



# Compartment Review Presentation

Gwinn Forest Management Unit

Compartment 32049

Entry Year 2025

Acreage: 1,664

County Marquette

Management Area: Suomi Till and Outwash Plain

**Stand Examiner:** Eric Brolin

**Legal Description:**

T44N R26W Section(s) 10-12

**Identified Planning Goals:**

To maintain the health and sustainability of the forest, while providing for wildlife, fisheries, environmental and recreational needs.

**Soil and topography:**

Uplands of Rubicon sand, Sayner-Rubicon, Croswell sand with lowland conifer swamps containing Carbondale and Tawas, and Tawas-Deford mucks. Some well-drained Garlic-Alcona-Voelker complex found within hardwood uplands along the Perrin Bros. Road.

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

Isolated 40 ac and 1 ac private holding(s) within central portion of compartment, otherwise State ownership. Numerous camps and private landholdings adjacent, making this a fairly high-use hunting and recreation area.

**Unique Natural Features:**

See MNFI comments. Potential for calypso orchid and ram's head lady's-slipper. Potential for eagle, osprey, frigga fritillary, red-shouldered hawk, goshawk and wood turtle. Potential for gray wolf.

**Archeological, Historical, and Cultural Features:**

none identified with HAL

**Special Management Designations or Considerations:**

Chain Lakes Moraine Management Area. Rich conifer swamp within Section 12 (See MNFI comments/abstracts)

**Watershed and Fisheries Considerations:**

NLMMU – John Bauman: This compartment contains Miller Creek, Chandler Brook, and Anderson Lake. Miller Creek and Chandler Brook are designated Type 1 trout stress less than 50 foot wide and have predicted mean July water temperatures that range from 63.3 to 65.1 °F (cold streams). A minimum 300-foot buffer is recommended for Miller Creek and Chandler Brook in riparian areas susceptible to Aspen regeneration. For areas not susceptible to Aspen regeneration, a minimum 100-foot, plus 5 feet per 1% increase in slope, buffer is recommended to protect these areas in accordance with Best Management Practices. The eastern region of this compartment borders Anderson Lake. A minimum 100-foot buffer is recommended for Anderson Lake to protect shoreland resources in accordance with Best Management Practices and the Michigan Wildlife Action Plan.

**Wildlife Habitat Considerations:**

This compartment is found within the Soumi Till and Outwash Management Area, on a Disintegration Moraine in Southwestern Marquette County. The dominant Natural Communities are dry mesic northern forests, poor conifer swamps, and mesic northern forests. This management area offers opportunities to increase diversity and perhaps long-term oak sustainability through under planting white and red pine. Another priority is to maintain or increase wildlife corridors especially along riparian corridors. Wildlife management issues in the management area are mast (hard and soft); habitat fragmentation; mature forest conditions; mesic conifer; course woody debris; and retention or development of large living and dead standing trees (for cavities). This management area represents approximately ¼ of the oak resource on WUP state forest.

The following have been identified as featured species for the Soumi Till and Outwash Management Area: Blackburnian Warbler, Golden-winged Warbler, Kirtland's Warbler, Red Crossbill, Black-backed Woodpecker, Ruffed Grouse, American Marten, White-tailed Deer, Black Bear.

**Mineral Resource and Development Concerns and/or Restrictions**

Surface sediments consist of medium-textured glacial till, and minor amounts of peat and muck and glacial outwash sand and gravel and postglacial alluvium. The glacial drift thickness varies between 100 and 200 feet. The Cambrian Trempealeau Formation and Munising Group subcrop below the glacial drift. The Trempealeau could be used for stone.

Gravel pits are located two miles to the northeast, and there should be some potential on the uplands. Abandoned iron mines are located four miles to the northeast. This compartment has not been leased, but leases for metallic exploration were located in the Township to the south. There is no economic oil and gas production in the UP.

**Vehicle Access:**

The Perrin Bros. Road, a county maintained good gravel seasonal road bisects the compartment, with only a few closed two-track roads providing additional access. The Miller Creek Road, a State maintained Road, provides access to the NW portion of the compartment. This road receives heavy year-round traffic, and is in need of maintenance. Access on the east is via the Anderson Lake SFCG Road.

**Survey Needs:**

Survey needed in Section 10 and 11 for adjacent timber sale treatments.

**Recreational Facilities and Opportunities:**

Anderson Lake and Flacks Lakes trails, Anderson Lake State Forest Campground and boat access site. A State-sponsored snowmobile trail (Trail #33) utilizes both the Perrin Bros. and Miller Creek Roads during the winter months. Heavy hunting use.

**Fire Protection:**

Fire response time will be around 1/2 hour, with control efforts requiring around the same amount of time if located on upland grounds. Lowland ground fires would require additional control time and alternate suppression tactics.

**Additional Compartment Information:**

**The following reports from the Inventory are attached:**

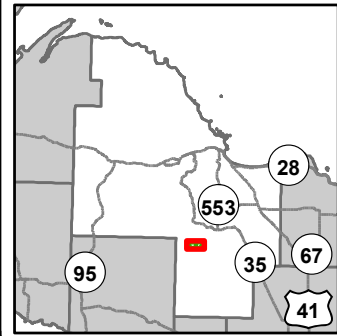
- Total Acres by Cover Type and Age Class**
- Cover Type by Harvest Method**
- Proposed Treatments – No Limiting Factors**
- Proposed Treatments – With Limiting Factors**
- Stand Details (Forested and Nonforested)**
- Dedicated and Proposed Special Conservation Areas**
- Site Condition Details**

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

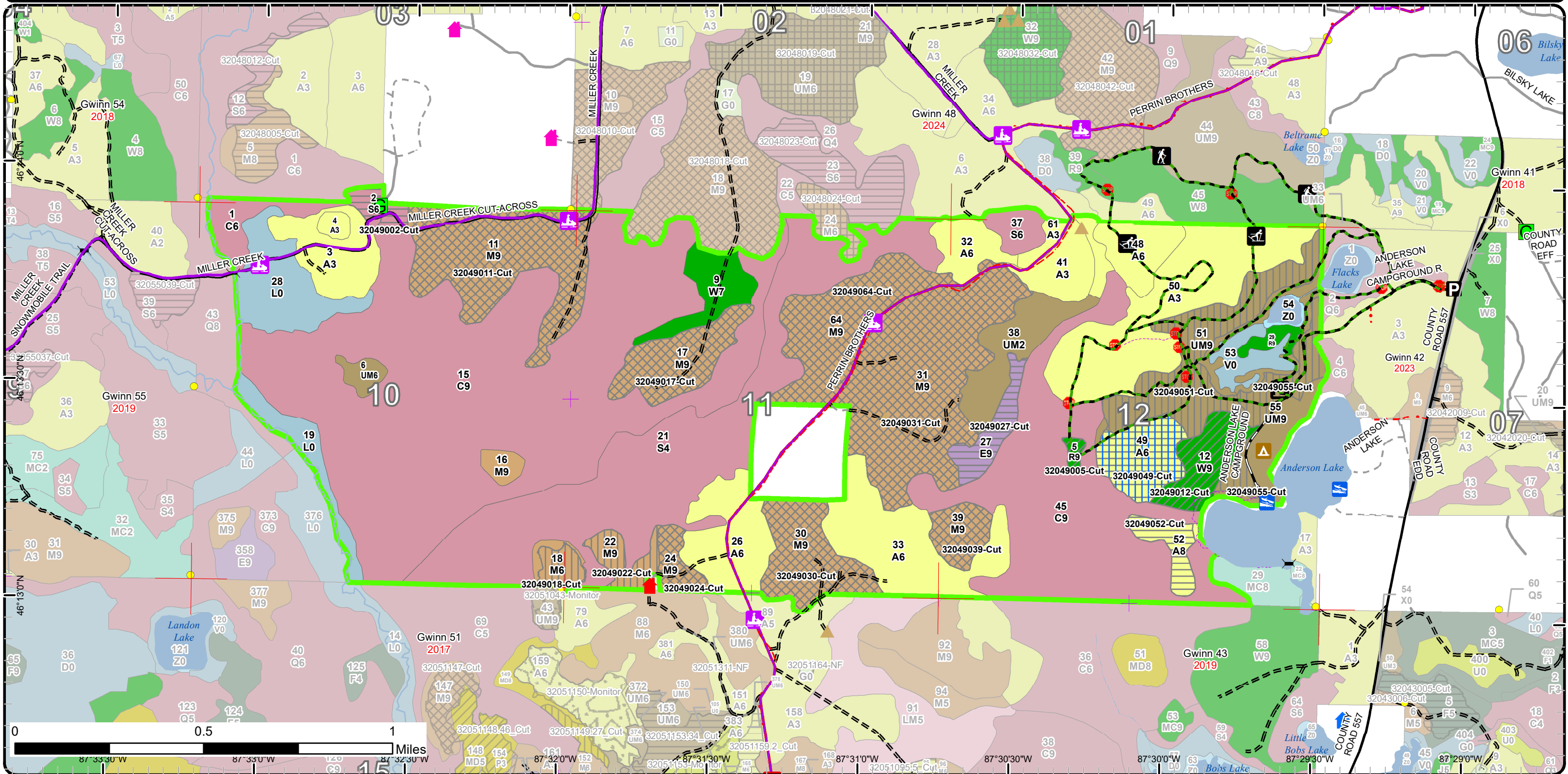
- Base feature information, stand boundaries, cover types, and numbers**
- Proposed treatments**
- Site condition boundaries**
- Details on the road access system**

# Cover Type & Treatments Map

Compartment: 49  
 T44N, R26W, Sec: 10, 11, 12  
 County: Marquette  
 Unit: Gwinn  
 Mgmt Area: Suomi Till and  
 Outwash Plain  
 YOE: 2025  
 Acres: 1664.1 GIS Calculated  
 Examiner: Eric Brodin  
 Map Revised: 8/15/2023  
 Map Phase: Review



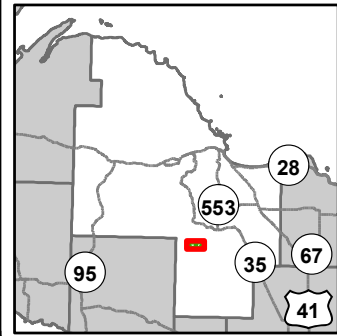
- Miris Corners
- + Remonumented Section Corners
- Survey Grade Corners
- Counties
- DNR - Primary Forest Road
- DNR - Secondary Forest Road
- DNR - Forest Access Route
- Federal / State / County - Paved Road
- County - Gravel Road
- County - Dirt Road (Seasonal)
- Private - Paved Road
- Private - Dirt / Gravel Road
- Hiking Trails
- + Ski Trails
- + Snowmobile Trails
- - - Designated Hiking Trails
- - - Designated Ski Trails
- - - Designated Multi-Use Trails
- - - Designated ORV Route
- - - Designated Snowmobile Trails
- + Cabin
- + House
- + Toilet
- + Structure, Seasonal Dwelling
- + Berms
- + Gate
- + Boating Access Site
- + Bridges
- + Campground
- + Parking Lot
- + Sign
- + Trailhead
- Intermittent Stream
- Lake/Pond
- Perennial River
- Lakes and Rivers
- Non-Designated Recreational Trail
- Compartment Boundary
- Selection (Group, Single Tree)
- Clearcut (w/Reserves)
- Seed Tree (w/Reserves)
- Thinning (Crown, Low, Systematic)
- Shelter Wood (w/Reserves)
- 411 - Northern Hardwood
- 413 - Aspen
- 422 - Natural Pines
- 430 - Upland Mixed Forest
- 611 - Lowland Deciduous Forest
- 612 - Lowland Coniferous Forest
- 500 - Water
- 622 - Lowland Shrub





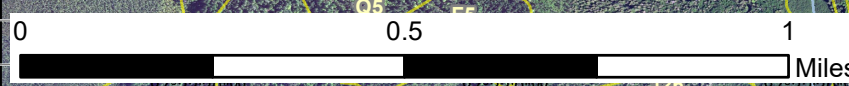
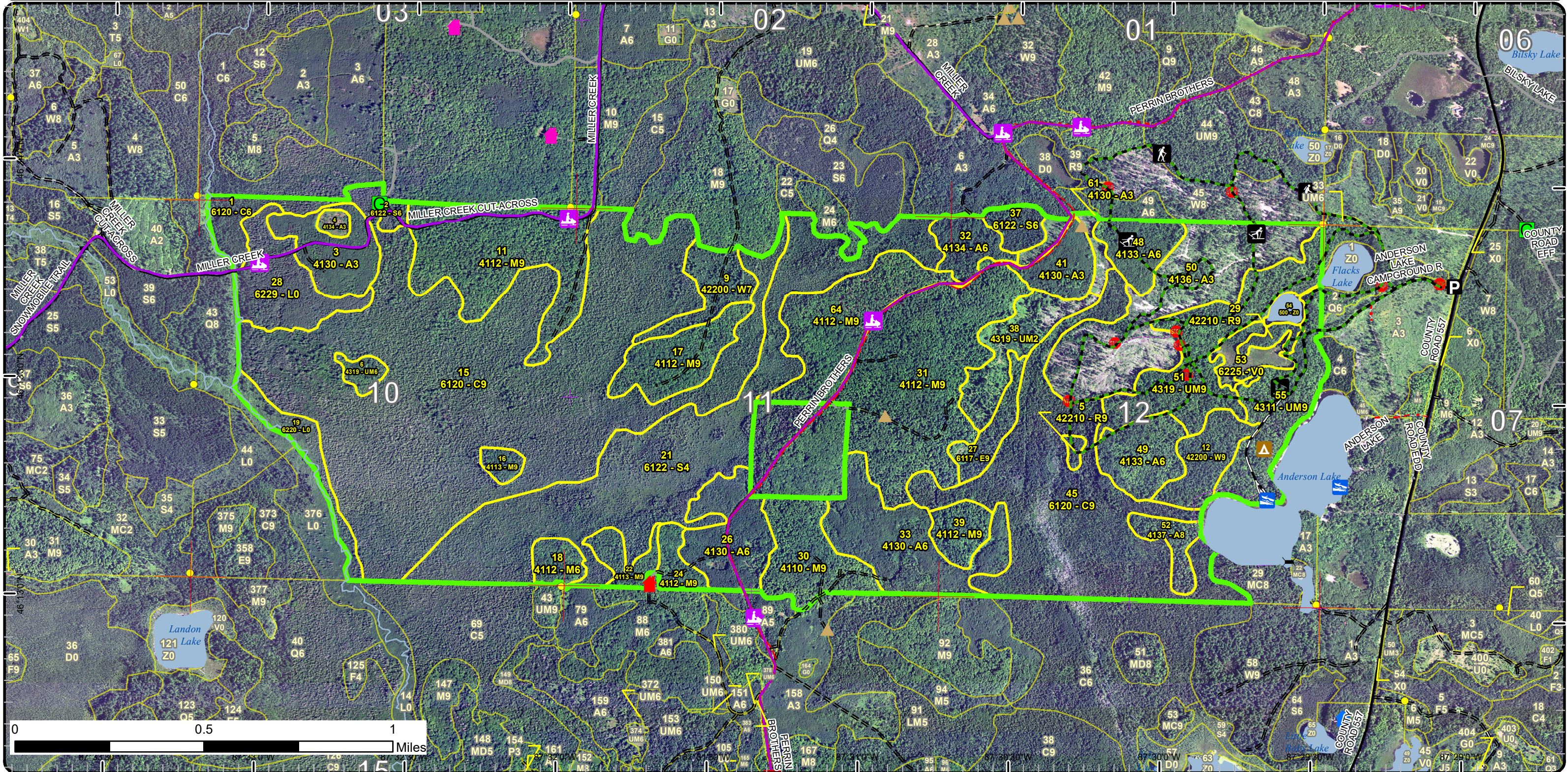
# Stand Boundary Map

Compartment: 49  
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- Structure, Seasonal Dwelling
- ▲ Berms
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- Bridges
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- P Parking Lot
- Sign
- ★ Trailhead
- Intermittent Stream
- Lake/Pond
- Perennial River
- Lakes and Rivers
- Non-Designated Recreational Trail
- Compartment Boundary
- Stand Boundaries

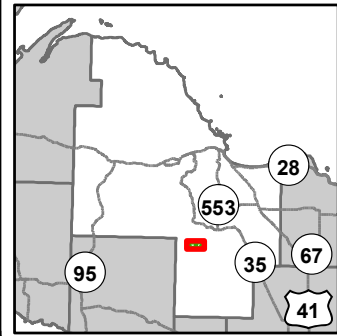
- 411 - Northern Hardwood
- 413 - Aspen
- 422 - Natural Pines
- 430 - Upland Mixed Forest
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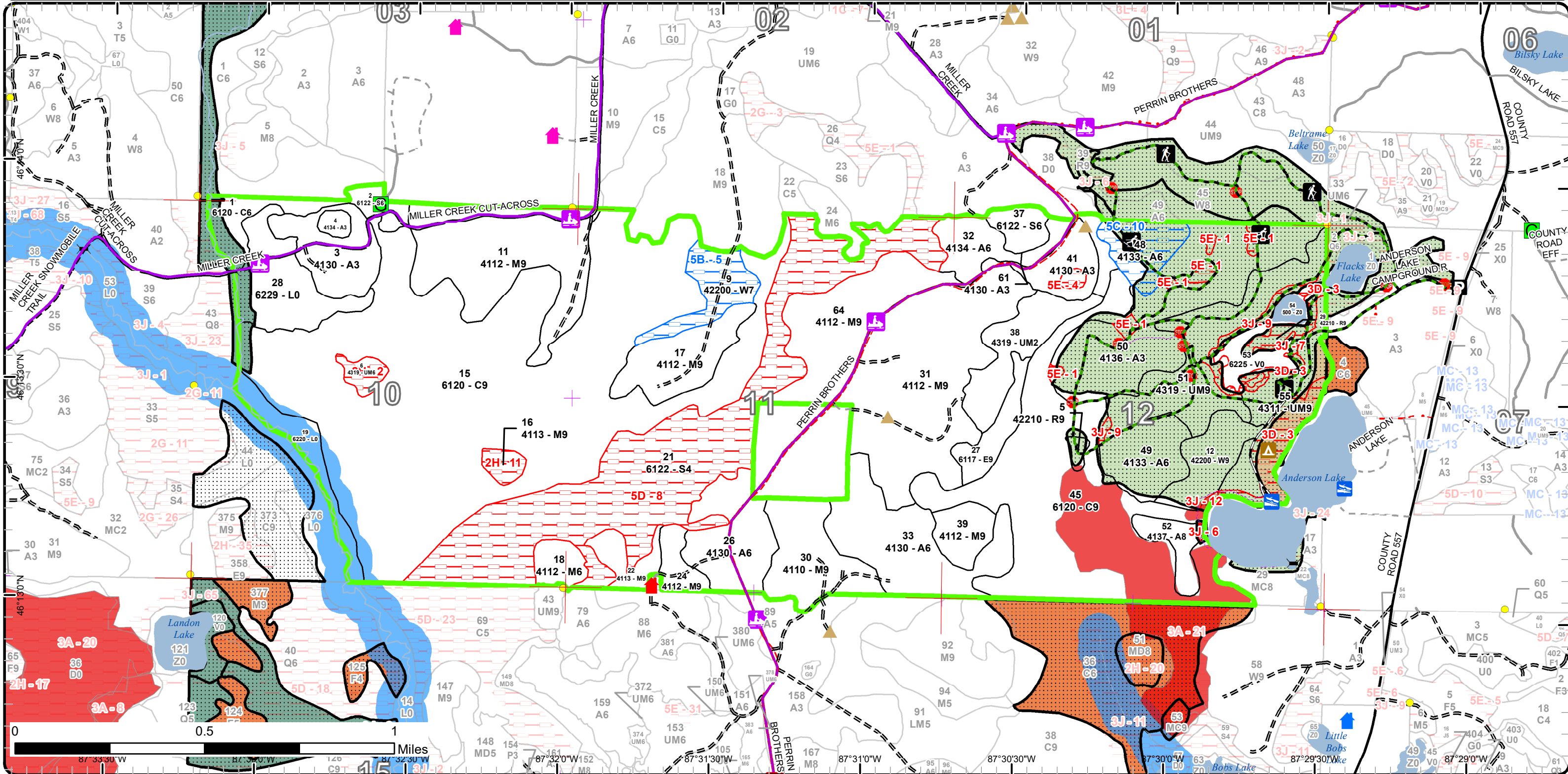
# Special Conservation Areas

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- Campground
- Parking Lot
- Sign
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- Lake/Pond
- Perennial River
- Lakes and Rivers
- Non-Designated Recreational Trail
- Compartment Boundary
- Available w/ Constraints

- 5B: Maintain for regeneration purposes
- 5C: Delay treatment for age/size class diversity or exceptional site quality
- 2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)
- 3D: Recreational / Scenic values
- 3J: Water quality / BMPs (stream, river, or lake)
- 5D: Unproductive Forest Land
- 5E: Long-Term Retention
- Stand Boundaries
- SCA
- Ecological Reference Areas
- Cold Water Streams
- High Priority Trout Stream Buffer
- Vernal Pool
- State Forest Campground
- Other Habitat Area
- Recreational/Scenic Value Area





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	92	3	44	90	35	0	25	0	0	12	0	0	0	0	0	0	0	301
Bog	12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	12
Cedar	0	0	0	0	0	0	0	0	0	0	0	167	0	0	0	392	0	0	559
Lowland Deciduous	0	0	0	0	0	0	0	0	0	14	0	0	0	0	0	0	0	0	14
Lowland Shrub	53	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	53
Lowland Spruce/Fir	0	0	0	0	0	10	0	0	0	8	171	0	0	0	0	0	0	0	188
Northern Hardwood	0	0	0	0	0	0	0	0	0	11	0	339	0	0	0	0	0	0	350
Red Pine	0	0	0	0	0	0	0	0	0	0	7	0	0	0	0	0	0	0	7
Upland Mixed Forest	0	0	28	0	0	0	0	0	0	0	102	6	0	0	0	0	0	0	136
Water	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4
White Pine	0	0	0	0	0	0	0	0	0	0	22	0	0	20	0	0	0	0	42
<b>Total</b>	<b>70</b>	<b>92</b>	<b>31</b>	<b>44</b>	<b>90</b>	<b>45</b>	<b>0</b>	<b>25</b>	<b>0</b>	<b>33</b>	<b>314</b>	<b>512</b>	<b>0</b>	<b>20</b>	<b>0</b>	<b>392</b>	<b>0</b>	<b>0</b>	<b>1666</b>





## Report 2 – Treatment Summary

Gwinn Mgt. Unit

Compartment 49

Year of Entry: 2025

Acres of Harvest

Total Compartment Acres: 1,664

Commercial Harvest - 495  
 Harvests with Site Condition - 0  
 Next Step Harvest - 0  
 Habitat Cut - 0

### Cover Type by Harvest Method

	Clearcut	Selection	Patch Clearcut	Seed Tree	Shelterwood	Thinning	Overshoot Removal	Salvage	Other	Total Acres
Aspen	11	0	0	25	0	0	0	0	0	36
Lowland Deciduous	14	0	0	0	0	0	0	0	0	14
Lowland Spruce/Fir	8	0	0	0	0	0	0	0	0	8
Northern Hardwood	0	325	0	0	18	0	0	0	0	343
Red Pine	0	0	0	0	0	2	0	0	0	2
Upland Mixed Forest	0	0	0	0	72	0	0	0	0	72
White Pine	0	0	0	0	0	21	0	0	0	21
<b>Total</b>	<b>32</b>	<b>325</b>	<b>0</b>	<b>25</b>	<b>90</b>	<b>23</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>495</b>

### Proposed and Next Step Treatments by Method

	Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current	495	0	0	0	0	0	0	0	0	495
Next Step	0	0	0	0	0	0	493	0	0	493
<b>Total</b>	<b>495</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>493</b>	<b>0</b>	<b>0</b>	<b>989</b>





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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**Proposed Treatments:**

<b>2</b>	<b>32049002-Cut</b>	7.6	6122 - Black Spruce	Poetimber Well	84	81-110	Harvest	Clearcut with Retention	6122 - Black Spruce	Even-Aged	No
<p><u>Prescription</u> Harvest to a 2" spec. to promote lowland conifer regeneration. Retention should include mature lowland conifer. Leave cedar, hemlock, and 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> black spruce</p> <p><u>Regen:</u></p> <p><u>Other</u></p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2023</p>											
<b>5</b>	<b>32049005-Cut</b>	2.2	42210 - Natural Red Pine	Sawtimber Well	95	141-170	Harvest	Crown Thinning	4221 - Natural Red Pine	Two-Aged	No
<p><u>Prescription</u> Harvest all species to a 2" spec. except for cedar, hemlock, pine, and oak, unless marked with orange paint. Mark pine to approximately 120</p> <p><u>Specs:</u> BA. Focus on removing suppressed and/or less vigorous trees to improve overall stand health.</p> <p><u>Next Step</u></p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> conifer</p> <p><u>Regen:</u></p> <p><u>Other</u> Access from the east could be in dry summer conditions across cedar. Protect trail markers. Summer harvest only. No operations December</p> <p><u>Comment:</u> 15 - July 15 to avoid winter trail conflict.</p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2024</p>											
<b>11</b>	<b>32049011-Cut</b>	74.6	4112 - Maple, Beech, Cherry Association	Sawtimber Well	104	111-140	Harvest	Single Tree Selection	411 - Northern Hardwood	Uneven-Aged	No
<p><u>Prescription</u> Mark stand to 70 - 90 BA. Focus on improving quality and creating / maintaining canopy gaps for regeneration. Remove all merchantable</p> <p><u>Specs:</u> spruce/fir. Leave some large future snag trees for wildlife. Leave cedar, hemlock, and pine. Favor species diversity, especially larger black cherry, while marking.</p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> northern hardwood</p> <p><u>Regen:</u></p> <p><u>Other</u> Push treatment lines to lowland conifer ground while including spruce/fir along the edges. Areas along edges where spruce/fir is present may</p> <p><u>Comment:</u> end up being walk-through areas while marking to thin hardwoods while capturing merchantable conifer with harvest.</p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2023</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
<b>12 32049012-Cut</b>	21.0	42200 - Natural White Pine	Sawtimber Well	95	171-200	Harvest	Crown Thinning	429 - Mixed Upland Conifers	Even-Aged	No
<p><u>Prescription</u> Harvest all species to a 2" spec. except for cedar, hemlock, pine, and oak, unless marked with orange paint. Mark pine to approximately 120  <u>Specs:</u> BA. Focus on removing suppressed and/or less vigorous trees to improve overall stand health. Favor the lesser abundant red pine in this stand to create a more diverse conifer mix. Green tree to leave some large diameter, forked crown aspen if present.</p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)  <u>Treatments:</u></p> <p><u>Acceptable</u> conifer  <u>Regen:</u></p> <p><u>Other</u> Buffer Anderson Lake 100'. No operations December 15 - July 15 to avoid winter trail conflict.  <u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2024</p>										
<b>22 32049022-Cut</b>	10.9	4113 - R.Maple, Conifer	Sawtimber Well	80	111-140	Harvest	Shelterwood with Retention	4199 - Other Mixed Upland Deciduous	Two-Aged	No
<p><u>Prescription</u> Harvest to a 2" spec. to promote mid-tolerant species. Leave cedar, hemlock, and pine. In combination with leave trees, green mark leave trees to maintain a canopy of approximately 40 BA of better quality hardwood. Favor a diverse mix of species with leave trees.  <u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)  <u>Treatments:</u></p> <p><u>Acceptable</u> hardwood, conifer  <u>Regen:</u></p> <p><u>Other</u> Include any denser / merchantable lowland conifer patches if present from adjacent stand.  <u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2024</p>										
<b>24 32049024-Cut</b>	9.3	4112 - Maple, Beech, Cherry Association	Sawtimber Well	100	111-140	Harvest	Single Tree Selection	411 - Northern Hardwood	Uneven-Aged	No
<p><u>Prescription</u> Mark stand to 70 - 90 BA. Focus on improving quality and creating / maintaining canopy gaps for regeneration. Remove all merchantable  <u>Specs:</u> spruce/fir. Leave some large future snag trees for wildlife. Leave cedar, hemlock, and pine. Favor species diversity while marking.</p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)  <u>Treatments:</u></p> <p><u>Acceptable</u> northern hardwood  <u>Regen:</u></p> <p><u>Other</u>  <u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2024</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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<b>27</b>	<b>32049027-Cut</b>	13.6	6117 - Lowland Deciduous, Mixed Coniferous	Sawtimber Well	81	81-110	Harvest	Clearcut	611 - Lowland Deciduous Forest	Even-Aged	No
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Prescription Harvest to a 2" spec. to promote regeneration. Leave cedar, hemlock, pine, and yellow birch.

Specs:

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable aspen, lowland hardwoods, conifer

Regen:

Other Evaluate during prep for possible frozen condition operations. No retention due to small size and narrow shape.

Comment:

Site Condition

Proposed Start Date: 10/1 /2024

<b>30</b>	<b>32049030-Cut</b>	35.4	4110 - Sugar Maple Association	Sawtimber Well	100	111-140	Harvest	Single Tree Selection	411 - Northern Hardwood	Uneven-Aged	No
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Prescription Mark stand to 70 - 90 BA. Focus on improving quality and creating / maintaining canopy gaps for regeneration. Remove all merchantable

Specs: spruce/fir. Leave some large future snag trees for wildlife. Leave cedar, hemlock, pine, and yellow birch. Favor species diversity while marking.

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable northern hardwood

Regen:

Other Push lines hard to adjacent stands. Need to capture spruce/fir around edges, especially west, even if maple stocking is light and walk-through marking.

Comment:

Site Condition

Proposed Start Date: 10/1 /2024

<b>31</b>	<b>32049031-Cut</b>	110.5	4112 - Maple, Beech, Cherry Association	Sawtimber Well	100	111-140	Harvest	Single Tree Selection	411 - Northern Hardwood	Uneven-Aged	No
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Prescription Mark stand to 70 - 90 BA. Focus on improving quality and creating / maintaining canopy gaps for regeneration. Remove all merchantable

Specs: spruce/fir. Leave some large future snag trees for wildlife. Leave cedar, hemlock, pine, and yellow birch. Favor species diversity while marking.

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable northern hardwood

Regen:

Other Push lines hard to adjacent lowland and aspen stands. Need to capture spruce/fir around edges, even if maple stocking is light and walk-through marking.

Comment:

Site Condition

Proposed Start Date: 10/1 /2024



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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
<b>39 32049039-Cut</b>	13.5	4112 - Maple, Beech, Cherry Association	Sawtimber Well	100	111-140	Harvest	Single Tree Selection	411 - Northern Hardwood	Uneven-Aged	No
<p><u>Prescription</u> Mark stand to 70 - 90 BA. Focus on improving quality and creating / maintaining canopy gaps for regeneration. Remove all merchantable spruce/fir. Leave some large future snag trees for wildlife. Leave cedar, hemlock, pine, and yellow birch. Favor species diversity while marking.</p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable Regen:</u> northern hardwood</p> <p><u>Other Comment:</u> Push lines hard to adjacent cedar and aspen stands. Need to capture spruce/fir around edges, even if maple stocking is light and walk-through marking.</p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2024</p>										
<b>49 32049049-Cut</b>	25.0	4133 - Aspen, Mixed Pine	Poletimber Well	66	81-110	Harvest	Seed Tree with Retention	4199 - Other Mixed Upland Deciduous	Two-Aged	No
<p><u>Prescription</u> Harvest to a 2" spec. to promote aspen, hardwood, and conifer regeneration. Retention should include large diameter, forked crown aspen. Leave cedar, hemlock, pine, and oak. May mark some dense areas of pine for operability, focus on leaving larger diameter trees if marking.</p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable Regen:</u> aspen, hardwood, conifer</p> <p><u>Other Comment:</u> Protect trail markers. Summer harvest only. Make sure to stay out of Rich Conifer Swamp in the SW corner. No operations December 15 - July 15 to avoid winter trail conflict.</p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2024</p>										
<b>51 32049051-Cut</b>	51.0	4319 - Mixed Upland Forest	Sawtimber Well	95	111-140	Harvest	Shelterwood with Retention	4319 - Mixed Upland Forest	Two-Aged	No
<p><u>Prescription</u> Harvest to a 2" spec to promote aspen, hardwood, and conifer regeneration. Retention should include large diameter, forked crown aspen. Leave cedar, hemlock, pine, and oak.</p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable Regen:</u> aspen, hardwood, conifer</p> <p><u>Other Comment:</u> Exclude dense red pine and slope along far west edge. Operability should not be affected from leaving all pine, even in the denser areas. Buffer small lakes 100' and minimum tree length around bog area. Protect trail markers. Summer harvest only. No operations December 15 - July 15 to avoid winter trail conflict.</p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2024</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
<b>52 32049052-Cut</b>	11.0	4137 - Aspen, Birch	Sawtimber Medium	91	1-50	Harvest	Clearcut with Retention	4319 - Mixed Upland Forest	Even-Aged	No
<p><u>Prescription</u> Harvest to a 2" spec. to promote aspen, hardwood, and conifer regeneration. Retention should include large diameter, forked crown aspen.  <u>Specs:</u> Leave cedar, hemlock, pine, and oak.</p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)  <u>Treatments:</u></p> <p><u>Acceptable Regen:</u> aspen, hardwood, conifer</p> <p><u>Other Comment:</u> Access via skid trail from the north, frozen or timber mats. No operations December 15 - July 15 to avoid winter trail conflict.</p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2024</p>										
<b>55 32049055-Cut</b>	21.4	4311 - Pine, Aspen Mix	Sawtimber Well	95	81-110	Harvest	Shelterwood with Retention	4319 - Mixed Upland Forest	Two-Aged	No
<p><u>Prescription</u> Harvest to a 2" spec. to promote aspen, hardwood, and conifer regeneration. Leave cedar, hemlock, pine, and oak. May mark some dense areas of pine for operability, focus on leaving larger diameter trees if marking.  <u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)  <u>Treatments:</u></p> <p><u>Acceptable Regen:</u> aspen, hardwood, conifer</p> <p><u>Other Comment:</u> Do not deviate from treatment line along lakes/campsite side to maintain appropriate buffers in place (200' from Anderson Lake on Campground side, 150' from campground loop roads, 100' around small lakes, tree length from bog). Protect trail markers. Summer harvest only.</p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2024</p>										
<b>64 32049064-Cut</b>	51.6	4112 - Maple, Beech, Cherry Association	Sawtimber Well	100	111-140	Harvest	Single Tree Selection	411 - Northern Hardwood	Uneven-Aged	No
<p><u>Prescription</u> Mark stand to 70 - 90 BA. Focus on improving quality and creating / maintaining canopy gaps for regeneration. Remove all merchantable spruce/fir. Leave some large future snag trees for wildlife. Leave cedar, hemlock, and pine. Favor species diversity while marking.  <u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)  <u>Treatments:</u></p> <p><u>Acceptable Regen:</u> northern hardwood</p> <p><u>Other Comment:</u> Push stands along the west edge until maple becomes too sparse. Some areas with merchantable spruce/fir can be included but overall a strip along the west edge will be excluded from this harvest.</p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2024</p>										

**Approved Treatments:**

<b>17 32049017-Cut</b>	29.7	4112 - Maple, Beech, Cherry Association	Sawtimber Well	105	111-140	Harvest	Single Tree Selection	411 - Northern Hardwood	Uneven-Aged	No
<p><u>Prescription</u> Mark stand to 70-90 BA. Focus on removing poor quality while creating / improving canopy gaps and maintaining desired BA target. Remove all merchantable spruce/fir. Leave some large future snag trees for wildlife. Favor species diversity while marking.  <u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)  <u>Treatments:</u></p> <p><u>Acceptable Regen:</u> northern hardwood</p> <p><u>Other Comment:</u> Push treatment lines to lowland conifer ground while including white spruce and fir. Areas along edges where spruce/fir is present may end up being walk-through areas while marking to thin hardwoods.</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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Site Condition

Proposed Start Date: 10/1 /2023

18	32049018-Cut	7.1	4112 - Maple, Beech, Cherry Association	Poletimber Well	105	81-110	Harvest	Shelterwood	4112 - Maple, Beech, Cherry Association	Uneven-Aged	No
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Prescription Shelterwood seed tree harvest. Leave all cedar, hemlock, yellow birch, and cherry. 2 inch spec on all other species.  
Specs:

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

Acceptable maple, yellow birch, cherry.  
Regen:

Other Low quality red maple stand fringed with conifers - difficult access for volume of wood involved (see Stage 1 mgmt comments). Cull yellow  
Comment: birch, and cherry is dying. Try and negotiate sale. Treatment was changed in August 2022. Old next step comments: Monitor for adequate regeneration prior to next harvest.

Site Condition

Proposed Start Date: 10/1 /2021

**Total Treatment** 495.4  
**Acreage Proposed:**



## Report 4 – Site Conditions

Gwinn Mgt. Unit  
Eric Brolin : Examiner

Compartment: 49  
Year of Entry: 2025

### Availability for Management

Total Acres	Acres Available	Acres Avail With Condition	Acres Not Available	Dominant Site Conditions								
				5B	5C	2H	3D	3J	5D	5E		
300	273	19	9	Aspen		19			0			9
12	12	0	0	Bog								
559	559	0	0	Cedar								
14	14	0	0	Lowland Deciduous								
53	53	0	0	Lowland Shrub								
188	17	0	171	Lowland Spruce/Fir						171		
350	345	0	5	Northern Hardwood			5					
7	2	0	5	Red Pine					5			
136	101	0	35	Upland Mixed Forest			6	22	8			
4	4	0	0	Water								
41	21	20	1	White Pine	20				1			
1,664	1,400	38	226	Total Forested Acres	20	19	11	22	13	171		9
	84%	2%	14%	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	5E: Long-Term Retention	7	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Long term retention for stand 50.							
2	Unavailable	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	6	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Blocked by dense cedar.							

## Report 4 – Site Conditions

Gwinn Mgt. Unit  
Eric Brolin : Examiner

Compartment: 49  
Year of Entry: 2025

3	<b>Unavailable</b>	<b>3D: Recreational / Scenic values</b>	22	3J: Water quality / BMPs (stream, river, or lake)	5E: Long-Term Retention	Unspecified	Unspecified
<p><b>Comments:</b> Retain recreation / scenic values for Anderson Lake Campground and day use area. 200' buffer along Anderson Lake, 150' buffer from campground loop roads, 100' buffer from small lakes, minimum tree length buffer from bog. Long term retention for stand 55.</p>							
4	<b>Unavailable</b>	<b>5E: Long-Term Retention</b>	2	Unspecified	Unspecified	Unspecified	Unspecified
<p><b>Comments:</b> Long term retention for stand 41.</p>							
5	<b>Available</b>	<b>5B: Maintain for regeneration purposes</b>	20	Unspecified	Unspecified	Unspecified	Unspecified
<p><b>Comments:</b> Dense white pine sapling / pole sized. Young trees, any operations would damage regeneration at this time.</p>							
6	<b>Unavailable</b>	<b>3J: Water quality / BMPs (stream, river, or lake)</b>	1	5E: Long-Term Retention	Unspecified	Unspecified	Unspecified
<p><b>Comments:</b> 100' buffer along Anderson Lake. Long term retention for Stand 52.</p>							
7	<b>Unavailable</b>	<b>3J: Water quality / BMPs (stream, river, or lake)</b>	5	3D: Recreational / Scenic values	Unspecified	Unspecified	Unspecified
<p><b>Comments:</b> Dense red pine peninsula surrounded by lowland area.</p>							
8	<b>Unavailable</b>	<b>5D: Unproductive Forest Land</b>	171	2G: Too wet (sensitive soils, does not include access issues)	Unspecified	Unspecified	Unspecified
<p><b>Comments:</b> Sparsely stocked or open alder areas. Some patches along edge may be managed with adjacent stands, these areas are noted for those stands.</p>							



## Report 4 – Site Conditions

Gwinn Mgt. Unit  
Eric Brolin : Examiner

Compartment: 49  
Year of Entry: 2025

9	<b>Unavailable</b>	<b>3J: Water quality / BMPs (stream, river, or lake)</b>	8	5E: Long-Term Retention	Unspecified	Unspecified	Unspecified
<b>Comments:</b> 100' buffer around small lake and minimum tree length buffer around bog. Long term retention for stand 51.							
10	<b>Available</b>	<b>5C: Delay treatment for age/size class diversity or exceptional site quality</b>	19	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Hold until next YOE. This will allow barely merchantable aspen to put on more diameter. Healthy trees will hold well until then.							
11	<b>Unavailable</b>	<b>2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)</b>	5	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Blocked by dense cedar.							
12	<b>Unavailable</b>	<b>3J: Water quality / BMPs (stream, river, or lake)</b>	1	5E: Long-Term Retention	Unspecified	Unspecified	Unspecified
<b>Comments:</b> 100' buffer for Anderson Lake. Long term retention for stand 12.							

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

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**Report 6 – EXISTING SPECIAL CONSERVATION AREA DETAILS**

\* This is a list of SCA's for this compartment along with a 1/4 mile buffer surrounding the compartment. Refer to the Special Conservation Area Map for locations of the below listed Conservation Areas.

ERA = Ecological Reference Area  
HCVA = High Conservation Value Area  
SCA = Special Conservation Area

Conservation Area	Type	Description
SCA	Cold Water Stream	A coldwater stream has temperature and dissolved oxygen conditions that allow naturally-reproduced or stocked trout populations and those of other coldwater fish species (e.g., slimy sculpin) to persist from year to year. Coldwater streams in Michigan typically provide these conditions due to substantial contributions of groundwater to their stream flows. Such streams are established by Director's action and designated as trout resources by Fisheries Order 210.
SCA	Riparian Area	A transitional area between aquatic and terrestrial ecosystems in which the terrestrial ecosystem influences the aquatic ecosystem and vice-versa. Because of the unique conditions adjacent to lakes, streams and open water wetlands, riparian areas harbor a high diversity of plants and wildlife. Riparian communities are ecologically and socially significant in their effects on water quality and quantity, as well as aesthetics, habitat, bank stability, timber production, and their contribution to overall biodiversity.
ERA	Ecological Reference Areas	Ecological Reference Areas (ERAs) are high quality examples of natural communities that have been identified as Element Occurrences (EOs) by the Michigan Natural Features Inventory (MNFI) within the context of their natural community classification system. Element Occurrences with viability ranks of A (Excellent) or B (Good) and a Global (G) or State (S) element (rarity) ranking of endangered (1), threatened (2), or rare (3) serve as an initial base of ERAs. They may be located upon any ownership in the State. The system is comprised of individual or associations of natural community types that are managed for restoration and maintenance of natural ecological processes and values. The public may submit recommendations for lands as ERAs using the DNR Conservation Area Recommendation Form.



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments		
1	6120 - Lowland Cedar	Poletimber Well	15.3	100	111-140	N/A	Majority dense cedar with some patchy mixed lowland conifer stocking and alder areas.		
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>	<b>Density</b>	<b>Avg. Height</b>	<b>Size</b>
Tamarack		15	Log	10		Balsam Fir	Medium	Variable	Sapling
Northern White Cedar		80	Pole/Log	9	100	Alder	Medium	5 - 10 feet	Tall Shrub
Black Spruce		5	Pole	8					
2	6122 - Black Spruce	Poletimber Well	7.6	84	81-110	N/A	Nice black spruce poles with dense conifer understory. Spruce south of the road is smaller diameter but still merchantable. Some maple transitioning in the east.		
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>	<b>Density</b>	<b>Avg. Height</b>	<b>Size</b>
Black Spruce		78	Pole	7	84	Black Spruce	Medium	Variable	Sapling
Balsam Fir		5	Pole	7		Balsam Fir	Medium	Variable	Sapling
Red Maple		4	Log/Pole	10					
Tamarack		5	Pole/Log	8					
White Pine		8	Log/XLog	16					
3	4130 - Aspen	Sapling Well	27.5	23	1-50	N/A	Aspen saplings near pole size. Dense fir understory.		
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>	<b>Density</b>	<b>Avg. Height</b>	<b>Size</b>
Black Cherry		2	Sapling/Pole	2		Balsam Fir	Medium	Variable	Sapling
Balsam Fir		10	Pole/Sapling	6		White Pine	Low	Variable	Sapling
Red Maple		2	Pole/Sapling	6		Red Maple	Low	Variable	Sapling
Black Spruce		5	Pole	8		Paper Birch	Low	Variable	Sapling
Tamarack		2	Pole/Sapling	5		Black Spruce	Medium	Variable	Sapling
White Pine		2	Log	10					
Quaking Aspen		77	Sapling/Pole	4	23				
4	4134 - Aspen, Spruce/Fir	Sapling Well	3.4	11	Immature	N/A	Conifer saplings mixed with dense aspen in most areas.		
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>	<b>Density</b>	<b>Avg. Height</b>	<b>Size</b>
Balsam Fir		25	Sapling	2		Tamarack	Trace	Variable	Sapling
Quaking Aspen		75	Sapling	2	11	White Spruce	Low	Variable	Sapling
						White Pine	Low	Variable	Sapling
5	42210 - Natural Red Pine	Sawtimber Well	2.2	95	141-170	N/A	Large red pine logs. Very dense stocking. Small stand on a hump surrounded by cedar.		
<b>Canopy Species</b>		<b>% Cover</b>	<b>Size Class</b>	<b>DBH</b>	<b>Age</b>	<b>Sub-Canopy Species</b>	<b>Density</b>	<b>Avg. Height</b>	<b>Size</b>
Red Pine		80	Log/XLog	16	95	Balsam Fir	High	Variable	Sapling
Balsam Fir		5	Pole	8					
White Pine		10	XLog/Log	18					
Black Spruce		5	Pole	8					
6	4319 - Mixed Upland Forest	Poletimber Well	5.7	102	81-110	N/A	Did not access. Difficult lowland crossing to get to small island.		
								Old comments: "Fir and birch dead/dying. Thick F3 in most areas." Old tsale records indicate that some areas were harvested in the late 50's - early 60's.	





Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																																			
9	42200 - Natural White Pine	Sawtimber Poor	19.7	127	1-50	N/A	Dense white pine saplings in most areas. Scattered hardwood within.																																																																			
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11	4112 - Maple, Beech, Cherry Association	Sawtimber Well	74.6	104	111-140	N/A	Low to moderate quality maple logs, heavy to red maple. Dense maple and black cherry sapling understorey especially in gaps. 150 110 100 120 130 Average of 120 BA.																																																																			
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12	42200 - Natural White Pine	Sawtimber Well	21.7	95	171-200	N/A	Dense pine with most areas near 200 BA. Low amount of red pine speckled in. White pine ranges from larger pole sized diameter to XL log size. Fairly open understorey except for some dead and down fir poles/saplings. Veins and patches of some hardwood mixed in.																																																																			
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15	6120 - Lowland Cedar	Sawtimber Well	391.7	144	81-110	N/A	Viewed stand from multiple edges. Ranges from dense cedar to sparsely stocked lowland conifer and alder. Some transition areas may have harvestable patches of lowland conifer. These will be noted to include if determined operable during adjacent prep.																																																																			
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Canopy Species	% Cover	Size Class	DBH	Age																																																																						
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
16	4113 - R.Maple, Conifer	Sawtimber Well	5.3	100	81-110	N/A	Did not access. Island in middle of cedar stand.

17	4112 - Maple, Beech, Cherry Association	Sawtimber Well	29.7	105	111-140	N/A	2022, EB looked at while in C48 to the north. Will include with part of timber sale out of YOE. Look at grabbing any patches of merchantable/operable lowland conifer during prep from adjacent lowland stand.
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Canopy Species	% Cover	Size Class	DBH	Age
Yellow Birch	5	Log/Pole/XLog	10	
White Spruce	2	Log/Pole	12	
Northern White Cedar	2	Pole	9	
Paper Birch	2	Pole	8	
White Pine	5	XLog/Log	24	
Red Maple	50	Log/Pole	9	105
Black Cherry	5	Pole/Log	9	
Sugar Maple	25	Pole/Log	8	
Hemlock	2	Log	10	
Balsam Fir	2	Pole	7	

Sub-Canopy Species	Density	Avg. Height	Size
Black Cherry	Low	5 - 10 feet	Sapling
White Pine	Medium	5 - 10 feet	Sapling
Balsam Fir	Medium	Variable	Sapling
Sugar Maple	Medium	10 - 20 feet	Sapling
Red Maple	Medium	5 - 10 feet	Sapling

T. sale #013-95 "Big Wheels Block" (U2 - 29 acs) - cut Feb, 1997. Also thinned in 1969. Ground cover of club moss, bracken fern, princess pine, hazel.

18	4112 - Maple, Beech, Cherry Association	Poletimber Well	9.5	105	81-110	N/A	Low quality red maple stand fringed with conifers - difficult access for volume of wood involved. Some sparser areas. Ground cover of club moss, princess pine. Treat with Compt. 50, if cut.
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Canopy Species	% Cover	Size Class	DBH	Age
Red Maple	83	Pole/Log	8	105
Hemlock	5	Log	16	
White Spruce	5	Log/Pole	14	
Black Cherry	2	Log	12	
Yellow Birch	5	XLog/Log	18	

Sub-Canopy Species	Density	Avg. Height	Size
Balsam Fir	Medium	Variable	Sapling
Black Cherry	Low	< 5 feet	Seeding
White Spruce	Low	Variable	Sapling
Red Maple	Medium	< 5 feet	Seeding

19	6220 - Alder/willow	Nonstocked	17.4		Unspecified	No	Contains both Chandler Brook and Miller Creek
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Sub-Canopy Species	Density	Avg. Height	Size
Northern White Cedar	Low		Pole
Tamarack	Low		Pole
Tag Alder	Full		Tall Shrub
White Spruce	Low		Log
Black Spruce	Low		Pole

21	6122 - Black Spruce	Poletimber Poor	170.5	99	1-50	N/A	Sparse flooded lowland. Flooded alder in center with small isolated patches of merchantable trees within. Some small patches along the SE edge bordering upland may be managed in future with adjacent stands. This will be noted in those stands for future management.
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Canopy Species	% Cover	Size Class	DBH	Age
Tamarack	15	Pole	8	
Black Spruce	50	Pole/Sapling	7	99
Red Maple	5	Log/Pole	10	
White Pine	5	Log	16	
Northern White Cedar	20	Pole/Log	9	144
White Spruce	5	Pole	8	

Sub-Canopy Species	Density	Avg. Height	Size
Balsam Fir	Low	Variable	Sapling
Black Spruce	Low	Variable	Sapling
Tag Alder	Full	< 5 feet	Tall Shrub



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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<b>22</b>	4113 - R.Maple, Conifer	Sawtimber Well	10.9	80	111-140	N/A	Somewhat sparse red maple with poor to moderate quality log trees. Dense fir understory, most dead already. Conifers mixed in.
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Canopy Species	% Cover	Size Class	DBH	Age
White Pine	2	Log	14	
Balsam Fir	5	Pole	7	
Northern White Cedar	5	Log	12	
Black Spruce	5	Pole	8	
Yellow Birch	5	Log/Pole	13	
Hemlock	5	Log	14	100
Red Maple	58	Log/XLog/Pole	14	80
Black Cherry	10	Log/Pole	12	
White Spruce	5	Log	12	

Sub-Canopy Species	Density	Avg. Height	Size
White Pine	Low	Variable	Sapling
White Spruce	Medium	Variable	Sapling
Balsam Fir	High	Variable	Sapling
Sugar Maple	Low	Variable	Sapling

<b>24</b>	4112 - Maple, Beech, Cherry Association	Sawtimber Well	9.3	100	111-140	N/A	Poor to moderate quality maple log stand. Dense hardwood saplings in most areas. Average over 120 BA. Thinned under T. sale #015-95 - some lower BA, in places. Overall stand quality is low - stain, crook, forks, spiral seams. Cherry with black knot. Ground cover of princess pine, club moss.
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Canopy Species	% Cover	Size Class	DBH	Age
Yellow Birch	2	XLog	20	
Black Cherry	6	Log	12	
Paper Birch	2	Log	14	
Red Maple	45	Log/Pole	12	100
Hemlock	3	Log/Pole	12	
White Spruce	5	Log	14	
Northern White Cedar	2	Log/Pole	10	
Sugar Maple	35	Log/Pole	12	

Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	Low	Variable	Sapling
Black Cherry	Medium	Variable	Sapling
White Spruce	Low	Variable	Sapling
Sugar Maple	High	Variable	Sapling
Balsam Fir	Low	Variable	Sapling

<b>26</b>	4130 - Aspen	Poletimber Well	35.5	36	51-80	N/A	Aspen stand average merchantable pole sized trees. Slight elevation rise in the center has larger diameter trees with some larger diameter aspen scattered within other areas. Grown in opening along the east edge has a mix of hardwood and conifer. Conifer is dense in areas in the NW. Small interior bog in SW. Some lower ground in the Northwest area  Mix of upland and slightly lowland aspen; residual marked trees left. Ground cover of bracken fern, club moss, grasses, hazel, tagalder and raspberry noted. T. sale #11-85 "Perrin Bros. Aspen Block" (Unit1)
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Canopy Species	% Cover	Size Class	DBH	Age
White Spruce	2	Log/Pole	10	
Balsam Fir	8	Pole/Sapling	6	
Black Cherry	5	Pole/Sapling	6	
Quaking Aspen	77	Pole	7	36
Tamarack	3	Pole/Sapling	5	
Paper Birch	5	Pole/Sapling	5	

Sub-Canopy Species	Density	Avg. Height	Size
Sugar Maple	Medium	5 - 10 feet	Sapling
Balsam Fir	High	Variable	Sapling
White Spruce	Low	Variable	Sapling
White Pine	Low	Variable	Sapling
Black Cherry	Medium	Variable	Sapling





Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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**27** 6117 - Lowland Deciduous, Mixed Coniferous Sawtimber Well 13.6 81 81-110 N/A Low ground flat with declining birch and aspen. patches of red maple poles.

Canopy Species	% Cover	Size Class	DBH	Age
Northern White Cedar	7	Log/Pole	11	
Quaking Aspen	25	Log	12	
Hemlock	4	XLog/Log	22	
Balsam Fir	5	Pole/Sapling	6	
Black Spruce	5	Pole	9	
White Pine	2	XLog/Log	20	89
Red Maple	20	Pole/Log	8	
Yellow Birch	2	Log	15	
Paper Birch	30	Pole/Log	9	81

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

**28** 6229 - Mixed lowland shrub Nonstocked 35.9 Immature 6122 - Black Spruce Cut in winter 21-22. Stand is not regenerating yet, 12/2022. Was a nice black spruce stand with fairly dry ground for black spruce, even during wet seasons. Scattered residual pine and paper birch. Long term retention is along west edge with 100' stream buffer.

**29** 42210 - Natural Red Pine Sawtimber Well 4.6 95 141-170 N/A Dense stand of nice red pine logs. Some white pine mixed in. Fairly open understory except for some scattered conifer saplings.

Canopy Species	% Cover	Size Class	DBH	Age
Red Maple	4	Pole	7	
Red Pine	84	Log	16	95
Paper Birch	2	Pole/Log	9	
White Pine	10	XLog/Log/Pole	22	95

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

**30** 4110 - Sugar Maple Association Sawtimber Well 35.4 100 111-140 N/A Maple log stand with fully stocked maple saplings in most areas. Sapling size varies depending on light from canopy. Moderately steep rolling terrain in the north half. Some conifer along the west edge. 140 120 130 Average of 130 BA.

Canopy Species	% Cover	Size Class	DBH	Age
Sugar Maple	83	Log/Pole	13	100
Yellow Birch	2	Log	16	
Balsam Fir	2	Pole/Sapling	5	
White Spruce	2	Log	10	
Hemlock	1	Log/XLog	16	
Red Maple	10	Log/Pole	13	100

Sub-Canopy Species	Density	Avg. Height	Size
Sugar Maple	Full	Variable	Sapling
Red Maple	Low	Variable	Seeding

T. sale #028-84 "Perrin Bros. Hardwood Block IV" - cut 1986. Also T. sale #003-05 "Big Rock Hardwoods" - thinned Su, 2006. Contains thick F/S regeneration patch along west side. Some uprooted maple, dead white spruce noted. Ground cover includes heavy club moss; princess pine, raspberry, trace amount of yew.



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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<b>31</b>	4112 - Maple, Beech, Cherry Association	Sawtimber Well	110.5	100	111-140	N/A	Maple log stand with fully stocked maple saplings across most areas. Saplings vary in size depending on available sunlight from the canopy. Some edges have more red maple and conifer mixed in. Light, rolling terrain. 160 150 130 110 Average of 135 BA.  T. sale #027-84 (Block C,D,E,F) - thinned 1986 and T. sale #002-05 "Perrin Bros. Hardwood" (U1-4, U6) - thinned summer 2008, summer 2009.			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size
	Red Maple	25	Log/Pole	12	100		Black Cherry	Low	Variable	Sapling
	Paper Birch	1	Log	10			Red Maple	Low	Variable	Sapling
	White Spruce	1	Log	14			Ironwood	Low	Variable	Sapling
	Sugar Maple	68	Log/Pole	12	100		White Spruce	Low	Variable	Sapling
	Hemlock	1	Log	16			Sugar Maple	Full	Variable	Sapling
	Yellow Birch	2	Log	16			White Pine	Low	Variable	Sapling
	Red Pine	1	XLog/Log	18			Balsam Fir	Low	Variable	Sapling
	White Pine	1	XLog	22						

<b>32</b>	4134 - Aspen, Spruce/Fir	Poletimber Well	15.7	41		N/A	Patchy aspen with patches of dead and declining fir across stand. Small lowland pockets within.  Older aspen along roadway (10-15" dbh) - poor health, road hazard - with younger timber beyond (4-7" dbh). Heavier spruce/fir scattered within. Harvested with adjacent compartment (C. 48) under t. sale #15/77A "Miller Creek Block No. 1" - winter, 1980.			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size
	White Pine	2	Log/XLog	16			White Spruce	Low	Variable	Sapling
	Black Cherry	2	Pole	7			Balsam Fir	Medium	Variable	Sapling
	Red Maple	5	Pole/Log	9						
	Paper Birch	3	Log/Pole	12						
	Balsam Fir	20	Pole	8						
	White Spruce	10	Log/XLog	16						
	Quaking Aspen	58	Pole/Sapling	7	41					

<b>33</b>	4130 - Aspen	Poletimber Well	54.7	36	51-80	N/A	Ground varies significantly across stand. NW is high and dry with excellent quality aspen and bigtooth mixed in. SE is lower wet ground with mainly quaking, balsam poplar, and more conifer.  T. sale #011-85 "Perrin Bros. Aspen Block" (Unit2) - cut Nov.- Dec, 1985. Ground cover includes: bracken fern, raspberry, tagalder.			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size
	Sugar Maple	5	Sapling	3			Sugar Maple	Medium	Variable	Sapling
	Balsam Poplar	10	Pole/Sapling	6			Balsam Fir	Medium	Variable	Sapling
	Paper Birch	5	Pole	5	36					
	Bigtooth Aspen	15	Pole	8						
	Quaking Aspen	50	Pole	7	36					
	Black Cherry	5	Sapling/Pole	3						
	Tamarack	5	Pole/Sapling	5						
	White Pine	2	XLog/Log	18						
	Northern White Cedar	3	Log/Pole	10						



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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<b>37</b>	6122 - Black Spruce	Poletimber Well	9.6	41	51-80	N/A	Younger lowland conifer stand. North half has more white pine mixed in. Patches of tamarack.
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Paper Birch	3	Pole	6		Tag Alder	Low	< 5 feet	Tall Shrub
Balsam Fir	5	Pole/Sapling	6		Black Spruce	High	Variable	Sapling
Northern White Cedar	2	Pole	9		White Pine	Low	Variable	Sapling
Red Maple	5	Pole/Sapling	8		Balsam Fir	Medium	Variable	Sapling
White Pine	10	Log/Pole	12					
Quaking Aspen	5	Pole	6					
Tamarack	15	Pole	6					
Black Spruce	55	Pole/Sapling	5	41				

T. sale #15/77A - cut Winter, 1980. Thick black spruce understory with scattered overstory maple, cedar, spruce and white pine. Ground cover of lab tea, blueberry.

<b>38</b>	4319 - Mixed Upland Forest	Sapling Medium	28.3	14	1-50	N/A	Patchy open areas. Overall closer to 75% canopy cover. Scattered residual pine and patches were left, dense in spots. Regen includes mix of aspen, hardwood, and conifer. Denser regen stocking in south half with more white pine saplings established.
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Pine	5	XLog	18		Blackberry/Raspberry	High	< 5 feet	Tall Shrub
Red Maple	33	Sapling	2	14	White Pine	Low	Variable	Sapling
Black Cherry	10	Sapling	3		Balsam Fir	Low	Variable	Sapling
Quaking Aspen	10	Sapling	3					
White Pine	27	XLog/Log	20	110				
Balsam Fir	10	Sapling/Pole	4					
White Spruce	5	Log	15					

T. sale #002-05 "Perrin Bros. Hardwood" (Unit 7) - cut Su, 2009. Contains blowdown white spruce and snag trees.

<b>39</b>	4112 - Maple, Beech, Cherry Association	Sawtimber Well	13.5	100	111-140	N/A	Maple log stand with fully stocked maple saplings in most areas. Saplings vary in size depending on available sunlight from canopy. Outer edges, mainly the west edge, has sparser red maple and more conifer mixed in. 160 120 Average of 140 BA.
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Sugar Maple	60	Log/Pole	13	100	White Pine	Trace	Variable	Sapling
Red Maple	30	Log	12		Balsam Fir	Low	Variable	Sapling
Yellow Birch	2	Log	16		White Spruce	Low	Variable	Sapling
Paper Birch	2	Log	12		Sugar Maple	Full	Variable	Sapling
Hemlock	4	Log/XLog	14					
Northern White Cedar	2	Log/Pole	10					

<b>41</b>	4130 - Aspen	Sapling Well	16.9	24	51-80	N/A	Aspen sapling stand transitioning to pole sized trees. Scattered pole sized fir and larger pine scattered across stand.
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Pine	2	Log	16		Balsam Fir	Medium	Variable	Sapling
Black Cherry	5	Sapling	2		Ironwood	Low	10 - 20 feet	Sapling
Paper Birch	2	Sapling/Pole	4		Black Cherry	Low	10 - 20 feet	Sapling
Balsam Fir	5	Pole	7					
Red Maple	2	Sapling/Pole	3					
Quaking Aspen	80	Sapling/Pole	4	24				
White Pine	4	Log	15					

T. sale #014-95 "Ski Trail Aspen" - cut August-Sept, 1998. Conifer retention along Perrin Bros. Road, as well as no-cut patch retention (stand 41).





Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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<b>45</b>	6120 - Lowland Cedar	Sawtimber Well	151.5	101	141-170	N/A	Large diameter, dense cedar across most of the stand. Sparse in areas with some flooded lowland conifer and alder.
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Northern White Cedar	68	Log/Pole	13	101	Balsam Fir	Full	Variable	Sapling
Tamarack	10	Pole	8		White Pine	Low	Variable	Sapling
Paper Birch	2	Pole	8		Black Spruce	Medium	Variable	Sapling
Balsam Fir	5	Pole/Sapling	7					
Black Spruce	10	Pole	7					
White Pine	5	XLog/Log	20					

<b>48</b>	4133 - Aspen, Mixed Pine	Poletimber Well	18.6	48	81-110	N/A	Mixed aspen poles with large scattered pine in the north half. Aspen with overstory competition are smaller diameter than average. Fir and pine saplings in understory.  T. sale #006-74 - cut Summer, 1974.
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Bigtooth Aspen	40	Pole	8	48	Balsam Fir	Medium	Variable	Sapling
Red Pine	4	Log	16		Aspen (spp.)	Medium	>20 feet	Sapling
Balsam Fir	5	Pole	7		White Pine	Medium	Variable	Seeding
Red Maple	5	Pole/Sapling	7					
Paper Birch	5	Sapling	3					
Quaking Aspen	25	Pole/Sapling	7	48				
White Pine	16	Log	16	90				

<b>49</b>	4133 - Aspen, Mixed Pine	Poletimber Well	25.0	66	81-110	N/A	Large mature aspen becoming more dense to red maple towards the center of the stand, almost a lower bowl in the center. Large diameter pine scattered across the stand, especially dense around some edges.
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Quaking Aspen	15	Log/Pole	10	66	Balsam Fir	Low	Variable	Sapling
Paper Birch	10	Pole/Log	9					
Bigtooth Aspen	25	Log/Pole	11	66				
White Pine	15	XLog/Log	20					
Red Maple	27	Pole/Log	9	66				
Red Pine	5	Log/XLog	14					
Hemlock	3	Log/Pole	10					

<b>50</b>	4136 - Aspen, Mixed Conifer	Sapling Well	82.4	9	1-50	N/A	Dense aspen saplings with a good mix of birch and maple. Scattered residual pine and some maple/birch. Some areas dense with fir and/or pine sapling understory. Numerous retention pockets across stand contain mature pine, aspen, and hardwoods.
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	10	Sapling	1		White Pine	Medium	Variable	Sapling
Quaking Aspen	10	Sapling	2	9	Balsam Fir	Low	Variable	Sapling
Balsam Fir	5	Sapling	2					
White Pine	15	XLog/Log	18	84				
Hemlock	10	Log	12					
Bigtooth Aspen	32	Sapling	2	9				
Red Pine	3	XLog/Log	18					
Paper Birch	15	Sapling	1					



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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**51**      4319 - Mixed Upland Forest      Sawtimber Well      58.6      95      111-140      N/A      The Anderson Lake Trail runs through most areas of this stand. Large pine, dense in areas. Mature birch and aspen showing some decline. Canopy gaps across stand contain red maple poles. Dense fir sapling understory that is dead and/or declining.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
White Pine	40	XLog/Log/Pole	22	95	White Spruce	Medium	Variable	Sapling
Quaking Aspen	8	Log	12		White Pine	Low	Variable	Sapling
Red Maple	5	Log/Pole	12		Balsam Fir	High	Variable	Sapling
Red Pine	6	XLog/Log	20	95	Red Maple	Medium	Variable	Pole
Balsam Fir	2	Pole	8					
Paper Birch	18	Log/Pole	12					
Hemlock	2	Log	14					
Black Spruce	2	Pole	7					
Bigtooth Aspen	15	Log	14					
White Spruce	2	Log/Pole	10					

**52**      4137 - Aspen, Birch      Sawtimber Medium      11.5      91      1-50      N/A      This stand has a lot of dead and declining trees. All, if not most, fir saplings and poles are dead, dense in patches. Declining large aspen and paper birch. Live canopy is not much more than 50%. Access into this stand will be from the north with either timber sale mats or a frozen skid trail across a lowland drainage way.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Bigtooth Aspen	10	Log/XLog	14	91	Red Maple	Medium	Variable	Sapling
Balsam Fir	2	Pole	7					
White Spruce	2	Log/Pole	12					
Red Maple	15	Pole/Log	9	91				
Paper Birch	20	Log/Pole	10	91				
White Pine	10	XLog/Log	18					
Quaking Aspen	39	Log	14	91				
Red Pine	2	XLog	18					

**53**      6225 - Bog      Nonstocked      11.6      No      Leatherleaf bog/marsh

Sub-Canopy Species	Density	Avg. Height	Size
Tag Alder	Low		Tall Shrub
Balsam Fir	Trace		Sapling
Leatherleaf	Full		Tall Shrub
White Pine	Trace		Log
White Pine	Low		Pole

**54**      500 - Water      Nonstocked      4.5      No      (part of) Flacks Lake

Sub-Canopy Species	Density	Avg. Height	Size
Leatherleaf	High		Tall Shrub



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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<b>55</b>	4311 - Pine, Aspen Mix	Sawtimber Well	43.3	95	81-110	N/A	<p>Large, mature aspen and birch with scattered and denser patches of pine across stand. Aspen and birch are very mature and starting to show some decline. Red maple poles in canopy gap areas. Dense understory of fir and hardwood saplings in most areas.</p> <p>Anderson Lake State Forest Campground (13 designated campsites), Boating Access Site, and day use area are within stand along the lakeside. These recreational sites as well as the connected pathways are managed by the PRD Escanaba Field Office.</p> <p>Day use area was previously burned (Mqt#012 - May 3, 1999) and has good regeneration now.</p>			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size
	Quaking Aspen	3	Log/Pole	12	95		Balsam Fir	High	Variable	Sapling
	White Spruce	2	Log/Pole	11			White Pine	Low	Variable	Sapling
	Bigtooth Aspen	31	Log	14	95		Red Maple	Medium	Variable	Pole
	Red Oak	7	Log	15			Red Pine	Low	Variable	Pole
	White Pine	25	XLog/Log/Pole	18						
	Paper Birch	8	Log/Pole	10						
	Red Pine	12	Log	14						
	Red Maple	10	Pole	7						
	Jack Pine	2	Pole/Log	9						

<b>61</b>	4130 - Aspen	Sapling Well	9.5	7	1-50	N/A	Aspen saplings with scattered residual hardwood and conifer within.			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size
	White Spruce	2	Log	12						
	Black Cherry	2	Log/Pole	11						
	White Pine	5	Log	16						
	Sugar Maple	4	Pole/Log	9						
	Quaking Aspen	82	Sapling	1	7					
	Balsam Fir	5	Sapling/Pole	3						

<b>64</b>	4112 - Maple, Beech, Cherry Association	Sawtimber Well	51.6	100	111-140	N/A	<p>Maple log stand. Some sparser areas and lower BA spots with large gaps. Overall dense stocking of hardwood. The west edge becomes sparsley stocked with some conifer mixed in. Most areas along west edge would not be worth including in a harvest because of such sparse stocking. Maple saplings in most areas. 140 140 70 140 130 110 80 110 Average of 115 BA.</p> <p>T. sale #027-84 "Perrin Bros. Hardwood Block III" (Block A,B) - thinned 1986. Ground cover of princess pine, club moss. Stand thinned in 2016, "Test Hardwood" sale - #32-013-15.</p>			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size
	Balsam Fir	5	Pole	7			Balsam Fir	Low	Variable	Sapling
	White Spruce	3	Log	14			Sugar Maple	High	Variable	Sapling
	Sugar Maple	49	Log/Pole	13	100		Black Cherry	Low	Variable	Sapling
	Northern White Cedar	4	Log	10			White Spruce	Low	Variable	Sapling
	Red Maple	32	Log/Pole	13	100					
	Yellow Birch	5	Log	15						
	Paper Birch	2	Pole/Log	8						