



Compartment Review Presentation

Traverse City Forest Management Unit

Compartment 61110

Entry Year 2022

Acreage: 2,183

County Kalkaska

Management Area: Grayling Ice Contact

Revision Date: 2020-07-08

Stand Examiner: Steve Crigier

Legal Description:

T27N, R5W, Sections 1, 2, 3 and E1/2 of 4.

Identified Planning Goals:

Management in the Grayling Ice Contact management area (MA) will emphasize continuing to balance the age class of aspen on suitable sites and thinning the northern hardwoods, balancing age classes of red pine and jack pine and regenerating the aging oak resource. Management will strive to sustainably produce various forest products; enhance game and non-game wildlife habitat; protect areas of unique character, such as the historic Deward Tract; and provide for forest-based recreational uses. With about 3% of the management area being lowland, management activities will be minimally constrained. Expected trends within this 10-year planning period are increased recreational pressure, managing oil and gas development, introduced pests and diseases and the difficulty in regenerating oak.

Soil and topography:

Soils are predominantly Blue Lake, Kalkaska and Rubicon Sands. Topography is flat on the east end of the compartment becoming fairly hilly west of Waterfowl Road.

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

The compartment is adjacent to state and private property. The private property is a mix of residential and recreational.

Unique Natural Features:

There is potential for Eastern Massasauga within the compartment.

Archeological, Historical, and Cultural Features:

None known.

Special Management Designations or Considerations:

Goose Creek has a Natural Rivers Designation.

Watershed and Fisheries Considerations:

Goose Creek flows through Compartment 110. Goose Creek is a Designated Trout Stream. Goose Creek hosts self-sustaining populations of brook and brown trout. Goose Creek is also protected under the Upper Manistee River Natural Rivers Designation. Any forest treatments proposed near Goose Creek should be designed with the health of the stream in mind.

Wildlife Habitat Considerations:

This compartment is quite diverse in landform. Sections 3 and 4, the west ½ of section 2, and part of section 5 fall in an ice-contact ridge area. Mature northern hardwood forest occupies hills and ridges forming a large block of contiguous deciduous forest cover, which should be maintained as such. Selective harvests should incorporate maintenance of tree species diversity particularly hemlock and beech, if possible, creation of canopy gaps, retention of cavity trees, and creation of down logs as habitat structure. Conifer components present in the past are largely absent now, but a few spruce plantings complement the northern hardwoods dominated uplands. Grassy or brushy draws fall between the ridges and some have been planted to conifer. These draws can be maintained in semi-open habitat with a fruiting shrub component through periodic harvest or burning. Several Wildlife openings in these draws will be rehabbed and planted to herbaceous vegetation suitable for food and cover. Outwash channels along the Goose Creek Floodplain cover section 1 and the east ½ of section 2. Well-drained soils harbor oak-aspen-pine forest and upland brush openings. Diverse habitat conditions there should be maintained via periodic harvesting or burning. A prescribed burn was conducted in an upland brush stand here in 2000 and a similar treatment will be prescribed again for this entry period. Final harvests should retain residual trees and snags. Poorly drained soils along Goose Creek should be maintained in lowland conifer forest and wetlands. The Goose Creek Wildlife Flooding was de-commissioned around 2002 and has since been re-flooded by beavers, providing continued and additional habitat diversity.

Mineral Resource and Development Concerns and/or Restrictions

Surface sediments consist of ice-contact and glacial outwash sand and gravel and postglacial alluvium. The glacial drift thickness varies between 400 and 800 feet. Beneath the glacial drift is the Mississippian Coldwater Shale. The Coldwater does not have an economic use. The nearest gravel pit is within one mile to the northwest in Section 31, T28N-R5W. Gravel potential in the compartment is considered good, especially the western uplands. This area is located south of the Niagaran reef trend and the Antrim Shale gas play. All the State's mineral rights are currently leased for oil and gas development.

Vehicle Access:

The interior of the compartment has a network of seasonal county roads and state forest secondary and forest access roads.

Survey Needs:

None needed.

Recreational Facilities and Opportunities:

Kalkaska ORV Route and Blue Bear Snowmobile trail run through this Comp. Upper portion of Goose Creek and the Goose Creek flooding in the eastern part of the compartment. There is a wide range of hunting , fishing and outdoor recreation.

Fire Protection:

This compartment is in the jurisdiction of Bear Lake Township Fire Department and the Department of Natural Resources (Kalkaska).

Additional Compartment Information:

The following reports from the Inventory are attached:

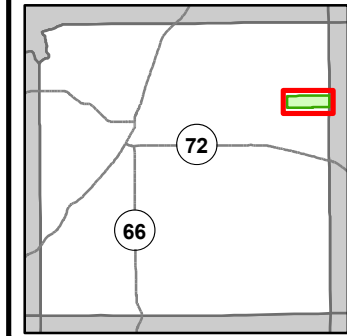
- Total Acres by Cover Type and Age Class**
- Cover Type by Harvest Method**
- Proposed Treatments – No Limiting Factors**
- Proposed Treatments – With Limiting Factors**
- Stand Details (Forested and Nonforested)**
- Dedicated and Proposed Special Conservation Areas**
- Site Condition Details**

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

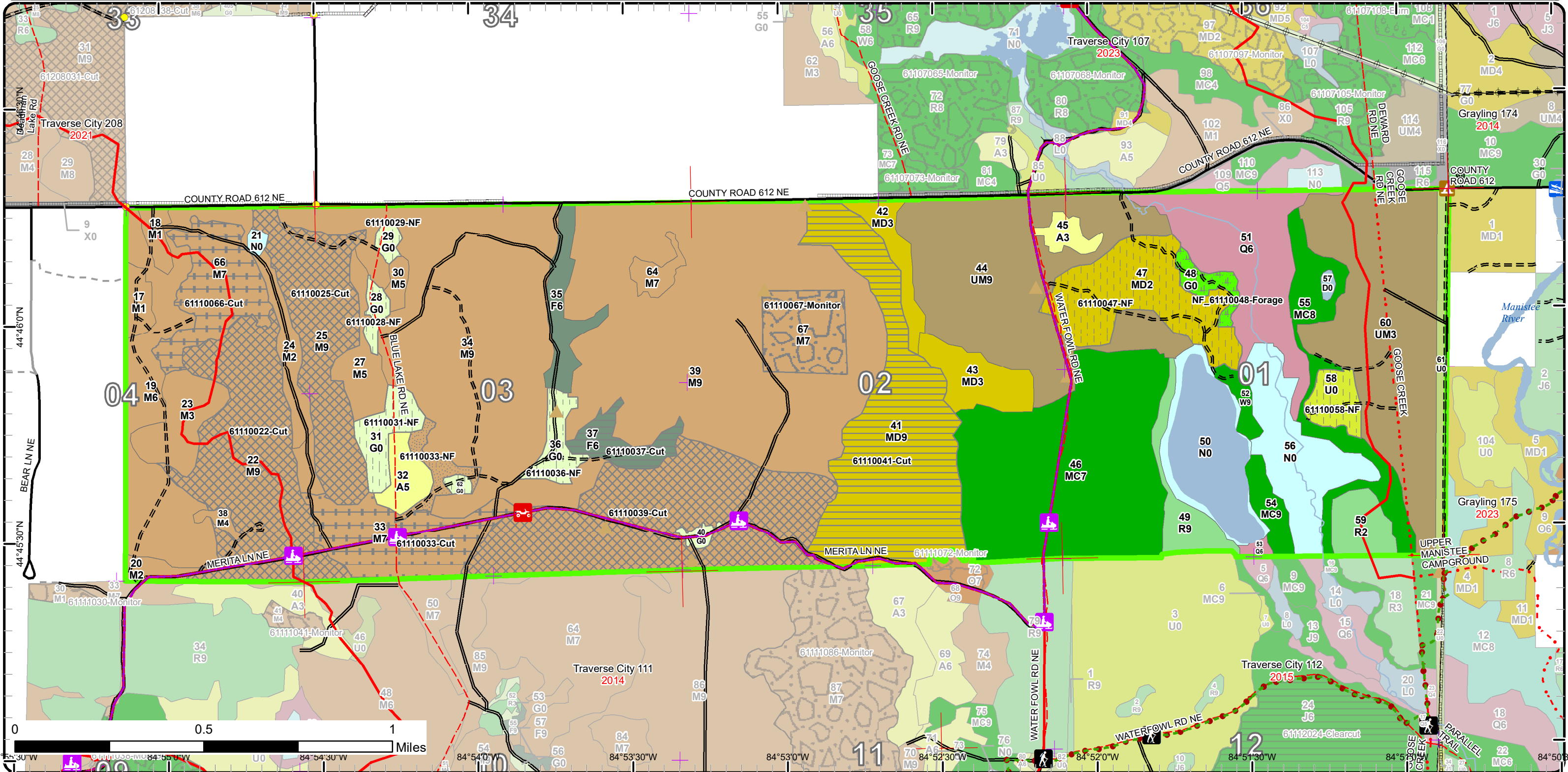
- Base feature information, stand boundaries, cover types, and numbers**
- Proposed treatments**
- Site condition boundaries**
- Details on the road access system**

Cover Type & Treatments Map

Compartment: 110
 T27N, R05W, Sec. 1-4
 County: Kalkaska
 Unit: Traverse City
 Mgmt Area: Grayling Ice Contact
 YOE: 2022
 Acres: 2,182.9 GIS Calculated
 Examiner: Steve Crigier
 Map Revised: 1/6/2021
 Map Phase: Post-Review

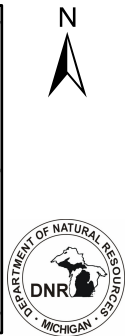
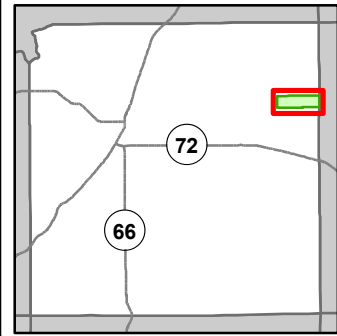


- Miris Corners
- + Remonumented Section Corners
- Survey Grade Corners
- Counties
- DNR - Secondary Forest Road
- DNR - Forest Access Route
- Federal / State / County - Paved Road
- County - Gravel Road
- County - Dirt Road (Seasonal)
- Private - Paved Road
- Private - Dirt / Gravel Road
- ▲ Hiking Trails
- ▲ Horse Trails
- ORV Routes
- ▲ Snowmobile Trails
- - - Designated Hiking Trails
- Designated Equestrian Trails
- - - Designated ATV Trails
- - - Designated ORV Route
- - - Designated Snowmobile Trails
- ▲ Berms
- ▲ Boating Access Site
- ▲ Bridges
- ▲ Campground
- Island in Lake or River
- Lake/Pond
- Perennial River
- Lakes and Rivers
- Pipeline
- Powerline
- Compartment Boundary
- Other Treatment - See Comments
- Selection (Group, Single Tree)
- Clearcut (w/Reserves)
- Harvest, Overstory Removal
- Regeneration Survey
- Opening Maintenance
- Mowing
- 411 - Northern Hardwood
- 413 - Aspen Types
- 419 - Mixed Upland Deciduous
- 421 - Planted Pines
- 422 - Natural Pines
- 423 - Other Upland Conifers
- 430 - Upland Mixed Forest
- 612 - Lowland Coniferous Forest
- 211 - Cropland
- 310 - Herbaceous Openland
- 320 - Upland Shrub
- 330 - Low Density Trees
- 622 - Lowland Shrub
- 623 - Emergent Wetland

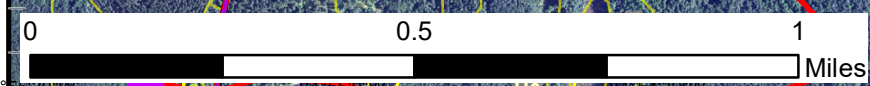
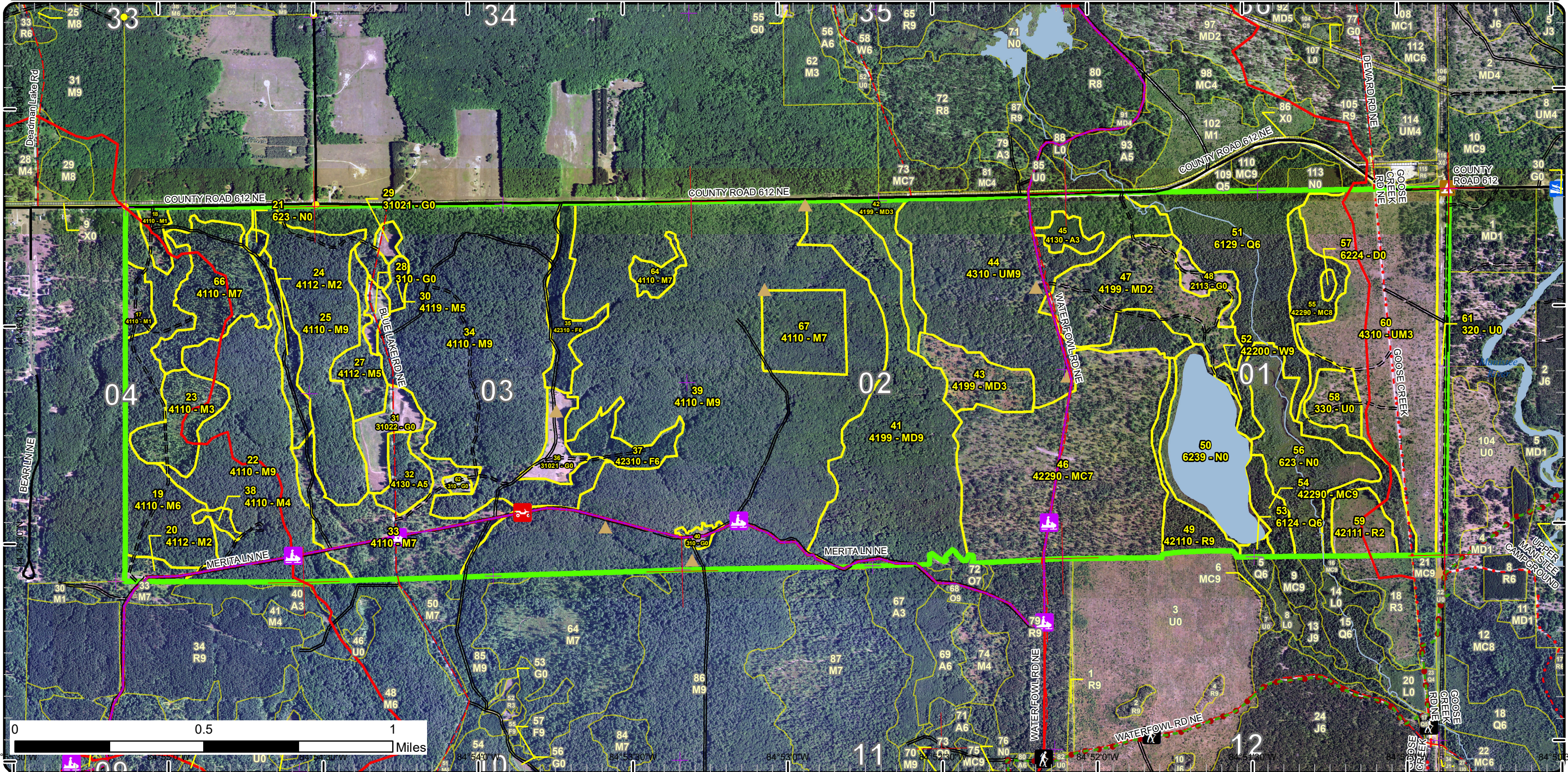


Stand Boundary Map

Compartment: 110
 T27N, R05W, Sec. 1-4
 County: Kalkaska
 Unit: Traverse City
 Mgmt Area: Grayling Ice Contact
 YOE: 2022
 Acres: 2,182.9 GIS Calculated
 Examiner: Steve Crigier
 Map Revised: 1/6/2021
 Map Phase: Post-Review



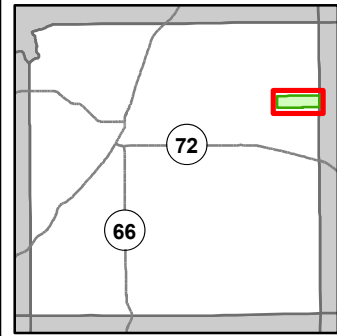
- Miris Corners
- + Remonumented Section Corners
- Survey Grade Corners
- Counties
- DNR - Secondary Forest Road
- DNR - Forest Access Route
- Federal / State / County - Paved Road
- County - Gravel Road
- County - Dirt Road (Seasonal)
- Private - Paved Road
- Private - Dirt / Gravel Road
- 🚶 Hiking Trails
- 🐎 Horse Trails
- 🚗 ORV Routes
- 🛷 Snowmobile Trails
- Designated Hiking Trails
- Designated Equestrian Trails
- Designated ATV Trails
- Designated ORV Route
- Designated Snowmobile Trails
- ▲ Berms
- 🚤 Boating Access Site
- 🌉 Bridges
- ▲ Campground
- Island in Lake or River
- Lake/Pond
- Perennial River
- Lakes and Rivers
- Pipeline
- ⚡ Powerline
- Compartment Boundary
- Stand Boundaries
- 411 - Northern Hardwood
- 413 - Aspen Types
- 419 - Mixed Upland Deciduous
- 421 - Planted Pines
- 422 - Natural Pines
- 423 - Other Upland Conifers
- 430 - Upland Mixed Forest
- 612 - Lowland Coniferous Forest
- 211 - Cropland
- 310 - Herbaceous Openland
- 320 - Upland Shrub
- 330 - Low Density Trees
- 622 - Lowland Shrub
- 623 - Emergent Wetland



84° 54' 0" W
84° 53' 0" W
84° 52' 0" W
84° 51' 0" W
84° 50' 0" W

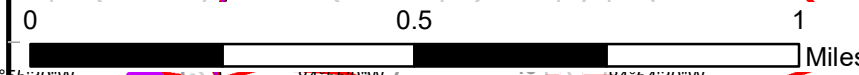
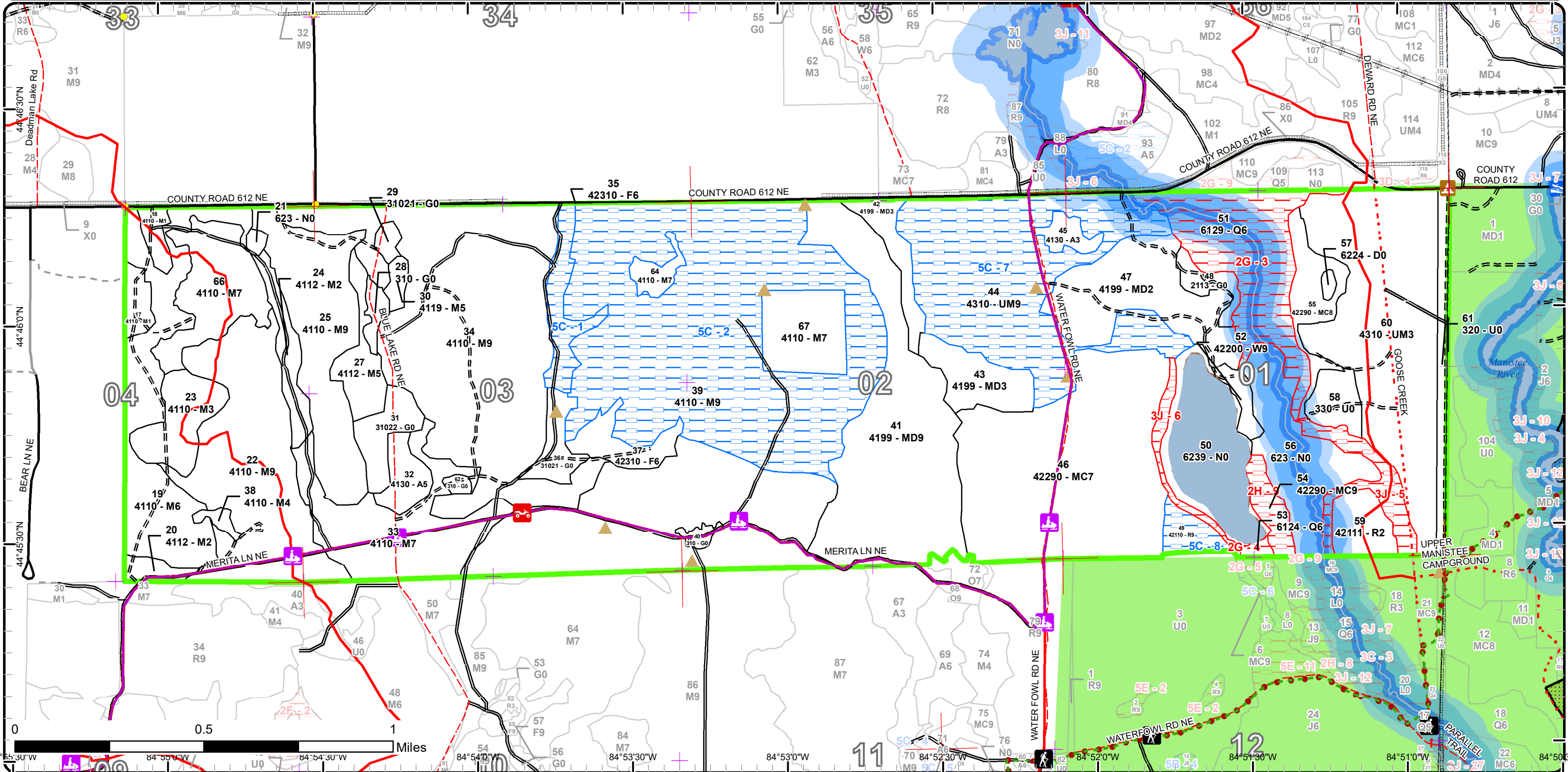
Special Conservation Areas

Compartment: 110
 T27N, R05W, Sec. 1-4
 County: Kalkaska
 Unit: Traverse City
 Mgmt Area: Grayling Ice Contact
 YOE: 2022
 Acres: 2,182.9 GIS Calculated
 Examiner: Steve Crigier
 Map Revised: 1/6/2021
 Map Phase: Post-Review



- Miris Corners
- + Remonumented Section Corners
- Survey Grade Corners
- Counties
- DNR - Secondary Forest Road
- DNR - Forest Access Route
- Federal / State / County - Paved Road
- County - Gravel Road
- County - Dirt Road (Seasonal)
- Private - Paved Road
- Private - Dirt / Gravel Road
- ▲ Hiking Trails
- ▲ Horse Trails
- ORV Routes
- Snowmobile Trails
- Designated Hiking Trails
- Designated Equestrian Trails
- Designated ATV Trails
- Designated ORV Route
- Designated Snowmobile Trails
- ▲ Berms
- ▲ Boating Access Site
- ▲ Bridges
- ▲ Campground
- Island in Lake or River
- Lake/Pond
- Perennial River
- Lakes and Rivers
- Pipeline
- Powerline
- Compartment Boundary
- Available w/ Constraints
- Unavailable
- Stand Boundaries
- SCA
- Natural Rivers Vegetative Buffer
- Natural Rivers Zoning District
- Kirtland Warbler Habitat
- Cold Water Streams
- Cold Water Lakes
- High Priority Trout Stream Buffer
- Wildlife Management Areas
- State Forest Campground

5C: Delay treatment for age/size class diversity or exceptional site quality
 2G: Too wet (sensitive soils, does not include access issues)
 2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)
 3J: Water quality / BMPs (stream, river, or lake)



0 0.5 1 Miles
 84°55'30"W 84°55'00"W 84°54'30"W 84°54'00"W 84°53'30"W 84°53'00"W 84°52'30"W 84°52'00"W 84°51'30"W 84°51'00"W 84°50'30"W

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	0	0	7	0	12	0	0	0	0	0	0	0	0	0	0	0	0	19
Cropland	8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	8
Herbaceous Openland	41	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	41
Low-Density Trees	13	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	13
Lowland Conifers	0	0	0	0	0	0	0	0	0	0	73	0	0	0	0	0	0	0	73
Marsh	106	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	106
Mixed Upland Deciduous	0	0	23	0	75	0	0	0	0	0	132	0	0	0	0	0	0	0	230
Natural Mixed Pines	0	0	0	0	0	0	39	0	171	0	0	0	0	0	0	0	0	0	210
Northern Hardwood	0	25	27	0	0	0	4	82	540	426	0	0	0	0	0	0	0	8	1111
Red Pine	0	16	0	0	0	0	0	0	18	0	0	0	0	0	0	0	0	0	34
Treed Bog	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
Upland Mixed Forest	0	0	137	0	0	0	0	0	0	0	142	0	0	0	0	0	0	0	279
Upland Shrub	17	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	17
Upland Spruce/Fir	0	0	0	0	0	0	15	19	0	0	0	0	0	0	0	0	0	0	34
White Pine	0	0	0	0	0	0	0	0	6	0	0	0	0	0	0	0	0	0	6
Total	187	41	187	7	75	12	15	62	88	729	773	0	0	0	0	0	0	8	2183



Report 2 – Treatment Summary

Traverse City Mgt. Unit
Year of Entry: 2022

Acres of Harvest

Compartment 110
Total Compartment Acres: 2,183

Commercial Harvest - 563
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
Mixed Upland Deciduous	132	0	0	0	0	0	0	0	0	132
Northern Hardwood	0	324	0	0	0	0	92	0	0	416
Upland Spruce/Fir	15	0	0	0	0	0	0	0	0	15
Total	147	324	0	0	0	0	92	0	0	563

Proposed and Next Step Treatments by Method

	Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current	563	0	0	0	0	0	31	0	128	722
Next Step	0	0	0	0	0	0	471	0	68	539
Total	563	0	0	0	0	0	502	0	196	1260



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

Approved Treatments:

22	61110022-Cut	109.5	4110 - Sugar Maple Association	Sawtimber Well	86	111-140	Harvest	Single Tree Selection	411 - Northern Hardwood	Uneven-Aged	No
<p><u>Prescription</u> Thin the stand down to about 80sqft/ac. Also create around 11 regen gaps about 1 acre in size. It might work best to line these out as a small clearcut and have the producer cut all trees 4' and taller in these gaps. Apply ORV trail protection specs.</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> maple, cherry, basswood, aspen.</p> <p><u>Regen:</u></p> <p><u>Other</u> - Nice quality hardwoods. Flat terrain. Not much in the understory. Healthy looking stand. Sugar maple regenerating where the canopy has been opened up.</p> <p><u>Comment:</u> WLD 4/30/2020: Could use parts of stand 24 and adjacent part of stand 33 as timber landing.</p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2021</p>											
25	61110025-Cut	71.5	4110 - Sugar Maple Association	Sawtimber Well	87	111-140	Harvest	Single Tree Selection	411 - Northern Hardwood	Uneven-Aged	No
<p><u>Prescription</u> Thin stand down to a target BA of around 80 sqft/ac. Also, create 7-8 regen gaps about 1 acre in size. It would be best to line these out as small clearcuts. Also, do not use stand 29, 28 or 31 as a landing as these are maintained openings.</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> maple, cherry, basswood, aspen.</p> <p><u>Regen:</u></p> <p><u>Other</u> - Nice quality hardwoods. A ridge runs through the middle of the stand. A bit of top die back. Some sugar maple regen in the south end of the stand, it looks very suppressed.</p> <p><u>Comment:</u> WLD 4/30/2020: Could use parts of stand 24 and adjacent part of stand 33 as timber landing.</p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2021</p>											
28	61110028-NF	5.0	310 - Herbaceous Openland	Nonstocked			NonForestMgt	Herbaceous/Crop /Grass Planting	3105 - Mixed Upland Herbaceous		No
<p><u>Prescription</u> Work around any beneficial vegetation (raspberry patch, mast bear shrub) to maintain wildlife food plot of appropriate herbaceous species suited to site and soil conditions. Maintain as needed with mowing, native shrub planting, seeding native grasses/forbs or Forest Certification approved forage, fertilizing, burning, or removal of woody encroachment. May want to plant some mast producing trees/shrubs and create brush piles for cover.</p> <p><u>Specs:</u></p> <p><u>Next Step</u></p> <p><u>Treatments:</u></p> <p><u>Acceptable</u></p> <p><u>Regen:</u></p> <p><u>Other</u></p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2021</p>											



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
29 61110029-NF	3.5	31021 - Cool Season Grass	Nonstocked			NonForestMgt	Herbaceous/Crop /Grass Planting	3105 - Mixed Upland Herbaceous		No
<p><u>Prescription</u> Work around any beneficial vegetation (raspberry patch, mast bear shrub) to maintain wildlife food plot of appropriate herbaceous species suited to site and soil conditions. Maintain as needed with mowing, native shrub planting, seeding native grasses/forbs or Forest Certification approved forage, fertilizing, burning, or removal of woody encroachment. May want to plant some mast producing trees/shrubs and create brush piles for cover.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> <u>Treatments:</u></p> <p><u>Acceptable</u> <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 /2021</p>										
31 61110031-NF	15.8	31022 - Warm Season Grass	Nonstocked			NonForestMgt	Herbaceous/Crop /Grass Planting	3105 - Mixed Upland Herbaceous		No
<p><u>Prescription</u> Work around any beneficial vegetation (raspberry patch, mast bear shrub) to maintain wildlife food plot of appropriate herbaceous species suited to site and soil conditions. Maintain as needed with mowing, native shrub planting, seeding native grasses/forbs or Forest Certification approved forage, fertilizing, burning, or removal of woody encroachment. May want to plant some mast producing trees/shrubs and create brush piles for cover.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> <u>Treatments:</u></p> <p><u>Acceptable</u> <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 /2021</p>										
33 61110033-Cut	51.2	4110 - Sugar Maple Association	Sawtimber Poor	70	1-50	Harvest	Overstory Removal	411 - Northern Hardwood	Even-Aged	No
<p><u>Prescription</u> Remove the merchantable overstory. Try to avoid damage to the advance regen. Do not use stand 31 or 62 as a landing, these are maintained openings.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> <u>Treatments:</u></p> <p><u>Acceptable</u> maple, cherry, basswood, aspen. <u>Regen:</u></p> <p><u>Other</u> Open grown Cherry and filling in with a mix of Sugar maple, red maple and cherry sapling. The hardwood regen is patchy. West of Blue Lk. <u>Comment:</u> Rd has several frost pockets. Hardwood regen on the west side is more dense.</p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2021</p>										



S
t
a
n
d

Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
33 61110033-NF	8.8	4110 - Sugar Maple Association	Sawtimber Poor	70	1-50	NonForestMgt	Mowing	3301 - Low Density Deciduous Trees		No
<p><u>Prescription</u> Maintain as a low density tree/shrubs by mowing, native shrub planting, seeding of native grasses/forbs or Forest Certification approved forage, fertilizing, burning, or removal of woody encroachment.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> <u>Treatments:</u></p> <p><u>Acceptable</u> <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 /2021</p>										
36 61110036-NF	12.3	31021 - Cool Season Grass	Nonstocked			NonForestMgt	Herbaceous/Crop /Grass Planting	3205 - Mixed Upland Shrub		No
<p><u>Prescription</u> Work around any beneficial vegetation (raspberry patch, mast bear shrub) to maintain wildlife food plot of appropriate herbaceous species suited to site and soil conditions. Maintain as needed with mowing, native shrub planting, seeding native grasses/forbs or Forest Certification approved forage, fertilizing, burning, or removal of woody encroachment. May want to plant some mast producing trees/shrubs and create brush piles for cover.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> <u>Treatments:</u></p> <p><u>Acceptable</u> <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 /2021</p>										
37 61110037-Cut	15.2	42310 - Planted Spruce	Poletimber Well	57	81-110	Harvest	Clearcut	411 - Northern Hardwood	Even-Aged	No
<p><u>Prescription</u> Clearcut stand and hopefully it will fill in with a mix of hardwood species. Only use the edge of stand 36 for and landing. WLD has plans to maintain it as an opening.</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> maple, aspen, cherry, basswood</p> <p><u>Regen:</u></p> <p><u>Other</u> WLD 4/30/2020: Could use south end of stand 36, south of two track as timber landing.</p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2021</p>										



S
t
a
n
d

Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
39 61110039-Cut	143.0	4110 - Sugar Maple Association	Sawtimber Well	91	111-140	Harvest	Single Tree Selection	411 - Northern Hardwood	Uneven-Aged	No
<p><u>Prescription</u> Select harvest stand with a target BA of around 80. Target trees with top die back or poor form to remove. Also, create about 14 regen gaps (~150'-200') and it might be best to line these out as small clear cuts.</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> maple, cherry, basswood, aspen.</p> <p><u>Regen:</u></p> <p><u>Other</u> Nice quality hardwoods on some hilly terrain. Some individual and pocket dieback . Not much understory. A little lower quality and more of a beech component in the west Central part of the stand. There are small pocket that have been Salvaged of dying maple in 2012-2013. Some scattered red oak. BAs: 140, 120, 110, 130, 130, 130, 110 AVG = 124.</p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2021</p>										
41 61110041-Cut	131.7	4199 - Other Mixed Upland Deciduous	Sawtimber Well	97	81-110	Harvest	Clearcut with Retention	4199 - Other Mixed Upland Deciduous	Even-Aged	No
<p><u>Prescription</u> clear cut stand but line out pockets of retention where groves of hemlock are present. Also mark a few sugar maple to leave for a seed source.</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> oak, maple, aspen, basswood, cherry.</p> <p><u>Regen:</u></p> <p><u>Other</u> Some scattered hemlock. Rolling terrain. Some dead oak was salvaged off the snow mobile trail. Pockets of dead and dying oak. The live oak has lots of epicormic branching. BBD starting to cause mortality. North end, along 612, Seems to have more of a maple component. There is more mortality up that way too.</p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2021</p>										
47 61110047-NF	59.6	4199 - Other Mixed Upland Deciduous	Sapling Medium	31	1-50	NonForestMgt	Brush Cutting	3204 - Mast Producing Shrub		No
<p><u>Prescription</u> Selectively remove woody vegetation to barrens equivalent. Important trees to retain would be mature "wolf" trees of oak, pine or cherry, fruiting shrubs, and a scattering of other trees and shrubs. Should eventually burn to stimulate any existing seed bank and encourage existing native vegetation. Augment with additional native seeds/seedling as needed to diversify site for wildlife forage and cover. Eventually burn rotationally to maintain barrens dynamic. Remove invasive species mechanically or with herbicide treatment.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> NonForestMgt, Other - Specify</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u></p> <p><u>Regen:</u></p> <p><u>Other</u></p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2021</p>										



S
t
a
n
d

Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
58 61110058-NF	12.6	330 - Low-Density Trees	Nonstocked		Immature	NonForestMgt	Brush Cutting	3204 - Mast Producing Shrub		No
<p><u>Prescription</u> Selectively remove woody vegetation to barrens equivalent. Important trees to retain would be mature "wolf" trees of oak, pine or cherry, fruiting shrubs, and a scattering of other trees and shrubs. Should eventually burn to stimulate any existing seed bank and encourage existing native vegetation. Augment with additional native seeds/seedling as needed to diversify site for wildlife forage and cover. Eventually burn rotationally to maintain barrens dynamic. Remove invasive species mechanically or with herbicide treatment.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> <u>Treatments:</u></p> <p><u>Acceptable</u> <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 /2021</p>										
62 61110062-NF	2.0	310 - Herbaceous Openland	Nonstocked	0	Unspecified	NonForestMgt	Herbaceous/Crop /Grass Planting	3105 - Mixed Upland Herbaceous		No
<p><u>Prescription</u> Work around any beneficial vegetation (raspberry patch, mast bear shrub) to maintain wildlife food plot of appropriate herbaceous species suited to site and soil conditions. Maintain as needed with mowing, native shrub planting, seeding native grasses/forbs or Forest Certification approved forage, fertilizing, burning, or removal of woody encroachment. May want to plant some mast producing trees/shrubs and create brush piles for cover.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> <u>Treatments:</u></p> <p><u>Acceptable</u> <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 /2021</p>										
66 61110066-Cut	40.9	4110 - Sugar Maple Association	Sawtimber Poor	84	1-50	Harvest	Overstory Removal	411 - Northern Hardwood	Even-Aged	No
<p><u>Prescription</u> Remove the overstory hardwoods. Work around pockets of advanced regeneration.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> <u>Treatments:</u></p> <p><u>Acceptable</u> maple, cherry, basswood, aspen.</p> <p><u>Regen:</u></p> <p><u>Other</u> You will want to prep this stand in the winter. Blackberry is pretty thick.</p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2021</p>										



S
t
a
n
d

Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
67 61110067-Monitor	30.7	4110 - Sugar Maple Association	Sawtimber Poor	87	1-50	Monitoring	Natural Regen (Intermediate)	411 - Northern Hardwood	Two-Aged	No
<p><u>Prescription</u></p> <p><u>Specs:</u></p> <p><u>Next Step</u></p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> Mixed Northern Hardwoods</p> <p><u>Regen:</u></p> <p><u>Other</u> Percent to Treat = 100%</p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 12/15/2020</p>										
48 NF_61110048-Forage	8.2	2113 - Forage Crops Nonstocked				NonForestMgt	Other - Specify	3105 - Mixed Upland Herbaceous		No
<p><u>Prescription</u> This opening is a traditional wildlife planting. Disk in crab/quack grass, plant to annual rye for several years and then convert to appropriate</p> <p><u>Specs:</u> native grasses and forbs. Maintain as needed with mowing, seeding of native grasses and forbs, burning, or removal of woody encroachment.</p> <p><u>Next Step</u> NonForestMgt, Other - Specify</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u></p> <p><u>Regen:</u></p> <p><u>Other</u> Old next step comments: Maintain as needed with mowing, seeding, fertilizing, burning, or removal of woody encroachment.</p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2020</p>										

Total Treatment Acreage Proposed: 721.5

Report 4 – Site Conditions

Traverse City Mgt. Unit
Steve Crigier : Examiner

Compartment: 110
Year of Entry: 2022

Availability for Management

Total Acres	Acres Available	Acres Avail		Dominant Site Conditions	Dominant Site Conditions			
		With Condition	Not Available		5C	2G	2H	3J
19	19	0	0	Aspen				
8	8	0	0	Cropland				
41	41	0	0	Herbaceous Openland				
13	13	0	0	Low-Density Trees				
73	0	0	73	Lowland Conifers		73		
106	106	0	0	Marsh				
229	229	0	0	Mixed Upland Deciduous				
210	179	0	30	Natural Mixed Pines			11	19
1112	836	276	0	Northern Hardwood	276			
34	16	10	8	Red Pine	10			8
2	2	0	0	Treed Bog				
279	137	142	0	Upland Mixed Forest	142			
17	17	0	0	Upland Shrub				
34	15	19	0	Upland Spruce/Fir	19			
6	6	0	0	White Pine				
2,183	1,626	446	111	Total Forested Acres	446	73	11	27
	74%	20%	5%	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	19	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
2	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	276	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

Traverse City Mgt. Unit

Steve Crigier : Examiner

Compartment: 110

Year of Entry: 2022

3	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	71	3J: Water quality / BMPs (stream, river, or lake)	Unspecified	Unspecified	Unspecified
Comments:							
4	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	2	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
5	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	19	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
6	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	8	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
7	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	142	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
8	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	10	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Traverse City Mgt. Unit
Steve Crigier : Examiner

Report 4 – Site Conditions

Compartment: 110
Year of Entry: 2022

9	Unavailable	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	11	3J: Water quality / BMPs (stream, river, or lake)	Unspecified	Unspecified	Unspecified
Comments:							

Mgt. Unit

Compartment: #Type!

Year of Entry:



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

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

SCA Name	SCA Category	Detail Type	Recommendation	Acres
----------	--------------	-------------	----------------	-------

Comments



Report 6 – EXISTING SPECIAL CONSERVATION AREA DETAILS

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

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

Conservation Area	Type	Description
SCA	Cold Water Lake	A coldwater lake has temperature and dissolved oxygen conditions that allow naturally-reproduced or stocked trout populations and those of other coldwater fish species to persist from year to year. Suitable conditions for coldwater fishes may occur in Michigan lakes if they are relatively deep, have substantial groundwater inflows, or are located in colder (northern) areas of the state. Such lakes are established by Director's action and designated as trout resources by Fisheries Order 200.
SCA	Cold Water Stream	A coldwater stream has temperature and dissolved oxygen conditions that allow naturally-reproduced or stocked trout populations and those of other coldwater fish species (e.g., slimy sculpin) to persist from year to year. Coldwater streams in Michigan typically provide these conditions due to substantial contributions of groundwater to their stream flows. Such streams are established by Director's action and designated as trout resources by Fisheries Order 210.
SCA	Riparian Area	A transitional area between aquatic and terrestrial ecosystems in which the terrestrial ecosystem influences the aquatic ecosystem and vice-versa. Because of the unique conditions adjacent to lakes, streams and open water wetlands, riparian areas harbor a high diversity of plants and wildlife. Riparian communities are ecologically and socially significant in their effects on water quality and quantity, as well as aesthetics, habitat, bank stability, timber production, and their contribution to overall biodiversity.
HCVA	Designated Critical Habitat	Critical habitat areas are established via a consultative and cooperative process between the DNR and the U.S. Fish and Wildlife service for the recovery of threatened and endangered species, as governed by Part 365, Endangered Species Protection, of the Natural Resources and Environmental Protection Act, 1994 PA 451, and the Federal Endangered Species Act of 1973. This is an active program, with proposed species plans in various stages of review. As of now only two exist, Kirtland Warbler Habitat and Piping Plover Habitat.
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.



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																														
17	4110 - Sugar Maple Association	Sapling Poor	7.8	30	Immature	N/A	Opening filling in with cherry and maple.																																														
<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>Sugar Maple</td> <td>50</td> <td>Sapling/Pole</td> <td>3</td> <td></td> </tr> <tr> <td>Black Cherry</td> <td>50</td> <td>Sapling/Pole</td> <td>3</td> <td>30</td> </tr> </tbody> </table>		Canopy Species	% Cover	Size Class	DBH	Age	Sugar Maple	50	Sapling/Pole	3		Black Cherry	50	Sapling/Pole	3	30	<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>Sugar Maple</td> <td>Medium</td> <td>5 - 10 feet</td> <td>Sapling</td> </tr> </tbody> </table>		Sub-Canopy Species	Density	Avg. Height	Size	Sugar Maple	Medium	5 - 10 feet	Sapling																											
Canopy Species	% Cover	Size Class	DBH	Age																																																	
Sugar Maple	50	Sapling/Pole	3																																																		
Black Cherry	50	Sapling/Pole	3	30																																																	
Sub-Canopy Species	Density	Avg. Height	Size																																																		
Sugar Maple	Medium	5 - 10 feet	Sapling																																																		
18	4110 - Sugar Maple Association	Sapling Poor	6.4	17	Immature	N/A	Opening filling in. Scattered open grown cherry with sugar maple and young cherry filling in.																																														
<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 Cherry</td> <td>45</td> <td>Sapling/Pole</td> <td>3</td> <td>17</td> </tr> <tr> <td>Sugar Maple</td> <td>35</td> <td>Sapling</td> <td>1</td> <td></td> </tr> <tr> <td>Quaking Aspen</td> <td>10</td> <td>Sapling</td> <td>1</td> <td></td> </tr> <tr> <td>Red Maple</td> <td>10</td> <td>Sapling</td> <td>1</td> <td></td> </tr> </tbody> </table>		Canopy Species	% Cover	Size Class	DBH	Age	Black Cherry	45	Sapling/Pole	3	17	Sugar Maple	35	Sapling	1		Quaking Aspen	10	Sapling	1		Red Maple	10	Sapling	1																												
Canopy Species	% Cover	Size Class	DBH	Age																																																	
Black Cherry	45	Sapling/Pole	3	17																																																	
Sugar Maple	35	Sapling	1																																																		
Quaking Aspen	10	Sapling	1																																																		
Red Maple	10	Sapling	1																																																		
19	4110 - Sugar Maple Association	Poletimber Well	73.1	84	81-110	N/A	Thinned in 2005 Sale # 11-02 Blue Lake West Hdwdmedium quality hardwoods. More of a pole timber component. Flat terrain. Bas: 80, 110, 130, 90, 100. avg=100																																														
<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>Sugar Maple</td> <td>70</td> <td>Pole/Log</td> <td>9</td> <td>84</td> </tr> <tr> <td>Red Maple</td> <td>10</td> <td>Log/Pole</td> <td>10</td> <td></td> </tr> <tr> <td>Basswood</td> <td>10</td> <td>Log</td> <td>12</td> <td></td> </tr> <tr> <td>Black Cherry</td> <td>10</td> <td>Log/Pole</td> <td>10</td> <td></td> </tr> </tbody> </table>		Canopy Species	% Cover	Size Class	DBH	Age	Sugar Maple	70	Pole/Log	9	84	Red Maple	10	Log/Pole	10		Basswood	10	Log	12		Black Cherry	10	Log/Pole	10		<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 Cherry</td> <td>Low</td> <td>10 - 20 feet</td> <td>Sapling</td> </tr> <tr> <td>Ironwood</td> <td>Medium</td> <td>10 - 20 feet</td> <td>Sapling</td> </tr> <tr> <td>Sugar Maple</td> <td>Trace</td> <td>5 - 10 feet</td> <td>Sapling</td> </tr> </tbody> </table>		Sub-Canopy Species	Density	Avg. Height	Size	Black Cherry	Low	10 - 20 feet	Sapling	Ironwood	Medium	10 - 20 feet	Sapling	Sugar Maple	Trace	5 - 10 feet	Sapling									
Canopy Species	% Cover	Size Class	DBH	Age																																																	
Sugar Maple	70	Pole/Log	9	84																																																	
Red Maple	10	Log/Pole	10																																																		
Basswood	10	Log	12																																																		
Black Cherry	10	Log/Pole	10																																																		
Sub-Canopy Species	Density	Avg. Height	Size																																																		
Black Cherry	Low	10 - 20 feet	Sapling																																																		
Ironwood	Medium	10 - 20 feet	Sapling																																																		
Sugar Maple	Trace	5 - 10 feet	Sapling																																																		
20	4112 - Maple, Beech, Cherry Association	Sapling Medium	6.1	17	Immature	N/A	Part of Blue Lake West Hdwd sale # 11-02																																														
<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>Sugar Maple</td> <td>30</td> <td>Sapling</td> <td>1</td> <td>17</td> </tr> <tr> <td>Red Maple</td> <td>30</td> <td>Sapling</td> <td>1</td> <td>17</td> </tr> <tr> <td>Beech</td> <td>10</td> <td>Sapling</td> <td>1</td> <td>17</td> </tr> <tr> <td>Black Cherry</td> <td>30</td> <td>Sapling</td> <td>1</td> <td>17</td> </tr> </tbody> </table>		Canopy Species	% Cover	Size Class	DBH	Age	Sugar Maple	30	Sapling	1	17	Red Maple	30	Sapling	1	17	Beech	10	Sapling	1	17	Black Cherry	30	Sapling	1	17																											
Canopy Species	% Cover	Size Class	DBH	Age																																																	
Sugar Maple	30	Sapling	1	17																																																	
Red Maple	30	Sapling	1	17																																																	
Beech	10	Sapling	1	17																																																	
Black Cherry	30	Sapling	1	17																																																	
21	623 - Emergent Wetland	Nonstocked	1.9			No	Vernal pond																																														
22	4110 - Sugar Maple Association	Sawtimber Well	109.5	86	111-140	N/A	thinning completed in 1997 #66-93 Yellow Jacket Hdwd- Nice quality hardwoods. Flat terrain. Not much in the understory. Healthy looking stand. Sugar maple regenerating where the canopy has been opened up. Bas: 110, 120, 140, 140, 100. = avg 122																																														
<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>Sugar Maple</td> <td>80</td> <td>Log/Pole</td> <td>12</td> <td>86</td> </tr> <tr> <td>Black Cherry</td> <td>6</td> <td>Log/Pole</td> <td>10</td> <td></td> </tr> <tr> <td>Basswood</td> <td>10</td> <td>Log/Pole</td> <td>13</td> <td></td> </tr> <tr> <td>Yellow Birch</td> <td>2</td> <td>Log/Pole</td> <td>10</td> <td></td> </tr> <tr> <td>Beech</td> <td>2</td> <td>Log</td> <td>14</td> <td></td> </tr> </tbody> </table>		Canopy Species	% Cover	Size Class	DBH	Age	Sugar Maple	80	Log/Pole	12	86	Black Cherry	6	Log/Pole	10		Basswood	10	Log/Pole	13		Yellow Birch	2	Log/Pole	10		Beech	2	Log	14		<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>Sugar Maple</td> <td>Trace</td> <td>10 - 20 feet</td> <td>Sapling</td> </tr> <tr> <td>Ironwood</td> <td>Low</td> <td>10 - 20 feet</td> <td>Sapling</td> </tr> <tr> <td>Beech</td> <td>Trace</td> <td>10 - 20 feet</td> <td>Sapling</td> </tr> </tbody> </table>		Sub-Canopy Species	Density	Avg. Height	Size	Sugar Maple	Trace	10 - 20 feet	Sapling	Ironwood	Low	10 - 20 feet	Sapling	Beech	Trace	10 - 20 feet	Sapling				
Canopy Species	% Cover	Size Class	DBH	Age																																																	
Sugar Maple	80	Log/Pole	12	86																																																	
Black Cherry	6	Log/Pole	10																																																		
Basswood	10	Log/Pole	13																																																		
Yellow Birch	2	Log/Pole	10																																																		
Beech	2	Log	14																																																		
Sub-Canopy Species	Density	Avg. Height	Size																																																		
Sugar Maple	Trace	10 - 20 feet	Sapling																																																		
Ironwood	Low	10 - 20 feet	Sapling																																																		
Beech	Trace	10 - 20 feet	Sapling																																																		



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																
23	4110 - Sugar Maple Association	Sapling Well	24.6	7	Immature	N/A	Stand was defoliate by eastern tent catpillar in 2009 and 2010 and caused significant mortality. Stand was salvaged in 2014 'Section 4 Salvage' 61-063-12-01. Removed all maple and oak that had 40% or more mortality in the crown. Stocking is going to be variable. - Regen is coming in patchy but overall pretty good in the south end, with mostly cherry and some sugar maple. Still a lot of blackberry present. There is still some scattered pole and log sized hardwoods in the 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>Sugar Maple</td> <td>60</td> <td>Sapling</td> <td>1</td> <td>7</td> </tr> <tr> <td>Red Maple</td> <td>5</td> <td>Log/Pole</td> <td>10</td> <td></td> </tr> <tr> <td>Basswood</td> <td>10</td> <td>Log</td> <td>12</td> <td></td> </tr> <tr> <td>Black Cherry</td> <td>25</td> <td>Sapling</td> <td>1</td> <td></td> </tr> </tbody> </table>		Canopy Species	% Cover	Size Class	DBH	Age		Sugar Maple	60	Sapling	1	7	Red Maple	5	Log/Pole	10		Basswood	10	Log	12		Black Cherry	25	Sapling	1		<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>Blackberry/Raspberry</td> <td>High</td> <td>5 - 10 feet</td> <td>Tall Shrub</td> </tr> </tbody> </table>		Sub-Canopy Species	Density	Avg. Height	Size	Blackberry/Raspberry	High	5 - 10 feet	Tall Shrub																		
Canopy Species	% Cover	Size Class	DBH	Age																																																			
Sugar Maple	60	Sapling	1	7																																																			
Red Maple	5	Log/Pole	10																																																				
Basswood	10	Log	12																																																				
Black Cherry	25	Sapling	1																																																				
Sub-Canopy Species	Density	Avg. Height	Size																																																				
Blackberry/Raspberry	High	5 - 10 feet	Tall Shrub																																																				
24	4112 - Maple, Beech, Cherry Association	Sapling Medium	15.3	17	Immature	N/A	Sugar maple and other mix hardwood are regenerating well after the sliver was cut in 2004 'Blue Lk West Hardwoods'. Some scattered pole sized Cherry in the north end.																																																
<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>Sugar Maple</td> <td>50</td> <td>Sapling</td> <td>2</td> <td>17</td> </tr> <tr> <td>Red Maple</td> <td>20</td> <td>Sapling</td> <td>1</td> <td></td> </tr> <tr> <td>Bigtooth Aspen</td> <td>10</td> <td>Sapling</td> <td>1</td> <td></td> </tr> <tr> <td>Black Cherry</td> <td>10</td> <td>Sapling/Pole</td> <td>4</td> <td></td> </tr> </tbody> </table>		Canopy Species	% Cover	Size Class	DBH	Age		Sugar Maple	50	Sapling	2	17	Red Maple	20	Sapling	1		Bigtooth Aspen	10	Sapling	1		Black Cherry	10	Sapling/Pole	4																													
Canopy Species	% Cover	Size Class	DBH	Age																																																			
Sugar Maple	50	Sapling	2	17																																																			
Red Maple	20	Sapling	1																																																				
Bigtooth Aspen	10	Sapling	1																																																				
Black Cherry	10	Sapling/Pole	4																																																				
25	4110 - Sugar Maple Association	Sawtimber Well	71.5	87	111-140	N/A	Thinning completed in 1997 , Berry Hdwd #71-93 - Nice quality hardwoods. A ridge runs through the middle of the stand. A bit of top die back. Some sugar maple regen in the south end of the stand, it looks very suppressed. BAs: - 140, 120, 140, 160, 150.																																																
<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>Sugar Maple</td> <td>73</td> <td>Log/Pole</td> <td>12</td> <td>87</td> </tr> <tr> <td>Red Maple</td> <td>5</td> <td>Log/Pole</td> <td>12</td> <td></td> </tr> <tr> <td>Beech</td> <td>5</td> <td>Log</td> <td>14</td> <td></td> </tr> <tr> <td>Black Cherry</td> <td>5</td> <td>Log/Pole</td> <td>12</td> <td></td> </tr> <tr> <td>Yellow Birch</td> <td>2</td> <td>Pole/Log</td> <td>8</td> <td></td> </tr> <tr> <td>Basswood</td> <td>10</td> <td>Log</td> <td>14</td> <td></td> </tr> </tbody> </table>		Canopy Species	% Cover	Size Class	DBH	Age		Sugar Maple	73	Log/Pole	12	87	Red Maple	5	Log/Pole	12		Beech	5	Log	14		Black Cherry	5	Log/Pole	12		Yellow Birch	2	Pole/Log	8		Basswood	10	Log	14		<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>Ironwood</td> <td>Low</td> <td>10 - 20 feet</td> <td>Sapling</td> </tr> <tr> <td>Beech</td> <td>Trace</td> <td>10 - 20 feet</td> <td>Sapling</td> </tr> <tr> <td>Sugar Maple</td> <td>Low</td> <td>5 - 10 feet</td> <td>Sapling</td> </tr> </tbody> </table>		Sub-Canopy Species	Density	Avg. Height	Size	Ironwood	Low	10 - 20 feet	Sapling	Beech	Trace	10 - 20 feet	Sapling	Sugar Maple	Low	5 - 10 feet	Sapling
Canopy Species	% Cover	Size Class	DBH	Age																																																			
Sugar Maple	73	Log/Pole	12	87																																																			
Red Maple	5	Log/Pole	12																																																				
Beech	5	Log	14																																																				
Black Cherry	5	Log/Pole	12																																																				
Yellow Birch	2	Pole/Log	8																																																				
Basswood	10	Log	14																																																				
Sub-Canopy Species	Density	Avg. Height	Size																																																				
Ironwood	Low	10 - 20 feet	Sapling																																																				
Beech	Trace	10 - 20 feet	Sapling																																																				
Sugar Maple	Low	5 - 10 feet	Sapling																																																				
27	4112 - Maple, Beech, Cherry Association	Poletimber Medium	17.1	70	1-50	N/A	open grown cherry sheltering along some sugar maple regen. A few clones of aspen. Rolling terrain.																																																
<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 Cherry</td> <td>65</td> <td>Pole</td> <td>8</td> <td>70</td> </tr> <tr> <td>Quaking Aspen</td> <td>15</td> <td>Pole</td> <td>7</td> <td></td> </tr> <tr> <td>Sugar Maple</td> <td>10</td> <td>Pole</td> <td>7</td> <td></td> </tr> <tr> <td>Paper Birch</td> <td>3</td> <td>Pole</td> <td>7</td> <td></td> </tr> <tr> <td>Red Maple</td> <td>7</td> <td>Pole</td> <td>8</td> <td></td> </tr> </tbody> </table>		Canopy Species	% Cover	Size Class	DBH	Age		Black Cherry	65	Pole	8	70	Quaking Aspen	15	Pole	7		Sugar Maple	10	Pole	7		Paper Birch	3	Pole	7		Red Maple	7	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>Sugar Maple</td> <td>Medium</td> <td>Variable</td> <td>Sapling</td> </tr> <tr> <td>Black Cherry</td> <td>Medium</td> <td>Variable</td> <td>Sapling</td> </tr> <tr> <td>Quaking Aspen</td> <td>Low</td> <td>Variable</td> <td>Sapling</td> </tr> </tbody> </table>		Sub-Canopy Species	Density	Avg. Height	Size	Sugar Maple	Medium	Variable	Sapling	Black Cherry	Medium	Variable	Sapling	Quaking Aspen	Low	Variable	Sapling					
Canopy Species	% Cover	Size Class	DBH	Age																																																			
Black Cherry	65	Pole	8	70																																																			
Quaking Aspen	15	Pole	7																																																				
Sugar Maple	10	Pole	7																																																				
Paper Birch	3	Pole	7																																																				
Red Maple	7	Pole	8																																																				
Sub-Canopy Species	Density	Avg. Height	Size																																																				
Sugar Maple	Medium	Variable	Sapling																																																				
Black Cherry	Medium	Variable	Sapling																																																				
Quaking Aspen	Low	Variable	Sapling																																																				
28	310 - Herbaceous Openland	Nonstocked	5.0			Managed Opening	Looks like WLD is managing this opening.																																																
29	31021 - Cool Season Grass	Nonstocked	3.5			Managed Opening	CSG, spotted knapweed, poverty grass, cladonia, strawberry, leafy spurge, rubus,																																																



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																														
30	4119 - Mixed Northern Hardwoods	Poletimber Medium	4.1	67	1-50	N/A	Upland Brush (Cherry) and scattered maple turning into low stocked hardwood. Scattered white pine, topography slopes down to the east.																																														
<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>Sugar Maple</td> <td>10</td> <td>Pole</td> <td>6</td> <td></td> </tr> <tr> <td>Black Cherry</td> <td>65</td> <td>Pole/Log</td> <td>8</td> <td>67</td> </tr> <tr> <td>White Pine</td> <td>15</td> <td>Pole</td> <td>8</td> <td></td> </tr> <tr> <td>Quaking Aspen</td> <td>10</td> <td>Pole/Sapling</td> <td>6</td> <td></td> </tr> </tbody> </table>		Canopy Species	% Cover	Size Class	DBH	Age	Sugar Maple	10	Pole	6		Black Cherry	65	Pole/Log	8	67	White Pine	15	Pole	8		Quaking Aspen	10	Pole/Sapling	6		<table border="1"> <thead> <tr> <th>Sub-Canopy Species</th> <th>Density</th> <th>Avg. Height</th> <th>Size</th> </tr> </thead> <tbody> <tr> <td>Red Maple</td> <td>Medium</td> <td>Variable</td> <td>Sapling</td> </tr> <tr> <td>Black Cherry</td> <td>Medium</td> <td>Variable</td> <td>Sapling</td> </tr> </tbody> </table>		Sub-Canopy Species	Density	Avg. Height	Size	Red Maple	Medium	Variable	Sapling	Black Cherry	Medium	Variable	Sapling													
Canopy Species	% Cover	Size Class	DBH	Age																																																	
Sugar Maple	10	Pole	6																																																		
Black Cherry	65	Pole/Log	8	67																																																	
White Pine	15	Pole	8																																																		
Quaking Aspen	10	Pole/Sapling	6																																																		
Sub-Canopy Species	Density	Avg. Height	Size																																																		
Red Maple	Medium	Variable	Sapling																																																		
Black Cherry	Medium	Variable	Sapling																																																		
31	31022 - Warm Season Grass	Nonstocked	15.8			Managed Opening	Leafy spurge, spotted knapweed, csg, rubus.																																														
32	4130 - Aspen	Poletimber Medium	12.3	43	51-80	N/A	Northend is more of an A6. South end is sparse with more cherry mixed in. Hardwood mix in the understory. Small diameter aspen at the south end, still quite a few saplings.																																														
<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>10</td> <td>Pole</td> <td>5</td> <td></td> </tr> <tr> <td>Quaking Aspen</td> <td>70</td> <td>Pole</td> <td>6</td> <td>43</td> </tr> <tr> <td>Black Cherry</td> <td>20</td> <td>Pole</td> <td>7</td> <td></td> </tr> </tbody> </table>		Canopy Species	% Cover	Size Class	DBH	Age	Red Maple	10	Pole	5		Quaking Aspen	70	Pole	6	43	Black Cherry	20	Pole	7		<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>Basswood</td> <td>Low</td> <td>5 - 10 feet</td> <td>Sapling</td> </tr> <tr> <td>Red Maple</td> <td>Medium</td> <td>Variable</td> <td>Sapling</td> </tr> <tr> <td>Sugar Maple</td> <td>Low</td> <td>Variable</td> <td>Sapling</td> </tr> </tbody> </table>		Sub-Canopy Species	Density	Avg. Height	Size	Basswood	Low	5 - 10 feet	Sapling	Red Maple	Medium	Variable	Sapling	Sugar Maple	Low	Variable	Sapling														
Canopy Species	% Cover	Size Class	DBH	Age																																																	
Red Maple	10	Pole	5																																																		
Quaking Aspen	70	Pole	6	43																																																	
Black Cherry	20	Pole	7																																																		
Sub-Canopy Species	Density	Avg. Height	Size																																																		
Basswood	Low	5 - 10 feet	Sapling																																																		
Red Maple	Medium	Variable	Sapling																																																		
Sugar Maple	Low	Variable	Sapling																																																		
33	4110 - Sugar Maple Association	Sawtimber Poor	64.8	70	1-50	N/A	Open grown Cherry and filling in with a mix of Sugar maple, red maple and cherry sapling. The hardwood regen is patchy. West of Blue Lk. Rd has several frost pockets. Hardwood regen on the west side is more dense.																																														
<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>Sugar Maple</td> <td>15</td> <td>Pole/Sapling</td> <td>5</td> <td></td> </tr> <tr> <td>Red Maple</td> <td>15</td> <td>Pole/Sapling</td> <td>6</td> <td></td> </tr> <tr> <td>Black Cherry</td> <td>70</td> <td>Log/Pole</td> <td>10</td> <td>70</td> </tr> </tbody> </table>		Canopy Species	% Cover	Size Class	DBH	Age	Sugar Maple	15	Pole/Sapling	5		Red Maple	15	Pole/Sapling	6		Black Cherry	70	Log/Pole	10	70	<table border="1"> <thead> <tr> <th>Sub-Canopy Species</th> <th>Density</th> <th>Avg. Height</th> <th>Size</th> </tr> </thead> <tbody> <tr> <td>Red Maple</td> <td>Medium</td> <td>Variable</td> <td>Sapling</td> </tr> <tr> <td>Bigtooth Aspen</td> <td>Low</td> <td>5 - 10 feet</td> <td>Sapling</td> </tr> <tr> <td>Black Cherry</td> <td>Low</td> <td>Variable</td> <td>Sapling</td> </tr> <tr> <td>Sugar Maple</td> <td>Medium</td> <td>Variable</td> <td>Sapling</td> </tr> </tbody> </table>		Sub-Canopy Species	Density	Avg. Height	Size	Red Maple	Medium	Variable	Sapling	Bigtooth Aspen	Low	5 - 10 feet	Sapling	Black Cherry	Low	Variable	Sapling	Sugar Maple	Medium	Variable	Sapling										
Canopy Species	% Cover	Size Class	DBH	Age																																																	
Sugar Maple	15	Pole/Sapling	5																																																		
Red Maple	15	Pole/Sapling	6																																																		
Black Cherry	70	Log/Pole	10	70																																																	
Sub-Canopy Species	Density	Avg. Height	Size																																																		
Red Maple	Medium	Variable	Sapling																																																		
Bigtooth Aspen	Low	5 - 10 feet	Sapling																																																		
Black Cherry	Low	Variable	Sapling																																																		
Sugar Maple	Medium	Variable	Sapling																																																		
34	4110 - Sugar Maple Association	Sawtimber Well	211.1	87	81-110	N/A	Thinned in 2005 , sale # 10-02 East Blue Lake Hdwd - Nice quality hardwoods. Some scattered top die back and individual mortality. Itseems to be stabilized. A good amount of desirable regen mixed in with ironwood. Rolling terrain. There is a pocket of mortality in the NW corner, west of Blue LK Rd. Might be good to clearcut and restart. Average BA is around 100sqft/ac																																														
<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>Sugar Maple</td> <td>80</td> <td>Log/Pole</td> <td>12</td> <td>87</td> </tr> <tr> <td>Basswood</td> <td>6</td> <td>Log</td> <td>12</td> <td></td> </tr> <tr> <td>Black Cherry</td> <td>10</td> <td>Pole/Log</td> <td>8</td> <td></td> </tr> <tr> <td>Yellow Birch</td> <td>2</td> <td>Pole/Log</td> <td>9</td> <td></td> </tr> <tr> <td>Beech</td> <td>2</td> <td>Log</td> <td>14</td> <td></td> </tr> </tbody> </table>		Canopy Species	% Cover	Size Class	DBH	Age	Sugar Maple	80	Log/Pole	12	87	Basswood	6	Log	12		Black Cherry	10	Pole/Log	8		Yellow Birch	2	Pole/Log	9		Beech	2	Log	14		<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>Sugar Maple</td> <td>Medium</td> <td>10 - 20 feet</td> <td>Sapling</td> </tr> <tr> <td>Black Cherry</td> <td>Medium</td> <td>10 - 20 feet</td> <td>Sapling</td> </tr> <tr> <td>Ironwood</td> <td>Medium</td> <td>10 - 20 feet</td> <td>Sapling</td> </tr> </tbody> </table>		Sub-Canopy Species	Density	Avg. Height	Size	Sugar Maple	Medium	10 - 20 feet	Sapling	Black Cherry	Medium	10 - 20 feet	Sapling	Ironwood	Medium	10 - 20 feet	Sapling				
Canopy Species	% Cover	Size Class	DBH	Age																																																	
Sugar Maple	80	Log/Pole	12	87																																																	
Basswood	6	Log	12																																																		
Black Cherry	10	Pole/Log	8																																																		
Yellow Birch	2	Pole/Log	9																																																		
Beech	2	Log	14																																																		
Sub-Canopy Species	Density	Avg. Height	Size																																																		
Sugar Maple	Medium	10 - 20 feet	Sapling																																																		
Black Cherry	Medium	10 - 20 feet	Sapling																																																		
Ironwood	Medium	10 - 20 feet	Sapling																																																		
35	42310 - Planted Spruce	Poletimber Well	18.9	60	81-110	N/A	some hardwood regen along the edges of the Stand. Trees are about 4-6 sticks tall. Some white pine mixed in as well.																																														
<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>White Spruce</td> <td>90</td> <td>Pole/Log</td> <td>9</td> <td>60</td> </tr> <tr> <td>White Pine</td> <td>10</td> <td>Log/Pole</td> <td>10</td> <td></td> </tr> </tbody> </table>		Canopy Species	% Cover	Size Class	DBH	Age	White Spruce	90	Pole/Log	9	60	White Pine	10	Log/Pole	10		<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>Sugar Maple</td> <td>Low</td> <td>5 - 10 feet</td> <td>Sapling</td> </tr> <tr> <td>Black Cherry</td> <td>Low</td> <td>5 - 10 feet</td> <td>Sapling</td> </tr> </tbody> </table>		Sub-Canopy Species	Density	Avg. Height	Size	Sugar Maple	Low	5 - 10 feet	Sapling	Black Cherry	Low	5 - 10 feet	Sapling																							
Canopy Species	% Cover	Size Class	DBH	Age																																																	
White Spruce	90	Pole/Log	9	60																																																	
White Pine	10	Log/Pole	10																																																		
Sub-Canopy Species	Density	Avg. Height	Size																																																		
Sugar Maple	Low	5 - 10 feet	Sapling																																																		
Black Cherry	Low	5 - 10 feet	Sapling																																																		
36	31021 - Cool Season Grass	Nonstocked	12.3			Managed Opening	CSG, leafy spurge, rubus, occassional boulder, bracken, skw, poverty, pussytoes. Will need to be herbicided.																																														



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																																
37	42310 - Planted Spruce	Poletimber Well	15.2	57	81-110	N/A	stand is a mix of planted white pine and spruce. white pine has pretty bad form but has maple growing in the understory. Spruce is about 4-6 sticks tall.																																																																
<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>White Spruce</td> <td>70</td> <td>Pole/Log</td> <td>9</td> <td>57</td> </tr> <tr> <td>White Pine</td> <td>30</td> <td>Log/Pole</td> <td>12</td> <td></td> </tr> </tbody> </table>		Canopy Species	% Cover	Size Class	DBH	Age	White Spruce	70	Pole/Log	9	57	White Pine	30	Log/Pole	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>Sugar Maple</td> <td>Medium</td> <td>5 - 10 feet</td> <td>Sapling</td> </tr> <tr> <td>Black Cherry</td> <td>Low</td> <td>5 - 10 feet</td> <td>Sapling</td> </tr> </tbody> </table>		Sub-Canopy Species	Density	Avg. Height	Size	Sugar Maple	Medium	5 - 10 feet	Sapling	Black Cherry	Low	5 - 10 feet	Sapling																																									
Canopy Species	% Cover	Size Class	DBH	Age																																																																			
White Spruce	70	Pole/Log	9	57																																																																			
White Pine	30	Log/Pole	12																																																																				
Sub-Canopy Species	Density	Avg. Height	Size																																																																				
Sugar Maple	Medium	5 - 10 feet	Sapling																																																																				
Black Cherry	Low	5 - 10 feet	Sapling																																																																				
38	4110 - Sugar Maple Association	Poletimber Poor	2.9	84	1-50	N/A	Stand was defoliate by eastern tent catipillar in 2009 and 2010 and caused significant mortality. Stand was salvaged in 2014 'Section 4 Salvage' 61-063-12-01. Removed all maple and oak that had 40% or more mortality in the crown. Stocking is going to be variable.																																																																
<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>Sugar Maple</td> <td>50</td> <td>Log/Pole</td> <td>12</td> <td>84</td> </tr> <tr> <td>Red Maple</td> <td>10</td> <td>Pole/Log</td> <td>8</td> <td></td> </tr> <tr> <td>Basswood</td> <td>10</td> <td>Log</td> <td>12</td> <td></td> </tr> <tr> <td>Black Cherry</td> <td>30</td> <td>Pole/Log</td> <td>8</td> <td></td> </tr> </tbody> </table>		Canopy Species	% Cover	Size Class	DBH	Age	Sugar Maple	50	Log/Pole	12	84	Red Maple	10	Pole/Log	8		Basswood	10	Log	12		Black Cherry	30	Pole/Log	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>Red Maple</td> <td>Low</td> <td>< 5 feet</td> <td>Sapling</td> </tr> </tbody> </table>		Sub-Canopy Species	Density	Avg. Height	Size	Red Maple	Low	< 5 feet	Sapling																																			
Canopy Species	% Cover	Size Class	DBH	Age																																																																			
Sugar Maple	50	Log/Pole	12	84																																																																			
Red Maple	10	Pole/Log	8																																																																				
Basswood	10	Log	12																																																																				
Black Cherry	30	Pole/Log	8																																																																				
Sub-Canopy Species	Density	Avg. Height	Size																																																																				
Red Maple	Low	< 5 feet	Sapling																																																																				
39	4110 - Sugar Maple Association	Sawtimber Well	418.5	91	111-140	N/A	Sale # 13-93 'Blue Lake Hardwoods' and 55-93 '612 Hardwoods'- selection thinning completed in 1996 & 1998 - - Nice quality hardwoods on some hilly terrain. Some individual and pocket dieback . Not much understory. A little lower quality and more of a beech component in the west Central part of the stand. There are small pocket that have been Salvaged of dying maple in 2012-2013. Some scattered red oak. BAs: 140, 120, 110, 130, 130, 130, 110 AVG = 124.																																																																
<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>Sugar Maple</td> <td>75</td> <td>Log/Pole</td> <td>10</td> <td>91</td> </tr> <tr> <td>Red Maple</td> <td>10</td> <td>Log/Pole</td> <td>12</td> <td></td> </tr> <tr> <td>Basswood</td> <td>5</td> <td>Log/Pole</td> <td>12</td> <td></td> </tr> <tr> <td>Beech</td> <td>5</td> <td>Log/Pole</td> <td>10</td> <td></td> </tr> <tr> <td>Red Oak</td> <td>5</td> <td>Log</td> <td>16</td> <td></td> </tr> </tbody> </table>		Canopy Species	% Cover	Size Class	DBH	Age	Sugar Maple	75	Log/Pole	10	91	Red Maple	10	Log/Pole	12		Basswood	5	Log/Pole	12		Beech	5	Log/Pole	10		Red Oak	5	Log	16		<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>Sugar Maple</td> <td>Trace</td> <td>5 - 10 feet</td> <td>Sapling</td> </tr> <tr> <td>Black Cherry</td> <td>Medium</td> <td>5 - 10 feet</td> <td>Sapling</td> </tr> <tr> <td>Beech</td> <td>Medium</td> <td>10 - 20 feet</td> <td>Sapling</td> </tr> </tbody> </table>		Sub-Canopy Species	Density	Avg. Height	Size	Sugar Maple	Trace	5 - 10 feet	Sapling	Black Cherry	Medium	5 - 10 feet	Sapling	Beech	Medium	10 - 20 feet	Sapling																						
Canopy Species	% Cover	Size Class	DBH	Age																																																																			
Sugar Maple	75	Log/Pole	10	91																																																																			
Red Maple	10	Log/Pole	12																																																																				
Basswood	5	Log/Pole	12																																																																				
Beech	5	Log/Pole	10																																																																				
Red Oak	5	Log	16																																																																				
Sub-Canopy Species	Density	Avg. Height	Size																																																																				
Sugar Maple	Trace	5 - 10 feet	Sapling																																																																				
Black Cherry	Medium	5 - 10 feet	Sapling																																																																				
Beech	Medium	10 - 20 feet	Sapling																																																																				
40	310 - Herbaceous Openland	Nonstocked	2.8			No																																																																	
41	4199 - Other Mixed Upland Deciduous	Sawtimber Well	131.7	97	81-110	N/A	Thinning completed in 2004- Sale # 9-02 - 612 South Hdwd- some Scattered hemlock. Rolling terrain. Some dead oak was salvaged off the snow mobile trail. Some pockets of dead and dying oak. The live oak has lots of epicormic branching. BBD starting to cause mortality. North end, along 612, Seems to have more of a maple component. A bit more mortality up that way too.																																																																
<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>Sugar Maple</td> <td>13</td> <td>Log/Pole</td> <td>12</td> <td></td> </tr> <tr> <td>Red Maple</td> <td>30</td> <td>Log/Pole</td> <td>12</td> <td></td> </tr> <tr> <td>Beech</td> <td>5</td> <td>Log</td> <td>12</td> <td></td> </tr> <tr> <td>Red Oak</td> <td>45</td> <td>Log</td> <td>14</td> <td>97</td> </tr> <tr> <td>Black Cherry</td> <td>3</td> <td>Pole/Log</td> <td>8</td> <td></td> </tr> <tr> <td>White Pine</td> <td>2</td> <td>Log</td> <td>16</td> <td></td> </tr> <tr> <td>Hemlock</td> <td>2</td> <td>Pole/Log</td> <td>9</td> <td></td> </tr> </tbody> </table>		Canopy Species	% Cover	Size Class	DBH	Age	Sugar Maple	13	Log/Pole	12		Red Maple	30	Log/Pole	12		Beech	5	Log	12		Red Oak	45	Log	14	97	Black Cherry	3	Pole/Log	8		White Pine	2	Log	16		Hemlock	2	Pole/Log	9		<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>Sugar Maple</td> <td>Trace</td> <td>5 - 10 feet</td> <td>Sapling</td> </tr> <tr> <td>Red Maple</td> <td>Low</td> <td>5 - 10 feet</td> <td>Sapling</td> </tr> <tr> <td>Beech</td> <td>High</td> <td>5 - 10 feet</td> <td>Sapling</td> </tr> <tr> <td>Black Cherry</td> <td>Trace</td> <td>10 - 20 feet</td> <td>Sapling</td> </tr> <tr> <td>Ironwood</td> <td>Low</td> <td>5 - 10 feet</td> <td>Sapling</td> </tr> </tbody> </table>		Sub-Canopy Species	Density	Avg. Height	Size	Sugar Maple	Trace	5 - 10 feet	Sapling	Red Maple	Low	5 - 10 feet	Sapling	Beech	High	5 - 10 feet	Sapling	Black Cherry	Trace	10 - 20 feet	Sapling	Ironwood	Low	5 - 10 feet	Sapling				
Canopy Species	% Cover	Size Class	DBH	Age																																																																			
Sugar Maple	13	Log/Pole	12																																																																				
Red Maple	30	Log/Pole	12																																																																				
Beech	5	Log	12																																																																				
Red Oak	45	Log	14	97																																																																			
Black Cherry	3	Pole/Log	8																																																																				
White Pine	2	Log	16																																																																				
Hemlock	2	Pole/Log	9																																																																				
Sub-Canopy Species	Density	Avg. Height	Size																																																																				
Sugar Maple	Trace	5 - 10 feet	Sapling																																																																				
Red Maple	Low	5 - 10 feet	Sapling																																																																				
Beech	High	5 - 10 feet	Sapling																																																																				
Black Cherry	Trace	10 - 20 feet	Sapling																																																																				
Ironwood	Low	5 - 10 feet	Sapling																																																																				
42	4199 - Other Mixed Upland Deciduous	Sapling Well	14.6	37	1-50	N/A	Harvested in 1984 - heavy deer browse in past . Scattered Oak and Pine were left-moving from sapling size to small pole size stand. Some Scattered large hemlock were left also. Aspen is pushing to pole size trees but hardwoods are still. pretty small																																																																
<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>30</td> <td>Sapling</td> <td>3</td> <td></td> </tr> <tr> <td>Red Oak</td> <td>15</td> <td>Sapling</td> <td>4</td> <td></td> </tr> <tr> <td>Bigtooth Aspen</td> <td>35</td> <td>Pole/Sapling</td> <td>5</td> <td>37</td> </tr> <tr> <td>White Pine</td> <td>10</td> <td>Sapling</td> <td>4</td> <td></td> </tr> <tr> <td>Red Pine</td> <td>5</td> <td>Log/Pole</td> <td>10</td> <td></td> </tr> <tr> <td>Paper Birch</td> <td>5</td> <td>Sapling</td> <td>3</td> <td></td> </tr> </tbody> </table>		Canopy Species	% Cover	Size Class	DBH	Age	Red Maple	30	Sapling	3		Red Oak	15	Sapling	4		Bigtooth Aspen	35	Pole/Sapling	5	37	White Pine	10	Sapling	4		Red Pine	5	Log/Pole	10		Paper Birch	5	Sapling	3		<table border="1"> <thead> <tr> <th>Sub-Canopy Species</th> <th>Density</th> <th>Avg. Height</th> <th>Size</th> </tr> </thead> <tbody> <tr> <td>Red Maple</td> <td>Low</td> <td>< 5 feet</td> <td>Sapling</td> </tr> <tr> <td>White Pine</td> <td>Low</td> <td>< 5 feet</td> <td>Sapling</td> </tr> </tbody> </table>		Sub-Canopy Species	Density	Avg. Height	Size	Red Maple	Low	< 5 feet	Sapling	White Pine	Low	< 5 feet	Sapling																					
Canopy Species	% Cover	Size Class	DBH	Age																																																																			
Red Maple	30	Sapling	3																																																																				
Red Oak	15	Sapling	4																																																																				
Bigtooth Aspen	35	Pole/Sapling	5	37																																																																			
White Pine	10	Sapling	4																																																																				
Red Pine	5	Log/Pole	10																																																																				
Paper Birch	5	Sapling	3																																																																				
Sub-Canopy Species	Density	Avg. Height	Size																																																																				
Red Maple	Low	< 5 feet	Sapling																																																																				
White Pine	Low	< 5 feet	Sapling																																																																				



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																														
43	4199 - Other Mixed Upland Deciduous	Sapling Well	23.4	17	Immature	N/A	Harvested in 2004 - heavy deer browse in past - scattered oak and pine left. - stocking is a bit variable but stand is filling in well.																																																														
		<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>25</td> <td>Sapling</td> <td>2</td> <td></td> </tr> <tr> <td>Red Oak</td> <td>15</td> <td>Sapling</td> <td>2</td> <td></td> </tr> <tr> <td>Bigtooth Aspen</td> <td>35</td> <td>Sapling</td> <td>2</td> <td>17</td> </tr> <tr> <td>White Pine</td> <td>15</td> <td>Sapling/Pole</td> <td>4</td> <td></td> </tr> <tr> <td>Black Cherry</td> <td>5</td> <td>Sapling</td> <td>2</td> <td></td> </tr> <tr> <td>White Oak</td> <td>5</td> <td>Sapling</td> <td>1</td> <td></td> </tr> </tbody> </table>	Canopy Species	% Cover	Size Class	DBH	Age	Red Maple	25	Sapling	2		Red Oak	15	Sapling	2		Bigtooth Aspen	35	Sapling	2	17	White Pine	15	Sapling/Pole	4		Black Cherry	5	Sapling	2		White Oak	5	Sapling	1																																	
Canopy Species	% Cover	Size Class	DBH	Age																																																																	
Red Maple	25	Sapling	2																																																																		
Red Oak	15	Sapling	2																																																																		
Bigtooth Aspen	35	Sapling	2	17																																																																	
White Pine	15	Sapling/Pole	4																																																																		
Black Cherry	5	Sapling	2																																																																		
White Oak	5	Sapling	1																																																																		
44	4310 - Pine, Oak Mix	Sawtimber Well	141.8	93	111-140	N/A	Multi-storied stand from sap-pole-saw. Red, White Pine, Red and White Oak with scattered aspen and red maple.- oak looks like it is starting to decline. Lots of species in the understory. Some pockets of A3 on the west side of the 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>Red Maple</td> <td>14</td> <td>Pole</td> <td>8</td> <td></td> </tr> <tr> <td>Red Oak</td> <td>34</td> <td>Log</td> <td>16</td> <td>93</td> </tr> <tr> <td>White Oak</td> <td>2</td> <td>Log</td> <td>14</td> <td></td> </tr> <tr> <td>Bigtooth Aspen</td> <td>5</td> <td>Pole</td> <td>8</td> <td></td> </tr> <tr> <td>White Pine</td> <td>20</td> <td>Log/Pole</td> <td>13</td> <td></td> </tr> <tr> <td>Red Pine</td> <td>25</td> <td>Log/Pole</td> <td>12</td> <td>93</td> </tr> </tbody> </table>	Canopy Species	% Cover	Size Class	DBH	Age	Red Maple	14	Pole	8		Red Oak	34	Log	16	93	White Oak	2	Log	14		Bigtooth Aspen	5	Pole	8		White Pine	20	Log/Pole	13		Red Pine	25	Log/Pole	12	93	<table border="1"> <thead> <tr> <th>Sub-Canopy Species</th> <th>Density</th> <th>Avg. Height</th> <th>Size</th> </tr> </thead> <tbody> <tr> <td>Red Maple</td> <td>Low</td> <td>10 - 20 feet</td> <td>Sapling</td> </tr> <tr> <td>White Pine</td> <td>Medium</td> <td>Variable</td> <td>Sapling</td> </tr> <tr> <td>Red Pine</td> <td>Trace</td> <td>Variable</td> <td>Sapling</td> </tr> <tr> <td>White Oak</td> <td>Low</td> <td>Variable</td> <td>Sapling</td> </tr> <tr> <td>Beech</td> <td>Low</td> <td>5 - 10 feet</td> <td>Sapling</td> </tr> <tr> <td>Red Oak</td> <td>Low</td> <td>10 - 20 feet</td> <td>Sapling</td> </tr> </tbody> </table>		Sub-Canopy Species	Density	Avg. Height	Size	Red Maple	Low	10 - 20 feet	Sapling	White Pine	Medium	Variable	Sapling	Red Pine	Trace	Variable	Sapling	White Oak	Low	Variable	Sapling	Beech	Low	5 - 10 feet	Sapling	Red Oak	Low	10 - 20 feet	Sapling		
Canopy Species	% Cover	Size Class	DBH	Age																																																																	
Red Maple	14	Pole	8																																																																		
Red Oak	34	Log	16	93																																																																	
White Oak	2	Log	14																																																																		
Bigtooth Aspen	5	Pole	8																																																																		
White Pine	20	Log/Pole	13																																																																		
Red Pine	25	Log/Pole	12	93																																																																	
Sub-Canopy Species	Density	Avg. Height	Size																																																																		
Red Maple	Low	10 - 20 feet	Sapling																																																																		
White Pine	Medium	Variable	Sapling																																																																		
Red Pine	Trace	Variable	Sapling																																																																		
White Oak	Low	Variable	Sapling																																																																		
Beech	Low	5 - 10 feet	Sapling																																																																		
Red Oak	Low	10 - 20 feet	Sapling																																																																		
45	4130 - Aspen	Sapling Well	7.1	28	Immature	N/A	Stand was harvested in 1993 'Goose Creek Aspen Sale'. Stand has regenerated well.																																																														
		<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>10</td> <td>Sapling</td> <td>3</td> <td></td> </tr> <tr> <td>Quaking Aspen</td> <td>90</td> <td>Sapling</td> <td>3</td> <td>28</td> </tr> </tbody> </table>	Canopy Species	% Cover	Size Class	DBH	Age	Red Maple	10	Sapling	3		Quaking Aspen	90	Sapling	3	28																																																				
Canopy Species	% Cover	Size Class	DBH	Age																																																																	
Red Maple	10	Sapling	3																																																																		
Quaking Aspen	90	Sapling	3	28																																																																	
46	42290 - Natural Mixed Pine	Sawtimber Poor	159.5	89	1-50	N/A	- Remove some mature red and white pine- good scattered aspen regen with spotty jack pine saplings. Stand also has some good pockets of white and red pine regeneration. - stand cut with greenish orange pine sale by bisball forest products. 3 units green treed and one unit orange marked. variable residual but overall 20-50BA nursing along understory pretty good. probably enough left to come back for in 10-20 years and do an overstory removal. sale turned out good. - Red pine is kind of short with good diameters. Understory is filling in well with oak, aspen, red maple and pine.																																																														
		<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 Oak</td> <td>15</td> <td>Log</td> <td>16</td> <td></td> </tr> <tr> <td>White Pine</td> <td>30</td> <td>Log</td> <td>14</td> <td></td> </tr> <tr> <td>Red Pine</td> <td>55</td> <td>Log</td> <td>14</td> <td>89</td> </tr> </tbody> </table>	Canopy Species	% Cover	Size Class	DBH	Age	Red Oak	15	Log	16		White Pine	30	Log	14		Red Pine	55	Log	14	89	<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>Bigtooth Aspen</td> <td>Medium</td> <td>10 - 20 feet</td> <td>Sapling</td> </tr> <tr> <td>White Pine</td> <td>Low</td> <td>5 - 10 feet</td> <td>Sapling</td> </tr> <tr> <td>Red Pine</td> <td>Trace</td> <td>5 - 10 feet</td> <td>Sapling</td> </tr> <tr> <td>Jack Pine</td> <td>Low</td> <td>10 - 20 feet</td> <td>Sapling</td> </tr> <tr> <td>Red Oak</td> <td>Medium</td> <td>10 - 20 feet</td> <td>Sapling</td> </tr> <tr> <td>Red Maple</td> <td>Medium</td> <td>10 - 20 feet</td> <td>Sapling</td> </tr> </tbody> </table>		Sub-Canopy Species	Density	Avg. Height	Size	Bigtooth Aspen	Medium	10 - 20 feet	Sapling	White Pine	Low	5 - 10 feet	Sapling	Red Pine	Trace	5 - 10 feet	Sapling	Jack Pine	Low	10 - 20 feet	Sapling	Red Oak	Medium	10 - 20 feet	Sapling	Red Maple	Medium	10 - 20 feet	Sapling																	
Canopy Species	% Cover	Size Class	DBH	Age																																																																	
Red Oak	15	Log	16																																																																		
White Pine	30	Log	14																																																																		
Red Pine	55	Log	14	89																																																																	
Sub-Canopy Species	Density	Avg. Height	Size																																																																		
Bigtooth Aspen	Medium	10 - 20 feet	Sapling																																																																		
White Pine	Low	5 - 10 feet	Sapling																																																																		
Red Pine	Trace	5 - 10 feet	Sapling																																																																		
Jack Pine	Low	10 - 20 feet	Sapling																																																																		
Red Oak	Medium	10 - 20 feet	Sapling																																																																		
Red Maple	Medium	10 - 20 feet	Sapling																																																																		
47	4199 - Other Mixed Upland Deciduous	Sapling Medium	59.6	31	1-50	N/A	Sattered aspen clones with Red Pine saw and poles. Area started as upland brush and is slowly converting to pine/ aspen 1/14/20-WLD is interested in maintaining at least part of the stand as a mixed upland shrub stand with scattered trees and herbaceous components. A portion of this stand was burned in the fall of 2000.																																																														
		<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>Quaking Aspen</td> <td>35</td> <td>Sapling/Pole</td> <td>3</td> <td>31</td> </tr> <tr> <td>Red Pine</td> <td>10</td> <td>Log/Pole</td> <td>12</td> <td></td> </tr> <tr> <td>Red Oak</td> <td>5</td> <td>Sapling</td> <td>1</td> <td></td> </tr> <tr> <td>Red Maple</td> <td>25</td> <td>Sapling</td> <td>2</td> <td></td> </tr> <tr> <td>Black Cherry</td> <td>20</td> <td>Sapling</td> <td>2</td> <td></td> </tr> <tr> <td>White Pine</td> <td>5</td> <td>Sapling</td> <td>2</td> <td></td> </tr> </tbody> </table>	Canopy Species	% Cover	Size Class	DBH	Age	Quaking Aspen	35	Sapling/Pole	3	31	Red Pine	10	Log/Pole	12		Red Oak	5	Sapling	1		Red Maple	25	Sapling	2		Black Cherry	20	Sapling	2		White Pine	5	Sapling	2																																	
Canopy Species	% Cover	Size Class	DBH	Age																																																																	
Quaking Aspen	35	Sapling/Pole	3	31																																																																	
Red Pine	10	Log/Pole	12																																																																		
Red Oak	5	Sapling	1																																																																		
Red Maple	25	Sapling	2																																																																		
Black Cherry	20	Sapling	2																																																																		
White Pine	5	Sapling	2																																																																		



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																				
48	2113 - Forage Crops	Nonstocked	8.2			Managed Opening																																																					
49	42110 - Planted Red Pine	Sawtimber Well	17.5	83	81-110	N/A	Jack Pine was removed during a sale in Comp to the south. Waterfowl Rd Warbler Sale. 2008- Nice quality pine. Red and white oak in the understory.																																																				
<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 Pine</td> <td>90</td> <td>Log</td> <td>12</td> <td>83</td> </tr> <tr> <td>White Pine</td> <td>10</td> <td>Log</td> <td>14</td> <td></td> </tr> </tbody> </table>		Canopy Species	% Cover	Size Class	DBH	Age	Red Pine	90	Log	12	83	White Pine	10	Log	14		<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 Oak</td> <td>Low</td> <td>5 - 10 feet</td> <td>Sapling</td> </tr> <tr> <td>Red Oak</td> <td>Low</td> <td>10 - 20 feet</td> <td>Sapling</td> </tr> <tr> <td>Red Maple</td> <td>Low</td> <td>10 - 20 feet</td> <td>Sapling</td> </tr> </tbody> </table>		Sub-Canopy Species	Density	Avg. Height	Size	White Oak	Low	5 - 10 feet	Sapling	Red Oak	Low	10 - 20 feet	Sapling	Red Maple	Low	10 - 20 feet	Sapling																									
Canopy Species	% Cover	Size Class	DBH	Age																																																							
Red Pine	90	Log	12	83																																																							
White Pine	10	Log	14																																																								
Sub-Canopy Species	Density	Avg. Height	Size																																																								
White Oak	Low	5 - 10 feet	Sapling																																																								
Red Oak	Low	10 - 20 feet	Sapling																																																								
Red Maple	Low	10 - 20 feet	Sapling																																																								
50	6239 - Mixed Emergent Wetland	Nonstocked	55.0			No	Former Goose Creek Wildlife Flooding. Could be a good place for wild rice or similar wetland enhancement project.																																																				
51	6129 - Mixed Coniferous Lowland Forest	Poletimber Well	70.8	95	111-140	N/A	Nice Mix of lowland conifer species. Goose Creek runs thru stand. Ground appears very wet, although it has been a record year for precip.																																																				
<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>5</td> <td>Pole</td> <td>8</td> <td></td> </tr> <tr> <td>Paper Birch</td> <td>5</td> <td>Pole</td> <td>8</td> <td></td> </tr> <tr> <td>Balsam Fir</td> <td>20</td> <td>Pole</td> <td>8</td> <td></td> </tr> <tr> <td>Black Spruce</td> <td>20</td> <td>Pole</td> <td>8</td> <td></td> </tr> <tr> <td>Northern White Cedar</td> <td>25</td> <td>Pole</td> <td>8</td> <td>95</td> </tr> <tr> <td>Hemlock</td> <td>10</td> <td>Pole</td> <td>8</td> <td></td> </tr> <tr> <td>Tamarack</td> <td>15</td> <td>Pole</td> <td>8</td> <td></td> </tr> </tbody> </table>		Canopy Species	% Cover	Size Class	DBH	Age	Red Maple	5	Pole	8		Paper Birch	5	Pole	8		Balsam Fir	20	Pole	8		Black Spruce	20	Pole	8		Northern White Cedar	25	Pole	8	95	Hemlock	10	Pole	8		Tamarack	15	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>Black Spruce</td> <td>Low</td> <td>< 5 feet</td> <td>Sapling</td> </tr> <tr> <td>Balsam Fir</td> <td>Medium</td> <td>Variable</td> <td>Sapling</td> </tr> </tbody> </table>		Sub-Canopy Species	Density	Avg. Height	Size	Black Spruce	Low	< 5 feet	Sapling	Balsam Fir	Medium	Variable	Sapling				
Canopy Species	% Cover	Size Class	DBH	Age																																																							
Red Maple	5	Pole	8																																																								
Paper Birch	5	Pole	8																																																								
Balsam Fir	20	Pole	8																																																								
Black Spruce	20	Pole	8																																																								
Northern White Cedar	25	Pole	8	95																																																							
Hemlock	10	Pole	8																																																								
Tamarack	15	Pole	8																																																								
Sub-Canopy Species	Density	Avg. Height	Size																																																								
Black Spruce	Low	< 5 feet	Sapling																																																								
Balsam Fir	Medium	Variable	Sapling																																																								
52	42200 - Natural White Pine	Sawtimber Well	6.4	79	51-80	N/A	Nice visual mgt stand and buffer around Goose Creek Flooding																																																				
<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>White Pine</td> <td>60</td> <td>Log</td> <td>14</td> <td>79</td> </tr> <tr> <td>Red Pine</td> <td>40</td> <td>Log/Pole</td> <td>12</td> <td></td> </tr> </tbody> </table>		Canopy Species	% Cover	Size Class	DBH	Age	White Pine	60	Log	14	79	Red Pine	40	Log/Pole	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>White Pine</td> <td>Medium</td> <td>Variable</td> <td>Sapling</td> </tr> </tbody> </table>		Sub-Canopy Species	Density	Avg. Height	Size	White Pine	Medium	Variable	Sapling																																	
Canopy Species	% Cover	Size Class	DBH	Age																																																							
White Pine	60	Log	14	79																																																							
Red Pine	40	Log/Pole	12																																																								
Sub-Canopy Species	Density	Avg. Height	Size																																																								
White Pine	Medium	Variable	Sapling																																																								
53	6124 - Lowland Spruce-Fir	Poletimber Well	2.1	95	51-80	N/A	Stand has a beaver dam on it north boundary and a small drainage/creek running through it.																																																				
<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>Balsam Fir</td> <td>25</td> <td>Pole/Sapling</td> <td>6</td> <td></td> </tr> <tr> <td>Northern White Cedar</td> <td>45</td> <td>Pole</td> <td>7</td> <td>95</td> </tr> <tr> <td>Black Spruce</td> <td>30</td> <td>Pole</td> <td>7</td> <td></td> </tr> </tbody> </table>		Canopy Species	% Cover	Size Class	DBH	Age	Balsam Fir	25	Pole/Sapling	6		Northern White Cedar	45	Pole	7	95	Black Spruce	30	Pole	7		<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>Balsam Fir</td> <td>Low</td> <td>< 5 feet</td> <td>Sapling</td> </tr> <tr> <td>Tamarack</td> <td>Low</td> <td>Variable</td> <td>Sapling</td> </tr> </tbody> </table>		Sub-Canopy Species	Density	Avg. Height	Size	Balsam Fir	Low	< 5 feet	Sapling	Tamarack	Low	Variable	Sapling																								
Canopy Species	% Cover	Size Class	DBH	Age																																																							
Balsam Fir	25	Pole/Sapling	6																																																								
Northern White Cedar	45	Pole	7	95																																																							
Black Spruce	30	Pole	7																																																								
Sub-Canopy Species	Density	Avg. Height	Size																																																								
Balsam Fir	Low	< 5 feet	Sapling																																																								
Tamarack	Low	Variable	Sapling																																																								
54	42290 - Natural Mixed Pine	Sawtimber Well	11.1	83	81-110	N/A	Unique mixed stand pine in between the flooding and the bog. South end has more of a red pine component were the north has more jack pine.																																																				
<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>10</td> <td>Pole</td> <td>5</td> <td></td> </tr> <tr> <td>Red Pine</td> <td>35</td> <td>Log/Pole</td> <td>12</td> <td>83</td> </tr> <tr> <td>Jack Pine</td> <td>30</td> <td>Pole</td> <td>7</td> <td></td> </tr> <tr> <td>White Pine</td> <td>25</td> <td>Log</td> <td>14</td> <td></td> </tr> </tbody> </table>		Canopy Species	% Cover	Size Class	DBH	Age	Red Maple	10	Pole	5		Red Pine	35	Log/Pole	12	83	Jack Pine	30	Pole	7		White Pine	25	Log	14		<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>Medium</td> <td>Variable</td> <td>Sapling</td> </tr> </tbody> </table>		Sub-Canopy Species	Density	Avg. Height	Size	White Pine	Medium	Variable	Sapling																							
Canopy Species	% Cover	Size Class	DBH	Age																																																							
Red Maple	10	Pole	5																																																								
Red Pine	35	Log/Pole	12	83																																																							
Jack Pine	30	Pole	7																																																								
White Pine	25	Log	14																																																								
Sub-Canopy Species	Density	Avg. Height	Size																																																								
White Pine	Medium	Variable	Sapling																																																								



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																								
55	42290 - Natural Mixed Pine	Sawtimber Medium	39.2	62	1-50	N/A	Stand has large pine over regenerating pine and fir. Stand has some J6 areas. Mostly Stand is on the transition ground between upland and lowland.																																																								
<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 Pine</td> <td>50</td> <td>Log/Pole</td> <td>12</td> <td>62</td> </tr> <tr> <td>White Pine</td> <td>20</td> <td>Log/Pole</td> <td>12</td> <td></td> </tr> <tr> <td>Jack Pine</td> <td>15</td> <td>Pole</td> <td>6</td> <td></td> </tr> <tr> <td>Black Cherry</td> <td>5</td> <td>Pole</td> <td>7</td> <td></td> </tr> <tr> <td>Balsam Fir</td> <td>5</td> <td>Pole/Sapling</td> <td>6</td> <td></td> </tr> <tr> <td>Black Spruce</td> <td>5</td> <td>Pole</td> <td>7</td> <td></td> </tr> </tbody> </table>		Canopy Species	% Cover	Size Class	DBH	Age		Red Pine	50	Log/Pole	12	62	White Pine	20	Log/Pole	12		Jack Pine	15	Pole	6		Black Cherry	5	Pole	7		Balsam Fir	5	Pole/Sapling	6		Black Spruce	5	Pole	7		<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 Cherry</td> <td>Low</td> <td>< 5 feet</td> <td>Sapling</td> </tr> <tr> <td>Red Pine</td> <td>Low</td> <td>Variable</td> <td>Sapling</td> </tr> <tr> <td>Jack Pine</td> <td>Medium</td> <td>Variable</td> <td>Sapling</td> </tr> <tr> <td>Balsam Fir</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> </tbody> </table>		Sub-Canopy Species	Density	Avg. Height	Size	Black Cherry	Low	< 5 feet	Sapling	Red Pine	Low	Variable	Sapling	Jack Pine	Medium	Variable	Sapling	Balsam Fir	Low	Variable	Sapling	White Pine	Medium	Variable	Sapling
Canopy Species	% Cover	Size Class	DBH	Age																																																											
Red Pine	50	Log/Pole	12	62																																																											
White Pine	20	Log/Pole	12																																																												
Jack Pine	15	Pole	6																																																												
Black Cherry	5	Pole	7																																																												
Balsam Fir	5	Pole/Sapling	6																																																												
Black Spruce	5	Pole	7																																																												
Sub-Canopy Species	Density	Avg. Height	Size																																																												
Black Cherry	Low	< 5 feet	Sapling																																																												
Red Pine	Low	Variable	Sapling																																																												
Jack Pine	Medium	Variable	Sapling																																																												
Balsam Fir	Low	Variable	Sapling																																																												
White Pine	Medium	Variable	Sapling																																																												
56	623 - Emergent Wetland	Nonstocked	49.2			No	Goose creek flooding																																																								
57	6224 - Treed Bog	Nonstocked	1.6	0		No	leatherleaf bog with scattered white pine and spruce																																																								
58	330 - Low-Density Trees	Nonstocked	12.6		Immature	No	Opening that is filling in with red maple and cherry.																																																								
59	42111 - Planted Red Pine, Mixed Deciduous	Sapling Medium	16.2	9	Immature	N/A	Area harvested and trenched/ partial repainted to red pine - Stand has a decent amount of competition. Red maple is ~ 10-15' tall. R P is 3-4 tall.																																																								
<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 Pine</td> <td>75</td> <td>Sapling</td> <td>1</td> <td>9</td> </tr> <tr> <td>Black/Red (Hybrid) Oak</td> <td>5</td> <td>Sapling</td> <td>1</td> <td></td> </tr> <tr> <td>Red Maple</td> <td>10</td> <td>Sapling</td> <td>1</td> <td></td> </tr> <tr> <td>Jack Pine</td> <td>5</td> <td>Sapling</td> <td>1</td> <td></td> </tr> </tbody> </table>		Canopy Species	% Cover	Size Class	DBH	Age		Red Pine	75	Sapling	1	9	Black/Red (Hybrid) Oak	5	Sapling	1		Red Maple	10	Sapling	1		Jack Pine	5	Sapling	1																																					
Canopy Species	% Cover	Size Class	DBH	Age																																																											
Red Pine	75	Sapling	1	9																																																											
Black/Red (Hybrid) Oak	5	Sapling	1																																																												
Red Maple	10	Sapling	1																																																												
Jack Pine	5	Sapling	1																																																												
60	4310 - Pine, Oak Mix	Sapling Well	137.1	15	Immature	N/A	Area was understory planted in 2006 with red pine . The overstory (red pine) was removed in 2009, 138 acres were treated with approx. 86,000 red pine being planted. - stand is a real mix bag of species. Stocking is patchy but overall medium - well stocked. Some areas are more deciduous and others heavier to pine.																																																								
<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 Pine</td> <td>30</td> <td>Sapling</td> <td>1</td> <td>15</td> </tr> <tr> <td>Jack Pine</td> <td>15</td> <td>Sapling</td> <td>1</td> <td></td> </tr> <tr> <td>Red Maple</td> <td>15</td> <td>Sapling</td> <td>1</td> <td></td> </tr> <tr> <td>White Oak</td> <td>5</td> <td>Sapling</td> <td>1</td> <td></td> </tr> <tr> <td>Red Oak</td> <td>15</td> <td>Sapling</td> <td>1</td> <td></td> </tr> <tr> <td>Black Cherry</td> <td>5</td> <td>Sapling</td> <td>1</td> <td></td> </tr> <tr> <td>Quaking Aspen</td> <td>5</td> <td>Sapling</td> <td>1</td> <td></td> </tr> <tr> <td>White Pine</td> <td>10</td> <td>Sapling</td> <td>1</td> <td></td> </tr> </tbody> </table>		Canopy Species	% Cover	Size Class	DBH	Age		Red Pine	30	Sapling	1	15	Jack Pine	15	Sapling	1		Red Maple	15	Sapling	1		White Oak	5	Sapling	1		Red Oak	15	Sapling	1		Black Cherry	5	Sapling	1		Quaking Aspen	5	Sapling	1		White Pine	10	Sapling	1																	
Canopy Species	% Cover	Size Class	DBH	Age																																																											
Red Pine	30	Sapling	1	15																																																											
Jack Pine	15	Sapling	1																																																												
Red Maple	15	Sapling	1																																																												
White Oak	5	Sapling	1																																																												
Red Oak	15	Sapling	1																																																												
Black Cherry	5	Sapling	1																																																												
Quaking Aspen	5	Sapling	1																																																												
White Pine	10	Sapling	1																																																												
61	320 - Upland Shrub	Nonstocked	16.8			Managed Opening	Gas pipeline																																																								
62	310 - Herbaceous Openland	Nonstocked	2.0	0	Unspecified	Managed Opening																																																									



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments	
64	4110 - Sugar Maple Association	Sawtimber Poor	7.0	91	1-50	N/A	61-062-12-02. Removed all trees with more than 1/3 crown mortality. Thinning completed in 2004- Sale # 9-02 - 612 South Hdwd- Salvage 4 treatment in part of original stand, Section 3 Salvage,- scattered maple log trees over young cherry. Still quite a bit of blackberry.	
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		
Sugar Maple		80	Log/Pole	12	91	Sugar Maple		
Black Cherry		10	Log/Pole	10		Red Maple		
Red Maple		10	Log/Pole	12		Black Cherry		
						Density	Avg. Height	Size
						Low	< 5 feet	Sapling
						Low	< 5 feet	Sapling
						High	5 - 10 feet	Sapling
66	4110 - Sugar Maple Association	Sawtimber Poor	40.9	84	1-50	N/A	Stand was defoliate by eastern tent catpillar in 2009 and 2010 and caused significant mortality. Stand was salvaged in 2014 'Section 4 Salvage' 61-063-12-01. Removed all maple and oak that had 40% or more mortality in the crown. Stocking is going to be variable. This is the North end of the salvage cut and it is not regenerating very well. Most of the overstory has some top dieback. Should come back in the spring and see if there is any visiable regen that the snow is now covering up.	
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		
Sugar Maple		70	Log/Pole	10	84	Black Cherry		
Red Maple		10	Log/Pole	10		Sugar Maple		
Basswood		10	Log	12		Blackberry/Raspberry		
Black Cherry		10	Pole/Log	9		Density	Avg. Height	Size
						Low	5 - 10 feet	Sapling
						Low	5 - 10 feet	Sapling
						High	5 - 10 feet	Tall Shrub
67	4110 - Sugar Maple Association	Sawtimber Poor	30.9	87	1-50	N/A	Sale # 13-93 and 55-93 - selection thinning completed in 1996 & 1998 - BA nearing treatment range but there are still many canopy gaps not closed in. Hold treatment until next entry. This portion of the stand was harvested in the spring of 2018 under the Mike Walter Hardwood regeneration research project (MWR Comp 110 Hardwoods II 61-114-18-01). The residual BA is around 40sqft/ac and the sale was chip harvested for scarification. It is scheduled to for a herbicide treatment in 2020. - stand is sprouting back with beech and cherry. Deer browse is noticable on the cherry. - Stand was herbicided in summer of 2020. - Stand was scarified in summer of 2020.	
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		
Sugar Maple		75	Log/Pole	12	87	Beech		
Red Maple		10	Log/Pole	12		Black Cherry		
Basswood		5	Log/Pole	12		Red Maple		
Beech		5	Log/Pole	10		Density	Avg. Height	Size
Red Oak		5	Log	16		Medium	5 - 10 feet	Sapling
						Low	< 5 feet	Sapling
						Medium	< 5 feet	Sapling