>Other</u> May require some roadwork (e.g. culvert repair at creek crossing on Bronson Lake Rd.), or create a new access or forwarding route to the northeast to connect with the road.</p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2021</p>										
114 61013114-Cut	12.4	4130 - Aspen	Sawtimber Well	61		Harvest	Clearcut with Retention	4133 - Aspen, Mixed Pine	Even-Aged	No
<p><u>Prescription</u> Clearcut to a 2" diameter limit. Stay back 100' from the creek. Retain several oaks and larger white pines, maybe some small retention islands.</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</u> aspen, white pine, mixed hardwoods</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 /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
115 61013115-Cut	14.8	4110 - Sugar Maple Association	Poletimber Well	91	111-140	Harvest	Single Tree Selection	4110 - Sugar Maple Association	Uneven-Aged	No
<p><u>Prescription</u> Mark for selection with a residual BA of about 90. Remove all Scotch pine.</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</u> mixed hardwoods in regen gaps</p> <p><u>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>										
122 61013122-Cut	39.7	4133 - Aspen, Mixed Pine	Sawtimber Well	60	111-140	Harvest	Overstory Removal	42201 - Natural White Pine, Mixed Deciduous	Uneven-Aged	No
<p><u>Prescription</u> Remove most of the aspen to favor white pine and red maple. Mark a few aspen to leave and mark other species to cut, retaining well-spaced, better quality pine, maple and cherry. Residual BA about 80-100.</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</u> white pine, mixed hardwoods, aspen</p> <p><u>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>										
124 61013124-Cut	66.1	4191 - Mixed Upland Deciduous with Conifer	Sawtimber Well	80	111-140	Harvest	Group Selection	4191 - Mixed Upland Deciduous with Conifer	Uneven-Aged	No
<p><u>Prescription</u> Mark some scattered aspen to retain, otherwise specify to cut all aspen. Mark other species within aspen clones to create regen gaps. Thin other species outside of aspen clones to improve overall spacing and quality. Overall residual BA to be about 90.</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</u> white pine, maple, cherry, oak,</p> <p><u>Regen:</u> plus aspen in gaps</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
134 61013134-Cut	10.9	4130 - Aspen	Poletimber Well	55		Harvest	Clearcut with Retention	4130 - Aspen	Even-Aged	No
<p><u>Prescription</u> Clearcut to a 2" diameter limit. Retain two or three patches totaling about one half acre. Leave all oak and some scattered mature white pine. Create some CWD during harvest.</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</u> aspen, white pine, red maple, oak, cherry</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 /2021</p>										
136 61013136-Cut	10.4	4130 - Aspen	Poletimber Well	55	Unspec ified	Harvest	Clearcut with Retention	4130 - Aspen	Even-Aged	No
<p><u>Prescription</u> Clearcut to a 2" diameter limit. Retain two or three patches totaling about one half acre. Leave some scattered mature oak and white pine. Create some CWD during harvest.</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</u> aspen, white pine, red maple, oak, cherry</p> <p><u>Regen:</u></p> <p><u>Other</u> One retention patch has already been excluded from the proposed sale area at the southeast corner of the stand.</p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2021</p>										
149 61013149-Cut	2.1	4119 - Mixed Northern Hardwoods	Poletimber Well	89	51-80	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	No
<p><u>Prescription</u> Clearcut to 2" dbh. Retain red pine, any oak, and some or all of the sugar maple.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Natural Regen (Intermediate)</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> aspen sprouts and pine seedlings</p> <p><u>Regen:</u></p> <p><u>Other</u></p> <p><u>Comment:</u></p> <p><u>Site Condition</u> Other Dept./Div. Processes</p> <p><u>Proposed Start Date:</u> 10/1 /2021</p>										
157 61013157-Cut	25.1	4130 - Aspen	Poletimber Well	46	Unspec ified	Harvest	Clearcut with Retention	4130 - Aspen	Even-Aged	No
<p><u>Prescription</u> Clearcut to a 2" diameter limit. Retain any hemlock and some or all of the mature pine. Some possible retention areas have been excluded from the proposed sale boundary, but these may be adjusted during field sale preparation.</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</u> Aspen, plus some mixed hardwood sprouts and pine seedlings.</p> <p><u>Regen:</u></p> <p><u>Other</u> The wet area along Bowers Rd. and the homestead site/black locust patch along Oakley Rd. have been excluded from the proposed sale area.</p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2021</p>										



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:

3	61013003-Cut	25.0	42110 - Planted Red Pine	Poletimber Medium	54	141-170	Harvest	Clearcut	42110 - Planted Red Pine	Even-Aged	No
<p><u>Prescription</u> Clearcut all trees, to be followed by site prep and planting. Specify chipping or a viable alternative. Include sale specifications to protect use, condition of snowmobile trail (including seasonal restrictions).</p> <p><u>Specs:</u></p> <p><u>Next Step</u> SitePrep, Trenching; Pesticide, Skidder - Site Prep; Planting, Initial Plant; Monitoring, Artificial Regen(1yr); Monitoring, Artificial</p> <p><u>Treatments:</u> Regen(3yr)</p> <p><u>Acceptable</u> planted 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 /2021</p>											
5	61013005-Monitor	13.4	4110 - Sugar Maple Association	Sawtimber Medium	109	81-110	Monitoring	Natural Regen (Re-Inventory)	4110 - Sugar Maple Association	Uneven-Aged	No
<p><u>Prescription</u> monitor for regeneration</p> <p><u>Specs:</u></p> <p><u>Next Step</u></p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> mixed northern hardwoods, aspen, and white pine/hemlock</p> <p><u>Regen:</u></p> <p><u>Other</u> Percent to Treat = 100%</p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2019</p>											
78	61013078-Monitor	52.8	4110 - Sugar Maple Association	Sawtimber Medium	114	81-110	Monitoring	Natural Regen (Re-Inventory)	4110 - Sugar Maple Association	Uneven-Aged	No
<p><u>Prescription</u></p> <p><u>Specs:</u></p> <p><u>Next Step</u></p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> Mixed hardwood saplings are desired in regeneration gaps, although beech and ironwood are expected to dominate initially.</p> <p><u>Regen:</u></p> <p><u>Other</u> Percent to Treat = 100%</p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /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
97 61013097-Monitor	7.7	4110 - Sugar Maple Association	Poletimber Medium	103	81-110	Monitoring	Natural Regen (Re-Inventory)	4110 - Sugar Maple Association	Uneven-Aged	No
<p><u>Prescription</u> <u>Specs:</u></p> <p><u>Next Step</u> <u>Treatments:</u></p> <p><u>Acceptable Regen:</u> Any mix of hardwood seedlings is desirable in gaps, although beech and ironwood are likely to dominate in the short term. Gaps will be few and small.</p> <p><u>Other Comment:</u> Percent to Treat = 100%</p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2019</p>										
103 61013103-Monitor	11.8	4110 - Sugar Maple Association	Poletimber Well	119	81-110	Monitoring	Natural Regen (Re-Inventory)	4110 - Sugar Maple Association	Uneven-Aged	No
<p><u>Prescription</u> <u>Specs:</u></p> <p><u>Next Step</u> <u>Treatments:</u></p> <p><u>Acceptable Regen:</u> Any mix of hardwood seedlings is desirable in gaps, although beech and ironwood are likely to dominate in the short term.</p> <p><u>Other Comment:</u> Percent to Treat = 100%</p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2019</p>										
152 61013152_Cut	3.7	42140 - Planted Mixed Pine	Sawtimber Well	72	201+	Harvest	Systematic Thinning	42140 - Planted Mixed Pine	Even-Aged	No
<p><u>Prescription</u> <u>Specs:</u> Cut out the middle row of this 5-row roadside planting, plus mark some additional trees in adjacent rows for removal. Slash will need to be placed on the side of the planting away from the roads.</p> <p><u>Next Step</u> <u>Treatments:</u></p> <p><u>Acceptable Regen:</u></p> <p><u>Other Comment:</u> This will be a small volume sale and may be difficult to sell. Stand is dense, but if it does not sell, just leave as is. It could be attached to a nearby aspen/hardwood sale if feasible.</p> <p><u>Site Condition</u> Other Dept./Div. Processes</p> <p><u>Proposed Start Date:</u> 10/1 /2021</p>										

Total Treatment 689.2
Acreage Proposed:

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Availability for Management

Total Acres	Acres Available	Acres With Condition	Acres Not Available
920	725	89	106

Dominant Site Conditions

	Total Acres	Acres Available	Acres With Condition	Acres Not Available	Dominant Site Conditions										
					2B	5C	1C	2F	2G	2H	3E	3G	3I	3J	5E
920	725	89	106	Aspen	27	62		65	2	6			1	28	4
44	1	0	44	Cedar					44						
52	52	0	0	Herbaceous Openland											
51	51	0	0	Low-Density Trees											
72	0	17	55	Lowland Aspen/Balsam Poplar		17			44			11			
148	0	0	148	Lowland Conifers					87					60	
27	3	0	24	Lowland Deciduous										24	
112	0	0	112	Lowland Mixed Forest					55					57	
8	8	0	0	Lowland Shrub											
22	22	0	0	Marsh					0						
95	95	0	0	Mixed Upland Deciduous											
5	3	0	2	Natural Mixed Pines			0				2				
889	691	116	82	Northern Hardwood	33	83	2	80	0						
14	10	0	4	Planted Mixed Pines			4								
214	212	0	2	Red Pine				2							
19	19	0	0	Upland Shrub											
1	1	0	0	Upland Spruce/Fir											
47	47	0	0	Urban											
16	16	0	0	Water											
131	124	5	2	White Pine		5	0	2							
2,884	2,077	228	580	Total Forested Acres	60	168	6	149	233	6	2	11	1	169	4
	72%	8%	20%	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)	14	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

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2	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	0	3J: Water quality / BMPs (stream, river, or lake)	Unspecified	Unspecified	Unspecified
Comments: stream runs through stand							
3	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	11	3J: Water quality / BMPs (stream, river, or lake)	Unspecified	Unspecified	Unspecified
Comments: Numerous springs, headwaters of Brundage Creek.							
4	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	23	2G: Too wet (sensitive soils, does not include access issues)	Unspecified	Unspecified	Unspecified
Comments: riparian area along Brundage Creek							
5	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	27	2G: Too wet (sensitive soils, does not include access issues)	Unspecified	Unspecified	Unspecified
Comments: riparian area along Kinney Creek							
6	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	23	2G: Too wet (sensitive soils, does not include access issues)	Unspecified	Unspecified	Unspecified
Comments: riparian area along Brundage Creek							
7	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	6	Unspecified	Unspecified	Unspecified	Unspecified
Comments: riparian area along Kinney & Brundage Creeks							

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8	Unavailable	2F: Too steep	7	2B: Unknown if access through adjacent landowner(s) is possible	Unspecified	Unspecified	Unspecified
Comments:							
9	Unavailable	2F: Too steep	6	3J: Water quality / BMPs (stream, river, or lake)	Unspecified	Unspecified	Unspecified
Comments: riparian to Brundage Creek							
10	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	15	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
11	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	10	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
12	Unavailable	2F: Too steep	22	3J: Water quality / BMPs (stream, river, or lake)	Unspecified	Unspecified	Unspecified
Comments: riparian to Brundage Creek							
13	Unavailable	2F: Too steep	21	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

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14	Unavailable	2F: Too steep	11	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
15	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	14	3H: Deer Wintering Area - habitat is incompatible with harvest at this time	2B: Unknown if access through adjacent landowner(s) is possible	Unspecified	Unspecified
Comments:							
16	Available	2B: Unknown if access through adjacent landowner(s) is possible	27	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
17	Available	2B: Unknown if access through adjacent landowner(s) is possible	24	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
18	Available	2B: Unknown if access through adjacent landowner(s) is possible	9	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
19	Unavailable	3E: Easement / lease, non-military (e.g.- Consumers Power red pine, etc)	2	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
Mic-Con facility lease; very small acreage along highway.							

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20	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	24	2G: Too wet (sensitive soils, does not include access issues)	3G: Other Influence zones - See comments	Unspecified	Unspecified
Comments: riparian zone along Brundage Creek, water source for hatchery							
21	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	10	2G: Too wet (sensitive soils, does not include access issues)	Unspecified	Unspecified	Unspecified
Comments: Along Platte River, adjacent to hatchery grounds.							
22	Unavailable	3G: Other Influence zones - See comments	11	5B: Maintain for regeneration purposes	Unspecified	Unspecified	Unspecified
Comments: Retain for aesthetics - between U.S. 31 and hatchery grounds. allow understory to take over eventually.							
23	Unavailable	2F: Too steep	25	3J: Water quality / BMPs (stream, river, or lake)	Unspecified	Unspecified	Unspecified
Comments: Platte River riparian zone							
24	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	5	Unspecified	Unspecified	Unspecified	Unspecified
Comments: riparian area along Platte River							
25	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	11	2F: Too steep	Unspecified	Unspecified	Unspecified
Comments: riparian area along Platte River							

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26	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	55	3J: Water quality / BMPs (stream, river, or lake)	Unspecified	Unspecified	Unspecified
Comments: Platte River riparian zone							
27	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	53	3J: Water quality / BMPs (stream, river, or lake)	Unspecified	Unspecified	Unspecified
Comments: Platte River riparian area							
28	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	6	2G: Too wet (sensitive soils, does not include access issues)	Unspecified	Unspecified	Unspecified
Comments: Platte River riparian area							
29	Unavailable	2F: Too steep	6	3J: Water quality / BMPs (stream, river, or lake)	Unspecified	Unspecified	Unspecified
Comments: Platte River riparian area							
30	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	29	3J: Water quality / BMPs (stream, river, or lake)	Unspecified	Unspecified	Unspecified
Comments: Platte River riparian area							
31	Unavailable	5E: Long-Term Retention	1	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

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32	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	33	2G: Too wet (sensitive soils, does not include access issues)	Unspecified	Unspecified	Unspecified
Comments: Platte River riparian area							
33	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	3	3J: Water quality / BMPs (stream, river, or lake)	Unspecified	Unspecified	Unspecified
Comments: Platte River riparian area							
34	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	10	3J: Water quality / BMPs (stream, river, or lake)	Unspecified	Unspecified	Unspecified
Comments: stream runs through stand							
35	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	8	3J: Water quality / BMPs (stream, river, or lake)	Unspecified	Unspecified	Unspecified
Comments: stream runs through stand							
36	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	5	3J: Water quality / BMPs (stream, river, or lake)	Unspecified	Unspecified	Unspecified
Comments: stream runs through stand							

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37	Unavailable	2F: Too steep	16	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	Unspecified	Unspecified	Unspecified
Comments: Overhead line + steep hillside + adjacent highway = inoperable							
38	Unavailable	2F: Too steep	10	3J: Water quality / BMPs (stream, river, or lake)	3D: Recreational / Scenic values	Unspecified	Unspecified
Comments: adjacent stream; horse trail through stand							
39	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	6	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
40	Unavailable	5E: Long-Term Retention	2	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
41	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	20	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
42	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	8	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

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43	Unavailable	2F: Too steep	17	3J: Water quality / BMPs (stream, river, or lake)	Unspecified	Unspecified	Unspecified
Comments: Platte River riparian area							
44	Unavailable	(Inactive)3I: Historical / archeological (add locked comments)	1	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
45	Unavailable	5E: Long-Term Retention	1	3J: Water quality / BMPs (stream, river, or lake)	Unspecified	Unspecified	Unspecified
Comments: seasonal flowage through this area							
46	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	18	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
47	Unavailable	5E: Long-Term Retention	0	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
48	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	10	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

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49	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	6	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
50	Unavailable	1C: Other dept or div proc/practices	2	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
51	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	74	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
52	Unavailable	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	6	Unspecified	Unspecified	Unspecified	Unspecified
Comments: This stand is surrounded by wetland types. There is a possible approach from U.S. 31, but it is blocked by a steel roadside barricade.							
53	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	10	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
54	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	2	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

Traverse City Mgt. Unit

Tim Webb : Examiner

Compartment: 13

Year of Entry: 2022

55	Unavailable	2F: Too steep	6	2G: Too wet (sensitive soils, does not include access issues)	3G: Other Influence zones - See comments	Unspecified	Unspecified
Comments: Stand is inoperable due to wet soils, slopes, and proximity to the highway.							
56	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	17	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
57	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	4	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
58	Unavailable	2F: Too steep	2				
Comments:							
59	Unavailable	1C: Other dept or div proc/practices	4	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							



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
Comments	Spring Wetlands Riparian Area	Riparian Area	Error	5
Comments	Spring Wetlands Riparian Area	Riparian Area	Error	13
Comments	Spring Wetlands Riparian Area	Riparian Area	Error	17
Unspecified Comments	Spring Wetlands Riparian Area	Spring Seep	SCA	16
Unspecified Comments	Spring Wetlands Riparian Area	Spring Seep	SCA	33
Unspecified Comments	Spring Wetlands Riparian Area	Spring Seep	SCA	66
Unspecified Comments	Spring Wetlands Riparian Area	Spring Seep	SCA	458



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 Lake	A coldwater lake has temperature and dissolved oxygen conditions that allow naturally-reproduced or stocked trout populations and those of other coldwater fish species to persist from year to year. Suitable conditions for coldwater fishes may occur in Michigan lakes if they are relatively deep, have substantial groundwater inflows, or are located in colder (northern) areas of the state. Such lakes are established by Director's action and designated as trout resources by Fisheries Order 200.
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	3102 - Grass	Nonstocked	1.9			No																																																		
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2	3303 - Mixed Low Density Trees	Nonstocked	1.7		Unspecified	No																																																		
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3	42110 - Planted Red Pine	Poletimber Medium	50.7	54	141-170	N/A	Snowmobile trail runs through the stand. 2010 SI trees: 7.3" 49', 7.9" 49', 8.5" 48', 7.6" 48'. 3rd-row thinned in 2014. 2019 BAs: 150, 140, 190, 140, 140, 120; mean 147. Mortality pocket in NW part of main stand. Scattered black cherry.																																																	
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4	42210 - Natural Red Pine	Sapling Poor	6.1	24	1-50	N/A	Red pine volunteers filling in an open area surrounding a red pine plantation. Cherry poles and scattered apple, hawthorn, and juneberry.																																																	
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5	4110 - Sugar Maple Association	Sawtimber Medium	13.5	109	81-110	N/A	Thinned summer 2018.																																																	
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8	6132 - Mixed Lowland Forest with Cedar	Sawtimber Medium	55.8	66	111-140	N/A	Stand is in the Platte River floodplain, very hummocky. Some springs /feeder streams in stand. Stand has some open areas, some very dense areas. Good deer winter cover, but little browse. Mixed fruiting shrubs were planted in 1968-69. Narrow upland areas along the highway with bigtooth aspen.																																																															
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10	122 - Road/Parking Lot	Nonstocked	6.6			No	Maple City Hwy. (Co. Rd. 669) & Fewins Rd.																																																															
11	3102 - Grass	Nonstocked	3.9		Immature	No	Riparian area. Snowmobile trail runs through stand.																																																															
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12	4130 - Aspen	Sawtimber Medium	20.0	68		N/A	Powerline R.O.W. runs through most of the stand. Much of the stand is on a steep hillside adjacent to a major county road, so is effectively inoperable. Small area at south end of stand may be operable if combined with a cut in adjacent hardwood stand. Some smaller, probably younger aspen clones in places. Shrubs include witch hazel, juneberry, and hawthorn.				
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size	
Sugar Maple		10	Pole/Log	9		Ironwood		Medium	Variable	Sapling	
Red Maple		5	Log/Pole	10		Deciduous Shrubs		Medium	Variable	Tall Shrub	
Basswood		3	Log/Pole	12		Deciduous Saplings		Low	Variable	Sapling	
Quaking Aspen		6	Pole/Log	9							
Bigtooth Aspen		65	Log/Pole	11	68						
White Pine		6	Log/Pole/XLog	15							
Black Cherry		5	Pole/Log	8							
13	3102 - Grass	Nonstocked	1.0		Immature	No					
Sub-Canopy Species		Density	Avg. Height	Size							
American Elm		Trace	>20 feet	Pole							
Hawthorn (spp.)		Trace	5 - 10 feet	Tall Shrub							
Ironwood		Low	< 5 feet	Seeding							
Black Cherry		Trace	>20 feet	Pole							
14	4110 - Sugar Maple Association	Sawtimber Well	27.6	93	81-110	N/A	Generally poor quality timber. Stand has scattered cherry, red maple and beech, and some natural regeneration patches. Aspen is in a couple patches. 2020 BAs: 100, 140, 130, 70, 90; mean 106.				
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size	
Sugar Maple		94	Log/Pole	10	93	Sugar Maple		Low	Variable	Sapling	
Basswood		2	Log	14		Ironwood		Low	>20 feet	Pole	
Bigtooth Aspen		2	Pole/Log	9		Ironwood		High	Variable	Sapling	
Ironwood		2	Pole	6		Leatherwood		Trace	< 5 feet	Tall Shrub	
						Black Cherry		Low	< 5 feet	Seeding	
15	4130 - Aspen	Sawtimber Well	6.4	78		N/A		Stand is in the Platte River floodplain, has high water table. Mature aspen succeeding to hardwoods. Riparian area.			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species			Density	Avg. Height	Size
Sugar Maple		8	Pole/Log	8		Sugar Maple			Medium	Variable	Sapling
Red Maple		7	Pole/Log	8		White Ash	Low		Variable	Sapling	
Quaking Aspen		5	Log	14		Hemlock	Low		Variable	Pole	
Bigtooth Aspen		80	Log/Pole	12	78	Ironwood	Low		Variable	Sapling	
						Black Cherry	Low		Variable	Sapling	
16	3102 - Grass	Nonstocked	6.8			No	Hawthorn, apple, juneberry scattered throughout stand.				
Sub-Canopy Species		Density	Avg. Height	Size							
Mixed Fruiting Shrubs		Trace		Non-Wood							
Black Cherry		Low	>20 feet	Pole							
Red Pine		Trace	Variable	Sapling							
White Pine		Trace	Variable	Sapling							
Scotch Pine		Trace	Variable	Sapling							
Autumn Olive		Low	5 - 10 feet	Tall Shrub							



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																									
17	4130 - Aspen	Sawtimber Well	7.7	61		N/A	Riparian area along Platte River. Cedar and a few hemlocks concentrated along river bank. Some phelinus in aspen. Will succeed to hardwoods if left uncut.																																									
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18	42110 - Planted Red Pine	Poletimber Well	39.7	54	171-200	N/A	Understory of north block is filled in with saplings and autumn olive; south block also has a fair amount of hardwood regeneration, especially on west side. There is a pocket of stressed trees toward the south end, visible on imagery. 2020 BA about 180.																																									
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19	3103 - Rubus-Fern	Nonstocked	2.2			No																																										
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20	42110 - Planted Red Pine	Poletimber Medium	6.1	54	111-140	N/A	2010 SI trees: 8.7" 51', 9.4" 55'. Fairly high number of trees with double stems, crook, sweep. 3rd-row thinning in summer 2014. 2020 BA about 130.																																									
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21	42201 - Natural White Pine, Mixed Deciduous	Poletimber Poor	1.9	22	51-80	N/A	Old opening filled in with bushy open-grown white pine under black cherry poles. Hawthorn, juneberry, honeysuckle. A few jack pine and aspen poles on the edge.																																									
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments			
22	3301 - Low Density Deciduous Trees	Nonstocked	2.9		Unspecified	No	Some autumn olive. 2009 comments: Scattered black cherry and juneberry. Some hawthorn. Scattered white pine saps. Cladonia, SJW, SKW, some strawberry, grass. Mostly degraded. Would make nice location for food plot. Could maybe expand a little into adjacent M2 stand 34 without cutting anything in 34.			
				Sub-Canopy Species		Density		Avg. Height	Size	
				Mixed Fruiting Shrubs		Low		Unspecified	Non-Wood	
				Black Cherry		Low		>20 feet	Pole	
				Red Maple		Trace		Variable	Sapling	
				Ironwood		Low		Variable	Sapling	
				White Pine		Trace		10 - 20 feet	Pole	
				Black Cherry		Low		Variable	Sapling	
				Sugar Maple		Trace		Variable	Sapling	
23	4130 - Aspen	Poletimber Medium	98.7	46		N/A	Stand has juneberry, hawthorn in understory. Scattered basswood, elm and white pine.			
				Canopy Species		% Cover		Size Class	DBH	Age
				Sugar Maple		10		Pole/Sap/Log	7	
				Quaking Aspen		45		Pole/Log	8	46
				Bigtooth Aspen		30		Pole/Log	8	46
				Black Cherry		10		Pole/Sapling	7	46
				Ironwood		5		Pole/Sapling	5	
				Sub-Canopy Species		Density	Avg. Height	Size		
				Sugar Maple		High	Variable	Sapling		
				Black Cherry		Medium	Variable	Sapling		
				Ironwood		High	Variable	Sapling		
				Deciduous Shrubs		Low	5 - 10 feet	Tall Shrub		
24	3102 - Grass	Nonstocked	1.9			No				
				Sub-Canopy Species		Density		Avg. Height	Size	
				Bigtooth Aspen		Trace		>20 feet	Pole	
				White Pine		Low		10 - 20 feet	Pole	
				Black Cherry		Low		>20 feet	Pole	
				Jack Pine		Low		>20 feet	Pole	
				Hawthorn (spp.)		Trace		5 - 10 feet	Tall Shrub	
				Black Locust		Trace		5 - 10 feet	Sapling	
				Autumn Olive		Trace		5 - 10 feet	Tall Shrub	
				American Elm		Trace		10 - 20 feet	Pole	
				Honeysuckle (spp.)		Trace		< 5 feet	Tall Shrub	
25	42140 - Planted Mixed Pine	Sawtimber Medium	4.9	66	111-140	N/A	Rows of planted pines along either side of Bowers Road. 2010 SI trees: RP 12.8" 81', WP 10.6" 80'. Thinned summer 2014.			
				Canopy Species		% Cover		Size Class	DBH	Age
				Quaking Aspen		3		Log/Pole	13	
				White Pine		40		Log	14	66
				Red Pine		57		Log	14	66
				Sub-Canopy Species		Density	Avg. Height	Size		
				Sugar Maple		Low	Variable	Sapling		
				Sugar Maple		Trace	>20 feet	Pole		
				White Pine		Trace	>20 feet	Pole		



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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26	4130 - Aspen	Sawtimber Medium	13.4	61	Unspecified	N/A	Riparian area along Platte River; some low, wet areas. Scattered shrubs: juneberry, witch hazel, hawthorn. Small numbers of white pine, elm, Scotch pine, and balsam poplar. Cedar is concentrated along the river bank. Stand is succeeding to hardwoods.
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Sugar Maple	3	Log/Pole	12		White Ash	Low	Variable	Sapling
Red Maple	5	Log/Pole	10		Black Cherry	Low	Variable	Sapling
Quaking Aspen	45	Log/Pole	10	61	Deciduous Shrubs	Medium	5 - 10 feet	Tall Shrub
Bigtooth Aspen	42	Log/Pole	11	61	Sugar Maple	Low	Variable	Sapling
Northern White Cedar	2	Pole/Log	8		Tag Alder	Low	5 - 10 feet	Tall Shrub
Black Cherry	3	Pole/Log	8		Willow spp.	Trace	5 - 10 feet	Tall Shrub

27	4110 - Sugar Maple Association	Sawtimber Well	24.8	91	111-140	N/A	Steep hillside along Platte River.
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Sugar Maple	70	Log/Pole	10	91	Sugar Maple	Low	>20 feet	Sapling
Basswood	23	Log/Pole	12		Hemlock	Low	Variable	Pole
Bigtooth Aspen	2	Log	12		Ironwood	Medium	Variable	Sapling
Black Cherry	5	Log/Pole	10					

28	6128 - Lowland Coniferous, Mixed Deciduous	Poletimber Medium	40.5	97		N/A	Stand is in the floodplain of the Platte River, with numerous seeps and springs emerging from the base of the adjacent bluff and flowing into the river. Deer winter cover. Super canopy white pines. Numerous standing dead trees in places, probably from past flooding. Lots of blowdown along river banks. Small numbers of paper birch, black cherry, and tamarack. Fair amount of hawthorn, other shrubs.
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Sugar Maple	5	Pole/Log	8		Northern White Cedar	Low	Variable	Pole
Yellow Birch	6	Pole/Log	8		Deciduous Saplings	Low	Variable	Sapling
Quaking Aspen	6	Log/Pole	12		Deciduous Shrubs	Low	< 5 feet	Tall Shrub
Bigtooth Aspen	4	Log/Pole	12					
Northern White Cedar	44	Pole/Log	8	97				
White Pine	7	XLog/Log	18					
Hemlock	25	Pole/Log	9					
Black Willow	2	Log	14					

29	4110 - Sugar Maple Association	Sawtimber Well	111.6	112	81-110	N/A	2010 comments: Most of the stand was thinned in 2005; east arm had a timber trespass prior to that. East arm has fairly thick, heavily browsed seedling layer of ash, ironwood, beech, and cherry. Remainder of stand also has some hardwood regeneration, but shorter and less dense at this time. Small numbers of beech, yellow birch, and hemlock, mostly on the slope. 2020: BA about 100. Good quality timber.
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Sugar Maple	90	Log/Pole	10	112	Sugar Maple	Low	>20 feet	Sapling
Basswood	2	Log/Pole	13		Hemlock	Trace	Variable	Pole
Hemlock	2	Log	14		Hemlock	Trace	Variable	Sapling
Black Cherry	4	Log	14		Ironwood	High	Variable	Sapling
Red Maple	2	Log	14		White Ash	Low	Variable	Sapling
					Black Cherry	Low	Variable	Sapling



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
30	4130 - Aspen	Sawtimber Medium	5.0	61	Unspecified	N/A	Riparian area along Platte River; some low, wet areas. Cedar and hemlock are concentrated along the river bank, with a few yellow birch. Succeeding to hardwoods.
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
Sugar Maple		5	Pole/Log	8		White Ash	
Red Maple		15	Log/Pole	10		Black Cherry	
Quaking Aspen		20	Pole/Log	9		Ironwood	
Bigtooth Aspen		47	Log/Pole	10	61	Deciduous Shrubs	
Northern White Cedar		5	Pole/Log	9		Sugar Maple	
White Pine		5	XLog/Log	18			
Hemlock		3	Log/Pole	12			
31	4115 - Y.Birch, Hemlock NH	Sawtimber Well	6.3	112	111-140	N/A	Stand is on the steep north-facing bluff on the south side of the Platte River. Stand appears to have some old growth characteristics.
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
Sugar Maple		20	Log/Pole	12		Hemlock	
Red Maple		20	Log	16		Hemlock	
Yellow Birch		20	Log/Pole/XLog	14			
Beech		15	XLog/Log	20	112		
Hemlock		25	Log/XLog/Pole	14	112		
32	3303 - Mixed Low Density Trees	Nonstocked	1.7			No	Narrow opening along property line, open field to north on private property. Filling in with red pine volunteers.
Sub-Canopy Species		Density	Avg. Height	Size			
Black Cherry		Low	>20 feet	Pole			
Scotch Pine		Trace	Variable	Sapling			
Red Pine		Medium	Variable	Sapling			
33	42110 - Planted Red Pine	Poletimber Well	14.3	39	141-170	N/A	2020 BA about 170. Consider for a third-row thinning.
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
Red Pine		92	Pole	7	39	Black Cherry	
Black Cherry		8	Pole/Log	9		Honeysuckle (spp.)	
34	4116 - Mixed N. Hardwood - Aspen	Poletimber Medium	45.1	44	1-50	N/A	Hawthorn, autumn olive, and juneberry in understory. Scattered white pine, hemlock, oak. Stand resulted from aspen regeneration cuts, but this area is dominated by mixed hardwoods, mostly stump-sprout origin.
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
Sugar Maple		35	Pole/Sapling	5	44	Sugar Maple	
Red Maple		5	Pole/Sapling	6		Ironwood	
Basswood		5	Pole	7	44	Mixed Fruiting Shrubs	
Bigtooth Aspen		15	Pole	7	44		
Black Cherry		15	Pole/Sapling	6	44		
Ironwood		15	Sapling/Pole	3			
Quaking Aspen		10	Pole	7	44		
35	500 - Water	Nonstocked	5.8		Unspecified	Managed Opening	Platte River State Fish Hatchery settling pond



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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36	42110 - Planted Red Pine	Poletimber Well	19.4	61	141-170	N/A	2010 BAs: 130, 190, 160, 150, 150, 170, 180, 190, 200. SI trees: 8.7" 63', 7.8" 55', 8.6" 59'. Row-thinned in 2004; marked thinning spring 2013. New BAs: 112 RP, 8 WP, total 120. 2020 BA about 140.			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size
White Pine		5	Log/Pole	10	61	White Pine		Low	< 5 feet	Seeding
Red Pine		95	Pole/Log	9	61	Beech		Trace	5 - 10 feet	Sapling

37	6112 - Lowland Aspen	Poletimber Medium	19.1	46		N/A	Numerous seeps and springs feeding into the Platte River.			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size
American Elm		1	Pole	5		Black Cherry		Medium	Variable	Sapling
Northern White Cedar		1	Pole/Log	8		Deciduous Shrubs		Low	5 - 10 feet	Tall Shrub
White Pine		5	Pole/Sap/Log	7		Black Ash		Low	Variable	Sapling
Quaking Aspen		93	Pole	7	46	Sugar Maple		Low	>20 feet	Sapling
						Sugar Maple		Trace	>20 feet	Pole

38	3301 - Low Density Deciduous Trees	Nonstocked	13.4		Immature	No	Some Austrian pine in east lobe of stand. East lobe is filling in with pine.
Sub-Canopy Species		Density	Avg. Height	Size			
Honeysuckle (spp.)		Medium	5 - 10 feet	Tall Shrub			
Red Pine		Low	Variable	Sapling			
Red Oak		Trace	>20 feet	Sapling			
Hawthorn (spp.)		Trace	5 - 10 feet	Tall Shrub			
Black Cherry		Medium	>20 feet	Pole			
Black Cherry		Low	>20 feet	Log			
Black Cherry		Trace	Variable	Sapling			
White Pine		Trace	Variable	Sapling			
Witch Hazel		Trace	5 - 10 feet	Tall Shrub			

39	4130 - Aspen	Sawtimber Medium	11.0	61	Unspecified	N/A	Riparian area on bluff, floodplain along Platte River. Gated road leads to a radio tower in NE end of the stand.			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size
Sugar Maple		2	Pole/Log	9		Black Cherry		Low	5 - 10 feet	Sapling
Red Maple		4	Log/Pole	11		Red Maple		Low	Variable	Sapling
Basswood		4	Log/Pole	11		Hawthorn (spp.)		Low	5 - 10 feet	Tall Shrub
Bigtooth Aspen		88	Log/Pole	11	61	Ironwood		Low	Variable	Sapling
Ironwood		1	Pole	6		Sugar Maple		Low	Variable	Sapling
Paper Birch		1	Pole	9						



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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40 6128 - Lowland Coniferous, Mixed Deciduous Sawtimber Poor 10.4 58 Unspecified N/A Stand is in the Platte River and Stanley Creek flood plain. A driveway and hatchery residence is within the stand.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
American Elm	2	Pole	8		Balsam Poplar	Low	Variable	Sapling
Quaking Aspen	3	Pole	8		Northern White Cedar	Medium	Variable	Sapling
Balsam Poplar	35	Pole/Log/Sap	8	58	Autumn Olive	Low	5 - 10 feet	Tall Shrub
Northern White Cedar	20	Log/Pole	12		Honeysuckle (spp.)	Low	5 - 10 feet	Tall Shrub
White Pine	15	Log/Pole	13		Willow spp.	Trace	5 - 10 feet	Tall Shrub
Red Pine	25	Log	14		Tag Alder	Trace	5 - 10 feet	Tall Shrub
					Juniper	Trace	< 5 feet	Tall Shrub
					White Pine	Low	< 5 feet	Sapling
					Red Pine	Low	< 5 feet	Sapling

41 500 - Water Nonstocked 6.5 No Platte River

42 42110 - Planted Red Pine Poletimber Medium 15.4 26 51-80 N/A Small patch of white & Norway spruce in SW corner. Slowly closing in.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
White Oak	2	Sapling	4		Black Cherry	Medium	Variable	Sapling
Red Pine	88	Pole/Sapling	5	26				
Black Cherry	10	Pole/Sapling	5					

43 320 - Upland Shrub Nonstocked 15.8 Immature No "Cottonwood" listed may be some sort of planted hybrid.

Sub-Canopy Species	Density	Avg. Height	Size
Red Pine	Low	Variable	Sapling
Balsam Poplar	Low	Variable	Sapling
Common Or Ground Juniper	Trace	< 5 feet	Tall Shrub
Quaking Aspen	Trace	>20 feet	Pole
White Spruce	Trace	>20 feet	Pole
Black Cherry	Low	>20 feet	Pole
Willow spp.	Low	5 - 10 feet	Tall Shrub
Cottonwood	Low	>20 feet	Log
Autumn Olive	Trace	5 - 10 feet	Tall Shrub
Honeysuckle (spp.)	Low	5 - 10 feet	Tall Shrub
Mixed Fruiting Shrubs	Trace	Unspecified	Non-Wood

44 42110 - Planted Red Pine Poletimber Well 9.2 61 111-140 N/A Scattered black cherry poles. Row-thinned in 2004. 2010 SI trees: 7.6" 61', 8.8" 61', 7.6". Marked thinning completed spring 2013, residual BA 124. 2020 BA about 140.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Pine	100	Pole/Log	8	61	White Pine	Low	< 5 feet	Seeding
					Beech	Low	< 5 feet	Seeding



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																														
45	4130 - Aspen	Poletimber Well	145.4	46		N/A	Stand is made up of several blocks of aspen resulting from regeneration cuts between 1983 and 1975. Stand has small amounts of basswood, red oak, elm, cedar and hemlock. There are a few walnut and black locust trees at the far west end. Hilly in places.																																																														
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46	122 - Road/Parking Lot	Nonstocked	5.2		Unspecified	No	County Rd. 669 & U.S. 31																																																														
47	42100 - Planted White Pine	Sawtimber Medium	7.3	57	81-110	N/A	Scattered black cherry.																																																														
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48	42110 - Planted Red Pine	Sawtimber Well	7.0	66	141-170	N/A	2010 SI trees: RP: 8.0" 62', 10.3" 71'; WP: 12.7" 71'. Snowmobile trail runs along the east edge of the stand. Narrow strip of deciduous trees along east edge. Marked thinning completed spring 2013, residual BA: 60 WP + 80 RP = 140. 2020 BA about 170. Filling in heavily with white pine.																																																														
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49	3204 - Mast Producing Shrub	Nonstocked	3.3		Immature	No	Filling in with trees; will likely get retyped as forested next entry period.																																																														
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51	42110 - Planted Red Pine	Sawtimber Well	7.9	66	141-170	N/A	2010 SI trees: 9.1" 73', 10.3" 73'. Marked thinning completed spring 2013, residual BA = 150. 2020 BA about 160.																																																						
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52	6220 - Alder/willow	Nonstocked	2.4			No																																																							
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54	42260 - Natural Pine, Mixed Deciduous	Sawtimber Well	1.5	45	81-110	N/A	Mich-Con gas facility within stand.																																																						
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55	6118 - Lowland Deciduous with Cedar	Poletimber Poor	23.7	55	51-80	N/A	Riparian area along creek.																																																						
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
56	4199 - Other Mixed Upland Deciduous	Poletimber Well	28.4	46	51-80	N/A	Snowmobile trail crosses stand. Some mortality in elm. Shrubs include witch hazel, hawthorn, honeysuckle.
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
Sugar Maple		34	Pole/Sap/Log	6	46	Ironwood	
American Elm		10	Pole/Sapling	6	46	Full	
Quaking Aspen		20	Pole	7	46	Variable	
Black Cherry		10	Pole/Sapling	6	46	Sapling	
Ironwood		25	Sapling/Pole	4		5 - 10 feet	
Basswood		1	Log/Pole	10		Tall Shrub	
57	4130 - Aspen	Poletimber Well	13.3	46	Unspecified	N/A	
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
Red Maple		3	Pole/Sapling	5		White Pine	
Bigtooth Aspen		90	Pole	7	46	Low	
Black Cherry		2	Pole	7		>20 feet	
Quaking Aspen		4	Pole	7		Variable	
White Pine		1	Log/Pole	10		Sapling	
						Sapling	
						Sapling	
						Sapling	
						Sapling	
						Sapling	
						Sapling	
59	4130 - Aspen	Poletimber Medium	6.2	47	Unspecified	N/A	Narrow stand between base of hill and U.S. 31. Scattered jack and Scotch pines. East end grades into lowland. Quite different east and west, but not practical to split into two stands.
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
Sugar Maple		2	Pole/Log	8		Deciduous Saplings	
White Pine		3	Pole/Log	9		Low	
Quaking Aspen		70	Pole/Log	9	47	Variable	
Bigtooth Aspen		10	Pole/Log	8		Sapling	
Red Pine		2	Log/Pole	13		Sapling	
Black Cherry		3	Pole	8		Sapling	
Red Maple		10	Log/Pole	11		Sapling	
						Sapling	
60	4130 - Aspen	Sawtimber Well	10.5	59		N/A	Stand parallels Brundage Creek valley and U.S. 31. Snowmobile trail crosses stand. Shrubs include hawthorn, juneberry, honeysuckle and witch hazel.
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
Red Maple		5	Log	12		Red Maple	
Quaking Aspen		8	Pole/Log	9		Low	
Bigtooth Aspen		75	Log/Pole	10	59	Variable	
White Pine		8	Log	14		Sapling	
Black Cherry		3	Pole/Log	9		Sapling	
Sugar Maple		1	Log	12		5 - 10 feet	
						Tall Shrub	
						Sapling	
61	3102 - Grass	Nonstocked	3.5			No	cleared R.O.W. of U.S. 31
62	122 - Road/Parking Lot	Nonstocked	5.1			No	U.S. Hwy. 31



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
63	42310 - Planted Spruce	Poletimber Medium	1.1	28	Immature	N/A	Spruce were originally planted as transplant stock for campgrounds.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Sugar Maple	5	Pole	8		White Pine	Low	Variable	Sapling
White Spruce	80	Pole/Sapling	5	28	Honeysuckle (spp.)	Low	< 5 feet	Tall Shrub
Black Cherry	10	Pole	8					
Norway Spruce	5	Pole	7					

64	4119 - Mixed Northern Hardwoods	Poletimber Medium	28.6	39	1-50	N/A	Scattered hawthorn. Quite open/shrubby along north edge.
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Sugar Maple	55	Pole/Log/Sap	6	39	Sugar Maple	High	Variable	Sapling
American Elm	4	Pole/Log	8		Black Cherry	Low	Variable	Sapling
Basswood	2	Log	14		Ironwood	High	Variable	Sapling
Quaking Aspen	10	Pole	8		Honeysuckle (spp.)	Low	5 - 10 feet	Tall Shrub
Black Cherry	8	Pole	6		Witch Hazel	Trace	10 - 20 feet	Tall Shrub
Ironwood	20	Pole/Sapling	5					
Rock Elm	1	Pole	7					

65	4119 - Mixed Northern Hardwoods	Sawtimber Well	7.3	93	111-140	N/A	
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Sugar Maple	65	Pole/Log	9	93	Sugar Maple	Low	Variable	Sapling
Red Maple	5	Log	12		Hemlock	Low	>20 feet	Pole
Basswood	10	Log	14		Ironwood	Low	Variable	Sapling
Beech	5	Log/Pole	13		Ironwood	High	< 5 feet	Seeding
Bigtooth Aspen	10	Log/XLog	15					
White Pine	5	Log/XLog	14					

66	6113 - Lowland Maple	Sawtimber Well	3.2	76	81-110	N/A	Riparian area between U.S. 31 and Stanley/Brundage creeks.
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	60	Log/Pole	10	76	Red Maple	Medium	Variable	Sapling
Bigtooth Aspen	15	Log	12	91	Hemlock	Low	>20 feet	Pole
White Pine	5	Log	16		Deciduous Saplings	Low	Variable	Sapling
Quaking Aspen	20	Pole/Log	9		White Pine	Medium	< 5 feet	Seeding

67	6129 - Mixed Coniferous Lowland Forest	Poletimber Well	10.2	109	201+	N/A	Floodplain of Brundage and Stanley creeks. Deer yard, dense cover. Super canopy white pine, small numbers of aspen, black cherry.
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	8	Log/Pole	10		Northern White Cedar	Low	>20 feet	Pole
Northern White Cedar	45	Pole/Log	8	109	Tag Alder	Low	10 - 20 feet	Tall Shrub
White Pine	5	XLog	28					
Hemlock	40	Log/Pole/XLog	10					
Yellow Birch	2	Log	10					



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
68	4130 - Aspen	Sawtimber Medium	6.0	67		N/A	Stand is slightly elevated relative to surrounding swamp.
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
Red Maple		5	Log/Pole	11		Northern White Cedar	
Quaking Aspen		5	Pole/Log	9		Deciduous Saplings	
Bigtooth Aspen		85	Log/Pole/XLog	14	67	White Pine	
Northern White Cedar		5	Log	12			
69	6128 - Lowland Coniferous, Mixed Deciduous	Sawtimber Well	13.5	109	201+	N/A	Stanley Creek floodplain. Numerous springs feed into the creek. Deer yard.
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
Red Maple		20	Log/Pole	13		Northern White Cedar	
Yellow Birch		12	Log/Pole	12		Hemlock	
Basswood		5	Log	14		Hemlock	
Northern White Cedar		30	Log/Pole	12	109		
White Pine		5	Log/XLog	16			
Hemlock		28	Log/Pole/XLog	12			
70	6120 - Lowland Cedar	Sawtimber Poor	15.2	109	81-110	N/A	Stand has a lot of unhealthy trees, snags, blowdown in large swaths. Some winter deer use. South 1/3 is wetter, sparser, pole-sized. There's a bit of red-osier dogwood and cedar regeneration in the blowdown tangles.
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
Quaking Aspen		5	Log	12		Hemlock	
Northern White Cedar		88	Log/Pole/Sap	10	109	Common Cattail	
Hemlock		5	Log/Pole	12		Willow spp.	
Red Maple		2	Pole	7			
71	4112 - Maple, Beech, Cherry Association	Poletimber Well	37.1	110	81-110	N/A	Generally low quality, numerous multi-stemmed trees, some larger low grade sugar maples. Scattered oak, aspen. Beech is dying out. 2019 BAs: 80, 130, 140, 70, 110, 130; mean 110.
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
Sugar Maple		53	Pole/Log	9	110	Sugar Maple	
Red Maple		30	Log/Pole	10		Beech	
Basswood		10	Log	14		Ironwood	
Beech		5	Log/Pole/XLog	14			
72	4130 - Aspen	Poletimber Well	27.0	39		N/A	Much of the stand is on a NW facing slope, down to Stanley Creek floodplain. West part of stand is low ground; conifers are clustered in that area.
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	
Basswood		1	Log	16		Sugar Maple	
Quaking Aspen		47	Pole	7	39	Northern White Cedar	
Hemlock		4	Log/Pole	10		Hemlock	
Black Cherry		6	Pole	7	39	Black Cherry	
Red Maple		5	Pole/Sapling	6		Ironwood	
Sugar Maple		2	Pole/Sapling	5		Red Maple	
Bigtooth Aspen		35	Pole	7	39		



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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73 4139 - Aspen, Mixed Deciduous Sawtimber Well 16.7 96 Unspecified N/A Stand is on the steep banks along the south side of the Platte River.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Sugar Maple	15	Log/Pole	10		Hemlock	Medium	>20 feet	Pole
Red Maple	17	Log/Pole	12		Hemlock	Medium	Variable	Sapling
Beech	3	Log/Pole/XLog	14		Red Maple	Low	Variable	Sapling
Bigtooth Aspen	58	Log	15	96	Sugar Maple	Low	Variable	Sapling
Basswood	5	Log	16					
Yellow Birch	2	Log	12					

74 4110 - Sugar Maple Association Sawtimber Well 23.8 101 81-110 N/A 2019 BA about 110.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Sugar Maple	82	Log/Pole	10	101	Sugar Maple	Low	Variable	Sapling
Red Maple	4	Log/Pole	12		Hemlock	Low	Variable	Sapling
Basswood	5	Log/Pole	12		Ironwood	Medium	Variable	Sapling
Beech	3	Log/Pole	13		Beech	Low	5 - 10 feet	Sapling
Bigtooth Aspen	2	Log	15					
Black Cherry	3	Pole/Log	9					
Quaking Aspen	1	Pole	8					

75 4119 - Mixed Northern Hardwoods Sawtimber Well 11.7 93 111-140 N/A Snowmobile trail passes through the stand. 2019 BA about 120.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Sugar Maple	40	Pole/Log	9	93	Sugar Maple	Low	Variable	Sapling
Red Maple	15	Log	12		Ironwood	Medium	Variable	Sapling
Basswood	6	Log	12		Conifers	Low	Variable	Sapling
Beech	15	Log/Pole/XLog	14		Hemlock	Low	>20 feet	Pole
Bigtooth Aspen	12	Log/Pole	12					
White Pine	3	Log/Pole/XLog	16					
Hemlock	3	XLog/Log	22					
Black Cherry	3	Log/Pole	10					
Ironwood	3	Pole	6					

76 4110 - Sugar Maple Association Poletimber Medium 9.0 101 51-80 N/A Narrow, winding opening within stand. Variable diameters and stocking.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Sugar Maple	80	Pole/Log/Sap	9	101	Sugar Maple	Medium	Variable	Sapling
Quaking Aspen	15	Pole/Log	8	50	Ironwood	Full	Variable	Sapling
Ironwood	5	Pole	5					



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																					
77	4110 - Sugar Maple Association	Sawtimber Well	86.7	97	81-110	N/A	The whole east side of the stand is on a steep slope with denser, unthinned timber, BA about 100 on slope. Above slope BAs: 140, 70, 90, 100, 110, 70, 160, 130, 90; mean 107. South 40 acres of stand was thinned in 2004; little regeneration in this area other than ironwood seedlings. Scattered aspen (dying), beech, and elm.																																																					
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78	4110 - Sugar Maple Association	Sawtimber Medium	77.0	114	81-110	N/A	Creek runs through east side of stand. Hemlock is more concentrated in low areas. Stand has small numbers of oak, red maple, bigtooth aspen, white pine. Numerous cavity trees. Most of the stand (everything west of Marl Rd.) was thinned in fall/early winter 2018.																																																					
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79	4119 - Mixed Northern Hardwoods	Poletimber Well	16.9	39	51-80	N/A	Aspen is in poor condition and dying out, releasing hardwoods. This is a rare stand of well-stocked, good quality young sugar maple.																																																					
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80	6132 - Mixed Lowland Forest with Cedar	Sawtimber Medium	33.4	96	141-170	N/A	Stand is in the riparian area along the banks of the Platte River and south shore of Bronson Lake. Good winter deer cover. Stand boundary includes some of the steep bluffs along the river, with some large, old aspens.																																																					
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81	122 - Road/Parking Lot	Nonstocked	1.5			No	Burnt Mill Road, including Platte River crossing.																																																					



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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82	6129 - Mixed Coniferous Lowland Forest	Sawtimber Well	23.0	109	171-200	N/A	Deer winter cover, but little if any browse. Stand is in the Brundage Creek valley. Snowmobile trail crosses south end of stand. Quite a few supercanopy white pines.
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Canopy Species	% Cover	Size Class	DBH	Age
Red Maple	5	Log/Pole	10	
Yellow Birch	2	Log/Pole	12	
Quaking Aspen	10	Log/Pole/XLog	13	
Northern White Cedar	40	Pole/Log	9	109
White Pine	10	XLog/Log	20	

Sub-Canopy Species	Density	Avg. Height	Size
Northern White Cedar	Low	>20 feet	Pole
Tag Alder	Low	5 - 10 feet	Tall Shrub

83	4133 - Aspen, Mixed Pine	Sawtimber Well	35.4	88	111-140	N/A	There appear to be multiple ages of aspen; stand is succeeding strongly to white pine, with a variety of sizes and ages present. Most of the stand is on steep hillsides. Snowmobile trail crosses stand. Occasional oak.
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Canopy Species	% Cover	Size Class	DBH	Age
Sugar Maple	3	Log/Pole	10	
Red Maple	2	Log/Pole	12	
Quaking Aspen	5	Pole/Log	8	
Bigtooth Aspen	60	Log/Pole	10	88
White Pine	30	Log/Pole/XLog	10	66

Sub-Canopy Species	Density	Avg. Height	Size
White Pine	High	Variable	Sapling
White Pine	Medium	Variable	Pole

84	3301 - Low Density Deciduous Trees	Nonstocked	2.2			No	Stand is mostly in a low area/frost pocket. Note: stand was last field inventoried in Sept. 2016.
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Sub-Canopy Species	Density	Avg. Height	Size
Black Cherry	Low		Pole
Scotch Pine	Trace		Pole
Red Oak	Trace		Pole
White Pine	Trace		Log
Black Cherry	Trace		Sapling
Sugar Maple	Trace		Sapling
White Pine	Trace		Sapling
Bigtooth Aspen	Low	>20 feet	Pole

85	4130 - Aspen	Poletimber Well	7.5	51		N/A	SW lobe of stand is younger, cut in 1983. Scattered conifers in stand.
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Canopy Species	% Cover	Size Class	DBH	Age
Red Maple	5	Pole/Log/Sap	7	
Bigtooth Aspen	94	Pole/Sapling	7	51
Red Oak	1	Pole	6	

Sub-Canopy Species	Density	Avg. Height	Size
Ironwood	High	Variable	Sapling
Deciduous Saplings	Low	Variable	Sapling



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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86	4112 - Maple, Beech, Cherry Association	Sawtimber Well	9.5	103	141-170	N/A	Transition area between conifer swamp along creek and hardwoods on bluff. Very heavily browsed seedling layer (hemlock, white pine, beech, etc). Mature beech is dying.
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Canopy Species	% Cover	Size Class	DBH	Age
Sugar Maple	10	Log/Pole	12	103
Red Maple	36	Log/Pole/XLog	14	103
Yellow Birch	4	Log/Pole	12	
Beech	5	XLog/Log	20	
Hemlock	15	Log	15	

Sub-Canopy Species	Density	Avg. Height	Size
Hemlock	Low	>20 feet	Pole
Hemlock	Low	Variable	Sapling
Deciduous Saplings	Low	Variable	Sapling
Hemlock	Medium	>20 feet	Log

87	6112 - Lowland Aspen	Poletimber Medium	9.9	38		N/A	Numerous seeps emerging from the base of the bluff, feed into the Platte River. Scattered oak, maple along upland edges or where slightly elevated.
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Canopy Species	% Cover	Size Class	DBH	Age
American Elm	2	Pole	5	
Yellow Birch	10	Pole/Log/Sap	7	
Quaking Aspen	74	Pole/Log	8	38
Northern White Cedar	10	Log/Pole	13	
Hemlock	2	Log/Pole	12	
Tamarack	2	Pole/Log	8	

Sub-Canopy Species	Density	Avg. Height	Size
Black Cherry	Low	Variable	Sapling
Willow spp.	Low	10 - 20 feet	Tall Shrub

88	4130 - Aspen	Sapling Poor	4.0	8	1-50	N/A	Middle part of stand is an old borrow pit, now covered with stumps to stop ORV abuse and planted with red pine seedlings in spring 2009. North and south parts of stand were clearcut in 2013 with scattered residual white pine, maple and oak. Aspen regeneration is in patches; the rest of the area is filling in with white pine.
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Canopy Species	% Cover	Size Class	DBH	Age
White Pine	10	Log	12	
Red Pine	1	Sapling	1	14
White Pine	4	Sapling	1	
Black Cherry	5	Sapling	1	8
Bigtooth Aspen	78	Sapling	1	8
Sugar Maple	2	Pole	7	

Sub-Canopy Species	Density	Avg. Height	Size
Mixed Fruiting Shrubs	Low	Unspecified	Non-Wood
White Pine	Medium	< 5 feet	Seeding

89	3103 - Rubus-Fern	Nonstocked	1.8		Immature	No	Stanley Rd. and a roadside row of mature maples bisect the stand.
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Sub-Canopy Species	Density	Avg. Height	Size
Sugar Maple	Low	Variable	Sapling
Sugar Maple	Low	>20 feet	Log
Staghorn Sumac	Trace	5 - 10 feet	Tall Shrub
Black Cherry	Trace	Variable	Sapling
Scotch Pine	Trace	>20 feet	Pole

90	4133 - Aspen, Mixed Pine	Sawtimber Well	6.3	65	171-200	N/A	Stand is between Brundage and Kinney creeks. Deer winter cover.
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Canopy Species	% Cover	Size Class	DBH	Age
Quaking Aspen	40	Log	14	65
White Pine	35	XLog/Log/Pole	18	109
Red Maple	20	Log/Pole	11	
Hemlock	5	Log/Pole	12	

Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	Low	Variable	Pole
Northern White Cedar	Low	>20 feet	Pole
Hemlock	Medium	Variable	Pole



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																
91	42110 - Planted Red Pine	Poletimber Well	32.2	39	171-200	N/A	Semi-open inclusion in middle of stand in a small depression, with quaking aspen, cherry, and honeysuckle. 2020 BA about 180.																																																
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92	500 - Water	Nonstocked	1.7			No	Platte River																																																
93	3303 - Mixed Low Density Trees	Nonstocked	27.6		Immature	No	Scattered maple, elm.																																																
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94	42130 - Planted Scotch Pine	Poletimber Poor	1.7	56	51-80	N/A	Poor quality Scotch pine is slowly dying off, releasing the fully stocked understory. Heavily browsed seedling layer. Acorns planted about 17 years ago, but not evident. Surprising number of hemlock seedlings. but getting browsed.																																																
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95	6120 - Lowland Cedar	Sawtimber Well	9.7	139	201+	N/A	Stream flows through stand.																																																
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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96	3102 - Grass	Nonstocked	0.7			No																				
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97	4110 - Sugar Maple Association	Poletimber Medium	7.8	103	81-110	N/A	Small numbers of basswood, beech, w. pine, hemlock present. Thinned Dec. 2018.																															
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98	42200 - Natural White Pine	Sawtimber Poor	1.7	51	1-50	N/A	Wolfy open-grown pine.																															
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99	4130 - Aspen	Poletimber Well	43.9	51	Unspecified	N/A	Scattered cedar, basswood, red pine, hemlock, hawthorn, juneberry. Some large diameter, older remnant white pine and a few red pine and hardwoods over aspen and red maple poletimber. Lots of deer winter sign adjacent to the lowland conifer types. Beaver activity at north end. Note: stand was last field inventoried in Dec., 2016.																																																						
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100	4131 - Aspen, Oak	Poletimber Medium	21.5	34	Immature	N/A	Remnant mature oak over aspen poles. Scattered white pine, maple.																																								
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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101 6112 - Lowland Aspen Poletimber Well 3.2 51 N/A Riparian area near shore of Bronson Lake.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	3	Pole/Log	8		Hemlock	Medium	>20 feet	Pole
Yellow Birch	4	Pole/Log	9		Deciduous Saplings	Low	Variable	Sapling
Basswood	2	Log	13					
Quaking Aspen	85	Pole/Log	9	51				
Hemlock	6	Log/Pole	10					

102 6128 - Lowland Coniferous, Mixed Deciduous Sawtimber Well 8.1 121 111-140 N/A Mixed lowland forest along a stream and edges of old marl pit. Stand has patches of considerably older, larger white pines.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	5	Log/Pole	10		White Pine	Medium	Variable	Sapling
Paper Birch	10	Pole/Log/Sap	8		Black Cherry	Low	5 - 10 feet	Sapling
Quaking Aspen	8	Pole	8					
Northern White Cedar	30	Pole/Log	9	97				
White Pine	40	Log/Pole/XLog	12	121				
Black Cherry	7	Log/Pole	10					

103 4110 - Sugar Maple Association Poletimber Well 30.7 119 81-110 N/A Part of the stand north of Bronson Lake Road was thinned in fall 2018.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Sugar Maple	73	Pole/Log	9	119	Sugar Maple	Low	Variable	Sapling
Red Maple	2	Pole/Log	9		Hemlock	Low	Variable	Sapling
Basswood	14	Log/Pole	12		Ironwood	Medium	Variable	Sapling
Beech	3	XLog/Log	18					
Bigtooth Aspen	4	Log	12					
Hemlock	2	Log	12					
Black Cherry	2	Pole	8					

104 6112 - Lowland Aspen Poletimber Medium 10.7 49 Unspecified N/A Stand is transitional between upland & lowland. There are a few hemlocks, and a few black willows along the river bank. Brushy understory. A flowage runs through the stand.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	2	Log/Pole	10		White Spruce	Low	Variable	Sapling
Quaking Aspen	80	Pole/Log	8	49	Northern White Cedar	Low	>20 feet	Pole
Bigtooth Aspen	2	Log	12		Black Ash	Low	Variable	Sapling
Northern White Cedar	5	Log/Pole	12		Black Cherry	High	Variable	Sapling
White Pine	6	Log/Pole	12		Tag Alder	Low	10 - 20 feet	Tall Shrub
Red Pine	2	Pole	7		Honeysuckle (spp.)	Medium	5 - 10 feet	Tall Shrub
Black Ash	1	Pole	7		Willow spp.	Low	5 - 10 feet	Tall Shrub
Jack Pine	2	Pole	8		White Pine	Low	>20 feet	Pole



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																		
105	6239 - Mixed Emergent Wetland	Nonstocked	8.8		Immature	No	Old marl pits. Cedar saplings filling in the SW part of the stand; cherry, birch and pine in the east end.																																																		
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106	4130 - Aspen	Sawtimber Well	8.9	81		N/A	North lobe of stand is about 3 acres of younger, pole-sized hardwoods; mostly sugar maple, with some cherry and some old balsam poplar.																																																		
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107	3102 - Grass	Nonstocked	1.2		Immature	No	Small opening adjacent to Brundage Pond.																																																		
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108	42110 - Planted Red Pine	Sawtimber Medium	5.5	85	141-170	N/A	Riparian area, straddles Brundage Creek. Much of the stand is on hillside. Old foundation in SE part of stand. The part of the stand south of the pond was thinned in 2003; this area has a flush of red maple seedlings, heavily browsed. Thinned again in summer 2013 following heavy winter storm damage in the middle of the larger patch south of the pond access road. Numerous downed trees/cut logs remain.																																																		
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109	500 - Water	Nonstocked	1.5			Managed Opening	Brundage Pond - managed by Fisheries Division for Platte River Hatchery water source.																																																		
110	6120 - Lowland Cedar	Poletimber Well	5.6	161	201+	N/A	Small opening in SE corner of stand. Very dense cedar poles: good deer winter cover, but no browse within stand.																																																		
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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111	6128 - Lowland Coniferous, Mixed Deciduous	Sawtimber Well	4.2	103	141-170	N/A	West end is small area of upland white pine .
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Canopy Species	% Cover	Size Class	DBH	Age
Tamarack	40	Log/Pole	10	103
White Pine	20	Log/XLog	16	
Red Maple	10	Pole/Log	8	
Quaking Aspen	10	Pole	9	
Northern White Cedar	20	Pole/Log	9	

Sub-Canopy Species	Density	Avg. Height	Size
Northern White Cedar	Medium	>20 feet	Pole

112	6128 - Lowland Coniferous, Mixed Deciduous	Sawtimber Well	26.9	109	171-200	N/A	Stand is in the Kinney Creek valley. Super-canopy white pines. Aspen is mostly at the south end, dying.
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Canopy Species	% Cover	Size Class	DBH	Age
Red Maple	10	Log/Pole	12	
Yellow Birch	5	Log/Pole	12	
Basswood	4	Log	15	
Quaking Aspen	2	Log	15	
Northern White Cedar	36	Pole/Log	8	109
White Pine	8	XLog	26	109
Hemlock	35	Log/Pole/XLog	12	

Sub-Canopy Species	Density	Avg. Height	Size
Northern White Cedar	Medium	>20 feet	Pole
Hemlock	Medium	>20 feet	Pole

113	6132 - Mixed Lowland Forest with Cedar	Sawtimber Well	23.3	89	201+	N/A	Stand is along Brundage Creek. Numerous springs and seeps feed into the creek.
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Canopy Species	% Cover	Size Class	DBH	Age
Red Maple	25	Log/Pole	13	89
Basswood	2	Log/Pole	12	
Quaking Aspen	10	Log	14	
Bigtooth Aspen	3	XLog	18	
Northern White Cedar	23	Log/Pole	10	106
White Pine	15	XLog/Log	22	
Hemlock	20	Log/Pole/XLog	10	
Yellow Birch	2	Log	16	

Sub-Canopy Species	Density	Avg. Height	Size
Northern White Cedar	Low	>20 feet	Pole
Hemlock	Medium	Variable	Pole

114	4130 - Aspen	Sawtimber Well	12.4	61		N/A	South part of stand is on a bluff and creek bottom.
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Canopy Species	% Cover	Size Class	DBH	Age
Sugar Maple	3	Log/Pole	10	
Red Maple	15	Log/Pole	10	
Red Oak	8	XLog/Log	20	
Bigtooth Aspen	67	Log/Pole	11	61
White Pine	5	Log/Pole	12	
Black Cherry	2	Log	10	

Sub-Canopy Species	Density	Avg. Height	Size
White Pine	Low	Variable	Sapling
Witch Hazel	Low	5 - 10 feet	Tall Shrub
White Pine	Low	>20 feet	Pole
Deciduous Saplings	Low	Variable	Sapling



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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115 4110 - Sugar Maple Association Poletimber Well 25.6 91 111-140 N/A Snowmobile trail runs along southeast edge of stand. Single inclusion of planted red pine along east edge; Scotch pine in north arm of stand. North arm is mostly on a steep slope with a less-dense overstory and a well-stocked understory of sugar maple and ironwood. The south part of the stand has a much more open understory.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Sugar Maple	80	Pole/Log	9	91	Ironwood	Medium	Variable	Sapling
Red Maple	5	Log	14		Sugar Maple	Medium	Variable	Sapling
Basswood	2	Log	15		Ironwood	Medium	< 5 feet	Seeding
Beech	5	Log/XLog	16					
Red Pine	3	Log/Pole	10					
Black Cherry	3	Log	15					
Scotch Pine	2	Log/Pole/Sap	12					

116 3102 - Grass Nonstocked 5.1 Unspecified No U.S. 31 R.O.W. High water table.

Sub-Canopy Species	Density	Avg. Height	Size
Willow spp.	Trace		Tall Shrub
Northern White Cedar	Trace		Log
Red Pine	Low		Log
Tag Alder	Low		Tall Shrub
Black Cherry	Trace		Log
Quaking Aspen	Low		Pole

118 4130 - Aspen Poletimber Medium 158.1 34 51-80 N/A Stand also has some scattered sugar maple, white oak and ironwood poles. Snowmobile trail crosses west side of stand. Density is quite variable, very sparse in places.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Oak	2	Log/XLog	17		White Pine	Low	Variable	Sapling
Quaking Aspen	40	Pole/Sapling	5	34	Black Cherry	High	Variable	Sapling
Bigtooth Aspen	50	Pole/Sapling	5	34	Ironwood	Medium	Variable	Sapling
White Pine	3	Pole/Log/Sap	8		Red Maple	Low	Variable	Sapling
Black Cherry	2	Pole	6		Witch Hazel	Trace	5 - 10 feet	Tall Shrub
Red Maple	3	Pole/Sapling	6		Honeysuckle (spp.)	Trace	< 5 feet	Tall Shrub
					Sugar Maple	Low	Variable	Sapling

119 4130 - Aspen Poletimber Well 4.6 34 Immature N/A Small opening at SW corner of stand with some Scotch pine, red pine and hardwood saplings and poles.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Sugar Maple	2	Pole/Sapling	6		Sugar Maple	Low	Variable	Sapling
Bigtooth Aspen	94	Pole/Sapling	6	34	Black Cherry	Low	5 - 10 feet	Sapling
Black Cherry	1	Pole	7		Red Maple	Low	Variable	Sapling
Red Maple	3	Sapling	3		Ironwood	Medium	Variable	Sapling



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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120 6129 - Mixed Coniferous Lowland Forest Sawtimber Medium 11.0 106 171-200 N/A Numerous springs, headwaters of Brundage Creek.

Canopy Species	% Cover	Size Class	DBH	Age
Red Maple	4	Log/Pole	12	
Quaking Aspen	8	Log	16	
Northern White Cedar	45	Log/Pole/XLog	13	106
Tamarack	3	Log/Pole	13	
White Pine	35	XLog	25	
Hemlock	3	Log	12	
Black Cherry	1	Pole	8	
Basswood	1	Log	16	

Sub-Canopy Species	Density	Avg. Height	Size
Northern White Cedar	Low	Variable	Pole
Tag Alder	Low	10 - 20 feet	Tall Shrub
Hemlock	Low	>20 feet	Pole

121 42201 - Natural White Pine, Mixed Deciduous Poletimber Medium 31.8 52 51-80 N/A Scattered red oak, basswood, red pine and Scotch pine within the stand. Multiple ages, sizes of white pine. Variably stocked with some open areas. Some weeviling, especially in older pines.

Canopy Species	% Cover	Size Class	DBH	Age
Sugar Maple	3	Log	14	
Quaking Aspen	14	Pole/Log	9	44
White Pine	70	Pole/Log/Sap	9	52
Black Cherry	10	Log/Pole	10	

Sub-Canopy Species	Density	Avg. Height	Size
White Pine	Medium	Variable	Sapling
Red Maple	Low	Variable	Sapling

122 4133 - Aspen, Mixed Pine Sawtimber Well 39.7 60 111-140 N/A Terrain is variable with some low areas along drainages. Scattered basswood, sugar maple, red oak, and witch hazel present on ridges.

Canopy Species	% Cover	Size Class	DBH	Age
Red Maple	20	Pole/Log	8	
Quaking Aspen	25	Log/Pole	10	60
Bigtooth Aspen	20	Log/Pole	10	
White Pine	30	Log/Pole	10	66
Black Cherry	5	Log/Pole	10	

Sub-Canopy Species	Density	Avg. Height	Size
White Pine	Low	Variable	Sapling
White Pine	Low	Variable	Pole
Black Cherry	Medium	Variable	Sapling

123 4112 - Maple, Beech, Cherry Association Poletimber Well 74.0 93 111-140 N/A Good quality oak. 2020 BAs: 100, 80, 80, 140, 130, 110, 130, 140; mean 114.

Canopy Species	% Cover	Size Class	DBH	Age
Sugar Maple	30	Pole/Log	8	
Red Maple	50	Pole/Log	9	93
Basswood	4	Log/Pole	12	
Red Oak	5	Log	16	
Bigtooth Aspen	5	Log/Pole	13	
White Pine	5	Log	14	
Ironwood	1	Pole/Sapling	6	

Sub-Canopy Species	Density	Avg. Height	Size
White Pine	Medium	Variable	Sapling
Ironwood	Full	Variable	Sapling
Ironwood	Medium	< 5 feet	Seeding



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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124 4191 - Mixed Upland Deciduous with Conifer Sawtimber Well 66.1 80 111-140 N/A Stand varies considerably in age, size, and density of white pine. 2020 BA about 140. 2010: cored bigtooth aspen 43 and 50 yrs.

Canopy Species	% Cover	Size Class	DBH	Age
Red Maple	35	Log/Pole	12	
Red Oak	2	Log/XLog	17	
Quaking Aspen	5	Log/Pole	10	
Bigtooth Aspen	15	Log/Pole	12	61
White Pine	40	Log/Pole/XLog	12	80
Black Cherry	3	Log/Pole	12	

Sub-Canopy Species	Density	Avg. Height	Size
White Pine	Low	>20 feet	Pole
White Pine	High	Variable	Sapling
Deciduous Saplings	Low	Variable	Sapling

125 42200 - Natural White Pine Sawtimber Medium 5.5 116 141-170 N/A 2010 SI trees: 114', 91'. Tall, straight, high quality pine. Some mortality.

Canopy Species	% Cover	Size Class	DBH	Age
Sugar Maple	4	Pole/Log	8	
Red Oak	2	XLog	24	
Bigtooth Aspen	2	Log	14	
White Pine	92	XLog/Log	18	116

Sub-Canopy Species	Density	Avg. Height	Size
Sugar Maple	Medium	Variable	Sapling
Sugar Maple	Medium	Variable	Pole
Ironwood	Medium	Variable	Sapling

126 4130 - Aspen Poletimber Well 53.5 34 Immature N/A Small amounts of cherry, white oak and sugar maple. 2010 comment: Many small open, shrubby areas.

Canopy Species	% Cover	Size Class	DBH	Age
Red Maple	3	Pole/Sapling	6	
Red Oak	5	Log/XLog/Pole	14	
Quaking Aspen	10	Pole/Sapling	6	34
Bigtooth Aspen	67	Pole/Sapling	6	34
White Pine	15	Pole/Log	8	

Sub-Canopy Species	Density	Avg. Height	Size
White Pine	Medium	Variable	Sapling
Black Cherry	High	5 - 10 feet	Sapling
Witch Hazel	Low	10 - 20 feet	Tall Shrub
Red Maple	Low	Variable	Sapling

127 6220 - Alder/willow Nonstocked 5.2 Immature No

Sub-Canopy Species	Density	Avg. Height	Size
Red Osier Dogwood	Trace	< 5 feet	Tall Shrub
White Pine	Trace	>20 feet	Log
Willow spp.	Low	5 - 10 feet	Tall Shrub
Tag Alder	High	5 - 10 feet	Tall Shrub
Northern White Cedar	Medium	>20 feet	Pole
Paper Birch	Trace	10 - 20 feet	Sapling

129 6120 - Lowland Cedar Sawtimber Well 13.6 122 201+ N/A Nice quality cedar. Large diameter white pine of 26" or more. A few hemlock.

Canopy Species	% Cover	Size Class	DBH	Age
Northern White Cedar	75	Log/Pole	10	122
White Pine	20	XLog/Log	22	
Red Maple	4	Pole/Log	8	
Paper Birch	1	Pole/Log	8	

Sub-Canopy Species	Density	Avg. Height	Size
Northern White Cedar	Low	>20 feet	Pole



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																															
130	3102 - Grass	Nonstocked	2.0		Immature	4210 - Planted White Pine	Planted to white pine and red oak on 5/11/2013. 2020: decent survival of white pine, but no oak seedlings seen.																																																															
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Red Pine	Trace	>20 feet	Log																																																																			
131	42201 - Natural White Pine, Mixed Deciduous	Poletimber Well	73.8	65	51-80	N/A	Stand is two-storied, with remnant multi-aged white pine over aspen regeneration resulting from a 2004 cut. Stand will have a mixed pine-aspen canopy in the future as aspen catches up in height. At present, aspen has filled larger gaps in the pine canopy, and also is fully stocked by suppressed under the pine.																																																															
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132	6112 - Lowland Aspen	Poletimber Well	17.3	49	141-170	N/A	Scattered white and red oak, paper birch. Wintergreen and blueberry ground cover.																																																															
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Black Cherry	3	Pole/Log	9																																																																			
133	6233 - Wet Meadow	Nonstocked	1.2			No	Grades from open wetland with patches of willow at north end to conifer swamp at south end.																																																															
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134	4130 - Aspen	Poletimber Well	21.1	55		N/A	Stand has some veteran white pine, mostly in the north end of the stand. Scattered juneberry, hawthorn.																																																															
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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136 4130 - Aspen Poletimber Well 28.7 55 Unspecified N/A Scattered junberry, hawthorn, witch hazel, basswood, sugarmaple. This stand includes a half-acre abandoned gas well pad and some adjacent small openings filling in with white pine (formerly typed separately as a non-forested stand.).

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	5	Log/Pole	10		Red Maple	Low	Variable	Sapling
Red Oak	5	XLog/Log/Pole	20		White Pine	Low	>20 feet	Pole
Quaking Aspen	5	Pole	8		White Pine	Medium	Variable	Sapling
Bigtooth Aspen	70	Pole/Log	9	55	Black Cherry	Low	Variable	Sapling
White Pine	10	Log/Pole	10		Ironwood	Medium	5 - 10 feet	Sapling
Black Cherry	4	Log/Pole	13					
Red Pine	1	Log/Pole	10					

137 4130 - Aspen Sapling Well 22.6 8 Immature N/A Clearcut March, 2013. Some higher than average stumps because of deep snow during harvest. Scattered residual mature red oak and white pine, plus 2 retention islands of mixed aspen/w. pine/r. oak.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
White Pine	5	Log	12		White Pine	Low	Variable	Sapling
Red Oak	5	XLog/Log	20		Ironwood	Low	< 5 feet	Seeding
White Pine	10	Sapling	2					
Red Maple	10	Sapling	2	8				
Black Cherry	5	Sapling	1	8				
Quaking Aspen	10	Sapling	1	8				
Bigtooth Aspen	55	Sapling	1	8				

138 4130 - Aspen Sapling Medium 12.0 8 Immature N/A Clearcut in spring 2013. Scattered residual mature red oak and white pine, plus some maple, elm, and cherry. The larger southern patch is fully stocked, but the other 3 patches, especially the western-most, are poorly stocked, probably due to browsing. These are filling in with ironwood and white pine.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
White Pine	5	Sapling	1		Ironwood	High	< 5 feet	Seeding
Quaking Aspen	5	Sapling	1		White Pine	Low	< 5 feet	Sapling
Black Cherry	2	Sapling	1	8	Autumn Olive	Trace	5 - 10 feet	Tall Shrub
Bigtooth Aspen	75	Sapling	1	8				
Red Oak	8	Pole/Log	9					
White Pine	3	Log	10					
Red Maple	2	Sapling	1	8				

140 4130 - Aspen Sapling Well 5.0 8 Immature N/A Stand was clearcut in summer 2013, with scattered retention of white pine, oak and maple.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
White Pine	6	Log	13		White Pine	Low	< 5 feet	Sapling
Red Maple	3	Sapling	1	8	Black Cherry	Low	< 5 feet	Seeding
Black Cherry	4	Sapling	1	8				
Bigtooth Aspen	85	Sapling	1	8				
Red Maple	2	Log	10					



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																				
141	4110 - Sugar Maple Association	Sawtimber Well	76.8	125	81-110	N/A	Good quality sugar maple and basswood. Scattered understory hemlock poles (and some log-size), mostly on the steep slope down to the stream at the north end of the stand. Small amounts of bigtooth aspen, white birch, black cherry and white pine. Shore-to-Shore Trail runs through the stand. Thinned in 2010 under TSC #611050901. Slope on north edge of stand along the stream was left unthinned. 2016 BAs: 80, 80, 60, 100, 130; mean 90. Note: stand was last field inventoried in Dec., 2016.																																																				
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143	4119 - Mixed Northern Hardwoods	Poletimber Medium	62.5	92	81-110	N/A	Sparse, low quality hardwoods with a heavy ironwood subcanopy. Some advanced sugar maple regeneration in places. 2016 BAs: 130, 100, 100, 20, 60; mean 82. Note: stand was last field inventoried in Dec., 2016.																																																				
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144	4112 - Maple, Beech, Cherry Association	Sawtimber Well	27.3	92	81-110	N/A	Trace amounts of white pine, quaking aspen, beech, and understory hemlock poles. Little CWD. Some snags, mostly in the pole sized black cherry. 2016 BAs: 130, 120, 110, 100, 80; mean 108. Note: stand was last field inventoried in Dec., 2016.																																																				
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145	4139 - Aspen, Mixed Deciduous	Sapling Well	10.9	11	Immature	N/A	Clearcut in 2010. Some patches of advanced sugar maple saplings which were present prior to the 2010 harvest and retained. Scattered retained mature hardwoods and white pine. Note: stand was last field inventoried in Dec., 2016.																																																				
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146	310 - Herbaceous Openland	Nonstocked	2.3		Unspecified	No	Note: stand was last field inventoried in Dec., 2016.																																																				
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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147 4139 - Aspen, Mixed Deciduous Sapling Poor 8.5 11 Immature N/A Clearcut in 2010. Patchy regeneration. Some white pine filling in. Note: stand was last field inventoried in Dec., 2016.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Quaking Aspen	50	Sapling	1	11	Ironwood	Medium	< 5 feet	Seeding
White Pine	8	Pole/Sap/Log	6		Beech	Low	5 - 10 feet	Sapling
Red Maple	5	Sapling/Pole/Log	3					
Black Cherry	2	Sapling	2	11				
Ironwood	35	Sapling	2					

148 310 - Herbaceous Openland Nonstocked 11.2 Immature No Note: stand was last field inventoried in Dec., 2016.

Sub-Canopy Species	Density	Avg. Height	Size
Autumn Olive	Trace	5 - 10 feet	Tall Shrub
Black Cherry	Low	>20 feet	Log
Sugar Maple	Trace	>20 feet	Log
Basswood	Trace	>20 feet	Log
White Pine	Low	>20 feet	Pole
Deciduous Saplings	Trace	Variable	Sapling
Serviceberry (Juneberry)	Trace	10 - 20 feet	Tall Shrub
White Oak	Trace	>20 feet	Pole
Scotch Pine	Trace	>20 feet	Pole
Black Cherry	Trace	>20 feet	Pole
Quaking Aspen	Low	>20 feet	Pole

149 4119 - Mixed Northern Hardwoods Poletimber Well 47.5 89 51-80 N/A Good quality red oak, medium sugar maple, poor cherry & red maple. Quaking aspen is in scattered patches. 2007 BAs: mean 99 from 7 plots; 2016 BA mean 76 from 8 plots. Small amount of hemlock. Stand is on the verge of entering the log class. Some old, veteran red oak here and there. Lots of mortality in the cherry (partially explains reduced BA from 2007 to 2016). Note: stand was last field inventoried in Dec., 2016.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Sugar Maple	35	Pole/Log	9	89	Sugar Maple	Low	>20 feet	Sapling
Red Maple	25	Pole/Log	9		Ironwood	High	Variable	Sapling
Basswood	5	Log/Pole	12		White Pine	Low	Variable	Sapling
Red Oak	18	Log/Pole/XLog	10					
Quaking Aspen	4	Pole	8					
White Pine	4	Log/Pole/XLog	14					
Black Cherry	5	Pole/Log	9					
Ironwood	3	Pole	6					
Bigtooth Aspen	1	Log/Pole	12					



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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150 310 - Herbaceous Openland Nonstocked 1.4 Unspecified No Note: stand was last field inventoried in Dec., 2016.

Sub-Canopy Species	Density	Avg. Height	Size
Red Oak	Trace	>20 feet	Log
Red Maple	Low	>20 feet	Log
Autumn Olive	Trace	5 - 10 feet	Tall Shrub
Common Or Ground Juniper	Trace	< 5 feet	Tall Shrub
White Pine	Low	>20 feet	Pole
White Pine	Trace	5 - 10 feet	Sapling

151 42290 - Natural Mixed Pine Poletimber Poor 3.5 33 51-80 N/A Open-grown volunteer pines taking over an old field. Scattered black cherry. 2016 BAs: 40, 120, 20; mean 60. Note: stand was last field inventoried in Dec., 2016.

Canopy Species	% Cover	Size Class	DBH	Age
White Pine	10	Pole/Log/Sap	9	
Red Pine	40	Pole/Log	9	33
Jack Pine	25	Pole/Sapling	5	
Red Maple	20	Log	16	
Sugar Maple	5	Log	16	

Sub-Canopy Species	Density	Avg. Height	Size
White Pine	Low	Variable	Sapling
Red Pine	Low	Variable	Sapling
Jack Pine	Low	Variable	Sapling

152 42140 - Planted Mixed Pine Sawtimber Well 7.2 72 201+ N/A Five rows of mixed pines in a roadside planting. Note: stand was last field inventoried in Dec., 2016.

Canopy Species	% Cover	Size Class	DBH	Age
White Pine	45	Log/Pole	11	72
Red Pine	50	Log/Pole	11	72
Jack Pine	5	Pole	8	72

Sub-Canopy Species	Density	Avg. Height	Size
Deciduous Saplings	Low	10 - 20 feet	Sapling

153 42200 - Natural White Pine Sawtimber Medium 7.3 48 51-80 N/A Open-grown mix of pines, mostly are probably volunteers seeded in from roadside plantation into an old field. Very limby, variable density and age. Some small openings. Trace of elm, Scotch pine. Good local winter cover. Let this stand grow, fill in and self prune. Note: stand was last field inventoried in Dec., 2016.

Canopy Species	% Cover	Size Class	DBH	Age
White Pine	60	Log/Pole/XLog	12	48
Red Pine	7	Pole/Log	9	
Jack Pine	28	Pole/Sapling	7	
Sugar Maple	2	Pole/Log	8	
Black Cherry	3	Pole/Log	8	

Sub-Canopy Species	Density	Avg. Height	Size
White Pine	Low	Variable	Sapling
White Pine	Low	< 5 feet	Seeding

155 6233 - Wet Meadow Nonstocked 11.7 0 Immature No Old beaver flooding. The east part is dominated with tamarack and dead wood. As you move west, the tamarack gives way to just dead wood. The majority of this lowland (60%) is a wet meadow located in the center. The western part has dead wood and shrubs such as willow/tag alder.

Sub-Canopy Species	Density	Avg. Height	Size
Willow spp.	Medium	Variable	Tall Shrub
White Pine	Trace	5 - 10 feet	Sapling
Tamarack	Low	>20 feet	Pole
Northern White Cedar	Trace	5 - 10 feet	Sapling
Cattail spp.	Low	Unspecified	Non-Wood



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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156 6112 - Lowland Aspen Poletimber Well 4.1 44 N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Quaking Aspen	95	Pole	7	44	Northern White Cedar	Trace	>20 feet	Pole
Red Maple	5	Pole/Sapling	7		Black Ash	Trace	Variable	Sapling
					Sugar Maple	Medium	Variable	Sapling
					Hemlock	Low	>20 feet	Pole

157 4130 - Aspen Poletimber Well 28.0 46 Unspecified N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Bigtooth Aspen	22	Pole/Log	8	46	Sugar Maple	Low	Variable	Sapling
Sugar Maple	3	Pole/Sapling	6		Ironwood	High	Variable	Sapling
Quaking Aspen	60	Pole/Log	8	46	Black Cherry	Medium	Variable	Sapling
White Pine	2	Log/Pole	12		Hemlock	Trace	>20 feet	Pole
Black Cherry	4	Pole/Log	8		White Pine	Low	Variable	Sapling
Red Maple	7	Pole/Sapling	6		Red Pine	Low	Variable	Sapling
Black Locust	2	Log/Pole	10					

Wet area N of Bowers Rd. Patch of black locust near NW corner of stand with old cellar holes: homestead site. Patches of pine volunteers adjacent to pine plantation along Bowers Rd.

158 6112 - Lowland Aspen Poletimber Well 8.2 46 N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Quaking Aspen	90	Pole	7	46	Black Ash	Low	Variable	Sapling
White Pine	5	XLog/Log	20		Deciduous Shrubs	Low	5 - 10 feet	Tall Shrub
Hemlock	2	Log	12		Deciduous Saplings	Low	Variable	Sapling
Northern White Cedar	3	Log	12		White Pine	Trace	5 - 10 feet	Sapling
					Black Cherry	Low	Variable	Sapling

In Platte River floodplain.

159 42200 - Natural White Pine Sawtimber Well 1.5 52 141-170 N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
White Pine	75	Log/Pole	10	52	Ironwood	Medium	Variable	Sapling
Bigtooth Aspen	25	Pole	7					

Steep hillside abutting Co. Rd. 669 and private land.