

Compartment Review Presentation

Traverse City Forest Management Unit

Compartment 61102

Entry Year: 2027

Acreage: 2,471

County: Kalkaska

Management Area: Kalkaska Sandy Moraines

Stand Examiner: Thomas Peterson III

Legal Description:

Kalkaska County
T28N, R5W, Sec. 4, 5, 6, 7, 8, 9

Identified Planning Goals:

Management in the Kalkaska Sandy Moraines management area (MA) will emphasize continuing balancing the age class of aspen on suitable sites and thinning the northern hardwoods, balancing age classes of red pine and jack pine and regenerating the aging swamp hardwood and conifer resource where possible. Management will strive to sustainably produce various timber products, enhance game and non-game wildlife habitat, protect areas of unique character and provide for forest-based recreational uses. Management activities are constrained by poor access in the swampy (16% lowland) portions of this area, some of which fall in the riparian zone of the Manistee River, a dedicated natural river. Expected trends within this 10-year planning period are increased recreational pressure, introduced pests and diseases and the difficulty in regenerating swamp types.

Soil and topography:

The north and west side of the compartment is mostly flat with gently rolling hills. The south and eastern part of the stand is larger rolling hills some of which my present obstacles to harvesting timber. There are scattered vernal ponds across the compartment as well as larger lakes in the central portion of the compartment. Most of the soil is Kalkaska Sand and Blue Lake Loamy sand.

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

Private ownership with high residential & second home development around the lakes. The rest of the area is mostly state ownership.

Unique Natural Features:

This compartment falls within landtype associations (LTAs) 3121, 5211, and 5521 of sub-subsection VII.2.2. LTA 3121, which occurs in the southeastern portion of the compartment, is characterized by large irregular ice-contact ridges, few kettle lakes, and well drained loamy sand. Northern hardwood forests of beech and sugar maple occurred on 73% of this LTA circa 1800. Hemlock and white pine probably occurred in low numbers throughout most of these hardwood forests, and these two conifers also co-dominated forests on the remainder of the LTA. Specifically, hemlock, was co-dominant with either beech or white pine on about 19% of the LTA. In addition to its association with hemlock, white pine also occurred in mixed forests with red pine on about 6% of the LTA. Northern hardwood forests remain the dominant cover type on LTA 3121, covering about 70% of its surface. However, most of these second growth forests lack the structural complexity of mature northern hardwoods and, in addition, the conifer component has been greatly reduced or eliminated. Conifer dominated forests, once common on this LTA, have been essentially eliminated, whereas aspen/white birch forests now cover about 19% of the area. The northwestern two-thirds of the compartment contains LTA 5211, a pitted outwash plain with excessively drained sand. Forests of beech and sugar maple covered 34% of the LTA. One quarter of the landscape was dominated by fire-prone red pine mixed with white or jack pine. Jack pine, occurring in pure stands or in open, savanna-like pine and oak/pine barrens covered approximately 13% of the LTA. The remainder of the LTA supported forests of white pine, beech, and red maple, often including a significant portion of hemlock, and lowland conifer swamps. The upland-conifer forests, which occupied over 50% of the LTA at the time of the General Land Office survey have been drastically reduced and now occur on about 19% of the landscape. Further, much of these remaining conifer forests are red or jack pine plantations, while oak and pine barrens and forests co-dominated by hemlock have been virtually eliminated. In contrast, aspen/white birch forests, which covered about 3% of the LTA at the time of the General Land Office survey, have increased to about 20% cover today. LTA 5521 is found in southeastern corner of the compartment. LTA 5521 is characterized by narrow, north-south trending outwash channels with well-drained sand between large ice-contact ridges. Circa 1800, white pine was co-dominant with hemlock, red pine, or American beech and red maple, in 61% of the original forests of the LTA. Eastern hemlock also occurred with American beech in forests that covered about 8% of the LTA. The remaining upland area supported less extensive forests of American beech and sugar maple, and red pine mixed with oak or jack pine. Wetlands, which covered 13% of the LTA, were predominately cedar, mixed conifer, or mixed hardwood/conifer swamps. The LTA has become quite fragmented and 21% of its area supports cover types with less than 5% individual cover. Aspen/white birch forest, which was not noted by the original land surveyors, has become the

predominant cover type and occurs on 25% of the LTA. Pine forest persists on only 20% of the area and forests with hemlock as a co-dominant have been virtually eliminated. Unmanaged herbaceous and shrublands collectively cover about 18% of the LTA, while northern and central hardwoods occur on another 15%. Much of the original conifer-dominated wetlands have been converted to either lowland hardwoods or lowland shrubs.

Archeological, Historical, and Cultural Features:

Big Wheel" roads are located on private to the west of this compartment. Also, a number of old Antrim Iron Company logging camps are located just outside the compartment boundaries.

Special Management Designations or Considerations:

Sections 8 and 9 did have a Potential Old Growth Area but this area does not meet the Old Growth criteria. In addition there is a lot of oil and gas activity and the motorized recreation trails in these sections.

Watershed and Fisheries Considerations:

Starvation Lake, Eagle Lake, Waddell's Pond, and McNeil's Pond all lie within Compartment 102. Starvation Lake is stocked annually with rainbow and brown trout, and also offers good fishing for largemouth bass, smallmouth bass, bluegill, and yellow perch. Eagle Lake offers fishing for largemouth bass, bluegill, pumpkinseed sunfish, and yellow perch. No timber harvests should take place within 100' of these lakes or the two ponds, per MDNR BMPs.

Wildlife Habitat Considerations:

The north half of the compartment consists of a pitted outwash plain (LTA 5211). This type of outwash plain consists of numerous kettle lakes and sandy, excessively drained soils. Within this compartment, numerous aspen and shrub stands are located here. There are also maple and pine stands. Portions of Sec. 08 and Sec. 09 lie on an ice contact ridge (LTA 3121). Topography is steep, broken, and irregular. Soils are well drained, loamy sand. Within this compartment, maple stands dominate. There are also some limited aspen stands, along with a few old well pad sites. A small, narrow outwash channel (LTA 5521) is located in the SE corner of Sec. 09. A red pine plantation and young maple/aspen/tamarack stand are located here. FMFM planted tamarack within the deciduous stand and it is doing well.

Ruffed grouse use different aged aspen throughout their life cycle. Younger stands provide cover while older stands provide catkins (food source) for the winter months. Aspen clearcuts help facilitate different sized trees by mimicking the necessary disturbance vital for regeneration. The creation of CWD trees for drumming logs and maintaining berry-producing shrubs is also desirable. Wildlife considerations for northern hardwood stands involve maintaining tree species diversity, the protection of den/nesting trees & snags, Coarse Woody Debris (CWD), and maintaining a scattering of mast-producing trees/shrubs. This will insure use by many species of wildlife. Examples of species include scarlet tanager, raccoon, broad-winged hawk, wild turkey, and white-tailed deer. Many wildlife species rely on small forest openings and upland shrubland. These openings provide grassy nest sites, plentiful seeds and insects, and cover. Examples of species include northern flicker, eastern chipmunk, and blue racer. Upland shrub stands are important because they contain many berry-producing trees and shrubs. Handfelling with chainsaws may be needed to maintain these habitat types. Any degraded site should be considered for planting of trees, rye, or into a native grass. The tamarack planted within one stand provides an interesting alternative for tree species diversification and does provide some wildlife value.

Mineral Resource and Development Concerns and/or Restrictions

Surface sediments consist of ice-contact and glacial outwash sand and gravel and postglacial alluvium. The glacial drift thickness varies between 600 and 1,000 feet. Beneath the glacial drift is the Mississippian Coldwater Shale. The Coldwater does not have an economic use. No gravel pits are located in the area. Sand and gravel potential is considered good, but economic development may be limited by the high density of oil and gas wells in the area. This area is located in the Niagaran reef trend with many producing wells. The Antrim Shale gas play may have some limited potential. Most of the compartment is currently leased for oil and gas development. Parts of three gas storage fields are also in the compartment.

Vehicle Access:

There is good vehicle access through out the compartment with poor dirt roads and County roads. New temporary roads might need to be made into stand 41 for the hardwood thinning.

Survey Needs:

Survey work is needed in section 8 and 9 to establish the treatment boundaries.

Recreational Facilities and Opportunities:

There are a variety of recreational opportunities within this compartment. Motorized trail opportunities include: the Kalkaska ORV route (designed for vehicles 72 inches and wider), the Kalkaska ORV trail (designed for ORV's <50 inches), the Michigan Cross Country Cycle Trail (MCCCT), and the Blue Bear snowmobile and connector trail to the Jordan Valley snowmobile system. Non-motorized trail opportunities include the North Country National Scenic Trail-which runs north/south thru the center of this compartment. There is also a public boating access site located on Starvation Lake. Trail protection specifications should be included in any timber sale potentially impacting these recreational facilities. Specifically, appropriate measures identified in DNR Policy and Procedures document "32.22XX Best Management Practices for Forest and Wildlife Management Adjacent to Recreational Trails" should be taken into consideration. (T.M.N. 12/9/14).

Fire Protection:

Kalkaska DNR and Blue Lake Township Fire Department cover this compartment for fire suppression.

Additional Compartment Information:

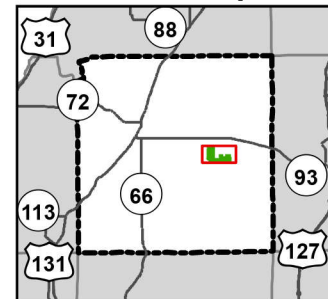
The following reports from the Inventory are attached:

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

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

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

Cover Type & Treatments Map



Compartment: 61120
T27N R06W 35
County: Kalkaska
Unit: Traverse City
Mgmt. Area: Kalkaska Sandy Moraines
YOE: 2027
Acres: 2,309 GIS Calculated
Examiner: Steve Crigier
Date Exported: 7/1/2025
Map Phase: Web Post

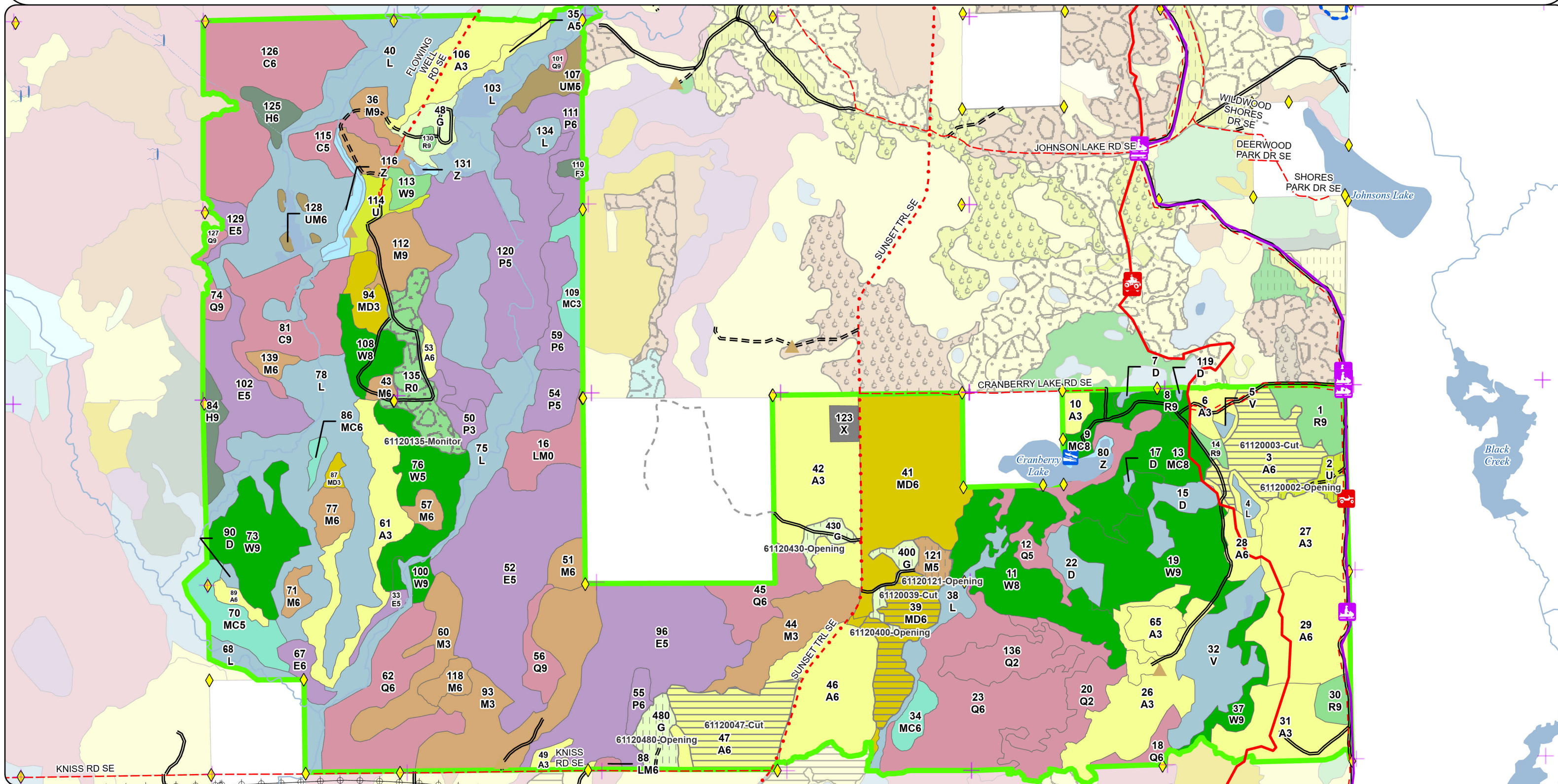
- Remonumented Section Corners
- Survey Grade Corners
- Berms
- Boating Access Site
- Culvert
- Designated ORV Routes
- Designated ATV Trails

- DNR - Secondary Forest Road
- DNR - Forest Access Route
- County - Gravel Road
- County - Dirt Road (Seasonal)
- Private - Dirt / Gravel Road
- Intermittent Stream
- Perennial River
- Lakes and Rivers

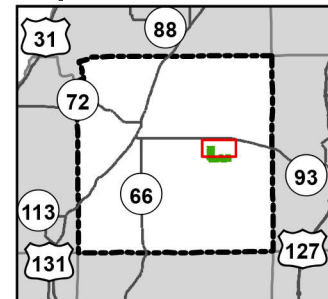
- Counties
- Powerline
- Compartment Boundary
- Clearcut
- Openings Mgmt.
- Monitoring - Regeneration
- Treatments with Site Conditions
- 411 - Northern Hardwood

- 413 - Aspen
- 419 - Mixed Upland Deciduous
- 421 - Planted Pines
- 422 - Natural Pines
- 423 - Other Upland Conifers
- 429 - Mixed Upland Conifers
- 430 - Upland Mixed Forest
- 500 - Water

- 611 - Lowland Deciduous Forest
- 612 - Lowland Coniferous Forest
- 613 - Lowland Mixed Forest
- 122 - Road/Parking Lot
- 310 - Herbaceous Openland
- 330 - Low Density Trees
- 622 - Lowland Shrub



Stand Boundary Map



Compartment: 61120
T27N R06W 35
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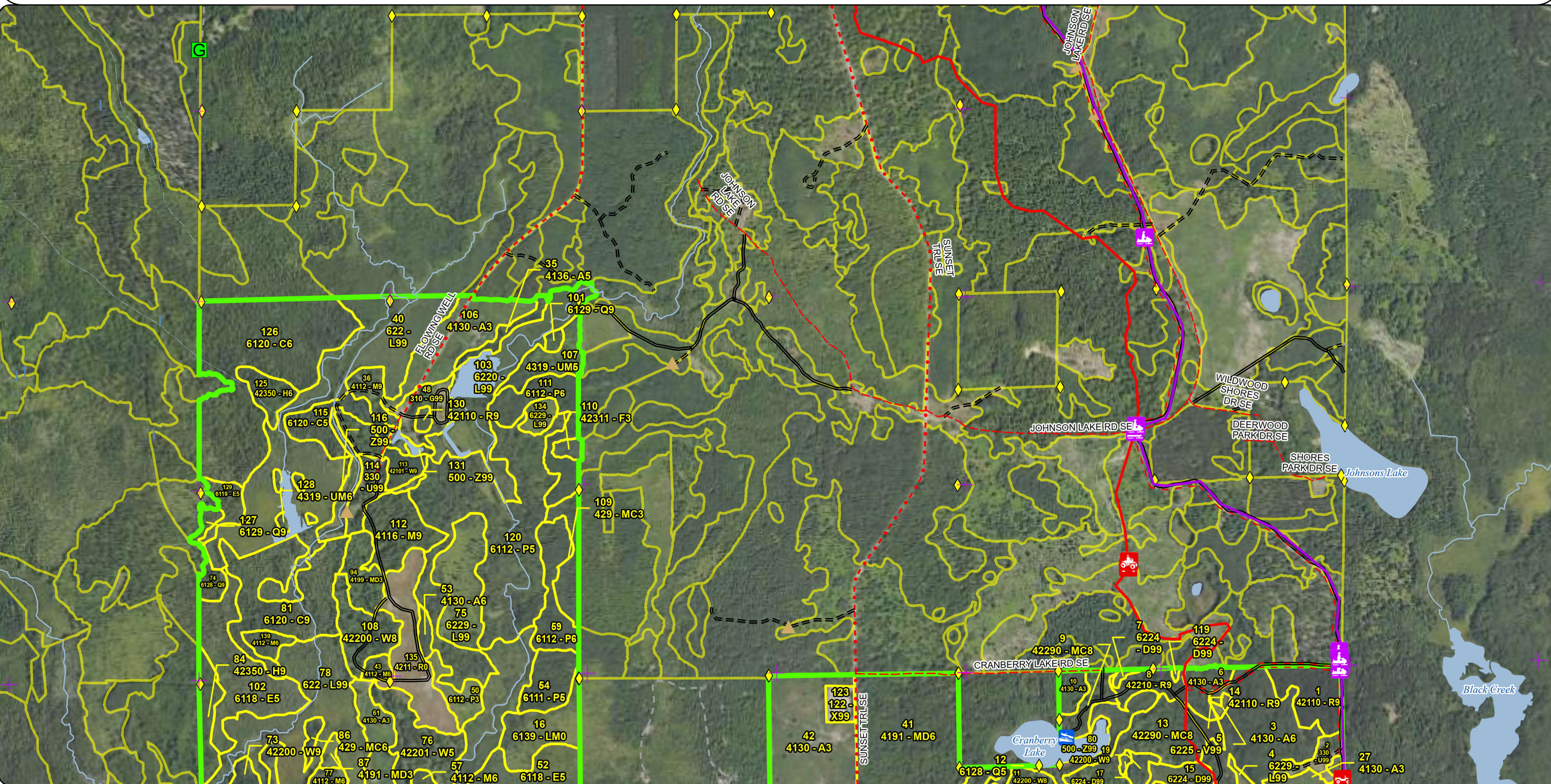
- Remonumented Section Corners
- Survey Grade Corners
- Berms
- Gate
- Boating Access Site
- Culvert

- Designated ORV Routes
- Designated ATV Trails
- DNR - Secondary Forest Road
- DNR - Forest Access Route
- County - Gravel Road
- County - Dirt Road (Seasonal)
- Private - Dirt / Gravel Road





- Intermittent Stream
- Perennial River
- Lakes and Rivers
- Counties
- Compartment Boundary
- 411 - Northern Hardwood
- 413 - Aspen

- 419 - Mixed Upland Deciduous
- 421 - Planted Pines
- 422 - Natural Pines
- 423 - Other Upland Conifers
- 429 - Mixed Upland Conifers
- 430 - Upland Mixed Forest
- 500 - Water

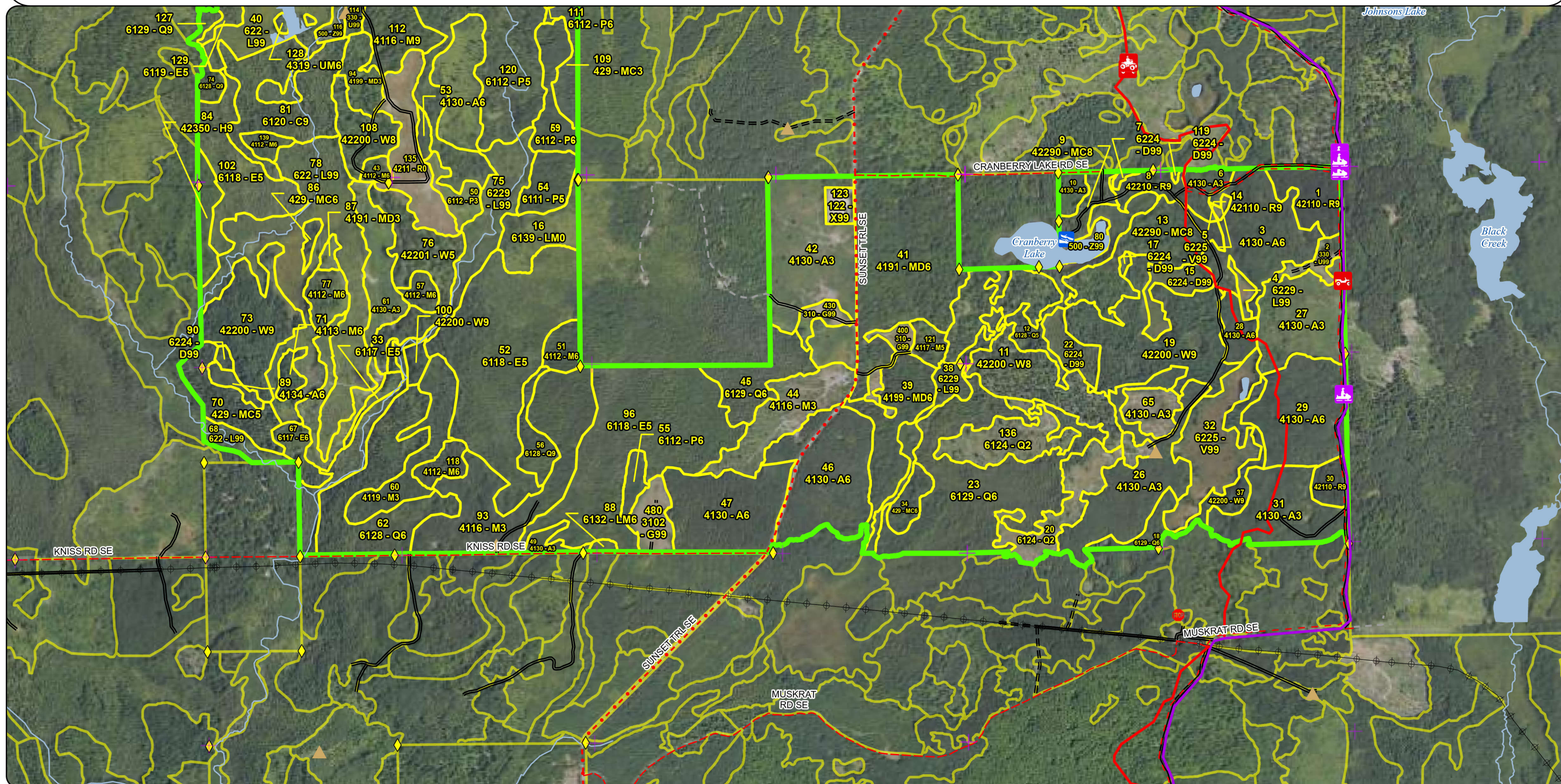
- 611 - Lowland Deciduous Forest
- 612 - Lowland Coniferous Forest
- 613 - Lowland Mixed Forest
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- 330 - Low Density Trees
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





-  Lakes and Rivers
-  Counties
-  Powerline
-  Compartment Boundary
 - 411 - Northern Hardwood
 - 413 - Aspen
 - 419 - Mixed Upland Deciduous

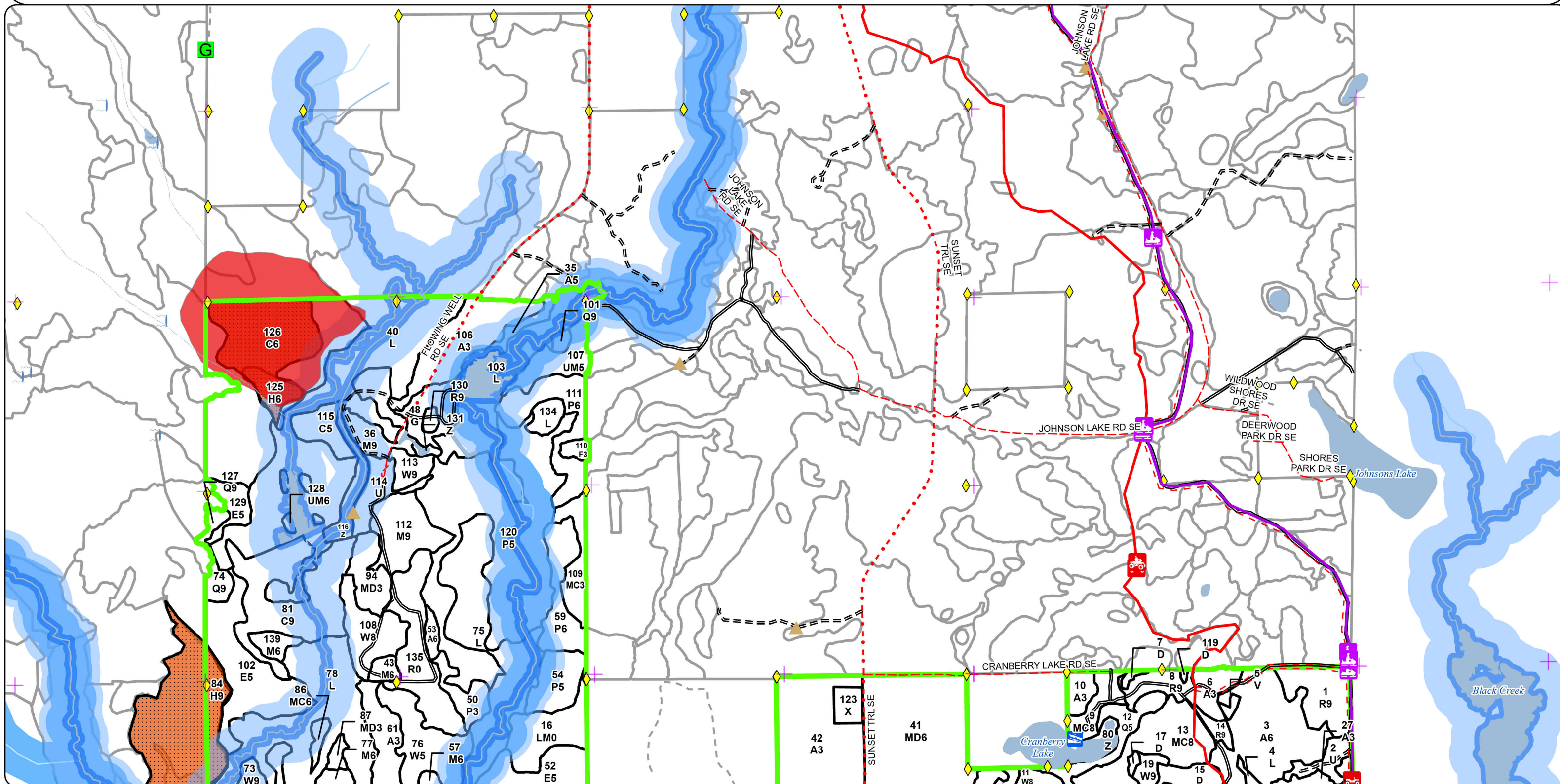
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|--------------------------------|---------------------------------|
| 421 - Planted Pines | 612 - Lowland Coniferous Forest |
| 422 - Natural Pines | 613 - Lowland Mixed Forest |
| 423 - Other Upland Conifers | 122 - Road/Parking Lot |
| 429 - Mixed Upland Conifers | 310 - Herbaceous Openland |
| 430 - Upland Mixed Forest | 330 - Low Density Trees |
| 500 - Water | 622 - Lowland Shrub |
| 611 - Lowland Deciduous Forest | |





A horizontal scale bar with a black background and white markings. It is divided into four equal segments by three vertical white lines. The first segment is solid black, the second is white, the third is solid black, and the fourth is white. Above the bar, the numbers 0, 0.5, and 1 are placed at the first, second, and third vertical lines respectively. To the right of the bar, the word "Miles" is written in black text.

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|---|------------------------------|---|-------------------------------|---|------------------------------|---|-----------------------------------|
|  | Remonumented Section Corners |  | Designated ORV Routes |  | Private - Dirt / Gravel Road |  | Ecological Reference Areas |
|  | Survey Grade Corners |  | Designated ATV Trails |  | Intermittent Stream |  | Natural Rivers Vegetative Buffer |
|  | Berms |  | DNR - Secondary Forest Road |  | Perennial River |  | Natural Rivers Zoning District |
|  | Gate |  | DNR - Forest Access Route |  | Lakes and Rivers |  | SCA |
|  | Boating Access Site |  | County - Gravel Road |  | Counties |  | Cold Water Streams |
|  | Culvert |  | County - Dirt Road (Seasonal) |  | Compartment Boundary |  | High Priority Trout Stream Buffer |
| | | | |  | Stand Boundaries |  | Other Habitat Area |



Special Conservation Areas & Site Conditions Map

Compartment: 61120
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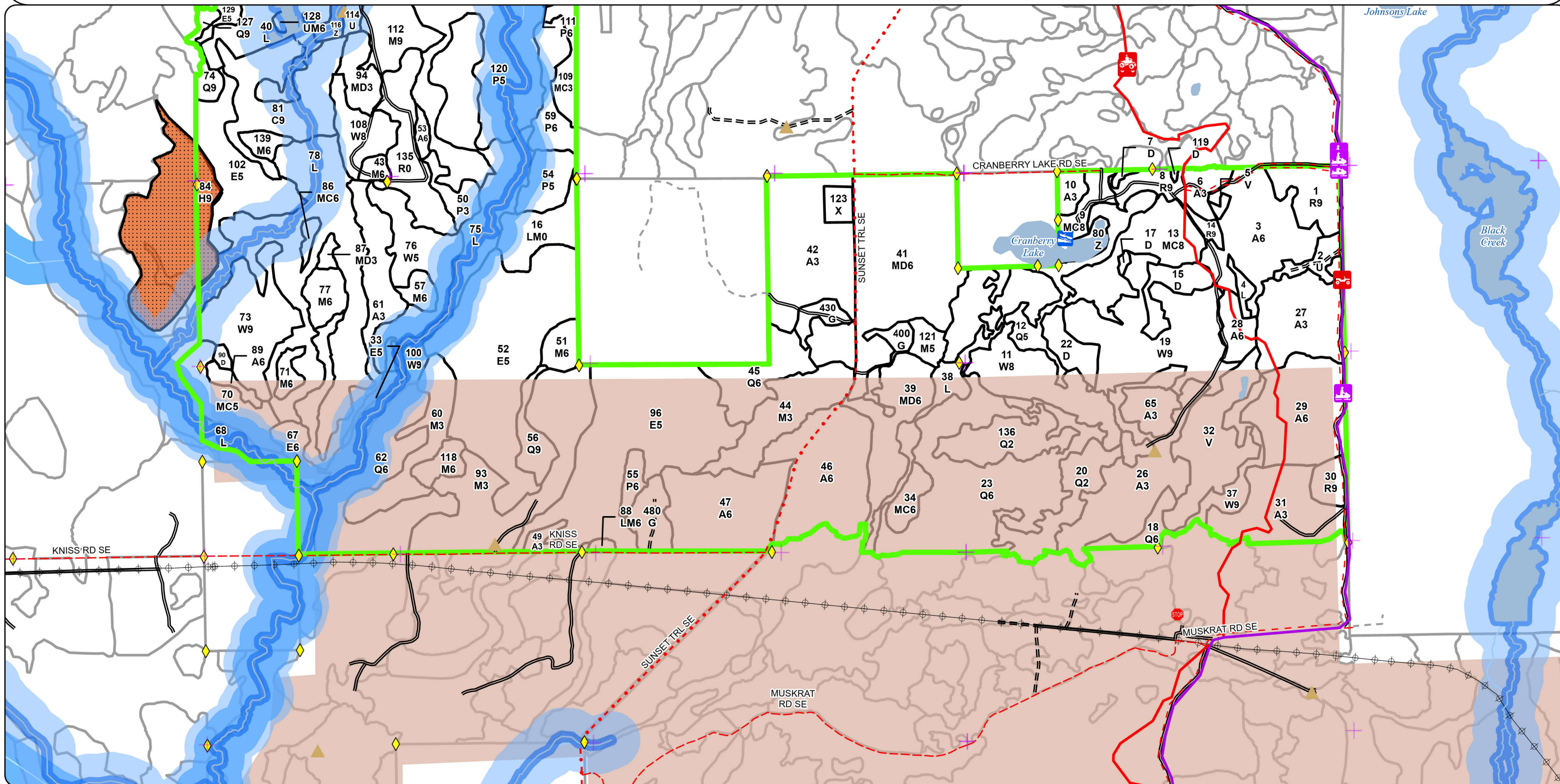
0 0.5 1 Miles

- Remonumented Section Corners
- Survey Grade Corners
- Berms
- Boating Access Site
- Sign
- Designated ORV Routes

- Designated ATV Trails
- DNR - Secondary Forest Road
- DNR - Forest Access Route
- County - Gravel Road
- County - Dirt Road (Seasonal)
- Private - Dirt / Gravel Road

- Perennial River
- Lakes and Rivers
- Counties
- Powerline
- Compartment Boundary
- Stand Boundaries
- Natural Rivers Vegetative Buffer

- Natural Rivers Zoning District
- SCA
- Cold Water Streams
- High Priority Trout Stream Buffer
- Research, Development, and Military Lands
- Other Habitat Area



Report 1 – Total Acres by Cover Type and Age Class

Traverse City Mgt. Unit

Compartment 102 Year of Entry 2027

Thomas Peterson III: Examiner

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+	Unseen-Aged	Total
Aspen	0	58	73	104	156	44	132	42	12	0	0	0	0	0	0	0	0	71	692
Bog	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6
Herbaceous Openland	35	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	35
Low-Density Trees	117	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	117
Marsh	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
Mixed Upland Deciduous	0	0	0	0	0	4	38	0	0	0	0	0	0	0	0	0	0	0	42
Northern Hardwood	0	0	0	0	44	0	0	30	644	76	0	0	0	0	0	0	0	9	803
Red Pine	0	111	118	0	0	0	13	364	19	0	0	0	0	0	0	0	0	0	624
Sand, Soil	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5
Urban	75	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	75
Water	32	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	32
White Pine	0	0	0	0	0	0	0	37	3	0	0	0	0	0	0	0	0	0	40
Total	271	169	191	104	200	48	183	473	678	76	0	0	0	0	0	0	0	80	2472

Report 2 – Treatment Summary

Traverse City Mgt. Unit
Year of Entry: 2027

Acres of Harvest

Compartment 102
Total Compartment Acres: 2,471

Commercial Harvest - 186
Harvests with Site Condition - 401
Next Step Harvest - 0
Habitat Cut - 0

Cover Type by Harvest Method

	Clearcut	Selection	Patch Clearcut	Seed Tree	Shelterwood	Thinning	Oversory Removal	Salvage	Other	Total Acres
Aspen	174	0	0	4	0	0	0	0	0	178
Northern Hardwood	0	5	0	0	0	0	0	0	0	5
Red Pine	0	0	0	0	0	236	10	0	0	245
White Pine	0	0	0	0	0	37	0	0	0	37
Total	174	5	0	4	0	273	10	0	0	466

Proposed and Next Step Treatments by Method

	Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current	466	0	0	0	47	0	0	0	0	535
Next Step	0	0	0	0	0	0	123	0	0	123
Total	466	0	0	0	47	0	123	0	0	658

Standard

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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Proposed Treatments:

59	61102059-Cut	135.4	42110 - Planted Red Pine	9	64	171-200	Harvest	Thinning	4211 - Planted Red Pine	Planting Record	No
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Prescription Specs: Thin stand down to an average basal area of 120. Follow Red Pine marking guidelines. Use snowmobile protection spec when writing up sale.

Next Step Treatments:

Acceptable Regen: Not A regeneration cut

Other Comment:

Site Condition: Survey Needed

Proposed Start Date: 10/01/2026

6	61102006-Burn	25.0	3301 - Low Density Deciduous Trees	99			Burn	Prescribed Burn	3105 - Mixed Upland Herbaceous	Previous Inventory	No
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Prescription Specs: Burn at least once per entry period. The goal of prescribed burning is to restore and/or maintain a grassland/barrens ecosystem. The timing and frequency of the burns will be based on current needs of restoration such as reducing woody encroachment or promoting grasses versus forbs. Remove exotics as needed by herbiciding or other methods. Maintain as needed with mowing, seeding of native grasses and forbs, planting native mast bearing shrubs or trees, burning, or removal of woody encroachment.

Next Step Treatments:

Acceptable Regen:

Other Comment:

Site Condition:

Proposed Start Date: 10/01/2026

9	61102009-Cut	82.6	42110 - Planted Red Pine	6	64	141-170	Harvest	Thinning	411 - Northern Hardwood	Planting Record	No
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Prescription Specs: Cut 2 rows leave 2 rows. Use oak wilt spec no exceptions to protect oak established in understory. Protect all seedlings outside the designated rows for cutting. Snowmobile protection spec should be used.

Next Step Treatments:

Acceptable Regen: Sugar maple, red oak, red maple, cherry, aspen and red pine.

Other Comment: Long term management objective of hardwoods. Goal is to minimize damage to the existing regeneration while still providing some filtered light conditions for the maple to thrive in. Follow up with an overstory removal in 10-20 yrs, by removing rest of rows.

Site Condition:

Proposed Start Date: 10/01/2026

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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
10 61102010-Burn	21.7	3301 - Low Density Deciduous Trees	99			Burn	Prescribed Burn	3105 - Mixed Upland Herbaceous	Previous Inventory	No
<u>Prescription</u> Burn this stand at least once per entry period. The goal of prescribed burning is to restore and/or maintain a grassland/barrens ecosystem. <u>Specs:</u> The timing and frequency of the burns will be based on current needs of restoration such as reducing woody encroachment or promoting grasses versus forbs. Remove exotics as needed by herbiciding or other methods. Maintain as needed with mowing, seeding of native grasses and forbs, planting native mast bearing shrubs or trees, burning, or removal of woody encroachment. <u>Next Step</u> <u>Treatments:</u> <u>Acceptable</u> <u>Regen:</u> <u>Other</u> <u>Comment:</u> <u>Site Condition:</u> <u>Proposed Start Date:</u> 10/01/2026										
17 61102017-Cut	11.9	4130 - Aspen	5	56	51-80	Harvest	Clearcut	4139 - Aspen, Mixed Deciduous	Planting Record	No
<u>Prescription</u> Clearcut stand with no retention due to small size of stand. Cut all trees down to 2 inches in DBH. Use snowmobile protection spec and drumming log spec when writing sale up. Protect any red pine seedlings that have seeded into stand from adjacent stand. Use drumming log spec. <u>Specs:</u> <u>Next Step</u> Monitoring, Natural Regen (Re-Inventory) <u>Treatments:</u> <u>Acceptable</u> Fully to moderately stocked aspen stand with any mixture of red maple, cherry or pine. <u>Regen:</u> <u>Other</u> <u>Comment:</u> <u>Site Condition:</u> <u>Proposed Start Date:</u> 10/01/2026										
48 61102048-Cut	16.8	4130 - Aspen	9	68	81-110	Harvest	Clearcut	4133 - Aspen, Mixed Pine	Planting Record	No
<u>Prescription</u> Final harvest stand with retention. Retention is mapped out in MIFI along stand 52. Follow BMP Guidelines to protect stand 52. Cut all trees down to 2 inches in DBH. Protect all pine during harvest. Use drumming log spec. <u>Specs:</u> <u>Next Step</u> <u>Treatments:</u> <u>Acceptable</u> Fully Stocked aspen stand with any mixture of red maple, cherry and white pine. <u>Regen:</u> <u>Other</u> <u>Comment:</u> <u>Site Condition:</u> Survey Needed <u>Proposed Start Date:</u> 10/01/2026										

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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
50 61102050-Cut	9.5	42110 - Planted Red Pine	8	64	111-140	Harvest	Overstory Removal	4116 - Mixed N. Hardwood - Aspen	Planting Record	No
<u>Prescription</u> Remove pine overstory from stand. Cut only aspen, cherry and red pine over 4.5 inches in DBH. Protect all merchantable maple as extra seed source. Leave retention along stand 106. Retention is already mapped in MIFI. Protect all advance regeneration. Mark to leave 10-20 red pine as seed source across the stand. <u>Specs:</u> <u>Next Step</u> <u>Treatments:</u> <u>Acceptable</u> Fully stocked stand of Maple, cherry and aspen, with small pine component. <u>Regen:</u> <u>Other</u> <u>Comment:</u> <u>Site Condition:</u> <u>Proposed Start Date:</u> 10/01/2026										
4 61102004-Cut	6.3	4130 - Aspen	6	64	111-140	Harvest	Clearcut	4139 - Aspen, Mixed Deciduous	Planting Record	No
<u>Prescription</u> Clearcut stand with no retention due to small size. Cut all trees down to 1 inch in DBH. Use drumming log spec. <u>Specs:</u> <u>Next Step</u> <u>Treatments:</u> <u>Acceptable</u> Fully Stocked Aspen Stand with any mix of maple, cherry or pine. <u>Regen:</u> <u>Other</u> <u>Comment:</u> <u>Site Condition:</u> <u>Proposed Start Date:</u> 10/01/2026										
58 61102058-Cut	3.9	4139 - Aspen, Mixed Deciduous	9	78	111-140	Harvest	Seed Tree	4139 - Aspen, Mixed Deciduous	Planting Record	No
<u>Prescription</u> Seed tree cut stand with no retention due to small size of stand. Leave an average basal area of 10 to 20 were there is no aspen present. <u>Specs:</u> Where there is aspen present clearcut those sections. Mark to leave large crown maple trees, cherry trees or white pine trees as seed source for stand. Protect all pine advance regeneration in stand during harvest. <u>Next Step</u> Monitoring, Natural Regen (Re-Inventory) <u>Treatments:</u> <u>Acceptable</u> Fully stocked stand aspen, with any mixture of maple, cherry, or pine. <u>Regen:</u> <u>Other</u> <u>Comment:</u> <u>Site Condition:</u> Survey Needed <u>Proposed Start Date:</u> 10/01/2026										

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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
100 61102100-Cut	16.1	4130 - Aspen	6	50	51-80	Harvest	Clearcut	4139 - Aspen, Mixed Deciduous	Planting Record	No
<u>Prescription</u> Final harvest stands and leave standard area retention. Retention should be left on eagle lake and is already mapped out in MIFI. Do not cut <u>Specs:</u> any white pine or oak within in stand. Protect all maple 6 inches or less in DBH during harvest. Use rec trail protection spec Use drumming log spec. <u>Next Step</u> <u>Treatments:</u> <u>Acceptable</u> Fully Stocked aspen stand with any mixture of sugar maple, red maple white pine or cherry. <u>Regen:</u> <u>Other</u> <u>Comment:</u> <u>Site Condition:</u> Survey Needed <u>Proposed Start Date:</u> 10/01/2026										
65 61102065-Cut	16.3	4139 - Aspen, Mixed Deciduous	5	68	51-80	Harvest	Clearcut	4139 - Aspen, Mixed Deciduous	Planting Record	No
<u>Prescription</u> Clearcut stand with retention. Leave retention along stand 64 and follow BMP guidelines. Retention is already mapped out.. Cut all aspen <u>Specs:</u> down to 2 inches in size. Green tree mark long lived species that are out of the road right of way to help with visual impacts of sale. Use snowmobile protection spec. <u>Next Step</u> <u>Treatments:</u> <u>Acceptable</u> Fully Stocked aspen stand with any mixture of sugar maple, red maple or cherry. <u>Regen:</u> <u>Other</u> <u>Comment:</u> <u>Site Condition:</u> Survey Needed <u>Proposed Start Date:</u> 10/01/2026										
68 61102068-Cut	5.4	4111 - S.Maple, Hard Mast Association	6	78	81-110	Harvest	Selection	4116 - Mixed N. Hardwood - Aspen	Cutting Record	No
<u>Prescription</u> Thin stand to an average basal area of 60. Remove multi stem trees first. Any part of stand there is aspen mark stand harder to promote <u>Specs:</u> aspen growth. <u>Next Step</u> Monitoring, Natural Regen (Re-Inventory) <u>Treatments:</u> <u>Acceptable</u> Aspen, Red maple sugar maple, cherry are all acceptable species. <u>Regen:</u> <u>Other</u> <u>Comment:</u> <u>Site Condition:</u> Survey Needed <u>Proposed Start Date:</u> 10/01/2026										
71 61102071-Cut	5.2	4130 - Aspen	5	52	1-50	Harvest	Clearcut	4139 - Aspen, Mixed Deciduous	Planting Record	No
<u>Prescription</u> Final harvest stands and do not leave retention do to sand being under 10 acres. Do not cut any oak within in stand. Protect all maple 6 <u>Specs:</u> inches or less in DBH during harvest. Use rec trail protection spec. <u>Next Step</u> <u>Treatments:</u> <u>Acceptable</u> Fully Stocked aspen stand with any mixture of sugar maple, red maple, cherry or oak is acceptable. <u>Regen:</u> <u>Other</u> <u>Comment:</u> <u>Site Condition:</u> <u>Proposed Start Date:</u> 10/01/2026										

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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
79 61102079-Shrub Pltg	14.3	3301 - Low Density Deciduous Trees	99			Openings Mgmt.	Openings Mgmt.	3303 - Mixed Low Density Trees	Previous Inventory	No
<u>Prescription</u> 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. <u>Specs:</u> <u>Next Step</u> <u>Treatments:</u> <u>Acceptable</u> <u>Regen:</u> <u>Other</u> <u>Comment:</u> <u>Site Condition:</u> <u>Proposed Start Date:</u> 10/01/2026										
80 61102080-Opening	4.6	310 - Herbaceous Openland	99			Openings Mgmt.	Openings Mgmt.	3105 - Mixed Upland Herbaceous	Previous Inventory	No
<u>Prescription</u> Remove exotics as needed by herbiciding, or other methods. Seed in forage crop appropriate for site location and seasonal (i.e. summer vs. winter forage) wildlife uses. May want/need to work around existing beneficial vegetation (i.e. blackberry). Maintain as needed with mowing, seeding of native grasses and forbs, fertilizing, burning, or removal of woody encroachment. <u>Specs:</u> <u>Next Step</u> <u>Treatments:</u> <u>Acceptable</u> <u>Regen:</u> <u>Other</u> <u>Comment:</u> <u>Site Condition:</u> <u>Proposed Start Date:</u> 10/01/2026										
84 61102084-Cut	81.2	4139 - Aspen, Mixed Deciduous	9	62	51-80	Harvest	Clearcut	4139 - Aspen, Mixed Deciduous	Planting Record	No
<u>Prescription</u> Final harvest stands and leave standard area retention. Retention pocket should be left were long lived hardwood species are present. Do not cut any white pine or oak within in stand. Protect all maple 6 inches or less in DBH during harvest. Use snowmobile trail protection spec. Use drumming log spec. <u>Specs:</u> <u>Next Step</u> Monitoring, Natural Regen (Re-Inventory) <u>Treatments:</u> <u>Acceptable</u> Fully Stocked aspen stand with any mixture of sugar maple, red maple or cherry. <u>Regen:</u> <u>Other</u> <u>Comment:</u> <u>Site Condition:</u> Survey Needed <u>Proposed Start Date:</u> 10/01/2026										

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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
88 61102088-Shrub Pltg	3.9	330 - Low-Density Trees	99			Openings Mgmt.	Openings Mgmt.	3303 - Mixed Low Density Trees	Previous Inventory	No
<u>Prescription</u> Plant site appropriate native shrubs, conifers, and/or mast producing trees for wildlife food and cover. May want to fertilize plantings and <u>Specs:</u> protect with wire cages or tubex. <u>Next Step</u> <u>Treatments:</u> <u>Acceptable</u> <u>Regen:</u> <u>Other</u> <u>Comment:</u> <u>Site Condition:</u> <u>Proposed Start Date:</u> 10/01/2026										
98 61102098-Cut	37.3	42100 - Planted White Pine	6	65	141-170	Harvest	Thinning	411 - Northern Hardwood	Planting Record	No
<u>Prescription</u> Cut 2 rows leave 2 rows. Use oak wilt spec no exceptions to protect oak established in understory. Protect all seedlings outside the <u>Specs:</u> designated rows for cutting. Snowmobile protection spec should be used. <u>Next Step</u> <u>Treatments:</u> <u>Acceptable</u> Sugar maple, red oak, red maple, cherry, aspen and white pine. <u>Regen:</u> <u>Other</u> Long term management objective of hardwoods. Goal is to minimize damage to the existing regeneration while still providing some filtered <u>Comment:</u> light conditions for the maple to thrive in. Follow up with an overstory removal in 10-20 yrs, by removing rest of rows. <u>Site Condition:</u> Survey Needed <u>Proposed Start Date:</u> 10/01/2026										
54 61102054-Cut	20.1	4130 - Aspen	5	56	51-80	Harvest	Clearcut	4139 - Aspen, Mixed Deciduous	Planting Record	No
<u>Prescription</u> Clearcut stand leave standard area retention in stand. Cut all trees down to 2 inches in DBH. Use snowmobile protection spec and <u>Specs:</u> drumming log spec when writing sale up. <u>Next Step</u> Monitoring, Natural Regen (Re-Inventory) <u>Treatments:</u> <u>Acceptable</u> Fully Stocked aspen stand with any mixture of red maple or cherry. <u>Regen:</u> <u>Other</u> <u>Comment:</u> <u>Site Condition:</u> <u>Proposed Start Date:</u> 10/01/2026										

Approved Treatments:

37 61102037-Cut	17.5	42110 - Planted Red Pine	6	65	111-140	Harvest	Thinning	4211 - Planted Red Pine	Planting Record	No
<u>Prescription</u> Ice Storm Damage Salvage Harvest. Cut all trees damaged from the recent ice storm. Cut all tops up that are laying on ground. <u>Specs:</u> <u>Next Step</u> <u>Treatments:</u> <u>Acceptable</u> <u>Regen:</u> <u>Other</u> <u>Comment:</u> <u>Site Condition:</u>										

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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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Proposed Start Date: 05/01/2025

Total Treatment
Acreage Proposed: 535

Report 4 – Site Conditions

Compartment: 102
Year of Entry: 2027



Traverse City Mgt. Unit

Thomas Peterson III: Examiner

Availability for Management

Total Acres	Acres Available	Acres With Condition	Acres Not Available
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Dominant Site Conditions

2I	5B	3D	3J	5E
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676	538	121	17	Aspen	121			12	4
6	6	0	0	Bog					
35	35	0	0	Herbaceous Openland					
117	117	0	0	Low-Density Trees					
1	1	0	0	Marsh					
43	43	0	0	Mixed Upland Deciduous					
802	729	73	0	Northern Hardwood	5	68			
614	471	135	8	Red Pine	135		6		3
5	5	0	0	Sand, Soil					
75	75	0	0	Urban					
32	32	0	0	Water					
41	0	37	3	White Pine	37			3	
2,447	2,052	367	28	Total Forested Acres	299	68	6	16	7
	84%	15%	1%	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	Available	2I: Survey needed	16	Unspecified	Unspecified	Unspecified	Unspecified	Unspecified
Comments:								
2	Unavailable	3J: Water quality/BMPs (stream, river, or lake)	10	3A: Conservation values incompatible with harvest at this time	Unspecified	Unspecified	Unspecified	Unspecified
Comments:								
Buffer for Eagle Lake. Is mostly on a bluff. Also contains an access site.								

Report 4 – Site Conditions

Compartment: 102
Year of Entry: 2027



Traverse City Mgt. Unit
Thomas Peterson III: Examiner

3	Unavailable	3J: Water quality/BMPs (stream, river, or lake)	7	3A: Conservation values incompatible with harvest at this time	Unspecified	Unspecified	Unspecified
Comments:							
4	Available	2I: Survey needed	37	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
5	Available	2I: Survey needed	71	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
6	Available	2I: Survey needed	135	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
7	Unavailable	3J: Water quality/BMPs (stream, river, or lake)	1	Unspecified	Unspecified	Unspecified	Unspecified
Comments: This area is hilly and is along a powerline cooridor and is just not a good place to try and maintain a red pine plantation with all the vernal ponds as well. In the future can be managed for natural regen.							
8	Unavailable	3J: Water quality/BMPs (stream, river, or lake)	1	Unspecified	Unspecified	Unspecified	Unspecified
Comments: This area is hilly and is along a powerline cooridor and is just not a good place to try and maintain a red pine plantation with all the vernal ponds as well. In the future can be managed for natural regen.							
9	Unavailable	5E: Long-Term Retention	2	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

Compartment: 102
Year of Entry: 2027



Traverse City Mgt. Unit
Thomas Peterson III: Examiner

10	Available	2I: Survey needed	15	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
11	Unavailable	5E: Long-Term Retention	2	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
12	Unavailable	3D: Recreational/scenic values	6	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Boat landing for Starvation lake.							
13	Unavailable	3J: Water quality/BMPs (stream, river, or lake)	3	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
14	Available	2I: Survey needed	16	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
15	Unavailable	5E: Long-Term Retention	3	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
16	Available	2I: Survey needed	5	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

Compartment: 102
Year of Entry: 2027



Traverse City Mgt. Unit

Thomas Peterson III: Examiner

17	Unavailable	5E: Long-Term Retention	1	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
18	Available	2I: Survey needed	4	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
19	Available	5B: Maintain for regeneration purposes	68	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Mgt. Unit

Compartment: #Type!

Year of Entry:

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

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

SCA Name	SCA Category	Detail Type	Recommendation	Acres
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Comments

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments		
1	4130 - Aspen	Poletimber Well	12.5	36	1-50	N/A	2025 - Stand transitioned to pole stand this year of entry. 1989 - Stand was final harvested under 'North Crooked Lake Sale' (Sale #61-006-88).		
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density		Avg. Height	Size
Black Cherry	10	Pole	3		Witch Hazel	Medium		5 - 10 feet	5 - 10 feet
Bigtooth Aspen	90	Sapling	5	36					
2	4116 - Mixed N. Hardwood - Aspen	Sawtimber Well	9.0	62	51-80	N/A	2025 - There are aspen clones throughout stand. Hardwood is clumpy low quality. Lots of desirable advance regeneration.		
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density		Avg. Height	Size
Red Oak	2		8		Black Cherry	Low		10 - 20 feet	10 - 20 feet
Black Cherry	15		12		Ironwood	Low		10 - 20 feet	10 - 20 feet
Sugar Maple	15		12		Beech	Low		Variable	Variable
Red Maple	43		14	62	Sugar Maple	Low		Variable	Variable
Bigtooth Aspen	25		10	62	Red Maple	High		Variable	Variable
3	4130 - Aspen	Poletimber Medium	22.2	46	51-80	N/A	2025 - Poor quality aspen stand off site aspen. Hold stand to avoid green up issues this YOE.		
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density		Avg. Height	Size
Bigtooth Aspen	80	Seedling	7	46	Black Cherry	Medium		10 - 20 feet	10 - 20 feet
Black Cherry	20	Seedling	7		Quaking Aspen	Low		5 - 10 feet	5 - 10 feet
4	4130 - Aspen	Poletimber Well	6.3	64	111-140	N/A	2025 - Fully stocked aspen stand.2007 - Stand was thinned under timber sale ' Starvation Lake Pine' (Sale #61-085-07).2007 - Stand was third row thinned under timber sale ' Starvation Lake Pine' (Sale #61-085-07).		
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density		Avg. Height	Size
Red Pine	10	Seedling	8	64	Black Cherry	Medium		10 - 20 feet	10 - 20 feet
Bigtooth Aspen	90	Seedling	9	64	Sugar Maple	Low		5 - 10 feet	5 - 10 feet
					Red Maple	Low		5 - 10 feet	5 - 10 feet
					Quaking Aspen	Medium		5 - 10 feet	5 - 10 feet
					Beech	Medium		5 - 10 feet	5 - 10 feet
					Red Oak	Low	5 - 10 feet	5 - 10 feet	
5	710 - Sand, Soil	Unspecifed	3.0				2025 - Active Well Site		
6	3301 - Low Density Deciduous Trees	Unspecifed	25.0			Yes	2025 - Scattered Black Cherry Trees throughout stand.		
7	42110 - Planted Red Pine	Unspecifed	55.9	4	Immature	N/A	2024 - Stand passed year 3 regeneration check on 10/3/2024. Stand has an estimated 764 TPA that are 99% free to grow.2022 - Stand has passed its year 1 regeneration check on 10/25/2024. Stand has an estimated 832 TPA that are 99% free to grow.2022 - Stand was planted to red pine 5/14/20242021 - Stand was site prep sprayed2020 - Stand was trenched to plant red pine.2018 - Stand was final harvested under sale name 'Confusing Corners Mix' 61-132-17-01.		
Canopy Species	% Cover	Size Class	DBH	Age					
Red Pine	98	Log	1	4					
Black Cherry	1	Log	1	4					
Quaking Aspen	1	Log	1	4					

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments		
8	4130 - Aspen	Poletimber Well	18.1	57	51-80	N/A	2025 - Stand has a lot of desirable regeneration at this time. Remove overstory next YOE or allow stand to run its course and naturally convert to hardwoods.		
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density		Avg. Height	Size
Black Cherry	10		12		Sugar Maple	Low		5 - 10 feet	5 - 10 feet
Red Maple	10	Seedling	8		Red Maple	Low		5 - 10 feet	5 - 10 feet
Bigtooth Aspen	75	Seedling	8	57	Beech	Low		Variable	Variable
Basswood	5		10		Ironwood	Low		5 - 10 feet	5 - 10 feet
9	42110 - Planted Red Pine	Poletimber Well	82.6	64	141-170	N/A	2025 - Stand is sitting around an average basal area of 160. Stand has fully stocked hardwood understory. . 2007 - Stand was thinned under timber sale ' Starvation Lake Pine' (Sale #61-085-07).2007 - Stand was third row thinned under timber sale ' Starvation Lake Pine' (Sale #61-085-07).		
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density		Avg. Height	Size
Red Pine	100		11	64	Black Cherry	Medium		10 - 20 feet	10 - 20 feet
					Sugar Maple	Medium		5 - 10 feet	5 - 10 feet
					Red Maple	Medium		5 - 10 feet	5 - 10 feet
					Bigtooth Aspen	Medium		5 - 10 feet	5 - 10 feet
					Ironwood	Medium		5 - 10 feet	5 - 10 feet
					Beech	Medium		5 - 10 feet	5 - 10 feet
					Red Oak	Medium		5 - 10 feet	5 - 10 feet
10	3301 - Low Density Deciduous Trees	Unspecifed	21.7			Yes	2025 - Scattered Black Cherry trees throughout stand.		
11	710 - Sand, Soil	Unspecifed	2.1				2025 - Active well site.		
12	4130 - Aspen	Sawtimber Well	7.8	78	81-110	N/A	2025 - Retention for MacNeil Pond and long term retention for stand 72.		
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density		Avg. Height	Size
Red Maple	35	Seedling	8		Red Maple	Medium		5 - 10 feet	5 - 10 feet
Paper Birch	5	Seedling	8		Beech	Low		5 - 10 feet	5 - 10 feet
Bigtooth Aspen	60		10	78					
13	3104 - Degraded	Unspecifed	2.1				2025 - One pipe sticking out of ground in center of well pad. No other equipment on site during inventory.		
14	3301 - Low Density Deciduous Trees	Unspecifed	6.0			Yes	2025 - Scattered cherry throughout stand. Stand has some topography.		
15	42200 - Natural White Pine	Sawtimber Well	3.3	78	81-110	N/A	2025 - Entire stand slopes down to stand 64. Do not harvest stand do to BMP's and erosion issues it will cause for open water.		
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density		Avg. Height	Size
Red Pine	10		11		White Pine	Medium		5 - 10 feet	5 - 10 feet
White Pine	85		11	78					
Bigtooth Aspen	5	Seedling	8						

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																								
16	4130 - Aspen	Sapling Well	41.5	27	Immature	N/A	2025 - Fully Stocked aspen stand. Should be pole stand next YOE.																																								
<table><tr><th>Canopy Species</th><th>% Cover</th><th>Size Class</th><th>DBH</th><th>Age</th></tr><tr><td>Black Cherry</td><td>10</td><td>Log</td><td>2</td><td></td></tr><tr><td>Red Maple</td><td>5</td><td>Log</td><td>2</td><td></td></tr><tr><td>Bigtooth Aspen</td><td>85</td><td>Log</td><td>2</td><td>27</td></tr></table>			Canopy Species	% Cover	Size Class	DBH	Age	Black Cherry	10	Log	2		Red Maple	5	Log	2		Bigtooth Aspen	85	Log	2	27	<table><tr><th>Sub-Canopy Species</th><th>Density</th><th>Avg. Height</th><th>Size</th></tr><tr><td>Witch Hazel</td><td>Medium</td><td>5 - 10 feet</td><td>5 - 10 feet</td></tr></table>				Sub-Canopy Species	Density	Avg. Height	Size	Witch Hazel	Medium	5 - 10 feet	5 - 10 feet													
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17	4130 - Aspen	Poletimber Medium	11.9	56	51-80	N/A	2025 - Stand is poorly stocked. Final Harvest stand to try to expand aspen component throughout stand.																																								
<table><tr><th>Canopy Species</th><th>% Cover</th><th>Size Class</th><th>DBH</th><th>Age</th></tr><tr><td>Black Cherry</td><td>15</td><td>Seedling</td><td>6</td><td></td></tr><tr><td>Quaking Aspen</td><td>70</td><td>Seedling</td><td>7</td><td>56</td></tr><tr><td>Red Maple</td><td>5</td><td>Seedling</td><td>6</td><td></td></tr><tr><td>Bigtooth Aspen</td><td>10</td><td>Seedling</td><td>7</td><td></td></tr></table>			Canopy Species	% Cover	Size Class	DBH	Age	Black Cherry	15	Seedling	6		Quaking Aspen	70	Seedling	7	56	Red Maple	5	Seedling	6		Bigtooth Aspen	10	Seedling	7		<table><tr><th>Sub-Canopy Species</th><th>Density</th><th>Avg. Height</th><th>Size</th></tr><tr><td>Black Cherry</td><td>Medium</td><td>5 - 10 feet</td><td>5 - 10 feet</td></tr><tr><td>Quaking Aspen</td><td>Low</td><td>5 - 10 feet</td><td>5 - 10 feet</td></tr><tr><td>Witch Hazel</td><td>Low</td><td>5 - 10 feet</td><td>5 - 10 feet</td></tr></table>				Sub-Canopy Species	Density	Avg. Height	Size	Black Cherry	Medium	5 - 10 feet	5 - 10 feet	Quaking Aspen	Low	5 - 10 feet	5 - 10 feet	Witch Hazel	Low	5 - 10 feet	5 - 10 feet
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Witch Hazel	Low	5 - 10 feet	5 - 10 feet																																												
18	42110 - Planted Red Pine	Poletimber Well	4.1	64	111-140	N/A	2025 - Stand has fully stocked understory at this time. Thin stand when stand 55 is ready to thin again. 2007 - Stand was thinned under timber sale ' Starvation Lake Pine' (Sale #61-085-07).2007 - Stand was third row thinned under timber sale ' Starvation Lake Pine' (Sale #61-085-07).																																								
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19	4130 - Aspen	Sapling Well	6.0	17	Immature	N/A	2025 - Fully Stocked Aspen stand. 2008 - Stand was final harvested under timber sale 'Starvation Lake Aspen' (61-092-07).																																								
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22	4130 - Aspen		65.6	36	51-80	N/A	2025 - A few scattered oak in stand. Lots of maple under aspen at this time. 1989 - Stand was final harvested under sale name 'Starvation Lake' (Sale #61-009-88																																								
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																				
23	4130 - Aspen		15.5	17	Immature	N/A	2025 - Fully stocked aspen stand at this time.2008 - Stand was final harvested under timber sale 'Starvation Lake Aspen' (61-092-07).																																				
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24	4130 - Aspen	Poletimber Medium	7.8	42	1-50	N/A	2025 - Stand has some pole size aspen and some saplings size aspen. Poor quality cherry and aspen. A few vernal ponds scattered in the southwestern portion of the stand.																																				
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25	4116 - Mixed N. Hardwood - Aspen		29.8	68	1-50	N/A	2025 - Basal area varies from across stand from 0 -100. There are several aspen clones scattered throughout stand. Maple clumpy poor quality. Cherry more open grown and lower stocking in these areas.																																				
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26	4130 - Aspen		22.2	36	1-50	N/A	2025 - Stand has ironwood, maple and black cherry under aspen. Ironwood does dominate a few areas in stand. 1989 - Stand was final harvested under 'Blue Lake Trail' (Sale #61-057-87).																																				
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27	4130 - Aspen	Sapling Well	10.9	35	1-50	N/A	2025 - Stand transitioned into pole stand this year of entry.																																				
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29	4130 - Aspen	Sapling Well	13.5	27	Immature	N/A	2025 - A couple openings in stand. Stand has some topography. Were aspen is dominate it is fully stocked.																																				
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30	122 - Road/Parking Lot	Unspecifed	2.2				2025 - Active Well Site																																				
32	4130 - Aspen		14.1	37	51-80	N/A	2025 - Stand has a few open areas in it. Aspen should expand in to these after a final harvest. 1988 - Stand was final harvested under timber sale 'Conversion' (Sale# 61-050-87)																																				
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Stand	Level 4 Cover Type	Size Density		Acres	Stand Age	BA Range	Managed Site	General Comments		
33	42110 - Planted Red Pine			39.0	65	111-140	N/A	2025 - Stands has average basal area of 130 at this time. Stand has one die back pocket. Diameters still relatively small for this age of red pine.2020 - Stand was third row thinned under timber sale name CO2 Crazy Red Pine (61-132-17).		
Canopy Species		% Cover	Size Class	DBH	Age					
Red Pine		100	Seedling	8	65					
34	4119 - Mixed Northern Hardwoods			43.8	37	1-50	N/A	2025 - Some very large scattered red oak throughout stand. Stand has several aspen clones throughout it. Still a couple larch from original planting alive in stand. See below for stand history. 2005 - 12/13/2005 This is a proposed old growth area. (Grieve) 3/23/05 Old experimental cut. This was first a clear cut of marginal hardwoods to see if European larch could be planted and out grow the sprout hardwoods. (Two larches were planted. One of Polish extraction & a hybrid between European & Japanese larch) About a week after the larch was planted a late killer frost killed almost all of the planting. With the experiment a failure before it even started, the next year oak acorns were planted. (Grieve) 1994 PLANTED TO UNRCH,OAK& HYBREDASPEN (Byres)		
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density		Avg. Height	Size
Red Oak		20	Sapling	5		Ironwood	Medium		Variable	Variable
Red Oak		2		24		White Pine	Low		< 5 feet	< 5 feet
White Pine		2		14						
Black Cherry		25	Sapling	5	37					
Sugar Maple		15	Sapling	5	37					
Red Maple		21	Sapling	5						
Bigtooth Aspen		15	Sapling	5						
35	3104 - Degraded			3.4					2025 - Active well Site	
36	4112 - Maple, Beech, Cherry Association			60.8	72	51-80	N/A	2025 - Stand has several aspen clones throughout it. Timber is poorer quality hardwoods. Stand is still pole size with very little to no saw logs at this time. Stand has rolling terrain.		
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density		Avg. Height	Size
Ironwood		5	Seedling	6		Beech	Medium		5 - 10 feet	5 - 10 feet
Sugar Maple		40	Seedling	7	72	Ironwood	Medium		5 - 10 feet	5 - 10 feet
Red Maple		35	Seedling	7						
Bigtooth Aspen		10		12						
Beech		10	Seedling	7						
37	42110 - Planted Red Pine	Poletimber Well		16.4	65	111-140	N/A	2025 - Stand has an average basal area of around 130 at this time. Stands understory starting to fill in.2020 - Stand was row thinned in 2020.		
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density		Avg. Height	Size
Red Pine		100	Seedling	8	65	Red Maple	Low		5 - 10 feet	5 - 10 feet
						Beech	Low	< 5 feet	< 5 feet	
38	4133 - Aspen, Mixed Pine	Poletimber Medium		7.7	30	1-50	N/A	2025 - Stand has aspen clones throughout it. Larger white pine scattered in stand. Opening areas filling in with pine. Stand could transition into white pine stand next YOE.		
Canopy Species		% Cover	Size Class	DBH	Age					
Bigtooth Aspen		45	Log	3	30					
White Pine		15		16						
White Pine		15	Log	1						
Black Cherry		25	Pole	4						
39	4130 - Aspen	Sapling Well		15.9	27	Immature	N/A	2025 - Fully stocked aspen stand.		
Canopy Species		% Cover	Size Class	DBH	Age					
Bigtooth Aspen		80	Log	3	27					
Black Cherry		10	Log	2						
Beech		10	Log	2						

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																					
40	4130 - Aspen	Sapling Well	11.8	27	Immature	N/A	2025 - Aspen stand with some ironwood in it.																																					
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41	4112 - Maple, Beech, Cherry Association	Poletimber Well	375.6	78	51-80	N/A	2025 - Beech is starting to fill in the understory. No desirable regeneration outside of aspen at this time. Stands basal area is sitting at an average of around 84.2022 - Stand was thinned under timber sale Lake Effect Hardwoods (Sale # 61-104-17).2015 -QD plots were taken on this stand in 2013 for recon on beech and ash volumes. Average BA is 117sqft/ac, 12 cords/ac & 3.5 mbf/ac = total of 19 cords per/ac. Stand has some hilly terrain and was previously in a proposed old growth area.																																					
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42	4130 - Aspen	Poletimber Well	3.3	27	1-50	N/A	2025 - Stand transitioned to pole stand this YOE.																																					
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44	500 - Water	Unspecifed	26.2			No	2025 - Eagle Lake.																																					
45	500 - Water	Unspecifed	3.0			No	2025 - McNeil's Pond																																					
48	4130 - Aspen		19.3	68	81-110	N/A	2025 - Stand has private one side and bog on other side.																																					
<table><tr><th>Canopy Species</th><th>% Cover</th><th>Size Class</th><th>DBH</th><th>Age</th></tr><tr><td>Red Maple</td><td>18</td><td></td><td>12</td><td></td></tr><tr><td>Bigtooth Aspen</td><td>72</td><td></td><td>11</td><td>68</td></tr><tr><td>White Pine</td><td>10</td><td></td><td>12</td><td></td></tr></table> <table><tr><th>Sub-Canopy Species</th><th>Density</th><th>Avg. Height</th><th>Size</th></tr><tr><td>White Pine</td><td>Low</td><td>5 - 10 feet</td><td>5 - 10 feet</td></tr></table>								Canopy Species	% Cover	Size Class	DBH	Age	Red Maple	18		12		Bigtooth Aspen	72		11	68	White Pine	10		12		Sub-Canopy Species	Density	Avg. Height	Size	White Pine	Low	5 - 10 feet	5 - 10 feet									
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49	4130 - Aspen		22.4	37	51-80	N/A	2025 - Stand Transitioned to pole size stand this YOE.1989 - Stand was final harvested under timber sale 'McNeils Pond' (Sale #61-002-88).																																					
<table><tr><th>Canopy Species</th><th>% Cover</th><th>Size Class</th><th>DBH</th><th>Age</th></tr><tr><td>Bigtooth Aspen</td><td>100</td><td>Seedling</td><td>7</td><td>37</td></tr></table>								Canopy Species	% Cover	Size Class	DBH	Age	Bigtooth Aspen	100	Seedling	7	37																											
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																												
50	42110 - Planted Red Pine		10.6	64	111-140	N/A	2025 - Stand has fully stocked understory across most of stand.																																												
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51	42111 - Planted Red Pine, Mixed Deciduous	Sapling Well	15.0	15	Immature	N/A	2013 Stand was released sprayed 2012 Stand was planted 2011 - Stand was Trenched2010 - Stand was final harvested under timber sale ' Starvation Lake Pine' (Sale #61-085-07).																																												
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Quaking Aspen	10	Log	1																																																
52	6225 - Bog		5.6			No	2025 - Leatherleaf bog no trees in center of bog																																												
53	42110 - Planted Red Pine		68.6	64	111-140	N/A	2025 - Stand is currently sitting at an average basal area of 133 at this time. Basal area ranged from 90 to 170. Stand seemed to have a lot of aspen cut out of stand on east side. 2007 - Stand was third row thinned under timber sale ' Starvation Lake Pine' (Sale #61-085-07).																																												
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54	4130 - Aspen	Poletimber Medium	20.1	56	51-80	N/A	2025 - Poor quality aspen stand. Final harvest stand to expand aspen clones.																																												
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55	42110 - Planted Red Pine	Sawtimber Well	18.7	72	111-140	N/A	2025 - Stand is currently sitting at an average basal area of 125.																																												
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56	4130 - Aspen	Sapling Well	5.3	17	Immature	N/A	2025 - Fully Stocked aspen stand. Snowmobile trailhead parking lot is in center of stand.2008 - Stand was final harvested under timber sale 'Starvation Lake Aspen' (61-092-07).																																														
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58	4139 - Aspen, Mixed Deciduous		3.9	78	111-140	N/A	2025 - East / west portion of stand is more hardwoods. North / south part of stand is more aspen / cherry																																														
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59	42110 - Planted Red Pine	Poletimber Well	135.4	64	171-200	N/A	2025 - Stand has an average basal area of 190 at this time. No understory in east half of stand. Western part of stand has a full understory. Planted with stand 9, red pine has higher stocking in this stand. 2007 - Stand was thinned under timber sale ' Starvation Lake Pine' (Sale #61-085-07).2007 - Stand was third row thinned under timber sale ' Starvation Lake Pine' (Sale #61-085-07).																																														
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61	122 - Road/Parking Lot	Unspecifed	9.2				2025 - Used by gas and oil facility fenced off																																														
62	4191 - Mixed Upland Deciduous with Conifer	Poletimber Poor	4.1	40	1-50	N/A	2025 - Lots of pine seeding into stand. Pine is starting to out compete aspen in stand.																																														
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63	3104 - Degraded	Unspecifed	2.9				2025 - Active well site.																																														
64	500 - Water	Unspecifed	2.2			No	2025 - Small pond.																																														

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																
65	4139 - Aspen, Mixed Deciduous	Poletimber Medium	16.3	68	51-80	N/A	2025 - Stand is between snowmobile trail and Starvation Lk Rd. Some scattered log sized trees. Stocking is variable.																																																
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66	3303 - Mixed Low Density Trees	Unspecifed	3.0			Yes	2025 -Scattered Black Cherry Trees.																																																
68	4111 - S.Maple, Hard Mast Association		5.4	78	81-110	N/A	2025 - Stand has a lot of multiple stems poor quality trees. Stand Has an old railroad grade running through it.																																																
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69	42111 - Planted Red Pine, Mixed Deciduous		4.5	50	81-110	N/A	2025 - Stand is long term Retention pockets for stand 70.																																																
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70	42111 - Planted Red Pine, Mixed Deciduous	Sapling Well	103.1	13	Immature	N/A	2025. Stand does have some competition in spots. Stand is still free to grow bout 10 foot tall t this time2013 - Stand was released sprayed2012 Stand was planted in spring2011 - Stand was trenched to plant red pine 2010 - Stand was final harvested under timber sale ' Starvation Lake Pine' (Sale #61-085-07).																																																
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71	4130 - Aspen	Poletimber Medium	5.2	52	1-50	N/A	2025 - Aspen overstory with decent amount of maple coming in under aspen.																																																
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72	4130 - Aspen	Sapling Well	10.4	7	Immature	N/A	2025 - Stand passed natural regeneration monitoring treatment.																																																							
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73	4130 - Aspen	Poletimber Well	57.5	56	51-80	N/A	2025 - Nice quality Aspen stand. North side has desirable understory in it. Hold stand for 10 years and then clearcut.																																																							
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76	4110 - Sugar Maple Association	Sawtimber Well	67.7	88	111-140	N/A	2025 - Stand is currently sitting at an average basal area of 132. Stand is high quality hardwoods.2008 - Stand was thinned under Starvation Lake Road Hardwoods (Sale# 61-059-07).																																																							
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77	4130 - Aspen	Sapling Well	47.6	6	Immature	N/A	2025 - Stand passed it natural regeneration treatment. Stand is fully stocked.2019 - Stand was final harvested under timbe sale 'Shoot Chute Aspen' (Sale #61-138-17).																																																							
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78	4112 - Maple, Beech, Cherry Association	Sawtimber Well	44.7	78	81-110	N/A	2025 - Stand has average basal area of 100 at this time. Stand has large oaks scattered throughout it.2013 - Stand was thinned under sale 'Sun-Beech Hardwoods' (Sale # 61- 050-13).																																																							
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79	3301 - Low Density Deciduous Trees	Unspecifed	14.3			Yes	2025 - Opening is filling there are scattered aspen clones, black cherry, oak and red maple																																																							
80	310 - Herbaceous Openland	Unspecifed	4.6			Yes	2025 - Stand has a Couple black cherry trees scattered throughout it.																																																							
82	330 - Low-Density Trees	Unspecifed	6.5			Yes	2025 - Several aspen clones in stand. Opening is starting to fill.																																																							

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																					
83	4112 - Maple, Beech, Cherry Association	Sawtimber Well	7.8	82	51-80	N/A	2025 - A small pocket of nice hardwoods amongst the large aspen stand.2020 Stand was thinned in 2020 'Shoot Chute Aspen'. Residual BA is around 80sqft/ac																																																					
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84	4139 - Aspen, Mixed Deciduous	Sawtimber Well	70.8	62	51-80	N/A	2025 - Aspen clones spread throughout stand. Hardwood is clumpy low quality. Lots of desirable advance regeneration.																																																					
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85	122 - Road/Parking Lot	Unspecifed	2.7			Yes	2025 - Pflum Road																																																					
86	42110 - Planted Red Pine	Sawtimber Well	7.5	50	111-140	N/A	2025 - Stand is currently sitting around an average basal area of 130 at this time.2020 - Stand was thinned for second time under timber sale: Shoot Chute Aspen (61-138-17).2005 - Stand was third row thinned.																																																					
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87	3301 - Low Density Deciduous Trees	Unspecifed	9.8			Yes	2025 - Opening is filling in with scattered red maple and cherry																																																					
88	330 - Low-Density Trees	Unspecifed	11.1			Yes	2025 - Opening is filling in. West of snowmobile trail is almost a forest stand.																																																					
90	4130 - Aspen	Sapling Well	15.2	28	Immature	N/A	2025 - Fully stocked aspen stand.																																																					
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Bigtooth Aspen	70	Log	2	28																																																								
91	4130 - Aspen	Sapling Medium	4.0	14	Immature	N/A	2025 - Stand has some open pockets. Fully stocked were aspen is, cherry is more open grown.2011 Stand was final harvested under Sale 'Comp 102 09 Aspen' (Sale # 61-013-09).																																																					
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92	6239 - Mixed Emergent Wetland	Unspecifed	0.6			No	2025 - Bog - with seasonal water in it.																																																					

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																			
94	500 - Water	Unspecified	1.0		Unspecified	No	2025 - Bog - with seasonal water in it.																																																			
95	42110 - Planted Red Pine	Poletimber Well	1.5	65	81-110	N/A	2025 - Most of this stand is within the TransCanada fence. Most of the timber is open grown timber. Leave for visual and sound buffer.																																																			
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96	4130 - Aspen	Sapling Well	22.1	14	Immature	N/A	2025 - Fully Stocked aspen stand.2011 - Stand was final harvested under Sale 'Comp 102 09 Aspen' (Sale # 61-013-09).																																																			
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97	42110 - Planted Red Pine	Unspecified	55.4	4	Immature	N/A	2024 - Stand had year 3 regeneration check completed on 10/1/2024. Stand is estimated to be 823 TPA and is 98% free to grow.2022 - Stand had first year regeneration check completed 10/25/2022. Stand is estimated to be 843 Trees per acre and is currently 99% free to grow.2022 - Stand was planted to red pine 5/13/20242021- Stand was site prep sprayed2020 - Stand was trenched by west LP skidder.2018 - Stand was Final Harvested and chipped in late summer of 2018. 'Confusing Corners Mix' 61-132-17-01.																																																			
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98	42100 - Planted White Pine	Poletimber Well	37.3	65	141-170	N/A	2025 - Stand has fully stocked understory1998 - Stand was row thinned cut 2 rows leave 2 rows. Under sale 'Sunset White Pine' (61-012-97).																																																			
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99	4199 - Other Mixed Upland Deciduous	Sawtimber Well	31.4	55	51-80	N/A	2025 - A couple aspen clones. White pine is seeding in from adjacent stand. Overstory trees are clumpy and poor quality. Stand is fully of desirable regeneration.																																																			
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments		
100	4130 - Aspen	Poletimber Well	19.8	50	51-80	N/A	2025 - Stands stocking level varies across it. Good stand to restart and try to expand aspen clones.		
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density		Avg. Height	Size
White Pine	5		15		Red Maple	Medium		10 - 20 feet	10 - 20 feet
Beech	3	Seedling	8		Beech	Low		10 - 20 feet	10 - 20 feet
Red Oak	2	Seedling	6						
Red Maple	20	Seedling	6						
Bigtooth Aspen	70		9	50					
101	4130 - Aspen	Sapling Well	14.2	14	Immature	N/A	2025 - Stand is fully stocked aspen stand.2011 Stand was final harvested under Sale 'Comp 102 09 Aspen' (Sale # 61-013-09).		
Canopy Species	% Cover	Size Class	DBH	Age					
White Pine	2	Seedling	6						
Red Maple	18	Log	1						
Quaking Aspen	70	Log	1	14					
Red Oak	10	Seedling	6						
103	4199 - Other Mixed Upland Deciduous	Poletimber Medium	7.2	54	1-50	N/A	2025 - Stand is surrounded by pipelines and well sites.		
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density		Avg. Height	Size
White Pine	10		15		White Pine	Medium		10 - 20 feet	10 - 20 feet
Black Cherry	15	Seedling	8	54	Black Cherry	Low		10 - 20 feet	10 - 20 feet
Red Oak	15		8		Red Maple	Low		10 - 20 feet	10 - 20 feet
Sugar Maple	5		10		Beech	Low		10 - 20 feet	10 - 20 feet
Red Maple	20	Seedling	8						
Bigtooth Aspen	35		9	54					
105	42210 - Natural Red Pine	Poletimber Well	5.7	65	111-140	N/A	2025 - Access site for Starvation lake. Stand is a mix of red and white pine.		
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density		Avg. Height	Size
White Pine	30	Seedling	8		White Pine	Medium		5 - 10 feet	5 - 10 feet
Red Pine	65		9	65	Bigtooth Aspen	Low		5 - 10 feet	5 - 10 feet
Bigtooth Aspen	5	Seedling	6						
106	330 - Low-Density Trees		8.8			No	2025 - Stand is large kettle hole. Appears to be water in bottom of stand. Stand has Black cherry and red pine seeding into it.		
109	4110 - Sugar Maple Association	Poletimber Well	157.3	78	51-80	N/A	2025 - Stand is currently sitting at an average basal area of 80 at this time. Beech is seeding in no desirable regeneration at this time.2016 - Stand was thinned as 'Pinched Saw Hardwood' (Sale # 61-055-13).		
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density		Avg. Height	Size
Black Cherry	9	Seedling	6		Ironwood	Low		5 - 10 feet	5 - 10 feet
Basswood	13		9		Beech	Low		5 - 10 feet	5 - 10 feet
Sugar Maple	72	Seedling	8	78					
Red Maple	6		10						
110	122 - Road/Parking Lot	Unspecifed	12.9				2025 - Oil and gas buildings in stand. Stand fenced off.		

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
114	122 - Road/Parking Lot	Unspecified	3.0			No	2025 - Starvation Lake Road.
401	3104 - Degraded	Unspecified	2.7			No	2025 - Abandon well site. 1986 - well site was plugged in 1986.
402	3104 - Degraded	Unspecified	1.9			No	2025 - Abandon well site
404	3104 - Degraded		3.0			No	2025 - Abandon well site. Plugged in 1984.
405	3104 - Degraded		2.4			No	2025 - Abandon well site. Plugged in 1978
406	3104 - Degraded	Unspecified	1.6			No	2025 - Old oil well pad. Abandon well site. Knapweed. Well plugged in 1985.
407	3104 - Degraded		2.1			No	2025 - Old oil well pad.1990 - Abandon well site. Knapweed. well plugged in 1990.
408	122 - Road/Parking Lot	Unspecified	8.4			No	2025 - County roads and pipelines
409	330 - Low-Density Trees	Unspecified	1.6			No	2025 - Old well pad, well was plugged in the mid 80s. Trees are slowly filling in stand.
410	3301 - Low Density Deciduous Trees	Unspecified	4.1			Yes	2025 - Scattered Larger trees, edges are filling in.
411	3104 - Degraded		2.8			No	2025 - Abandon well site. Well was plugged in 1999
412	3104 - Degraded	Unspecified	2.3			No	2025 - Old oil well pad2003 - Abandon well site. plugged in 2003, in need of rehab. Stand data update not "managed oil/gas". Savoy is not responsible for additional surface restoration. R Merrick
413	122 - Road/Parking Lot	Unspecified	4.4				2025 - Active well pad.
417	122 - Road/Parking Lot	Unspecified	3.0				2025 - Active well site
418	3104 - Degraded	Unspecified	1.9			No	2025 - Decent amount of pine seeding intoold well pad, plugged in 1974
419	3303 - Mixed Low Density Trees	Unspecified	2.5			No	2025 - Abandoned well site. Red pine seeding into stand.

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
421	3104 - Degraded	Unspecified	1.5			No	2025 - Abandoned well site. ANR well site, well plugged in 2006, in need of rehab. Stand data updated not "managed oil/gas". ANR not responsible for additional surface restoration. R Merrick
422	122 - Road/Parking Lot	Unspecified	29.4				2025 - Pipe line ROW & Sunset Trail road
423	3302 - Low Density Conifer Trees	Unspecified	2.6				2025 - Abandon well site, plugged in 1978. Spruce trees planted south edge of stand.