



Compartment Review Presentation

Grayling Forest Management Unit

Compartment 72182

Entry Year 2023

Acreage: 984

County Crawford

Management Area: Camp Grayling

Revision Date: 2021-03-24

Stand Examiner: Scott McClarren

Legal Description:

Grayling Township, T26N R04W Sections 07, 08, 09

Identified Planning Goals:

The Majority of this compartment is comprised of Hanson Reserve Lands which contain the following deed restrictions: 1) Hanson Reserve lands are to be used as a permanent encampment and maneuvering ground for the military. 2) This land is to serve as a game preserve for the breeding and protection of game and 3) to serve as a forest reserve. The management goal is to maintain forest health, productivity, sustainability, species diversification, and structural diversity throughout while meeting property deed restrictions.

Soil and topography:

The terrain is level to slightly rolling. The soils are very poorly drained Rifle peat mixed with some poorly drained Saugetuck sand and a little well drained Grayling and Rubicon sand. The majority of this compartment is wet all year.

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

State ownership is dominated by Military Board Hanson Reserve lands with one "40" acre parcel of State of Michigan DNR acquired land. Hanson Reserve Lands were given to the National Guard by Rasmus Hanson in 1913, with several deed restrictions as outlined under the management objective. These restrictions have tasked the DNR with managing the natural resources on these lands as long as management activities do not conflict with military needs. In addition, hunting is prohibited on these lands. Hunting is allowed on the open "40" acquired by the state located in the NE SW of section 8.

Multiple subdivisions and other private holdings are found adjacent to Lake Margrethe. Lake Margrethe State Forest Campground and the Lake Margrethe Access Site (managed by P&R) are located within this compartment.

Unique Natural Features:

Per Michigan Natural Features Inventory there is excellent potential for eastern massasauga and this snake has been found in this compartment. Secretive locust could occur in jack pine or bogs. There is also excellent potential for dusted skipper, grizzled skipper, red-legged spittlebug, and boreal brachionycha in grassy openings and young jack pine. There may be red-shouldered hawks and goshawks. Wood turtles and Blanding's turtle have potential along Portage Creek. Bald eagles and osprey have been seen around Lake Margrethe.

There is excellent potential for plant species such as rough fescue, pale agoseris, Hill's thistle, Canada rice grass, and Alleghany plum in pine barren areas or dry sand prairie. Houghton's goldenrod, Vasey's rush, New England violet, Clinton's bulrush, prairie dropseed, and northern clubmoss could occur in seasonally wet grassy depressions. Houghton's goldenrod and secretive locust have been documented in this compartment.

Archeological, Historical, and Cultural Features:

Some features within the compartment have been documented.

Special Management Designations or Considerations:

Portage Creek is a "Designated Natural River" these areas are High Conservation Value Areas. The Military Lands are designated Special Conservation Areas. This compartment contains part of the "Bear Swamp".

Watershed and Fisheries Considerations:

Lake Margrethe is 1306 acre lake and forms a boundary for much of the compartment. This lake is used year around for fishing and receives a fair amount of boating pressure. Portage creek flows from Lake Margrethe west through the compartment and is a cold water trout stream.

Wildlife Habitat Considerations:

Much of this compartment is considered deer yard. Due to the no hunting restrictions in the Hanson Refuge, high deer populations are evidenced in this area through heavy browse. Some areas have been difficult to regenerate in the past

due to heavy browse pressure.

Mineral Resource and Development Concerns and/or Restrictions

Surface sediments consist of glacial outwash sand and gravel and postglacial alluvium. The glacial drift thickness varies between 400 and 600 feet. Beneath the glacial drift is the Coldwater Shale. There is not an economic use for the Coldwater Shale. The nearest gravel pit is one-half mile to the north and potential is thought to be limited. This is part of the State Military Reservation. There are no oil and gas leases in this compartment. The nearest production is Beaver Creek Field, located six miles to the south.

Vehicle Access:

The roads near/around Lake Margrethe are well maintained and accessible by any 2-wheel drive vehicle. Access is limited within the interior of the compartment.

Survey Needs:

None at this time.

Recreational Facilities and Opportunities:

Lake Margrethe State Forest Campground and day use area are heavily used throughout the summer months. Lake Margrethe Access Site is heavily used for water based recreational opportunities. Both of these sites are located on military board lands that were leased to the Department under recreational lease dated September 26, 1961. Most of the compartment is found within in the potential impact zones of the Camp Grayling small arms ranges, limiting dispersed recreation.

Fire Protection:

The majority of cover types found in this compartment are not prone to frequent fire events. If a wildfire were to occur within the swamp direct attack by our standard methods would be difficult if not impossible.

Additional Compartment Information:

The following reports from the Inventory are attached:

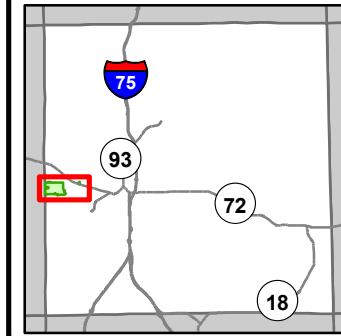
- Total Acres by Cover Type and Age Class**
- Cover Type by Harvest Method**
- Proposed Treatments – No Limiting Factors**
- Proposed Treatments – With Limiting Factors**
- Stand Details (Forested and Nonforested)**
- Dedicated and Proposed Special Conservation Areas**
- Site Condition Details**

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

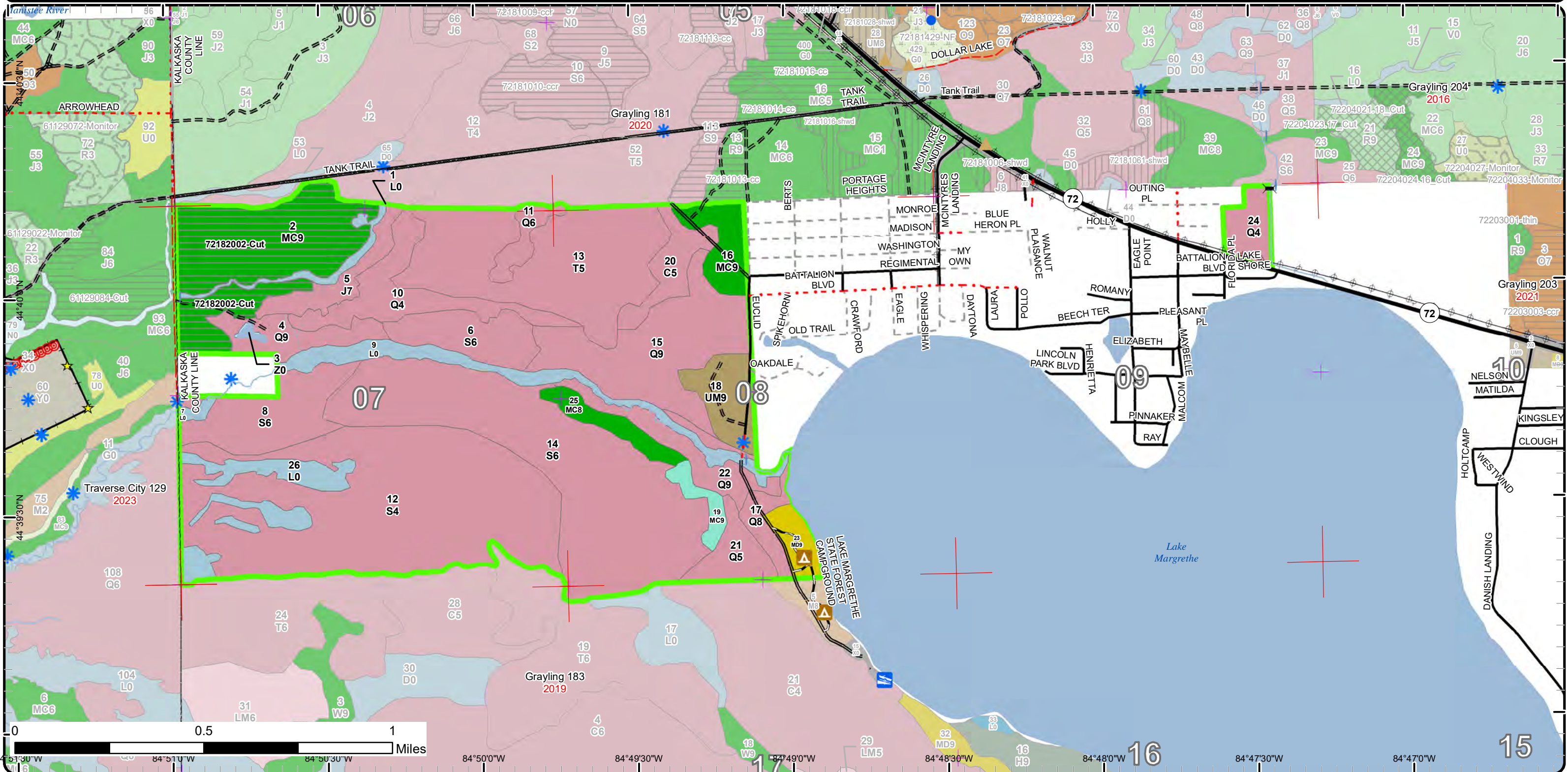
- Base feature information, stand boundaries, cover types, and numbers**
- Proposed treatments**
- Site condition boundaries**
- Details on the road access system**

Cover Type & Treatments Map

Compartment: 182
 T26N, R04W, Sec. 6-9, 17
 County: Crawford
 Unit: Grayling
 Mgmt Area: Camp Grayling
 YOE: 2023
 Acres: 984 GIS Calculated
 Examiner: Scott McClarren
 Map Revised: 9/1/2021
 Map Phase: Review

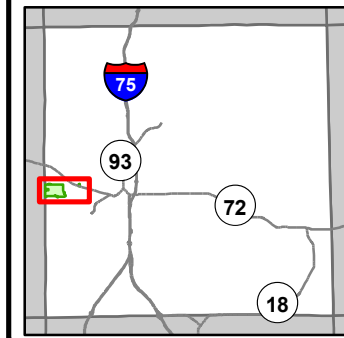


- Miris Corners
- + Remonumented Section Corners
- Counties
- DNR - Primary Forest Road
- DNR - Secondary Forest Road
- DNR - Forest Access Route
- Federal / State Highway
- Federal / State / County - Paved Road
- County - Gravel Road
- County - Dirt Road (Seasonal)
- Private - Dirt / Gravel Road
- Berms
- f Boating Access Site
- Bridges
- Culvert
- Campground
- Intermittent Stream
- Lake/Pond
- Perennial River
- Lakes and Rivers
- Powerline
- Compartment Boundary
- Clearcut (w/Reserves)
- 419 - Mixed Upland Deciduous
- 422 - Natural Pines
- 429 - Mixed Upland Conifers
- 430 - Upland Mixed Forest
- 612 - Lowland Coniferous Forest
- * Camp Grayling Monitoring Wells
- ★ Camp Grayling Safety Marker
- ⊙ Camp Grayling Firing Point
- Camp Grayling Fence
- Camp Grayling Tank Trail
- Camp Grayling Range Area

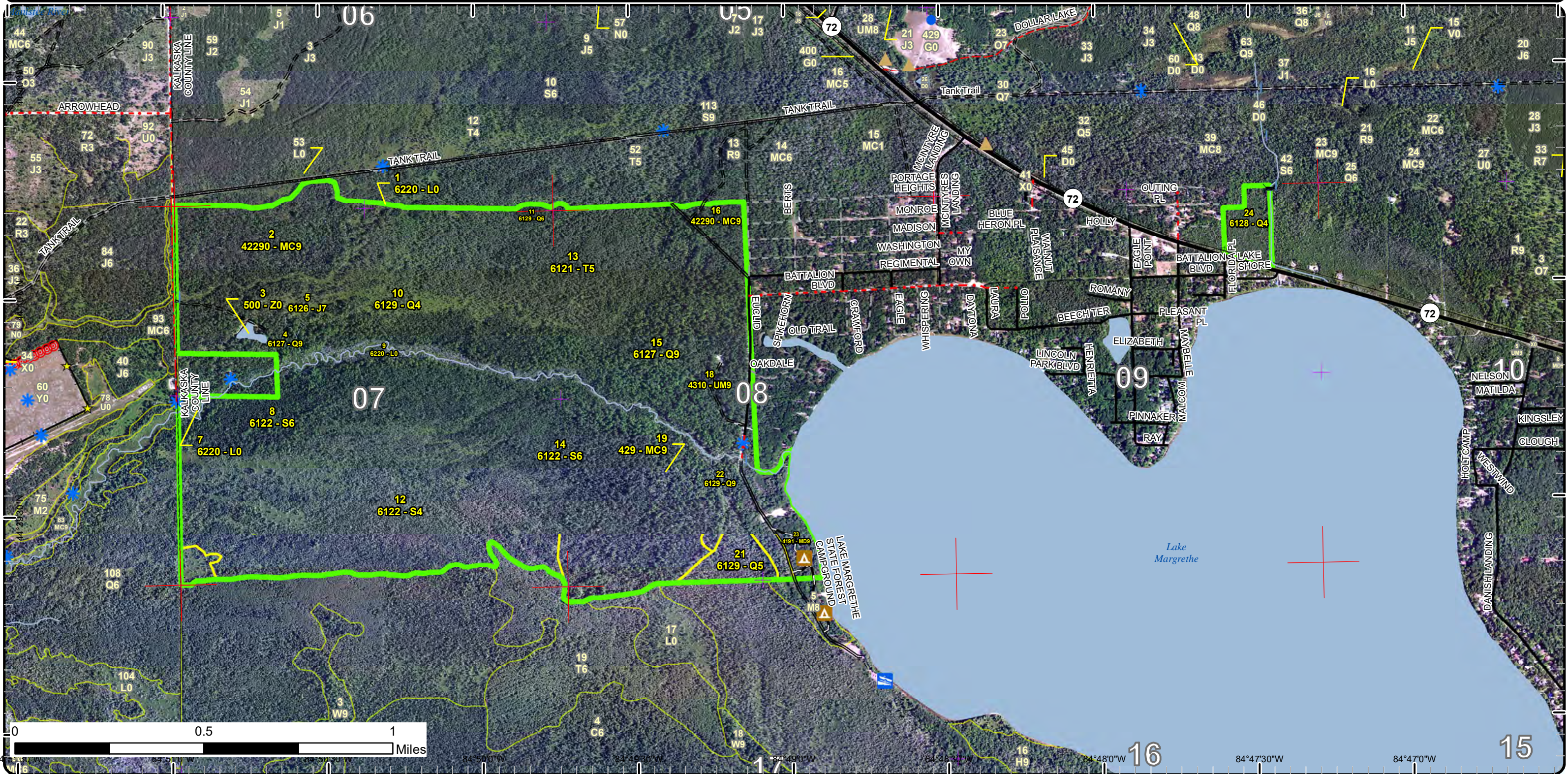


Stand Boundary Map

Compartment: 182
 T26N, R04W, Sec. 6-9, 17
 County: Crawford
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- Miris Corners
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- Counties
- DNR - Primary Forest Road
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- Berms
- ⚓ Boating Access Site
- ⚓ Bridges
- ⚓ Culvert
- Campground
- Intermittent Stream
- Lake/Pond
- Perennial River
- Lakes and Rivers
- Powerline
- Compartment Boundary
- Stand Boundaries
- 500 - Water
- 622 - Lowland Shrub
- * Camp Grayling Monitoring Wells
- ★ Camp Grayling Safety Marker
- ⊙ Camp Grayling Firing Point
- Camp Grayling Fence
- Camp Grayling Tank Trail
- Camp Grayling Range Area
- 419 - Mixed Upland Deciduous
- 422 - Natural Pines
- 429 - Mixed Upland Conifers
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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 |
|------------------------|------------|----------|----------|----------|----------|----------|----------|----------|----------|-----------|------------|-----------|------------|------------|------------|----------|----------|-------------|------------|
| Cedar | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 18 | 0 | 0 | 0 | 0 | 18 |
| Jack Pine | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 16 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 16 |
| Lowland Conifers | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 35 | 0 | 14 | 20 | 24 | 107 | 0 | 0 | 0 | 200 |
| Lowland Shrub | 67 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 66 |
| Lowland Spruce/Fir | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 394 | 0 | 27 | 0 | 0 | 0 | 421 |
| Mixed Upland Deciduous | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 11 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 11 |
| Natural Mixed Pines | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 88 | 18 | 13 | 0 | 0 | 0 | 0 | 0 | 119 |
| Tamarack | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 104 | 0 | 0 | 0 | 0 | 104 |
| Upland Conifers | 0 | 0 | 0 | 0 | 0 | 0 | 8 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 8 |
| Upland Mixed Forest | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 22 | 0 | 0 | 0 | 0 | 0 | 0 | 22 |
| Water | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| Total | 68 | 0 | 0 | 0 | 0 | 0 | 8 | 0 | 0 | 35 | 115 | 54 | 427 | 146 | 134 | 0 | 0 | 0 | 986 |



Report 2 – Treatment Summary

Grayling Mgt. Unit

Year of Entry: 2023

Acres of Harvest

Compartment 182

Total Compartment Acres: 984

Commercial Harvest - 88
 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 | Overstory Removal | Salvage | Other | Total Acres |
|---------------------|--------------|-----------|-----------|----------------|-----------|-------------|----------|-------------------|----------|----------|-------------|
| Natural Mixed Pines | | 88 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 88 |
| | Total | 88 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 88 |

Proposed and Next Step Treatments by Method

| | | Harvest | Site Prep | Planting | Seeding | Burning | Pesticide | Monitoring | Other | Non-Forest Mgt. | Total Acres |
|-----------|--------------|-----------|-----------|----------|----------|----------|-----------|------------|----------|-----------------|-------------|
| Current | | 88 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 88 |
| Next Step | | 0 | 0 | 0 | 0 | 0 | 88 | 0 | 0 | 0 | 88 |
| | Total | 88 | 0 | 0 | 0 | 0 | 88 | 0 | 0 | 0 | 175 |



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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 |
|----------------|-------|-----------------|--------------|-----------|----------|----------------|------------------|----------------------|---------------|-------------|
|----------------|-------|-----------------|--------------|-----------|----------|----------------|------------------|----------------------|---------------|-------------|

Proposed Treatments:

| | | | | | | | | | | | |
|---|---------------------|------|----------------------------|----------------|----|--------|---------|----------|--------------------------|-----------|----|
| 2 | 72182002-Cut | 87.5 | 42290 - Natural Mixed Pine | Sawtimber Well | 90 | 81-110 | Harvest | Clearcut | 4222 - Natural Jack Pine | Even-Aged | No |
| <p><u>Prescription</u> Remove all stems greater than 2" dbh. Cut up to edge of lowland (stands 1 and 5) but, keep equipment out of these areas. Add stricter rutting specs (ie 6" for 25') for high water table. Restrict harvesting to frozen winter conditions for threatened plants and EMR. Add military specs. Add shrub protection spec.</p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable Regen:</u> Natural jack pine/white pine with scattered oak is expected. A barren-like or poorly stocked stand is desired due to the presence of federally listed plant species which benefit from open conditions. This open condition will also benefit Massasaugas.</p> <p><u>Other Comment:</u> Cut around 1/10 acre site conditioned area in northwest to remove encroaching timber around ERA site without disturbing soil. Implement any recommendations made following MNFI's detailed ecological assessment to take place summer 2021</p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2022</p> | | | | | | | | | | | |

Total Treatment Acreage Proposed: 87.5

Report 4 – Site Conditions

Grayling Mgt. Unit
Scott McClarren : Examiner

Compartment: 182
Year of Entry: 2023

Availability for Management

| Total Acres | Acres Available | Acres Avail With Condition | Acres Not Available |
|----------------|--------------------|-------------------------------|------------------------|
|----------------|--------------------|-------------------------------|------------------------|

Dominant Site Conditions

| | | | | Dominant Site Conditions | | | | | |
|-----|-----|------------|-----|--------------------------|------------|-----|----|----|----|
| | | | | 5C | 2G | 2H | 3B | 3D | 3J |
| 18 | 0 | 0 | 18 | Cedar | 18 | | | | |
| 16 | 0 | 0 | 16 | Jack Pine | 16 | | | | |
| 200 | 0 | 69 | 131 | Lowland Conifers | 69 | 108 | 0 | 9 | 14 |
| 67 | 67 | 0 | 0 | Lowland Shrub | | | | | |
| 421 | 0 | 0 | 421 | Lowland Spruce/Fir | 415 | 0 | | | 6 |
| 11 | 0 | 0 | 11 | Mixed Upland Deciduous | | | | 8 | 3 |
| 118 | 87 | 18 | 13 | Natural Mixed Pines | 18 | 0 | 12 | 0 | 0 |
| 103 | 0 | 0 | 103 | Tamarack | 103 | | | | |
| 8 | 0 | 0 | 8 | Upland Conifers | | 8 | | | |
| 22 | 0 | 22 | 0 | Upland Mixed Forest | 22 | | | | |
| 1 | 1 | 0 | 0 | Water | | | | | |
| 984 | 155 | 108 | 721 | Total Forested Acres | 108 | 660 | 20 | 0 | 18 |
| | 16% | 11% | 73% | 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 | 5C: Delay treatment for age/size class diversity or exceptional site quality | 18 | Unspecified | Unspecified | Unspecified | Unspecified |
| Comments: | | | | | | | |
| 2 | Available | 5C: Delay treatment for age/size class diversity or exceptional site quality | 22 | Unspecified | Unspecified | Unspecified | Unspecified |
| Comments: | | | | | | | |

Report 4 – Site Conditions

Grayling Mgt. Unit
Scott McClarren : Examiner

Compartment: 182
Year of Entry: 2023

| | | | | | | | |
|--|-------------|---|-----|---|-------------|-------------|-------------|
| 3 | Unavailable | 3D: Recreational / Scenic values | 8 | Unspecified | Unspecified | Unspecified | Unspecified |
| Comments: Lake Margarethe Campground | | | | | | | |
| 4 | Unavailable | 2G: Too wet (sensitive soils, does not include access issues) | 16 | 3G: Other Influence zones - See comments | Unspecified | Unspecified | Unspecified |
| Comments: | | | | | | | |
| 6 | Unavailable | 2G: Too wet (sensitive soils, does not include access issues) | 626 | 3B: Threatened, endangered, and special concern species | Unspecified | Unspecified | Unspecified |
| Comments: Portage Creek - Lake Margrethe Eastern Massasauga Rattlesnake Managed Area CCAA | | | | | | | |
| 7 | Unavailable | 3B: Threatened, endangered, and special concern species | 0 | 3K: Rare or unique landforms | Unspecified | Unspecified | Unspecified |
| Comments: | | | | | | | |
| 8 | Unavailable | 2G: Too wet (sensitive soils, does not include access issues) | 14 | Unspecified | Unspecified | Unspecified | Unspecified |
| Comments: | | | | | | | |
| 10 | Unavailable | 3J: Water quality / BMPs (stream, river, or lake) | 15 | Unspecified | Unspecified | Unspecified | Unspecified |
| Comments: 100' vegetative buffer for Porter Creek (Natural River Tributary to Upper Manistee). | | | | | | | |

Report 4 – Site Conditions

Grayling Mgt. Unit
Scott McClarren : Examiner

Compartment: 182
Year of Entry: 2023

| | | | | | | | |
|---|--------------------|---|----|--|-------------|-------------|-------------|
| 11 | Unavailable | 3J: Water quality / BMPs (stream, river, or lake) | 7 | Unspecified | Unspecified | Unspecified | Unspecified |
| Comments: Lake Margarethe 100' vegetative buffer. | | | | | | | |
| 13 | Unavailable | 3J: Water quality / BMPs (stream, river, or lake) | 4 | 3G: Other Influence zones - See comments | Unspecified | Unspecified | Unspecified |
| Comments: | | | | | | | |
| 14 | Unavailable | 3D: Recreational / Scenic values | 9 | Unspecified | Unspecified | Unspecified | Unspecified |
| Comments: | | | | | | | |
| 15 | Available | 5C: Delay treatment for age/size class diversity or exceptional site quality | 69 | Unspecified | Unspecified | Unspecified | Unspecified |
| Comments: | | | | | | | |
| 24 | Unavailable | 2H: Blocked by physical obstacle (e.g. upland stand in a lowland area) | 20 | Unspecified | Unspecified | Unspecified | Unspecified |
| Comments: Portage Creek - Lake Margrethe Eastern Massasauga Rattlesnake Managed Area CCAA | | | | | | | |

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 |
|-----------------|--------------|-------------|----------------|-------|
| Comments | | | | |



Report 6 – EXISTING SPECIAL CONSERVATION AREA DETAILS

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

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

| Conservation Area | Type | Description |
|-------------------|-----------------------------|--|
| SCA | Research and Military Areas | These areas provide facilities and lands specifically dedicated for research, or other purposes. They include the 5,847 acre Forest Fire Experiment Station, the 12,000 acre Houghton Lake Wildlife Research Area, the Beaver Islands Archipelago Wildlife Research Area (that includes most of Garden Island, all of High and Hog Islands, all state owned land on Beaver, South Fox and North Fox Islands), the Cusino Wildlife Research Area, the 3,000 acre Hunt Creek Fisheries Research Station, the 125 acre Wyman Nursery, and over 144,000 acres of Military Lands. |
| 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. |
| HCVA | Natural Rivers | There are two Natural Rivers datasets which are derived from spatial buffers set from an established and approved distance from the river centerlines. The Natural Rivers Zoning District is a 400 foot buffer for most Natural Rivers. The Vegetative Buffer ranges from 25 to 100 feet. To view specific Zoning Districts and Vegetative Buffers for each Natural River see the table located on the I:\Documentation\GDSE data folder. |
| 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 | 6220 - Alder/willow | Nonstocked | 7.2 | | | No | Open alder/willow drainage. |
|---|---------------------|------------|-----|--|--|----|-----------------------------|

| | | | | | | | |
|---|----------------------------|----------------|------|----|--------|-----|--|
| 2 | 42290 - Natural Mixed Pine | Sawtimber Well | 87.5 | 90 | 81-110 | N/A | <p>Changed from upland to upland with lowland. NE has hummocky ground with scattered alder pockets. Significant jack pine decline and mortality in portions of stand. Large pockets of stand are pole size white pine where jack pine has died out. Stand will likely be white pine dominated in the next 10-20 years if left untreated. Records indicate NWNW QQ (west half of stand) was harvested in 1964. All jp greater than 10" was cut except no cutting in the southwest corner of the QQ in the "vigorous jack pine". Was difficult to find a distinct difference between treated and non treated areas during walk through. Stand also contains scattered super canopy red and white pine not identified in canopy data. Small polygon site conditioned in north west identified as part of Wet-Mesic Sand Prairie Portage Creek Complex ERA.</p> <p>Old comments (2011)- This stand was recommended for "no treatment" by MNFI last YOE because of the occurrence of a special plant community. Poor quality stand. Die back in both the larger and smaller size classes. Scattered red and white pine throughout, only a handful of northern pin oak present. White pine starts to dominate understory in the south and east. Overall quality is the worse in the eastern portions. If stand is treated I would not treat south of the drainage. I do not think that this area south would be equipment limiting but there is enough white pine regen that the stand will convert naturally.</p> |
|---|----------------------------|----------------|------|----|--------|-----|--|

| Canopy Species | % Cover | Size Class | DBH | Age |
|------------------|---------|------------|-----|-----|
| Red Pine | 8 | Log/Pole | 12 | |
| Jack Pine | 56 | Log/Pole | 12 | 90 |
| Northern Pin Oak | 3 | Log/Pole | 10 | |
| Black Spruce | 3 | Pole/Log | 8 | |
| White Pine | 30 | Pole/Log | 8 | |

| Sub-Canopy Species | Density | Avg. Height | Size |
|--------------------|---------|-------------|------------|
| White Pine | High | >20 feet | Sapling |
| Jack Pine | Low | Variable | Sapling |
| Black Cherry | Low | Variable | Sapling |
| Northern Pin Oak | Trace | 5 - 10 feet | Sapling |
| Tag Alder | Low | 5 - 10 feet | Tall Shrub |

| | | | | | | | |
|---|-------------|------------|-----|--|----------|----|---|
| 3 | 500 - Water | Nonstocked | 1.0 | | Immature | No | open water, looks like man made pond. old comment- Pond put in prior to Military ownership. |
|---|-------------|------------|-----|--|----------|----|---|

| | | | | | | | |
|---|---------------------|----------------|------|-----|--------|-----|---|
| 4 | 6127 - Lowland Pine | Sawtimber Well | 19.9 | 130 | 81-110 | N/A | <p>West side of stand has both upland and lowland pole sized 48 year old white pine with legacy trees scattered through. East finger is wetter and has much higher ba and is full of x-log and legacy pine with full white pine regen 10-20 feet tall in understory. Pockets of cedar mixed in throughout as well. Changing cover types were to small and frequent to map as separate stands. 2 small seasonal streams run south from stands 5 and 10 and converge in stand 4 before draining into Portage Creek. Old comments- Large diameter white and red pine. Giant wolf pine over a fully stocked stand... considered the understory. Some areas high and dry others with lowland indicator species. Cedar and black spruce start to become big parts of the sub canopy in the eastern portion of stand. Many trees to large to core. A few locations are fully stocked with sawlogs.</p> |
|---|---------------------|----------------|------|-----|--------|-----|---|

| Canopy Species | % Cover | Size Class | DBH | Age |
|----------------------|---------|---------------|-----|-----|
| White Pine | 75 | XLog/Log/Pole | 18 | 130 |
| Red Pine | 10 | XLog/Log | 18 | |
| Northern White Cedar | 10 | Pole/Log | 8 | |
| Red Maple | 5 | Log/Pole | 10 | |

| Sub-Canopy Species | Density | Avg. Height | Size |
|--------------------|---------|-------------|---------|
| Black Spruce | Low | Variable | Sapling |
| White Pine | Medium | Variable | Sapling |
| Northern Pin Oak | Trace | Variable | Sapling |



| Stand | Level 4 Cover Type | Size Density | Acres | Stand Age | BA Range | Managed Site | General Comments | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|--|-----------------|------------|------------|----------|--------------|---|----|--------------|----|-----|----------------------|----|--------------|---|--|--------------|----|--------------|---|----|--|----|--------------------|---------|-------------|---|--------------|--------------------|----------|-------------|-------------|------------------------------|----------|----------|------------|---|----------|--------------------|------------|---|--|--------------|------------------------------|----------|-------------|------------|--------|----------|-------------|------------|---|-------------|------------|---------|--------------|-----|----------|---------|--|--|
| 5 | 6126 - Lowland Jack Pine | Sawtimber Poor | 15.8 | 90 | 1-50 | N/A | Patchy over mature jack pine with pockets of pole and sapling size jack mixed in to open wet areas as well. Nice white pine and spruce recruitment under jack pine pockets in most places. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <table border="1"> <thead> <tr> <th>Canopy Species</th> <th>% Cover</th> <th>Size Class</th> <th>DBH</th> <th>Age</th> </tr> </thead> <tbody> <tr> <td>Jack Pine</td> <td>95</td> <td>Log/Pole</td> <td>10</td> <td>90</td> </tr> <tr> <td>White Pine</td> <td>3</td> <td>Pole/Sapling</td> <td>7</td> <td></td> </tr> <tr> <td>Black Spruce</td> <td>2</td> <td>Pole/Sapling</td> <td>5</td> <td></td> </tr> </tbody> </table> | | Canopy Species | % Cover | Size Class | DBH | Age | Jack Pine | 95 | Log/Pole | 10 | 90 | White Pine | 3 | Pole/Sapling | 7 | | Black Spruce | 2 | Pole/Sapling | 5 | | <table border="1"> <thead> <tr> <th>Sub-Canopy Species</th> <th>Density</th> <th>Avg. Height</th> <th>Size</th> </tr> </thead> <tbody> <tr> <td>Black Spruce</td> <td>Medium</td> <td>Variable</td> <td>Sapling</td> </tr> <tr> <td>Tamarack</td> <td>Low</td> <td>Variable</td> <td>Sapling</td> </tr> <tr> <td>White Pine</td> <td>Medium</td> <td>Variable</td> <td>Sapling</td> </tr> <tr> <td>Jack Pine</td> <td>Low</td> <td>Variable</td> <td>Sapling</td> </tr> <tr> <td>Blueberry/Bilberry/Cranberry</td> <td>High</td> <td>< 5 feet</td> <td>Tall Shrub</td> </tr> <tr> <td>Alder</td> <td>Medium</td> <td>5 - 10 feet</td> <td>Tall Shrub</td> </tr> </tbody> </table> | | Sub-Canopy Species | Density | Avg. Height | Size | Black Spruce | Medium | Variable | Sapling | Tamarack | Low | Variable | Sapling | White Pine | Medium | Variable | Sapling | Jack Pine | Low | Variable | Sapling | Blueberry/Bilberry/Cranberry | High | < 5 feet | Tall Shrub | Alder | Medium | 5 - 10 feet | Tall Shrub | <p>Old comments- Lowland jack pine stand. Plenty of excellent horizontal structure as a result from blowdown.</p> | | | | | | | | | |
| Canopy Species | % Cover | Size Class | DBH | Age | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Jack Pine | 95 | Log/Pole | 10 | 90 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| White Pine | 3 | Pole/Sapling | 7 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Black Spruce | 2 | Pole/Sapling | 5 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Sub-Canopy Species | Density | Avg. Height | Size | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Black Spruce | Medium | Variable | Sapling | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Tamarack | Low | Variable | Sapling | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| White Pine | Medium | Variable | Sapling | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Jack Pine | Low | Variable | Sapling | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Blueberry/Bilberry/Cranberry | High | < 5 feet | Tall Shrub | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Alder | Medium | 5 - 10 feet | Tall Shrub | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 6 | 6122 - Black Spruce | Poletimber Well | 27.0 | 130 | 81-110 | N/A | Legacy pine scattered throughout stand. Lots of pole size white pine concentrated primarily in west 1/3. Stand looks healthy. Cedar also heavy along north edge of stand. Old comments- Black spruce with mixed pine. Cedar and hemlock present closer to the stream. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <table border="1"> <thead> <tr> <th>Canopy Species</th> <th>% Cover</th> <th>Size Class</th> <th>DBH</th> <th>Age</th> </tr> </thead> <tbody> <tr> <td>Black Spruce</td> <td>63</td> <td>Pole/Sap/Log</td> <td>6</td> <td>130</td> </tr> <tr> <td>Northern White Cedar</td> <td>15</td> <td>Pole/Log</td> <td>8</td> <td></td> </tr> <tr> <td>Tamarack</td> <td>2</td> <td>Pole/Sapling</td> <td>6</td> <td></td> </tr> <tr> <td>White Pine</td> <td>10</td> <td>Pole/Log/XLog</td> <td>8</td> <td></td> </tr> <tr> <td>Red Pine</td> <td>3</td> <td>Log/XLog</td> <td>17</td> <td></td> </tr> <tr> <td>Red Maple</td> <td>7</td> <td>Log</td> <td>12</td> <td></td> </tr> </tbody> </table> | | Canopy Species | % Cover | Size Class | DBH | Age | Black Spruce | 63 | Pole/Sap/Log | 6 | 130 | Northern White Cedar | 15 | Pole/Log | 8 | | Tamarack | 2 | Pole/Sapling | 6 | | White Pine | 10 | Pole/Log/XLog | 8 | | Red Pine | 3 | Log/XLog | 17 | | Red Maple | 7 | Log | 12 | | <table border="1"> <thead> <tr> <th>Sub-Canopy Species</th> <th>Density</th> <th>Avg. Height</th> <th>Size</th> </tr> </thead> <tbody> <tr> <td>Black Spruce</td> <td>High</td> <td>Variable</td> <td>Sapling</td> </tr> <tr> <td>White Pine</td> <td>Medium</td> <td>Variable</td> <td>Sapling</td> </tr> <tr> <td>Tag Alder</td> <td>Medium</td> <td>5 - 10 feet</td> <td>Tall Shrub</td> </tr> </tbody> </table> | | Sub-Canopy Species | Density | Avg. Height | Size | Black Spruce | High | Variable | Sapling | White Pine | Medium | Variable | Sapling | Tag Alder | Medium | 5 - 10 feet | Tall Shrub | | | | | | | |
| Canopy Species | % Cover | Size Class | DBH | Age | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Black Spruce | 63 | Pole/Sap/Log | 6 | 130 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Northern White Cedar | 15 | Pole/Log | 8 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Tamarack | 2 | Pole/Sapling | 6 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| White Pine | 10 | Pole/Log/XLog | 8 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Red Pine | 3 | Log/XLog | 17 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Red Maple | 7 | Log | 12 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Sub-Canopy Species | Density | Avg. Height | Size | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Black Spruce | High | Variable | Sapling | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| White Pine | Medium | Variable | Sapling | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Tag Alder | Medium | 5 - 10 feet | Tall Shrub | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 7 | 6220 - Alder/willow | Nonstocked | 2.2 | | | No | Portage Creek. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 8 | 6122 - Black Spruce | Poletimber Well | 40.8 | 115 | 81-110 | N/A | Numerous legacy white pine found through stand. Derived stand age from surrounding stands. Stand still looks healthy. Ground is marginal and could be operable in winter but access is cut off by surrounding swamps. Old comment- A mixed conifer stand. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <table border="1"> <thead> <tr> <th>Canopy Species</th> <th>% Cover</th> <th>Size Class</th> <th>DBH</th> <th>Age</th> </tr> </thead> <tbody> <tr> <td>Black Spruce</td> <td>70</td> <td>Pole/Log/Sap</td> <td>8</td> <td>115</td> </tr> <tr> <td>Northern White Cedar</td> <td>4</td> <td>Pole</td> <td>7</td> <td></td> </tr> <tr> <td>Tamarack</td> <td>5</td> <td>Pole</td> <td>6</td> <td></td> </tr> <tr> <td>White Pine</td> <td>10</td> <td>XLog/Log/Pole</td> <td>18</td> <td></td> </tr> <tr> <td>Red Maple</td> <td>7</td> <td>Log</td> <td>15</td> <td></td> </tr> <tr> <td>Paper Birch</td> <td>2</td> <td>Pole</td> <td>7</td> <td></td> </tr> <tr> <td>Red Pine</td> <td>2</td> <td>XLog</td> <td>20</td> <td></td> </tr> </tbody> </table> | | Canopy Species | % Cover | Size Class | DBH | Age | Black Spruce | 70 | Pole/Log/Sap | 8 | 115 | Northern White Cedar | 4 | Pole | 7 | | Tamarack | 5 | Pole | 6 | | White Pine | 10 | XLog/Log/Pole | 18 | | Red Maple | 7 | Log | 15 | | Paper Birch | 2 | Pole | 7 | | Red Pine | 2 | XLog | 20 | | <table border="1"> <thead> <tr> <th>Sub-Canopy Species</th> <th>Density</th> <th>Avg. Height</th> <th>Size</th> </tr> </thead> <tbody> <tr> <td>Alder</td> <td>Low</td> <td>5 - 10 feet</td> <td>Tall Shrub</td> </tr> <tr> <td>White Pine</td> <td>Low</td> <td>Variable</td> <td>Sapling</td> </tr> <tr> <td>Black Spruce</td> <td>Low</td> <td>Variable</td> <td>Sapling</td> </tr> </tbody> </table> | | Sub-Canopy Species | Density | Avg. Height | Size | Alder | Low | 5 - 10 feet | Tall Shrub | White Pine | Low | Variable | Sapling | Black Spruce | Low | Variable | Sapling | | |
| Canopy Species | % Cover | Size Class | DBH | Age | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Black Spruce | 70 | Pole/Log/Sap | 8 | 115 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Northern White Cedar | 4 | Pole | 7 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Tamarack | 5 | Pole | 6 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| White Pine | 10 | XLog/Log/Pole | 18 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Red Maple | 7 | Log | 15 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Paper Birch | 2 | Pole | 7 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Red Pine | 2 | XLog | 20 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Sub-Canopy Species | Density | Avg. Height | Size | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Alder | Low | 5 - 10 feet | Tall Shrub | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| White Pine | Low | Variable | Sapling | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Black Spruce | Low | Variable | Sapling | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 9 | 6220 - Alder/willow | Nonstocked | 29.1 | | | No | Portage creek and associated wetland. Lots of dead cedar along bank. Some spruce seedlings and scattered tamarack but not enough to call forested. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 10 | 6129 - Mixed Coniferous Lowland Forest | Poletimber Poor | 34.6 | 84 | 1-50 | N/A | Open alder areas throughout stand with pockets of pole and sapling size cedar, tamarack and spruce. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <table border="1"> <thead> <tr> <th>Canopy Species</th> <th>% Cover</th> <th>Size Class</th> <th>DBH</th> <th>Age</th> </tr> </thead> <tbody> <tr> <td>Black Spruce</td> <td>20</td> <td>Sapling/Pole</td> <td>4</td> <td></td> </tr> <tr> <td>Northern White Cedar</td> <td>30</td> <td>Pole/Sapling</td> <td>5</td> <td></td> </tr> <tr> <td>Tamarack</td> <td>45</td> <td>Pole/Sapling</td> <td>6</td> <td>84</td> </tr> <tr> <td>White Pine</td> <td>5</td> <td>Pole/Log/XLog</td> <td>8</td> <td></td> </tr> </tbody> </table> | | Canopy Species | % Cover | Size Class | DBH | Age | Black Spruce | 20 | Sapling/Pole | 4 | | Northern White Cedar | 30 | Pole/Sapling | 5 | | Tamarack | 45 | Pole/Sapling | 6 | 84 | White Pine | 5 | Pole/Log/XLog | 8 | | <table border="1"> <thead> <tr> <th>Sub-Canopy Species</th> <th>Density</th> <th>Avg. Height</th> <th>Size</th> </tr> </thead> <tbody> <tr> <td>Blueberry/Bilberry/Cranberry</td> <td>High</td> <td>< 5 feet</td> <td>Tall Shrub</td> </tr> <tr> <td>Alder</td> <td>Full</td> <td>5 - 10 feet</td> <td>Tall Shrub</td> </tr> </tbody> </table> | | Sub-Canopy Species | Density | Avg. Height | Size | Blueberry/Bilberry/Cranberry | High | < 5 feet | Tall Shrub | Alder | Full | 5 - 10 feet | Tall Shrub | <p>Old comments- Tamarack density varies throughout. Drainage...very wet.</p> | | | | | | | | | | | | | | | | | | | | |
| Canopy Species | % Cover | Size Class | DBH | Age | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Black Spruce | 20 | Sapling/Pole | 4 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Northern White Cedar | 30 | Pole/Sapling | 5 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Tamarack | 45 | Pole/Sapling | 6 | 84 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| White Pine | 5 | Pole/Log/XLog | 8 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Sub-Canopy Species | Density | Avg. Height | Size | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Blueberry/Bilberry/Cranberry | High | < 5 feet | Tall Shrub | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Alder | Full | 5 - 10 feet | Tall Shrub | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |



| Stand | Level 4 Cover Type | Size Density | Acres | Stand Age | BA Range | Managed Site | General Comments | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|--|-------------------|------------|------------|----------|--------------|---|----|--------------|----|-----|----------------------|----|----------|----|--|--------------|----|--------------|---|-----|---|----|--------------------|---------|-------------|--|--------------|--------------------|----------|-------------|---|------------------------------|--------------------|----------|-------------|--|--------------|--------------------|-------------|-------------|--------------|--------------|------------|----------|-----------|------------|----------|----------|---------|-----------|-----|--------------|---------|
| 11 | 6129 - Mixed Coniferous Lowland Forest | Poletimber Well | 9.4 | 110 | 81-110 | N/A | Spruce/cedar swamp slightly dryer than surrounding tamarack stand (less alder and standing water). Old comment- Mixed conifer swamp. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| Canopy Species | % Cover | Size Class | DBH | Age | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Black Spruce | 45 | Pole/Sap/Log | 8 | 110 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Northern White Cedar | 40 | Pole/Log | 9 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Tamarack | 10 | Pole/Log | 8 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Red Maple | 5 | Log/Pole | 10 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Sub-Canopy Species | Density | Avg. Height | Size | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Blueberry/Bilberry/Cranberry | Medium | < 5 feet | Tall Shrub | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Alder | Medium | 5 - 10 feet | Tall Shrub | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Willow spp. | Medium | 5 - 10 feet | Tall Shrub | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 12 | 6122 - Black Spruce | Poletimber Poor | 195.0 | 115 | 1-50 | N/A | Wet/brushy stand difficult to navigate. Pole size spruce, cedar, and tamarack mostly with some scattered stunted legacy white pine. Used adjacent stand 14 age to estimate stand 12 age. Lots of open alder areas. Came across a couple islands of dense cedar/spruce cover (100% canopy closure). Walked east 1/3 of stand and poked in on west side. Used aerial imagery to figure out rest of stand cover. Split some of the larger alder openings towards the west into multipart stand 26. Mixed conifer swamp. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| Canopy Species | % Cover | Size Class | DBH | Age | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Black Spruce | 50 | Pole/Sapling | 6 | 115 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Northern White Cedar | 30 | Pole/Log | 8 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Tamarack | 15 | Pole | 8 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| White Pine | 3 | Log | 12 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Red Maple | 2 | Log | 12 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Sub-Canopy Species | Density | Avg. Height | Size | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Tag Alder | Full | 5 - 10 feet | Tall Shrub | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Black Spruce | Medium | Variable | Sapling | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 13 | 6121 - Tamarack | Poletimber Medium | 103.5 | 125 | 81-110 | N/A | Tamarack with alder and grass underneath. Standing water through whole stand during warm winter inventory. Old comments- A nice looking mixed conifer swamp. Several deer runs. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| Canopy Species | % Cover | Size Class | DBH | Age | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Black Spruce | 35 | Pole/Sapling | 7 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Northern White Cedar | 15 | Pole | 7 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Tamarack | 50 | Pole/Log | 8 | 125 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Sub-Canopy Species | Density | Avg. Height | Size | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Black Spruce | Low | Variable | Sapling | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Tamarack | Low | Variable | Sapling | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Alder | Full | 5 - 10 feet | Tall Shrub | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 14 | 6122 - Black Spruce | Poletimber Well | 158.2 | 115 | 51-80 | N/A | East side of stand is a bit dryer with greater number of legacy pines and higher basal area. Ground gets wetter, hummocky, and more open with leather leaf as you move southwest. Northwest portion has a decent red pine component mixed in with spruce. Old comments- Black spruce with mixed pine. Cedar and hemlock present closer to the stream. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| Canopy Species | % Cover | Size Class | DBH | Age | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Black Spruce | 62 | Pole/Sap/Log | 6 | 115 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Northern White Cedar | 5 | Pole | 6 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Tamarack | 2 | Pole/Sapling | 6 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| White Pine | 15 | XLog/Log/Pole | 18 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Red Pine | 12 | Log/XLog | 16 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Red Maple | 4 | Sapling/Pole | 4 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Sub-Canopy Species | Density | Avg. Height | Size | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Black Spruce | High | Variable | Sapling | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| White Pine | Medium | Variable | Sapling | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Red Maple | Low | 10 - 20 feet | Sapling | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 15 | 6127 - Lowland Pine | Sawtimber Well | 70.8 | 130 | 81-110 | N/A | Healthy pine. Changed stand from lowland to lowland with upland. Most places do look like they would be operable but, rutting could be an issue certain times of year. West half of stand is Kinross Muck and Kinross Augres complex in southwest lobe. East half is Augres sand. Ground gets hummocky with shallow rooted blow down present in wetter areas. Usually 30-60ba of xlog pine with sapling and pole size white pine and spruce between. Maple and occasional oak mixed in pretty steady through stand. Stand has a 2 age feel in most places but, no distinct second age class. Sub canopy goes from sapling size to pole size in a few spots. Trace white oak, hemlock, and cedar in stand (mostly in the south). Old comments- Sawlog white and red pine w/ mixed hdwds and spruce. Dense under story of white pine and black spruce. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| Canopy Species | % Cover | Size Class | DBH | Age | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Red Maple | 15 | Log/Pole | 10 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Northern Pin Oak | 3 | Log/XLog | 15 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Black Spruce | 25 | Pole/Sap/Log | 8 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| White Pine | 45 | XLog/Log/Pole | 18 | 130 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Red Pine | 12 | Log/XLog | 16 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Sub-Canopy Species | Density | Avg. Height | Size | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Black Spruce | Medium | >20 feet | Sapling | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| White Pine | High | >20 feet | Sapling | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Red Maple | Low | >20 feet | Sapling | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |



| Stand | Level 4 Cover Type | Size Density | Acres | Stand Age | BA Range | Managed Site | General Comments | |
|------------------------|-----------------------------|-------------------|-------------------|------------|------------|---------------------------|---|--|
| 16 | 42290 - Natural Mixed Pine | Sawtimber Well | 18.1 | 107 | 111-140 | N/A | Cutting records indicate jack pine and spruce removal around 1967 with red and white pine understory protected. Stand was thinned in 2006 to residual BA 80-90 along with stand 13 of comp 181. Faded red timber sale boundary paint and a couple orange marked trees still evident. | |
| Canopy Species | | % Cover | Size Class | DBH | Age | Sub-Canopy Species | | |
| White Pine | | 45 | Log/XLog | 16 | | Black Spruce | | |
| Red Pine | | 55 | Log/XLog | 16 | 107 | Red Maple | | |
| | | | | | | White Pine | | |
| | | | | | | Density | | |
| | | | | | | Avg. Height | | |
| | | | | | | Size | | |
| 17 | 6127 - Lowland Pine | Sawtimber Medium | 10.9 | 115 | 81-110 | N/A | Records indicate stand was thinned sometime in the 1993 YOE. Changed from lowland to lowland with upland. Most of stand appears operable if dry or frozen. Strip of lowland cedar/spruce/hemlock (stand 22) adjacent to Portage creek split from stand 17 and ended up isolating the west piece (stand 25) into a separate stand. Old comment- Super canopy white and red pine over a thick carpet of white pine regen 10-30' tall. | |
| Canopy Species | | % Cover | Size Class | DBH | Age | Sub-Canopy Species | | |
| Red Maple | | 7 | Log/Pole | 10 | | White Pine | | |
| Black Spruce | | 10 | Pole | 7 | | Black Spruce | | |
| White Pine | | 40 | XLog/Log/Pole | 20 | 115 | | | |
| Red Pine | | 35 | Log/XLog | 17 | | | | |
| Northern Pin Oak | | 5 | Log/XLog | 16 | | | | |
| Tamarack | | 3 | Pole | 8 | | | | |
| 18 | 4310 - Pine, Oak Mix | Sawtimber Well | 21.6 | 107 | 81-110 | N/A | According to cutting records, there was a 5 acre clearcut in 1968. Jack pine and spruce were removed within 2 chains of Euclid Ave. Stand has transitioned more towards a pine oak mix. Lots of dead and declining oak. Good pine understory. Sliver east of Euclid has power line and multiple driveways that cross through. Site where spoils were dumped from Portage dredging located in north side of stand. Old Comments-Dry in most areas -sandy ridges-but has a high water table. A few lowland areas found throughout. | |
| Canopy Species | | % Cover | Size Class | DBH | Age | Sub-Canopy Species | | |
| Red Maple | | 7 | Log/Pole | 10 | | Black Spruce | | |
| White Oak | | 18 | Log/Pole | 12 | | White Pine | | |
| Black/Red (Hybrid) Oak | | 27 | Log | 15 | 107 | | | |
| Black Spruce | | 3 | Pole/Sapling | 6 | | | | |
| White Pine | | 25 | Pole/Log | 8 | | | | |
| Red Pine | | 20 | Log/XLog | 16 | | | | |
| 19 | 429 - Mixed Upland Conifers | Sawtimber Well | 7.7 | 50 | 51-80 | N/A | Changed cover type from even-aged oak to 2-age mixed conifer. Stand has transitioned to conifer dominated. A lot of the oak is declining or dead and the pine has been recruiting in the gaps. Scattered legacy pines scattered through stand. Stand is surrounded by lowlands. old comment- Oak ridge | |
| Canopy Species | | % Cover | Size Class | DBH | Age | Sub-Canopy Species | | |
| Red Maple | | 5 | Log | 14 | | Black Spruce | | |
| White Oak | | 10 | Log/XLog | 16 | | White Pine | | |
| Northern Pin Oak | | 25 | Log/XLog | 16 | 130 | | | |
| Black Spruce | | 2 | Pole | 6 | | | | |
| White Pine | | 48 | Pole/Sapling | 6 | 50 | | | |
| Red Pine | | 10 | Pole | 7 | | | | |
| 20 | 6120 - Lowland Cedar | Poletimber Medium | 17.7 | 120 | 51-80 | N/A | Wet cedar/tag alder stand split off parent stand 15. Super canopy white pine along edges and in the north. | |
| Canopy Species | | % Cover | Size Class | DBH | Age | Sub-Canopy Species | | |
| Northern White Cedar | | 50 | Pole/Log | 9 | 120 | Tag Alder | | |
| Black Spruce | | 30 | Pole/Sapling | 6 | | Density | | |
| Red Maple | | 10 | Log/Pole | 10 | | Avg. Height | | |
| White Pine | | 7 | Log/XLog | 16 | | Size | | |
| Paper Birch | | 3 | Pole | 8 | | | | |



| Stand | Level 4 Cover Type | Size Density | Acres | Stand Age | BA Range | Managed Site | General Comments | |
|-----------------------|--|-------------------|-------------------|------------|------------|------------------------------|---|--|
| 21 | 6129 - Mixed Coniferous Lowland Forest | Poletimber Medium | 16.4 | 135 | 1-50 | N/A | Stunted legacy white pines scattered throughout with cedar, spruce, tamarack between. Heavy alder underneath canopy and open alder pockets throughout. Sphagnum, grass, and standing water below that. Old comment- mixed cedar, spruce, and tamarack. | |
| Canopy Species | | % Cover | Size Class | DBH | Age | Sub-Canopy Species | | |
| Black Spruce | | 25 | Pole/Log/Sap | 7 | | Black Spruce | | |
| Northern White Cedar | | 35 | Pole/Log | 8 | 135 | Alder | | |
| Tamarack | | 15 | Pole/Log | 8 | | Tamarack | | |
| White Pine | | 25 | Log/XLog | 16 | | Density | | |
| | | | | | | Avg. Height | | |
| | | | | | | Size | | |
| 22 | 6129 - Mixed Coniferous Lowland Forest | Sawtimber Well | 23.7 | 120 | 81-110 | N/A | Lowland cedar/spruce stand with some dense hemlock pockets split from parent stand 17 and merged with stand 22. A small stream runs north from stand 21 into portage creek (stand 9). | |
| Canopy Species | | % Cover | Size Class | DBH | Age | Sub-Canopy Species | | |
| Red Maple | | 7 | Log/Pole | 10 | | Tag Alder | | |
| Black Spruce | | 25 | Pole | 7 | | Black Spruce | | |
| White Pine | | 3 | Log/XLog | 17 | | Density | | |
| Northern White Cedar | | 40 | Pole/Log | 8 | 120 | Avg. Height | | |
| Hemlock | | 25 | Log/Pole | 12 | | Size | | |
| 23 | 4191 - Mixed Upland Deciduous with Conifer | Sawtimber Well | 11.2 | 95 | 81-110 | N/A | Larger oaks are showing signs of decline. Good white pine growth coming up between sites. Changed age from 110 to 92 but, there are scattered white pine that are that old in stand. Old comment- Lk Margarethe State Forest Campground. | |
| Canopy Species | | % Cover | Size Class | DBH | Age | Sub-Canopy Species | | |
| Red Maple | | 15 | Pole/Log | 9 | | Black Spruce | | |
| White Oak | | 20 | Log/Pole | 12 | | White Pine | | |
| Northern Pin Oak | | 23 | Log/Pole | 12 | | Alder | | |
| White Pine | | 30 | Log/XLog | 16 | 95 | Density | | |
| Red Pine | | 10 | Log/XLog | 16 | | Avg. Height | | |
| | | | | | | Size | | |
| 24 | 6128 - Lowland Coniferous, Mixed Deciduous | Poletimber Poor | 14.1 | 108 | 1-50 | N/A | Canopy cover closer to 25% with many open alder areas. Difficult to navigate due to blow down and alder. Walked into north 1/3 and edge checked south side. Old comment- Very wet...lots of tag alder. This parcel was considered for a pike marsh by fisheries many years ago. | |
| Canopy Species | | % Cover | Size Class | DBH | Age | Sub-Canopy Species | | |
| Red Maple | | 20 | Sapling/Pole | 3 | | Red Osier Dogwood | | |
| Quaking Aspen | | 2 | Sapling/Pole | 3 | | Blueberry/Bilberry/Cranberry | | |
| Black Spruce | | 25 | Pole/Sapling | 5 | | Alder | | |
| Northern White Cedar | | 40 | Pole/Log | 8 | 108 | Willow spp. | | |
| Tamarack | | 7 | Pole/Sapling | 6 | | Density | | |
| White Pine | | 3 | Log/XLog | 16 | | Avg. Height | | |
| | | | | | | Size | | |



| Stand | Level 4 Cover Type | Size Density | Acres | Stand Age | BA Range | Managed Site | General Comments | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|----------------------------|------------------|---------|------------|-------------|--------------|--|-----------|---|----------|----|--|--------------|----|------|---|--|------------|----|---------------|----|-----|----------|----|----------|----|--|------------------|---|----------|----|--|----------|---|------|---|--|--|--|--------------------|---------|-------------|------|------------|------|----------|---------|--------------|--------|----------|
| 25 | 42290 - Natural Mixed Pine | Sawtimber Medium | 12.6 | 115 | 81-110 | N/A | <p>Originally part of stand 17 but ended up splitting off due to strip of cedar/spruce/hemlock lowland (stand 22) dividing stand in middle. Records indicate stand was thinned sometime in the 1993 YOY. Must have used crane mats and done it in winter to get across creek and lowland cedar. Changed stand from lowland to upland with lowlands. Looks like wetter areas are covered in leather leaf where most of this stand is bracken fern with upland associated species.</p> <p>Old comment (stand 17)- Super canopy white and red pine over a thick carpet of white pine regen 10-30' tall.</p> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <table border="1"> <thead> <tr> <th>Canopy Species</th> <th>% Cover</th> <th>Size Class</th> <th>DBH</th> <th>Age</th> </tr> </thead> <tbody> <tr> <td>Red Maple</td> <td>7</td> <td>Log/Pole</td> <td>10</td> <td></td> </tr> <tr> <td>Black Spruce</td> <td>10</td> <td>Pole</td> <td>7</td> <td></td> </tr> <tr> <td>White Pine</td> <td>40</td> <td>XLog/Log/Pole</td> <td>20</td> <td>115</td> </tr> <tr> <td>Red Pine</td> <td>35</td> <td>Log/XLog</td> <td>17</td> <td></td> </tr> <tr> <td>Northern Pin Oak</td> <td>5</td> <td>Log/XLog</td> <td>16</td> <td></td> </tr> <tr> <td>Tamarack</td> <td>3</td> <td>Pole</td> <td>8</td> <td></td> </tr> </tbody> </table> | | Canopy Species | % Cover | Size Class | DBH | Age | | Red Maple | 7 | Log/Pole | 10 | | Black Spruce | 10 | Pole | 7 | | White Pine | 40 | XLog/Log/Pole | 20 | 115 | Red Pine | 35 | Log/XLog | 17 | | Northern Pin Oak | 5 | Log/XLog | 16 | | Tamarack | 3 | Pole | 8 | | <table border="1"> <thead> <tr> <th>Sub-Canopy Species</th> <th>Density</th> <th>Avg. Height</th> <th>Size</th> </tr> </thead> <tbody> <tr> <td>White Pine</td> <td>High</td> <td>Variable</td> <td>Sapling</td> </tr> <tr> <td>Black Spruce</td> <td>Medium</td> <td>Variable</td> <td>Sapling</td> </tr> </tbody> </table> | | Sub-Canopy Species | Density | Avg. Height | Size | White Pine | High | Variable | Sapling | Black Spruce | Medium | Variable |
| Canopy Species | % Cover | Size Class | DBH | Age | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Red Maple | 7 | Log/Pole | 10 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Black Spruce | 10 | Pole | 7 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| White Pine | 40 | XLog/Log/Pole | 20 | 115 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Red Pine | 35 | Log/XLog | 17 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Northern Pin Oak | 5 | Log/XLog | 16 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Tamarack | 3 | Pole | 8 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Sub-Canopy Species | Density | Avg. Height | Size | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| White Pine | High | Variable | Sapling | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Black Spruce | Medium | Variable | Sapling | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 26 | 6220 - Alder/willow | Nonstocked | 28.1 | 0 | Unspecified | No | Open lowlands with full alder. Multipart stand. Checked the north part of stand 26 but not the lower parts. They look the same on aerial photo. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |