Compartment Review Presentation

Newberry Forest Management Unit

Compartment 42075
Entry Year 2023
Acreage: 4,320
County Chippewa
Management Area: Sage Truck Trail

Revision Date: 2021-12-29

Stand Examiner: Jennifer Burnham

Legal Description:

T45N R7W, Sections 21-27, 35, 36

Identified Planning Goals:

Maintain forest productivity, forest health, species diversity, and age class diversity through silvicultural and natural processes of the area through proper management. Timber and wildlife habitat are both important management goals within the compartment. Treatments prescribed will help ensure the sustainability of the forest resource and continue to enhance the quality of the wildlife habitat. Maintain and/or improve the integrity of the deeryard and surrounding area.

Soil and topography:

Topography consists of rolling upland areas to level wet lowland areas. The major soil type(s) associated with the lowland areas is Markey and Carbondale Mucks. Cover types supported on these muck soils include cedar, lowland swamp conifer, tamarack, and lowland black spruce. Narrow ridges of red pine and white pine are found throughout these cover types. The main upland soil type is Kalkaska sand, on which good quality northern hardwoods (maple) are found. In the “transition area” between the muck soils and the Kalkaska sand is an array of soils such as Allendale-Fibre complex, Wainola-KinrossRousseau complex, Croswell-Au Gres sands, Allendale-Croswell complex, Kinross-Au Gres complex and Biscuit very fine sandy loam. White pine, aspen, northern hardwoods and hemlock are cover types associated with this array of soils.

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

The compartment is mostly made up of a continuous block of State ownership. The compartment’s east boundary is the Hiawatha National Forest. There are some seasonal cabins along the east edge of the compartment boundary on the surrounding private parcels. There is one private hunting camp (Hendrie River Camp) on the private land parcel located in the northeast corner of the compartment boundary. Development within the compartment and surrounding area is limited due to the lowland nature of the area. Land use in the area is primarily deer hunting.

Unique Natural Features:

MNFI lists the potential for eagle, osprey, red-shouldered hawk, goshawk, great blue heron rookery. Potential wood turtle along creeks and rivers. Potential for incurvate emerald, frigga fritillary, freija fritillary and ebony boghaunter in open boggy areas. Potential for rare plants of rich mesic
forests: Assiniboia sedge, showy orchis, ginseng, and goblin fern. Potential for English sundew, northern prostrate clubmoss, alga pondweed, Wiegand's sedge, sweet colts-foot, and autumnal water star-wort in bogs. Potential for Canada ricegrass and western moonwort in dry grassy openings.

Archeological, Historical, and Cultural Features:

Nothing listed.

Special Management Designations or Considerations:

Watershed and Fisheries Considerations:

The Hendrie River in this compartment is a cold transitional small river. Hendrie River and Quinn Creek are not designated trout streams, so standard BMP’s should apply. Stand 39 needs to maintain a minimum of a 100 ft buffer plus 5 ft per 1% increase in slope per the BMP guidelines.

Wildlife Habitat Considerations:

Compartment 75 lies in western Chippewa county and is in the Seney Sand Lake Plain ecological sub-subsection and the Sage River Truck Trail Management Area where white-tailed deer, ruffed grouse, snowshoe hare, American marten, and black bear are featured species. The northwest portion of the compartment lies within the Hendrie River Deer yard which supports high numbers of deer during stressful winter periods. The majority of the compartment is comprised of a mix of lowland and mixed conifer types and spruce stands with the northern portion containing a bit more upland types with mixed deciduous, aspen and northern hardwoods. Stands are very diverse in the compartment supporting many varied wildlife

species. The railroad tracks border the western edge of the compartment and the Hendrie river runs through the central portion of the compartment serving as excellent wildlife travel corridors.

Harvests will generally be scheduled during winter to protect the integrity of lowland types. Large diameter white pine and hemlock and occasionally cedar the yellow birch will typically be retained in harvested stands to provide refuge and nest trees (bears and eagles) and later snags and den trees for wildlife such as cavity nesting birds and coarse woody debris for marten (featured species) and small mammals. Snowshoe hare habitat will be improved in lowlands by creating hinge cut brush piles into adjacent food stands. A wildlife corridor of mature timber will be retained through the compartment.

Mineral Resource and Development Concerns and/or Restrictions

Sections 21-27 & 35-36, T45N-R7W, Chippewa County.
No known potential exists for commercial oil & gas production in this part of the state, and there is no known potential for metallic minerals in this area. The nearest active sand/gravel pit is approximately two miles to the northwest, but potential for non-metallic mineral development within the compartment appears limited. No current mineral leasing activity exists in the area. The State does not own all mineral rights within the compartment. Because the mineral estate is the dominant estate, reasonable access to the surface must be provided to private owners if they choose to explore or develop their mineral rights

Vehicle Access:

Vehicle access into compartment is poor. The only vehicle access is in the northern portions of the compartment that come from a two-track leading off of the Basnau Road to the north. There are some roads in along the eastern edges of the compartment but little in the way of decent access leading
into the compartment. The western edges of the compartment are bordered by railroad tracks and lowland areas with no drivable roads.

Survey Needs:

If timber harvest treatments occur, some survey corners will need to be established in sections 24, 25 and 36 where they interface with other landowners.

Recreational Facilities and Opportunities:

Recreational opportunities would primarily include hunting (deer and grouse) as well as some fishing.

Fire Protection:

Possibility of large fire growth would be low because of the lowland cover types. The lack of access routes and soft ground will make initial attack with heavy equipment challenging or impossible. Modified suppression tactics may need to be used on fires in the compartment.

Additional Compartment Information:

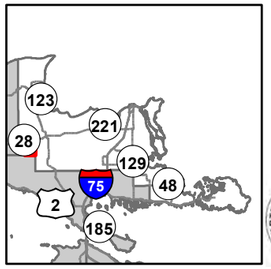
The following reports from the Inventory are attached:

- **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



N

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T45N, R07W, Sec. 21-27, 35, 36
County: Chippewa
Unit: Newberry
Mgmt Area: Sage Truck Trail
YOE: 2023
Acres: 4320.1 GIS Calculated
Examiner: Jennifer Burnham
Map Revised: 12/29/2021
Map Phase: Post-Review

- Miris Corners
- Remonumented Section Corners
- Survey Grade Corners
- Counties
- DNR - Forest Access Route
- Federal / State - Dirt / Gravel Road
- Private - Dirt / Gravel Road
- Active Railroads
- Cabin
- Gate
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- Perennial River
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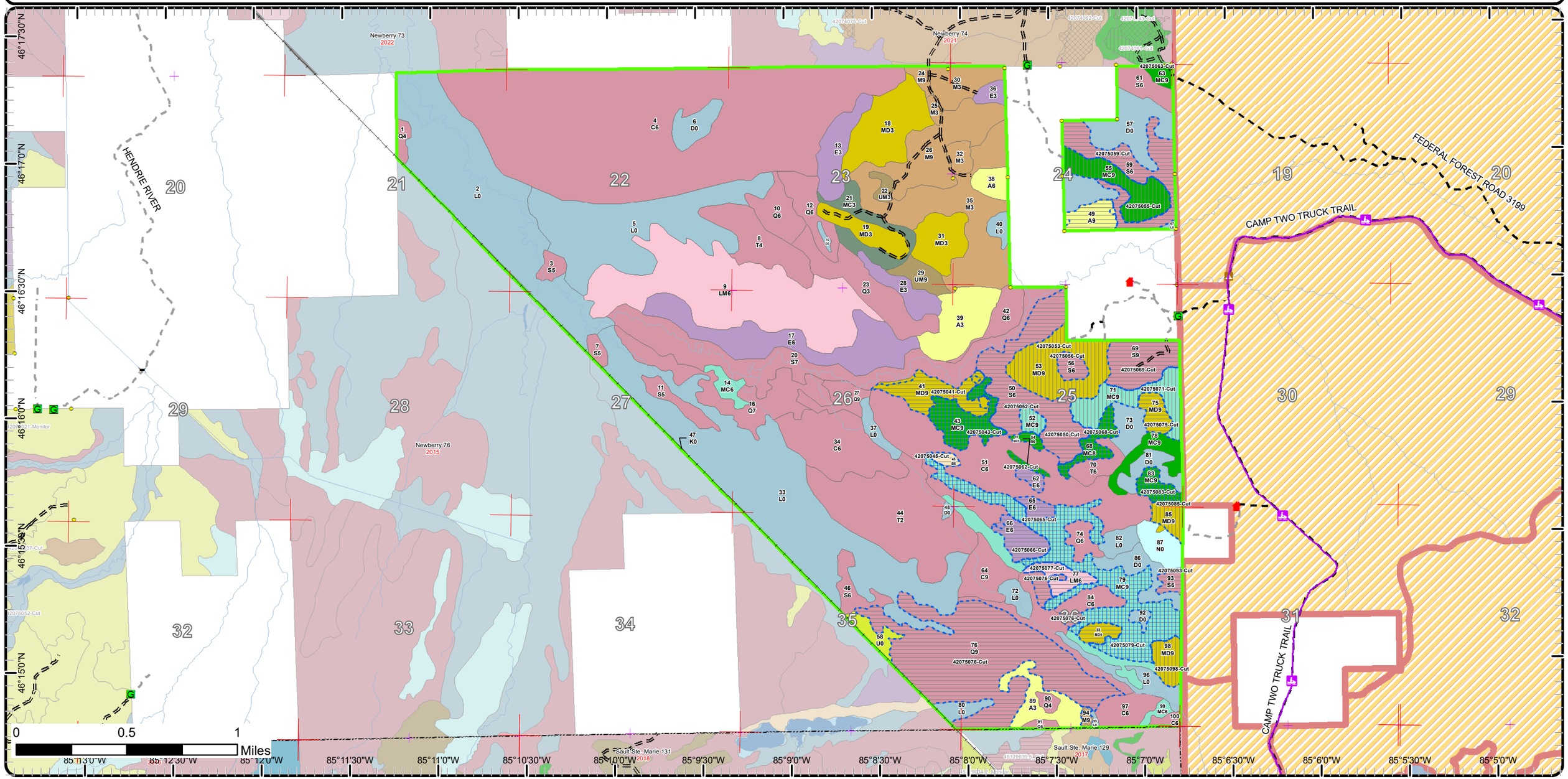
- Compartment Boundary
- Treatments with Site Conditions
- Selection (Group, Single Tree)
- Clearcut (w/Reserves)
- Seed Tree (w/Reserves)
- Shelter Wood (w/Reserves)
- 411 - Northern Hardwood
- 413 - Aspen
- 414 - Other Upland Deciduous
- 419 - Mixed Upland Deciduous
- 422 - Natural Pines
- 423 - Other Upland Conifers
- 429 - Mixed Upland Conifers
- 430 - Upland Mixed Forest
- 611 - Lowland Deciduous Forest
- 612 - Lowland Coniferous Forest
- 613 - Lowland Mixed Forest
- 330 - Low Density Trees
- 622 - Lowland Shrub
- 623 - Emergent Wetland
- 720 - Exposed Rock



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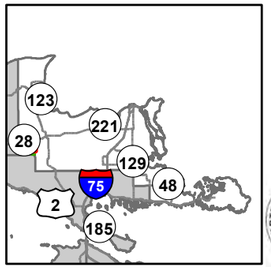

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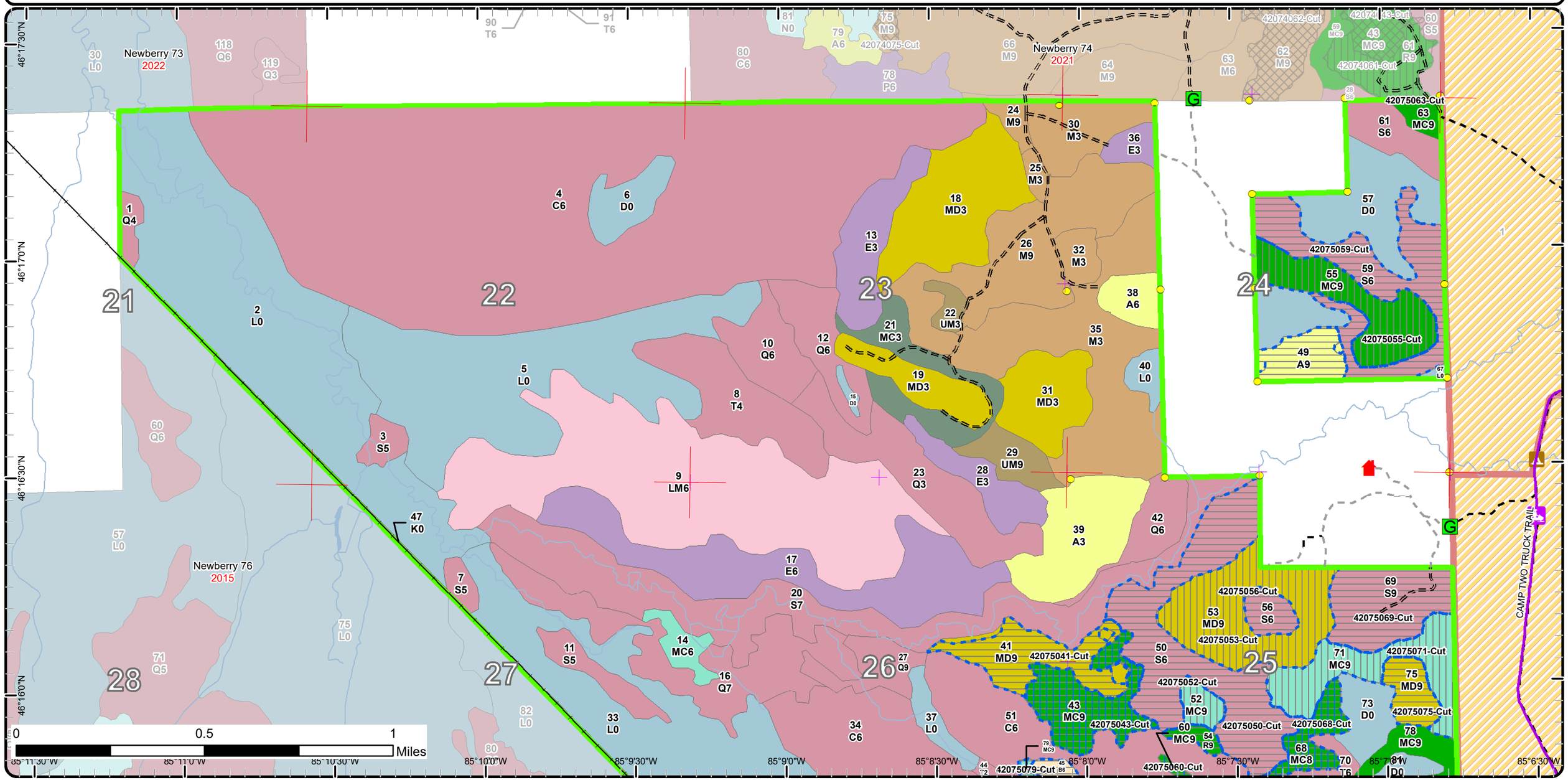

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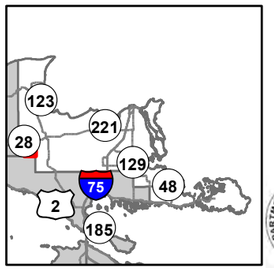

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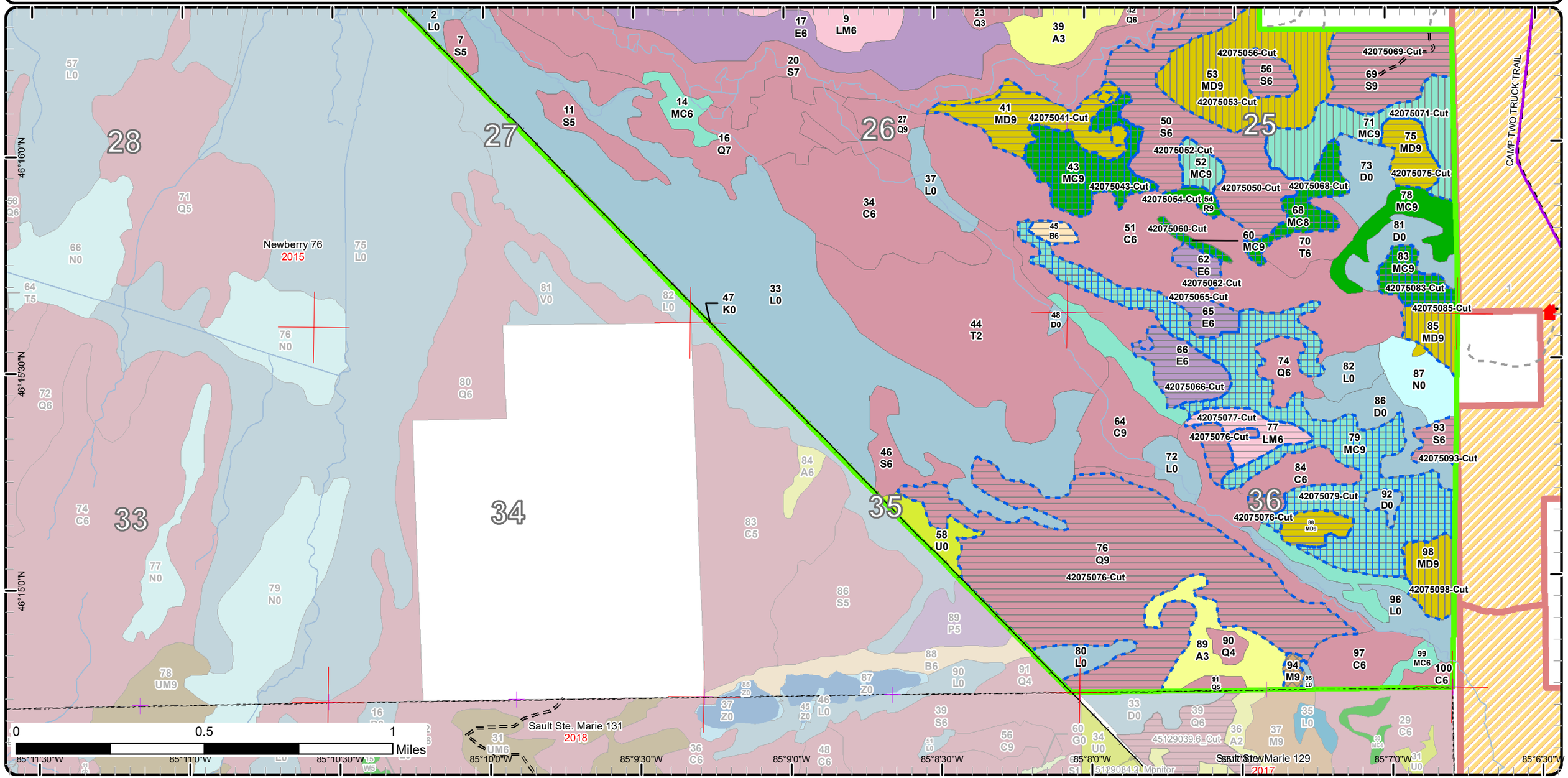
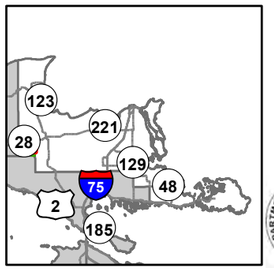


Stand Boundary Map



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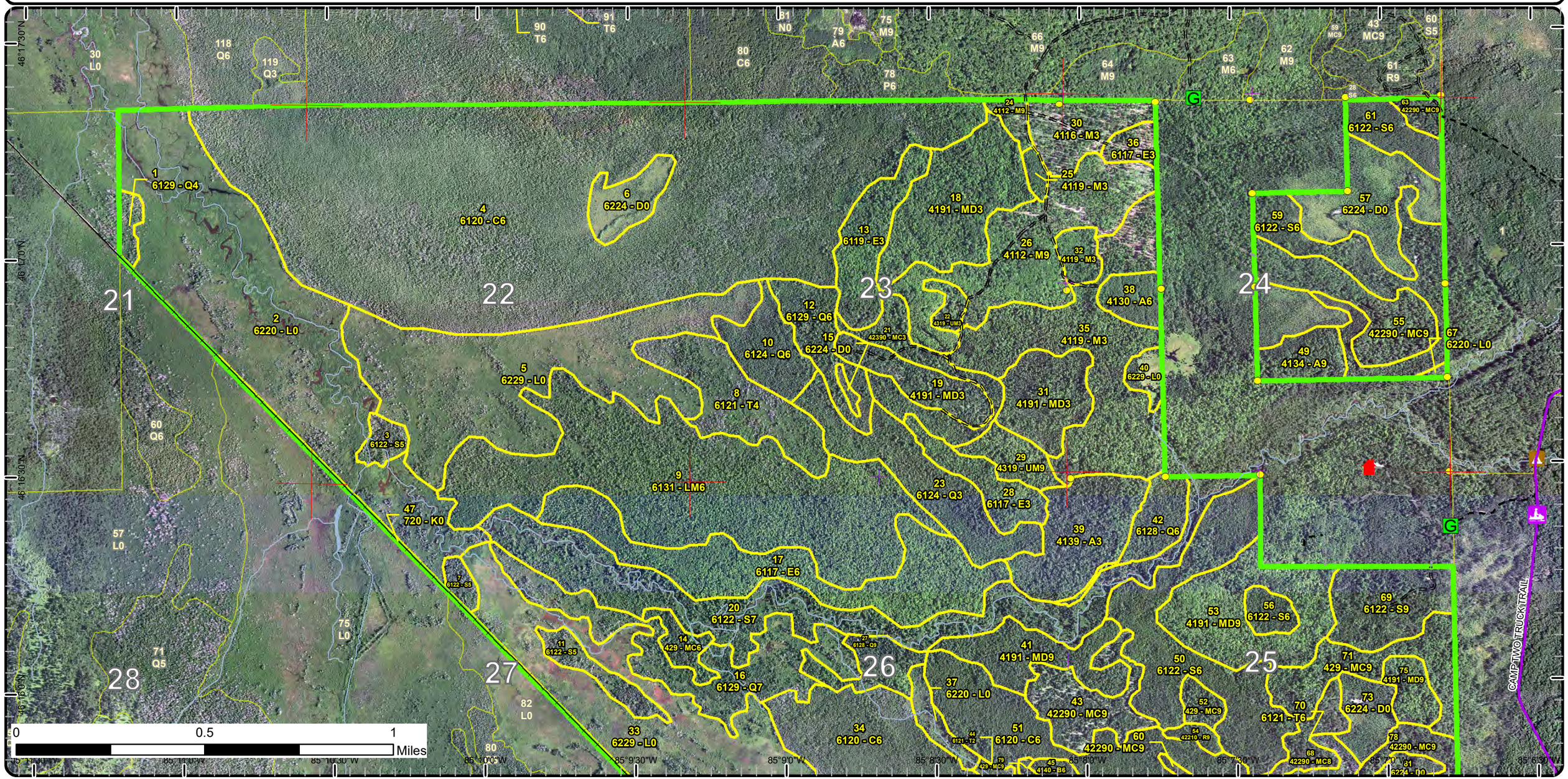

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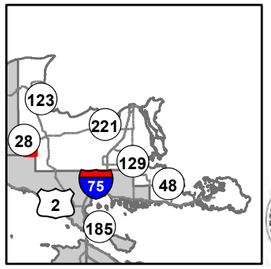

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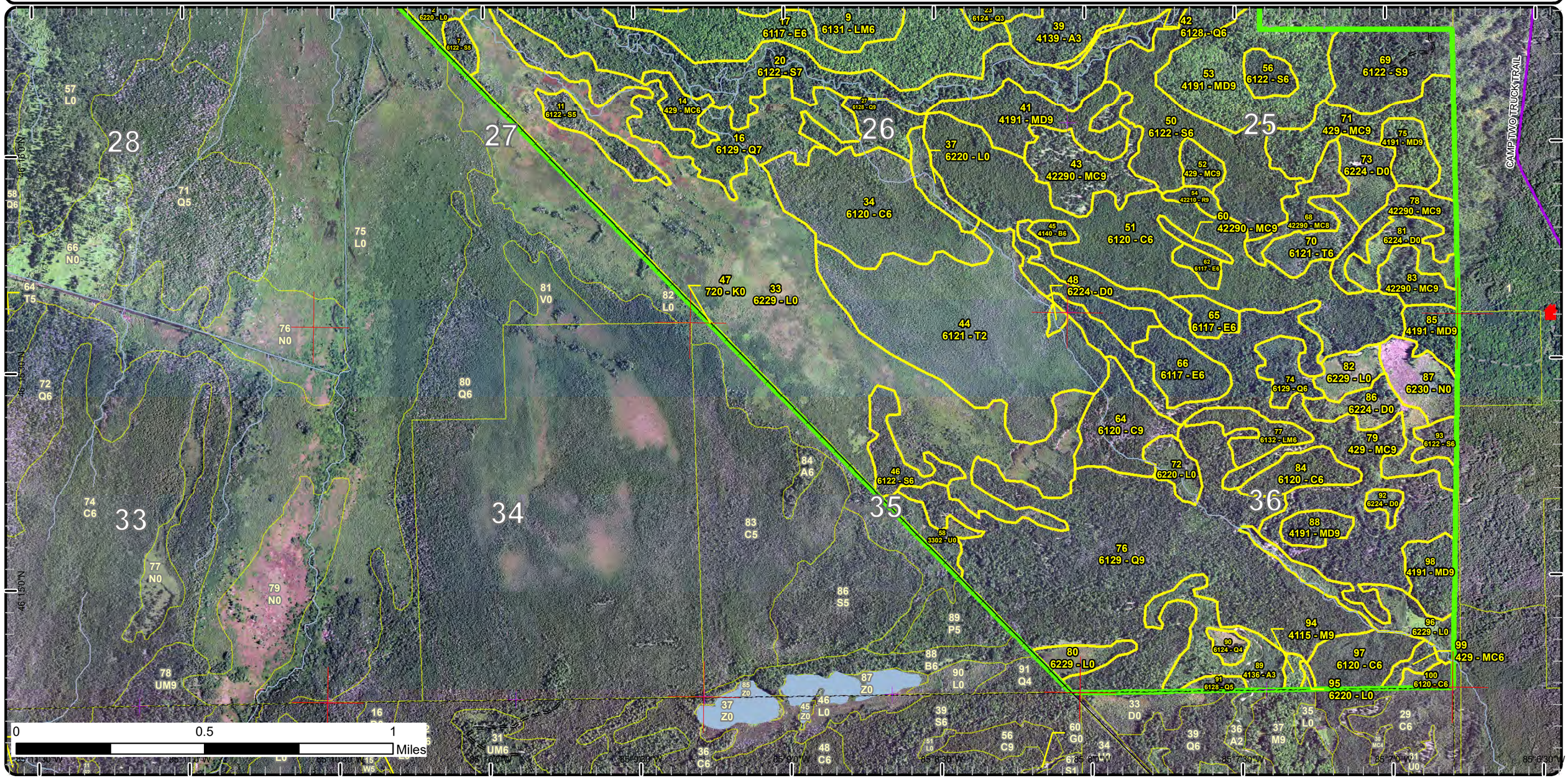

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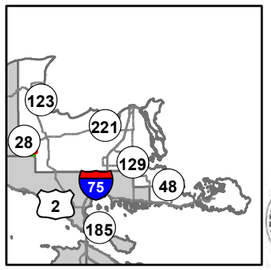

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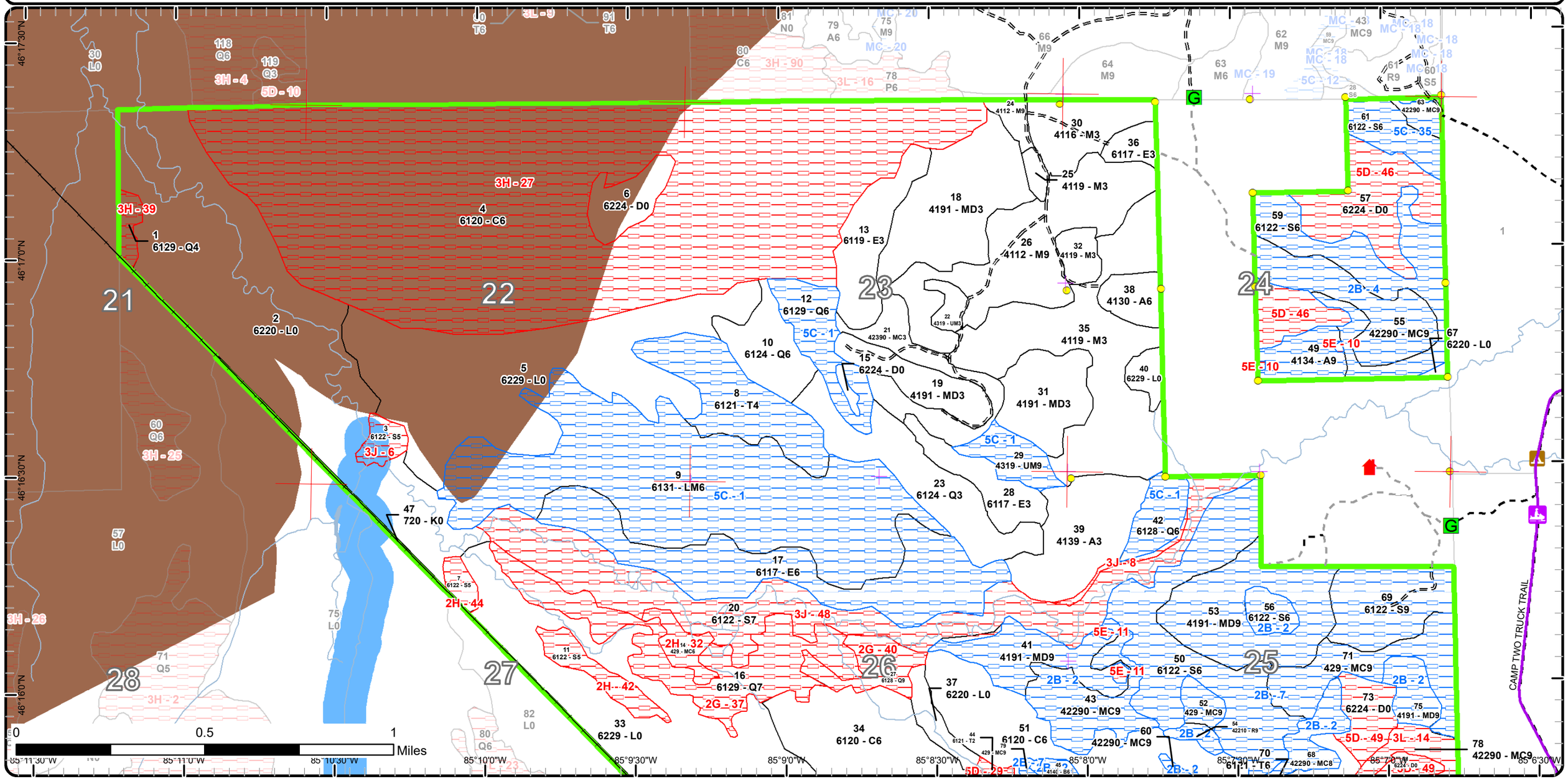
- Available w/ Constraints
- 5C: Delay treatment for age/size class diversity or exceptional site quality
- Unavailable
- 2G: Too wet (sensitive soils, does not include access issues)
- 2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)
- 3J: Water quality / BMPs (stream, river, or lake)
- 3L: Other wildlife concerns
- 5D: Unproductive Forest Land
- 5E: Long-Term Retention
- Stand Boundaries
- Cold Water Streams
- High Priority Trout Stream Buffer
- Deer Winter Range



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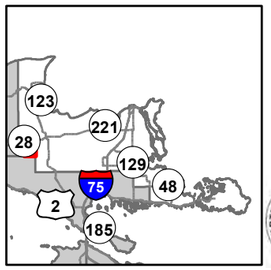

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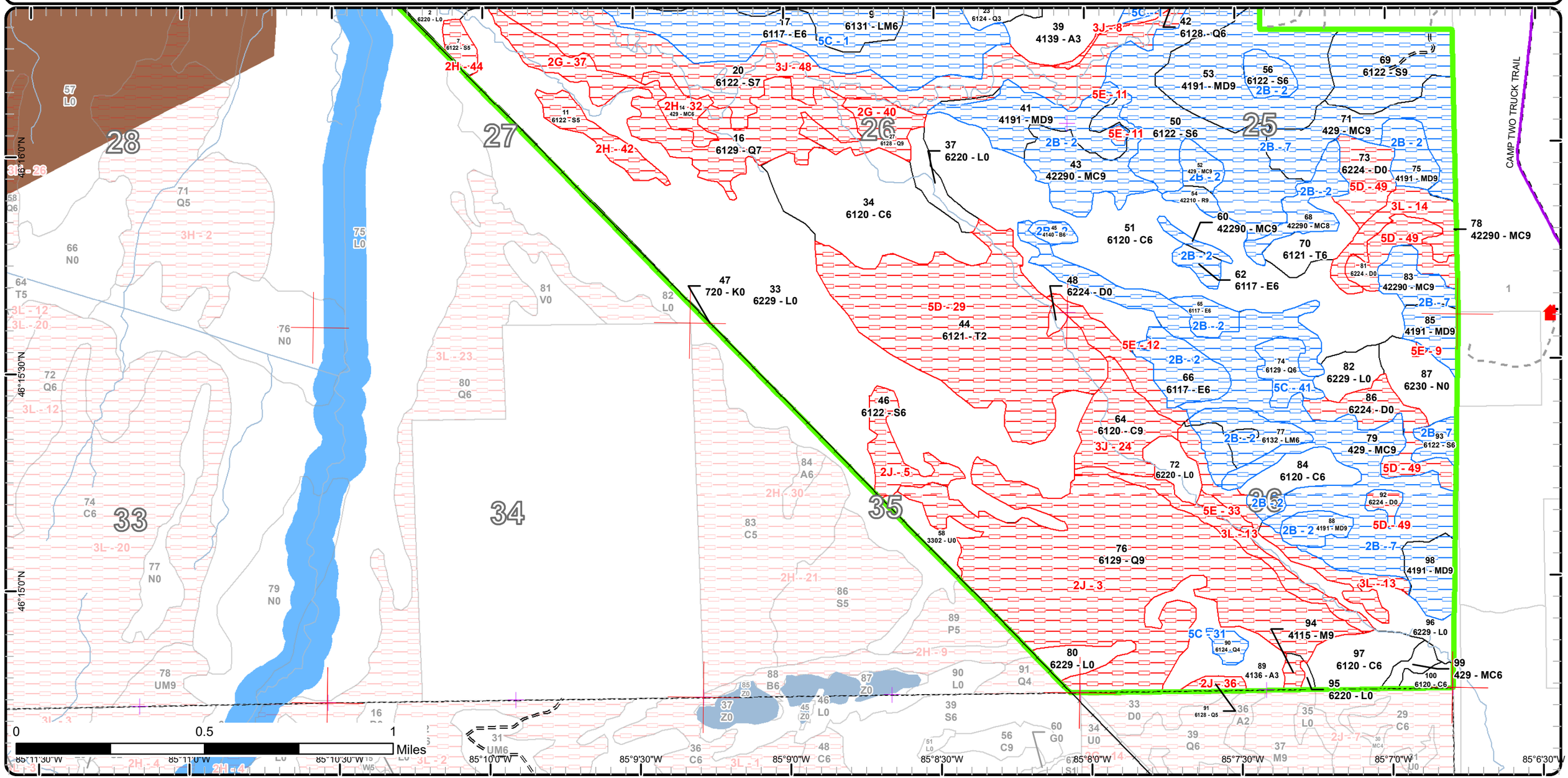

Report 1 – Total Acres by Cover Type and Age Class

Newberry Mgt. Unit **Compartment 75** **Year of Entry 2023**

Jennifer Burnham : Examiner

Age Class

	Non-Forest	0-9	10-19	20-29	30-39	40-49	50-59	60-69	70-79	80-89	90-99	100-109	110-119	120-129	130-139	140-149	150+	Uneven-Aged	Total
Aspen	0	48	29	0	13	0	0	0	0	17	0	0	0	0	0	0	0	0	**107**
Cedar	0	0	0	0	0	0	0	0	0	0	171	27	671	0	0	0	0	0	**868**
Exposed Rock	13	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	**13**
Low-Density Trees	11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	**11**
Lowland Conifers	0	0	0	0	0	108	0	0	0	0	274	112	0	0	0	0	0	0	**493**
Lowland Deciduous	0	63	0	0	0	0	0	0	94	5	28	0	0	0	0	0	0	0	**190**
Lowland Mixed Forest	0	0	0	0	0	0	0	214	0	0	14	0	0	0	0	0	0	0	**228**
Lowland Shrub	754	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	**754**
Lowland Spruce/Fir	0	0	0	0	0	0	0	0	0	127	54	113	87	0	0	0	0	6	**387**
Marsh	19	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	**19**
Mixed Upland Deciduous	0	96	0	0	0	24	0	0	0	41	102	0	0	0	0	0	0	0	**263**
Natural Mixed Pines	0	0	0	0	0	0	0	0	0	6	50	36	39	0	0	0	0	0	**131**
Northern Hardwood	0	130	0	0	13	0	0	0	0	0	0	3	0	0	0	0	0	89	**235**
Paper Birch	0	0	0	0	0	0	0	0	0	4	0	0	0	0	0	0	0	0	**4**
Red Pine	0	0	0	0	0	0	0	0	0	0	0	4	0	0	0	0	0	0	**4**
Tamarack	0	0	0	0	0	0	15	0	49	0	0	0	139	0	0	0	0	0	**202**
Treed Bog	146	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	**146**
Upland Conifers	0	0	0	0	0	31	0	0	0	0	5	198	7	0	0	0	0	0	**240**
Upland Mixed Forest	0	0	0	0	0	6	0	0	0	0	15	0	0	0	0	0	0	0	**21**
Total	**943**	**337**	**29**	**0**	**26**	**169**	**15**	**214**	**143**	**200**	**713**	**493**	**943**	**0**	**0**	**0**	**0**	**95**	**4316**

SWARTZN3

Report 2 – Treatment Summary

Newberry Mgt. Unit

Year of Entry: 2023

Acres of Harvest

Compartment 75

Total Compartment Acres: 4,320

Commercial Harvest - 63

Harvests with Site Condition - 845

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
Aspen	17	0	0	0	0	0	0	0	0	**17**
Lowland Conifers	223	0	0	0	0	0	0	0	0	**223**
Lowland Deciduous	33	0	0	0	0	0	0	0	0	**33**
Lowland Mixed Forest	14	0	0	0	0	0	0	0	0	**14**
Lowland Spruce/Fir	197	0	0	0	0	0	0	0	0	**197**
Mixed Upland Deciduous	53	0	0	0	87	0	0	0	0	**140**
Natural Mixed Pines	0	0	0	67	40	0	0	0	0	**106**
Northern Hardwood	0	3	0	0	0	0	0	0	0	**3**
Paper Birch	4	0	0	0	0	0	0	0	0	**4**
Red Pine	4	0	0	0	0	0	0	0	0	**4**
Upland Conifers	0	0	0	122	45	0	0	0	0	**167**
Total	**545**	**3**	**0**	**189**	**172**	**0**	**0**	**0**	**0**	**909**

Proposed and Next Step Treatments by Method

	Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current	909	0	0	0	0	0	0	0	0	**909**
Next Step	0	0	0	0	0	0	909	0	0	**909**
Total	**909**	**0**	**0**	**0**	**0**	**0**	**909**	**0**	**0**	**1817**

Approved Treatments:

Stand	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
41	42075041-Cut	30.9	4191 - Mixed Upland Deciduous with Conifer	Sawtimber Well	90	81-110	Harvest	Clearcut with Retention	4191 - Mixed Upland Deciduous with Conifer	Even-Aged	No

Prescription Specs: Harvest all species to a 2" spec. Leave all white pine over 22" DBH, cedar and hemlock on the boundary for future nest trees and in the retention areas (estimate of location).

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

Acceptable Regen: Species that are currently present in stand now.

Other Comment: Stand is blocked by the Hendrie River to the north, various landowners to the east, road-less areas to the south and railroad/wetlands to the west. Probably the best option to access the stand for harvesting operations would be to use an old existing logging road on the north side of the Hendrie River and finding a place to cross with a portable bridge. It will take some re-con to identify a location for a bridge site where there is
stable banks and minimal wetland impact. It may be that there is not a good place for a bridge site. The other possible alternative would be to improve/establish roads across private land as well as Forest Service Land to the east to access the stand area.

Site Condition Unknown Access

Proposed Start Date: 10/1 /2022

Stand	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
43	42075043-Cut	33.1	42290 - Natural Mixed Pine	Sawtimber Well	105	81-110	Harvest	Seed Tree with Retention	429 - Mixed Upland Conifers	Even-Aged	No

Prescription Specs: Residual BA should be no more than 30. Leaving red and white pine with large tops for retention and seed source and any cedar. Leave hemlock for future nest trees.

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

Acceptable Regen: Species that are currently present in stand now.

Other Comment: Stand is blocked by the Hendrie River to the north, various landowners to the east, road-less areas to the south and railroad/wetlands to the west. Probably the best option to access the stand for harvesting operations would be to use an old existing logging road on the north side of the Hendrie River and finding a place to cross with a portable bridge. It will take some re-con to identify a location for a bridge site where there is stable banks and minimal wetland impact. It may be that there is not a good place for a bridge site. The other possible alternative would be to improve/establish roads across private land as well as Forest Service Land to the east to access the stand area.

Site Condition Unknown Access

Proposed Start Date: 10/1 /2022

Stand	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
45	42075045-Cut	3.9	4140 - Other Upland Deciduous	Poletimber Well	80	51-80	Harvest	Clearcut with Retention	4193 - Birch, Aspen	Even-Aged	No

Prescription Specs: Treat stand by removing all species. Leave cedar in the red line and near stand 51 as retention. Mark younger/healthy white birch to be left as seed source.

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

Acceptable Regen: Species that are currently present in stand now.

Other Comment: Stand is blocked by the Hendrie River to the north, various landowners to the east, road-less areas to the south and railroad/wetlands to the west. Probably the best option to access the stand for harvesting operations would be to use an old existing logging road on the north side of the
Hendrie River and finding a place to cross with a portable bridge. It will take some re-con to identify a location for a bridge site where there is stable banks and minimal wetland impact. It may be that there is not a good place for a bridge site. The other possible alternative would be to improve/establish roads across private land as well as Forest Service Land to the east to access the stand area.

Site Condition Unknown Access

Proposed Start Date: 10/1 /2022

Stand	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
49	42075049-Cut	16.7	4134 - Aspen, Spruce/Fir	Sawtimber Well	85	81-110	Harvest	Clearcut with Retention	4136 - Aspen, Mixed Conifer	Even-Aged	No

Prescription Specs: Treat with final harvest with patch retention with the objective of establishing regeneration. In addition, leave white pine and hemlock unless needed for maneuverability and leave some mature aspen in the red line.

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

Acceptable Regen: Species that are currently present in stand now.

Other Comment: Place retention patch in an area with larger wp and hemlock.

Site Condition: Unknown Access

Proposed Start Date: 10/1 /2022

Stand	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
50	42075050-Cut	87.1	6122 - Black Spruce	Poletimber Well	115	111-140	Harvest	Clearcut with Retention	6122 - Black Spruce	Even-Aged	No

Prescription Specs: Harvest all species to a 2" spec. Leave all white pine over 22" DBH and hemlock. Establish a couple 'no cut' pockets for cedar retention approximately 1 acre in size where no logging is to occur. Create 6 hinge cut groups near the edge of stand 53 for snowshoe hare; hinge cut groups are three (3) 8-12 inch spruce or fir trees hinge cut with tops overlapping.

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

Acceptable Regen: Species that are currently present in stand now.

Other Comment: Stand is blocked by the Hendrie River to the north, various landowners to the east, road-less areas to the south and railroad/wetlands to the west. Probably the best option to access the stand for harvesting operations would be to use an old existing logging road on the north side of the Hendrie River and finding a place to cross with a portable bridge. It will take some re-con to identify a location for a bridge site where there is
stable banks and minimal wetland impact. It may be that there is not a good place for a bridge site. The other possible alternative would be to improve/establish roads across private land as well as Forest Service Land to the east to access the stand area.

Site Condition: Unknown Access

Proposed Start Date: 10/1 /2022

Stand	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
52	42075052-Cut	7.2	429 - Mixed Upland Conifers	Sawtimber Well	115	81-110	Harvest	Shelterwood with Retention	429 - Mixed Upland Conifers	Two-Aged	No

Prescription Specs: Remove all species. Only remove hemlock and cedar for what is needed for operability purposes; this will create bear escape trees. Mark white pine where needed to increase canopy gaps for regeneration. Residual BA should be approx. 50.

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

Acceptable Regen: Species that are currently present in stand now.

Other Comment: Stand is blocked by the Hendrie River to the north, various landowners to the east, road-less areas to the south and railroad/wetlands to the west. Probably the best option to access the stand for harvesting operations would be to use an old existing logging road on the north side of the Hendrie River and finding a place to cross with a portable bridge. It will take some re-con to identify a location for a bridge site where there is
stable banks and minimal wetland impact. It may be that there is not a good place for a bridge site. The other possible alternative would be to improve/establish roads across private land as well as Forest Service Land to the east to access the stand area.

Site Condition: Unknown Access

Proposed Start Date: 10/1 /2022

Stand	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
53	42075053-Cut	59.5	4191 - Mixed Upland Deciduous with Conifer	Sawtimber Well	95	81-110	Harvest	Shelterwood with Retention	4199 - Other Mixed Upland Deciduous	Even-Aged	No

Prescription Specs: Leave white pine, yellow birch, and red maple over 22" DBH for future soft snags. Leave all hemlock and cedar present as retention. Residual BA should be approx. 50.

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

Acceptable Regen: Species that are currently present in stand now.

Other Comment: Stand is blocked by the Hendrie River to the north, various landowners to the east, road-less areas to the south and railroad/wetlands to the west. Probably the best option to access the stand for harvesting operations would be to use an old existing logging road on the north side of the Hendrie River and finding a place to cross with a portable bridge. It will take some re-con to identify a location for a bridge site where there is
stable banks and minimal wetland impact. It may be that there is not a good place for a bridge site. The other possible alternative would be to improve/establish roads across private land as well as Forest Service Land to the east to access the stand area.

Site Condition

Proposed Start Date: 10/1 /2022

Stand	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
54	42075054-Cut	4.2	42210 - Natural Red Pine	Sawtimber Well	100	111-140	Harvest	Clearcut with Retention	42211 - Natural Red Pine, Mixed Deciduous	Even-Aged	No

Prescription Specs: Remove all species. Leave pine over 22" DBH as seed source and any cedar or hemlock on the south edge of the stand. Residual BA should not be more than 10 BA.

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

Acceptable Regen: Species that are currently present in stand now.

Other Comment: Harvesting on bare ground will help to scarify for pine regeneration.

Site Condition Unknown Access

Proposed Start Date: 10/1 /2022

Stand	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
55	42075055-Cut	38.9	42290 - Natural Mixed Pine	Sawtimber Well	116	81-110	Harvest	Shelterwood with Retention	429 - Mixed Upland Conifers	Even-Aged	No

Prescription Specs: Harvest all species to a 2" spec, leaving 30 BA of large canopy pine for seed source. Leave mature aspen in the red line for grouse

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

Acceptable Regen: Species that are currently present in stand now.

Other Comment: Permission will need to be granted by the private landowner to gain access to the stand. There is an old existing road on private land leading to State land that will need improvement, trees cut/trimmed, etc. Area will need a formal survey.

Site Condition Unknown Access

Proposed Start Date: 10/1 /2022

Stand	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
56	42075056-Cut	8.9	6122 - Black Spruce	Poletimber Well	95	81-110	Harvest	Clearcut with Retention	6122 - Black Spruce	Even-Aged	No

Prescription Specs: Harvest all species to a 2" spec. Leave white pine, hemlock for bear escape trees, yellow birch and cedar as retention.

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

Acceptable Regen: Species that are currently present in stand now.

Other Comment: Stand is blocked by the Hendrie River to the north, various landowners to the east, road-less areas to the south and railroad/wetlands to the west. Probably the best option to access the stand for harvesting operations would be to use an old existing logging road on the north side of the Hendrie River and finding a place to cross with a portable bridge. It will take some re-con to identify a location for a bridge site where there is
stable banks and minimal wetland impact. It may be that there is not a good place for a bridge site. The other possible alternative would be to improve/establish roads across private land as well as Forest Service Land to the east to access the stand area.

Site Condition: Unknown Access

Proposed Start Date: 10/1 /2022

Stand	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
59	42075059-Cut	56.0	6122 - Black Spruce	Poletimber Well	100	81-110	Harvest	Clearcut with Retention	6122 - Black Spruce	Even-Aged	No

Prescription Specs: Final harvest down to 2" DBH leaving all pine and hemlock and cedar that exists as retention. Areas of small diameter spruce not harvested will also be part of retention.

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

Acceptable Regen: Species that are currently present in stand now.

Other Comment: Stand is blocked by the Hendrie River to the north, various landowners to the east, road-less areas to the south and railroad/wetlands to the west. Probably the best option to access the stand for harvesting operations would be to use an old existing logging road on the north side of the Hendrie River and finding a place to cross with a portable bridge. It will take some re-con to identify a location for a bridge site where there is
stable banks and minimal wetland impact. It may be that there is not a good place for a bridge site. The other possible alternative would be to improve/establish roads across private land as well as Forest Service Land to the east to access the stand area.

Site Condition: Unknown Access

Proposed Start Date: 10/1 /2022

Stand	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
60	42075060-Cut	3.3	42290 - Natural Mixed Pine	Sawtimber Well	100	51-80	Harvest	Seed Tree with Retention	429 - Mixed Upland Conifers	Even-Aged	No

Prescription Specs: Harvest all species to a 2" spec. Leave 30 BA of pine with large tops for seeds source.

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

Acceptable Regen: Species that are currently present in stand now.

Other Comment:

Site Condition:

Proposed Start Date: 10/1 /2022

Stand	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
62	**42075062-Cut**	5.3	6117 - Lowland Deciduous, Mixed Coniferous	Poletimber Well	85	51-80	Harvest	Clearcut	6117 - Lowland Deciduous, Mixed Coniferous	Even-Aged	No

Prescription Specs: Harvest all species to a 2" spec. No retention due to small acreage and large cedar stand to the west/south.

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

Acceptable Regen: Species that are currently present in stand now.

Other Comment: Manage for regeneration and potential food source.

Site Condition: Unknown Access

Proposed Start Date: 10/1 /2022

Stand	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
63	**42075063-Cut**	0.6	42290 - Natural Mixed Pine	Sawtimber Well	85	81-110	Harvest	Shelterwood with Retention	4199 - Other Mixed Upland Deciduous	Two-Aged	No

Prescription Specs: Shelterwood with retention. Residual BA of 30-40 sq ft, mainly red pine. Stand is on a good hardwood site. Convert the stand to hardwoods based on the regeneration following the harvest in 2004.

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

Acceptable Regen: Mixed upland deciduous with mixed red and white pine.

Other Comment: Stand is .5 acre goes with the sale to the north in C74.

Site Condition:

Proposed Start Date: 10/1 /2020

Stand	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
65	**42075065-Cut**	8.1	6117 - Lowland Deciduous, Mixed Coniferous	Poletimber Well	90	81-110	Harvest	Clearcut	6117 - Lowland Deciduous, Mixed Coniferous	Even-Aged	No

Prescription Specs: Harvest all species to a 2" spec. No retention due to small acreage and large cedar stand to the north.

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

Acceptable Regen: Species that are currently present in stand now.

Other Comment: Manage for regeneration and potential food source.

Site Condition: Unknown Access

Proposed Start Date: 10/1 /2022

Stand	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
66	42075066-Cut	19.6	6117 - Lowland Deciduous, Mixed Coniferous	Poletimber Well	90	81-110	Harvest	Clearcut with Retention	6117 - Lowland Deciduous, Mixed Coniferous	Even-Aged	No

Prescription Specs: Harvest all species to a 2" spec. Leave retention pocket on lower ground where more represented species are present.

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

Acceptable Regen: Species that are currently present in stand now.

Other Comment:

Site Condition: Unknown Access

Proposed Start Date: 10/1 /2022

Stand	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
68	42075068-Cut	16.9	42290 - Natural Mixed Pine	Sawtimber Medium	90	81-110	Harvest	Seed Tree with Retention	429 - Mixed Upland Conifers	Even-Aged	No

Prescription Specs: Residual BA should be no more than 30. Leaving red and white pine with large tops for retention and seed source and any hemlock and cedar. In addition, leave some mature maple for structural diversity. Sub-merchantable trees will be left to aid in wildlife travel.

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

Acceptable Regen: Species that are currently present in stand now.

Other Comment:

Site Condition: Unknown Access

Proposed Start Date: 10/1 /2022

Stand	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
69	42075069-Cut	38.3	6122 - Black Spruce	Sawtimber Well	95	81-110	Harvest	Clearcut with Retention	6122 - Black Spruce	Even-Aged	No

Prescription Specs: Harvest all species to a 2" spec. Leave all white pine over 22" DBH, cedar and hemlock. Hinge cuts into stand 53 for snowshoe hare via 3 groups, hinge cut groups are three (3) 8-12 inch spruce or fir trees hinge cut with tops overlapping.

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

Acceptable Regen: Species that are currently present in stand now.

Other Comment: Old winter roads in the area that can be used to access stands.

Site Condition: Unknown Access

Proposed Start Date: 10/1 /2022

Stand	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
71	42075071-Cut	38.0	429 - Mixed Upland Conifers	Sawtimber Well	108	81-110	Harvest	Shelterwood with Retention	429 - Mixed Upland Conifers	Two-Aged	No

Prescription Specs: Harvest all species to a 2" spec. Leave all white pine over 22" DBH, cedar, yellow birch, and hemlock. Residual BA should be more than 40. Leave a component of aspen or birch for future snags. 4 hinge cut groups into stand 75; hinge cut groups are three (3) 8-12 inch spruce or fir trees hinge cut with tops overlapping.

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

Acceptable Regen: Species that are currently present in stand now.

Other Comment:

Site Condition: Unknown Access

Proposed Start Date: 10/1 /2022

Stand	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
75	42075075-Cut	12.9	4191 - Mixed Upland Deciduous with Conifer	Sawtimber Well	80	81-110	Harvest	Clearcut with Retention	4199 - Other Mixed Upland Deciduous	Even-Aged	No

Prescription Specs: Harvest all species. Leave all white pine over 22" DBH, cedar and hemlock. In addition, leave a component of mature birch and/or aspen along the red line for future cavity trees.

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

Acceptable Regen: Species that are currently present in stand now.

Other Comment:

Site Condition: Unknown Access

Proposed Start Date: 10/1 /2022

Stand	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
76	42075076-Cut	223.1	6129 - Mixed Coniferous Lowland Forest	Sawtimber Well	95	81-110	Harvest	Clearcut with Retention	612 - Lowland Coniferous Forest	Even-Aged	No

Prescription Specs: Harvest all species to a 2" spec. Leave all white pine over 22" DBH. Cedar and hemlock retention should be placed in pockets where the BA is higher to allow for better regeneration of all species. Retention can also be placed in the lobes of the stand that stretch out into the other lowland types.

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

Acceptable Regen: Species that are currently present in stand now.

Other Comment: Difficult to access stand for treatment, the RR corridor would need to be crossed under permit of the RR company and new road would need to be constructed though stand. Quinn Creek flows adjacent and through portions of stand , flow BMP guidelines.

Site Condition: Blocked by Railroad

Proposed Start Date: 10/1 /2022

Stand	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
77	42075077-Cut	14.4	6132 - Mixed Lowland Forest with Cedar	Poletimber Well	90	81-110	Harvest	Clearcut with Retention	613 - Lowland Mixed Forest	Even-Aged	No

Prescription Specs: Harvest all species to a 2" spec. Leave all white pine over 22" DBH, cedar, and hemlock.

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

Acceptable Regen: Species that are currently present in stand now.

Other Comment:

Site Condition: Unknown Access

Proposed Start Date: 10/1 /2022

Stand	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
79	42075079-Cut	122.1	429 - Mixed Upland Conifers	Sawtimber Well	100	81-110	Harvest	Seed Tree with Retention	429 - Mixed Upland Conifers	Even-Aged	No

Prescription Specs: Residual BA should be no more than 20. Leave white pine over 22" DBH, cedar and hemlock to make up the 20 BA. Some other retention with aspen/birch may be placed in the lobes of the stand that stretch out into the other lowland types.

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

Acceptable Regen: Species that are currently present in stand now.

Other Comment:

Site Condition: Unknown Access

Proposed Start Date: 10/1 /2022

Stand	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
83	42075083-Cut	13.3	42290 - Natural Mixed Pine	Sawtimber Well	90	81-110	Harvest	Seed Tree with Retention	429 - Mixed Upland Conifers	Even-Aged	No

Prescription Specs: Residual BA should be no more than 30. Leaving red and white pine with large tops for retention and seed source and any cedar. In addition, leave some mature birch and/or aspen for wildlife and any hemlock.

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

Acceptable Regen: Species that are currently present in stand now.

Other Comment:

Site Condition: Unknown Access

Proposed Start Date: 10/1 /2022

Stand	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
85	42075085-Cut	12.0	4191 - Mixed Upland Deciduous with Conifer	Sawtimber Well	85	81-110	Harvest	Shelterwood with Retention	4199 - Other Mixed Upland Deciduous	Even-Aged	No

Prescription Specs: Residual BA should be no more than 40. Leaving red and white pine with large tops for retention and seed source and any cedar, hemlock, mature birch and/or aspen for wildlife in the boundary line.

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

Acceptable Regen: Species that are currently present in stand now.

Other Comment:

Site Condition: Unknown Access

Proposed Start Date: 10/1 /2022

Stand	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
88	42075088-Cut	8.9	4191 - Mixed Upland Deciduous with Conifer	Sawtimber Well	90	81-110	Harvest	Clearcut	4199 - Other Mixed Upland Deciduous	Even-Aged	No

Prescription Specs: Harvest all species to a 2" spec. No retention due to small acreage. Stand surrounded by MC, which will have retention left.

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

Acceptable Regen: Species that are currently present in stand now.

Other Comment:

Site Condition: Unknown Access

Proposed Start Date: 10/1 /2022

Stand	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
93	42075093-Cut	6.8	6122 - Black Spruce	Poletimber Well	90	51-80	Harvest	Clearcut with Retention	6122 - Black Spruce	Even-Aged	No

Prescription Specs: Harvest all species to a 2" spec. Leave all white pine over 22" DBH, cedar, and hemlock. Retention pockets in areas of the "low" spruce areas.

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

Acceptable Regen: Species that are currently present in stand now.

Other Comment:

Site Condition: Unknown Access

Proposed Start Date: 10/1 /2022

Stand	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
94	42075094-Cut	2.8	4115 - Y.Birch, Hemlock NH	Sawtimber Well	100	111-140	Harvest	Group Selection	411 - Northern Hardwood	Two-Aged	No

Prescription Specs: Mark to establish large regeneration gaps to promote regeneration. Residual BA should be 50-90 sq ft/acre.

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

Acceptable Regen: Species that are currently present in stand now.

Other Comment:

Site Condition: Blocked by Railroad

Proposed Start Date: 10/1 /2022

Stand	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
98	42075098-Cut	15.7	4191 - Mixed Upland Deciduous with Conifer	Sawtimber Well	85	81-110	Harvest	Shelterwood	4199 - Other Mixed Upland Deciduous	Even-Aged	No

Prescription Specs: Residual BA should be no more than 40. Mark cedar, hemlock, red, and white pine with large tops for retention and seed source.

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

Acceptable Regen: Species that are currently present in stand now.

Other Comment:

Site Condition: Unknown Access

Proposed Start Date: 10/1 /2022

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

Total Treatment Acreage Proposed: 908.5

Report 4 – Site Conditions

Newberry Mgt. Unit

Jennifer Burnham : Examiner

Compartment: 75

Year of Entry: 2023

Availability for Management

Total Acres	Acres Available	*Acres Avail With Condition*	Acres Not Available	Dominant Site Conditions	*2B*	*5C*	2G	2H	2J	3H	3J	3L	5D	5E
107	90	***17***	1	**Aspen**	***17***	***0***			0					1
869	270	***0***	598	**Cedar**	***0***		0			569	30			
13	12	***0***	1	**Exposed Rock**				1	0	0				
11	11	***0***	0	**Low-Density Trees**					0					
493	80	***71***	342	**Lowland Conifers**	***11***	***60***	87	0	216	6	3	26		3
191	63	***127***	1	**Lowland Deciduous**	***33***	***94***						0		1
228	0	***228***	0	**Lowland Mixed Forest**	***14***	***214***						0		
754	754	***0***	0	**Lowland Shrub**	***0***	***0***	0		0					
386	0	***215***	171	**Lowland Spruce/Fir**	***197***	***18***		20	17		134			0
19	19	***0***	0	**Marsh**										
205	121	***80***	3	**Mixed Upland Deciduous**	***80***						1	0		2
109	1	***108***	0	**Natural Mixed Pines**	***102***	***6***								
235	233	***0***	3	**Northern Hardwood**		***0***			3					
4	0	***4***	0	**Paper Birch**	***4***									
4	0	***4***	0	**Red Pine**	***4***									
202	15	***49***	138	**Tamarack**	***0***	***49***							138	
146	22	***0***	123	**Treed Bog**	***0***	***0***						0	123	
240	35	***167***	38	**Upland Conifers**	***167***	***0***	0	10				28		
21	6	***15***	0	**Upland Mixed Forest**		***15***								
4,238	1,733	***1,086***	1,419	Total Forested Acres	***630***	***456***	87	31	236	575	168	54	262	7
	41%	***26%***	33%	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**	415	2B: Unknown if access through adjacent landowner(s) is possible	Unspecified	Unspecified	Unspecified

Comments:

Wait 10 years to harvest. Access best through the NW and old logging roads that are in the correct places.

2	**Available**	**2B: Unknown if access through adjacent landowner(s) is possible**	188	Unspecified	Unspecified	Unspecified	Unspecified

Comments:

Old road worth fixing up from PVT to west for access. Potential access from FS, if we can make a new road through pine ridges to the east.

3	**Unavailable**	**2J: Blocked by Railroad**	216	2B: Unknown if access through adjacent landowner(s) is possible	Unspecified	Unspecified	Unspecified

Comments:

Access is going to be from the south over the RR tracks or from the north through PVT and with a bridge over the Quinn Creek.

4	**Available**	**2B: Unknown if access through adjacent landowner(s) is possible**	112	2I: Survey needed	Unspecified	Unspecified	Unspecified

Comments:

Old road worth fixing up from PVT to west for access. Potential access from FS, if we can make a new road through pine ridges to the east.

5	**Unavailable**	**2J: Blocked by Railroad**	17	5C: Delay treatment for age/size class diversity or exceptional site quality	Unspecified	Unspecified	Unspecified

Comments:

The southern part of the stand may have some area to harvest.

6	**Unavailable**	**3J: Water quality / BMPs (stream, river, or lake)**	8	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	Unspecified	Unspecified	Unspecified

Comments:

7	**Available**	**2B: Unknown if access through adjacent landowner(s) is possible**	393	2I: Survey needed	Unspecified	Unspecified	Unspecified

Comments:
Old road worth fixing up from PVT to west for access. Potential access from FS, if we can make a new road through pine ridges to the east.

8	**Unavailable**	**3J: Water quality / BMPs (stream, river, or lake)**	3	2G: Too wet (sensitive soils, does not include access issues)	Unspecified	Unspecified	Unspecified

Comments:
Drainage leading to Hendrie River.

9	**Unavailable**	**5E: Long-Term Retention**	1	Unspecified	Unspecified	Unspecified	Unspecified

Comments:
Old road worth fixing up from PVT to west for access. Potential access from FS, if we can make a new road through pine ridges to the east.

10	**Unavailable**	**5E: Long-Term Retention**	1	Unspecified	Unspecified	Unspecified	Unspecified

Comments:
Retention for stand 49.

11	**Unavailable**	**5E: Long-Term Retention**	2	2B: Unknown if access through adjacent landowner(s) is possible	Unspecified	Unspecified	Unspecified

Comments:
Old road worth fixing up from PVT to west for access. Potential access from FS, if we can make a new road through pine ridges to the east.

12	**Unavailable**	**5E: Long-Term Retention**	1	2B: Unknown if access through adjacent landowner(s) is possible	Unspecified	Unspecified	Unspecified

Comments:
Old road worth fixing up from PVT to west for access. Potential access from FS, if we can make a new road through pine ridges to the east.

13	**Unavailable**	**3L: Other wildlife concerns**	54	Unspecified	Unspecified	Unspecified	Unspecified

Comments:
Wildlife travel corridor per recommendation from biologist in pre-review 2021. Corridor will have to be crossed with temporary road upon timber sale.

14	**Unavailable**	**3L: Other wildlife concerns**	19	Unspecified	Unspecified	Unspecified	Unspecified

Comments:
Per pre-review in 2021, stand will not be harvested to provide a wildlife corridor.

24	**Unavailable**	**3J: Water quality / BMPs (stream, river, or lake)**	30	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	Unspecified	Unspecified	Unspecified

Comments:

27	**Unavailable**	**3H: Deer Wintering Area - habitat is incompatible with harvest at this time**	569	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	Unspecified	Unspecified	Unspecified

Comments:
Obligate deer yard.

29	**Unavailable**	**5D: Unproductive Forest Land**	138	Unspecified	Unspecified	Unspecified	Unspecified

Comments:

31	**Available**	**5C: Delay treatment for age/size class diversity or exceptional site quality**	5	Unspecified	Unspecified	Unspecified	Unspecified

Comments:
May need 20 more years before harvesting.

32	**Unavailable**	**2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)**	10	Unspecified	Unspecified	Unspecified	Unspecified
	Comments:						
33	**Unavailable**	**5E: Long-Term Retention**	3	3J: Water quality / BMPs (stream, river, or lake)	Unspecified	Unspecified	Unspecified
	Comments:						
35	**Available**	**5C: Delay treatment for age/size class diversity or exceptional site quality**	24	Unspecified	Unspecified	Unspecified	Unspecified
	Comments:						
36	**Unavailable**	**2J: Blocked by Railroad**	4	Unspecified	Unspecified	Unspecified	Unspecified
	Comments:						
37	**Unavailable**	**2G: Too wet (sensitive soils, does not include access issues)**	69	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	Unspecified	Unspecified	Unspecified
	Comments:						
39	**Unavailable**	**3H: Deer Wintering Area - habitat is incompatible with harvest at this time**	6	Unspecified	Unspecified	Unspecified	Unspecified
	Comments:						

40	**Unavailable**	**2G: Too wet (sensitive soils, does not include access issues)**	18	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	Unspecified	Unspecified	Unspecified
	Comments:						
41	**Available**	**5C: Delay treatment for age/size class diversity or exceptional site quality**	12	Unspecified	Unspecified	Unspecified	Unspecified
	Comments: This area may need 20 years before harvesting.						
42	**Unavailable**	**2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)**	14	Unspecified	Unspecified	Unspecified	Unspecified
	Comments:						
44	**Unavailable**	**2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)**	6	3J: Water quality / BMPs (stream, river, or lake)	Unspecified	Unspecified	Unspecified
	Comments:						
46	**Unavailable**	**5D: Unproductive Forest Land**	62	Unspecified	Unspecified	Unspecified	Unspecified
	Comments:						
48	**Unavailable**	**3J: Water quality / BMPs (stream, river, or lake)**	128	Unspecified	Unspecified	Unspecified	Unspecified
	Comments: Hendrie River Corridor						

49	**Unavailable**	**5D: Unproductive Forest Land**	61	Unspecified	Unspecified	Unspecified	Unspecified

Comments:

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

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

SCA Name	SCA Category	Detail Type	Recommendation	Acres

Comments

Report 6 – EXISTING SPECIAL CONSERVATION AREA DETAILS

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

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

Conservation Area	Type	Description
SCA	Cold Water Stream	A coldwater stream has temperature and dissolved oxygen conditions that allow naturally-reproduced or stocked trout populations and those of other coldwater fish species (e.g., slimy sculpin) to persist from year to year. Coldwater streams in Michigan typically provide these conditions due to substantial contributions of groundwater to their stream flows. Such streams are established by Director's action and designated as trout resources by Fisheries Order 210.
SCA	Habitat Area	An area that provide some specific need for the life cycle of wildlife species, including State Wildlife Areas and Waterfowl Production Areas, deer wintering complexes in lowland conifer communities, grassland openings and savannas. Habitat areas are distinct from critical habitat designated for recovery of endangered or threatened species (such as Kirtland's warbler or piping plover areas) in that they are more general in nature, are not primarily associated with threatened or endangered species, and are not covered by species recovery plans that are developed in cooperation with Federal agencies.
SCA	Riparian Area	A transitional area between aquatic and terrestrial ecosystems in which the terrestrial ecosystem influences the aquatic ecosystem and vice-versa. Because of the unique conditions adjacent to lakes, streams and open water wetlands, riparian areas harbor a high diversity of plants and wildlife. Riparian communities are ecologically and socially significant in their effects on water quality and quantity, as well as aesthetics, habitat, bank stability, timber production, and their contribution to overall biodiversity.

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
1	6129 - Mixed Coniferous Lowland Forest	Poletimber Poor	6.2	103	1-50	N/A	Not a lot of volume in stand to make it worth accessing. Species besides cedar will have started to die out of the stand since 2011. 03/15/2011Stand is a mix of lowland conifers species and some birch and balsam seedlings/saplings. Stand was affected by spruce budworm approx. 15 years ago. Some overstory spruce is still alive. Some areas regenerated to spruce, tamarack, b.fir and birch. Stand is remote and difficult to access.

Canopy Species	% Cover	Size Class	DBH	Age
Paper Birch	10	Pole/Log	9	
Black Spruce	25	Pole/Sapling	8	
Northern White Cedar	25	Pole/Sapling	8	
Tamarack	40	Pole/Sap/Log	9	103

Sub-Canopy Species	Density	Avg. Height	Size
Paper Birch	Low	10 - 20 feet	Sapling
Balsam Fir	Low	5 - 10 feet	Sapling
Black Spruce	Low	10 - 20 feet	Sapling
Northern White Cedar	Low	10 - 20 feet	Sapling
Tamarack	Low	>20 feet	Sapling
Tag Alder	Medium	5 - 10 feet	Tall Shrub

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
2	6220 - Alder/willow	Nonstocked	220.7		Unspecified	No	There are scattered islands of trees throughout. These are subtile ridges interspersed amongst lowlands. Area is remote with little access. Spruce out here was impacted by spruce budworm approx. 15 years ago. Still live spruce out here by dead trees/snags still present.

Sub-Canopy Species	Density	Avg. Height	Size
White Pine	Trace		Log
Quaking Aspen	Trace		Pole
Cattail spp.	Medium		Non-Woody
Northern White Cedar	Low		Seeding
Black Spruce	Low		Pole
Willow spp.	Low		Tall Shrub
Willow spp.	Low		Tall Shrub
Willow spp.	Low		Tall Shrub
Tamarack	Low		Sapling
Paper Birch	Low		Sapling
Tag Alder	High		Tall Shrub

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
3	6122 - Black Spruce	Poletimber Medium	7.8	100	1-50	N/A	Difficult access and the split of Hendrie and the South Branch of the Hendrie River through the SW part of the stand. 03/15/2011Stand is a mix of lowland conifers species and some birch and balsam seedlings/saplings. Stand was affected by spruce budworm approx. 15 years ago. Some overstory spruce is still alive. Some areas regenerated to spruce, tamarack, b.fir and birch. Stand is remote and difficult to access.

Canopy Species	% Cover	Size Class	DBH	Age
Paper Birch	5	Pole/Log	10	
Black Spruce	60	Pole/Sapling	8	100
Tamarack	25	Pole/Log/Sap	10	
White Pine	10	Log	16	

Sub-Canopy Species	Density	Avg. Height	Size
Balsam Fir	Low	5 - 10 feet	Sapling
Black Spruce	Low	10 - 20 feet	Sapling
Tamarack	Low	10 - 20 feet	Sapling
Tag Alder	Medium	5 - 10 feet	Tall Shrub

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
4	6120 - Lowland Cedar	Poletimber Well	568.6	110	81-110	N/A	Mixed stand with areas pocketed with okay wood. The edges of the stand are better than the center.

Canopy Species	% Cover	Size Class	DBH	Age
Red Maple	3	Pole/Sapling	7	
Paper Birch	5	Pole	6	
Balsam Fir	2	Sapling/Pole	5	
Black Spruce	15	Pole/Sapling	7	
Northern White Cedar	50	Pole/Sap/Log	8	110
Tamarack	20	Pole/Log/Sap	9	
White Pine	3	Log/Pole	14	
Hemlock	2	Pole/Log	10	

Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	Low	10 - 20 feet	Sapling
Paper Birch	Low	10 - 20 feet	Sapling
Balsam Fir	Medium	5 - 10 feet	Sapling
Black Spruce	Medium	>20 feet	Sapling
Northern White Cedar	Low	10 - 20 feet	Sapling
Tamarack	Medium	>20 feet	Sapling
Black Ash	Low	10 - 20 feet	Sapling
Tag Alder	Medium	< 5 feet	Tall Shrub

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
5	6229 - Mixed lowland shrub	Nonstocked	160.6		Unspecified	No	

Sub-Canopy Species	Density	Avg. Height	Size
Balsam Fir	Low		Sapling
Tamarack	Low		Sapling
Paper Birch	Low		Sapling
Black Spruce	Low		Pole
Northern White Cedar	Low		Seeding
Red Maple	Low		Sapling

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
6	6224 - Treed Bog	Nonstocked	18.6		Unspecified	No	

Sub-Canopy Species	Density	Avg. Height	Size
Northern White Cedar	Low		Seeding
Tamarack	Low		Sapling
Black Spruce	Medium		Sapling

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
7	6122 - Black Spruce	Poletimber Medium	5.6	103	1-50	N/A	Very wet stand. Poor access and low quality. Tamarack dying.

Canopy Species	% Cover	Size Class	DBH	Age
Quaking Aspen	2	Log	12	
Black Spruce	60	Pole/Sapling	8	103
Tamarack	38	Pole/Log	10	

Sub-Canopy Species	Density	Avg. Height	Size
Black Spruce	Medium	>20 feet	Sapling
Northern White Cedar	Low	10 - 20 feet	Sapling
Tamarack	Low	>20 feet	Sapling
Tag Alder	Low	< 5 feet	Tall Shrub
Labrador Tea	Medium	< 5 feet	Tall Shrub

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
8	6121 - Tamarack	Poletimber Poor	48.7	70	1-50	N/A	Very wet ground. Tamarack is not healthy.

Canopy Species	% Cover	Size Class	DBH	Age
Red Maple	10	Sapling	2	
Paper Birch	5	Sapling	1	
Balsam Fir	15	Sapling	2	
Black Spruce	20	Pole/Sapling	6	
Tamarack	50	Pole/Sap/Log	8	70

Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	Low	10 - 20 feet	Sapling
Yellow Birch	Low	5 - 10 feet	Sapling
Paper Birch	Low	5 - 10 feet	Sapling
Balsam Fir	Medium	5 - 10 feet	Sapling
Black Spruce	Medium	5 - 10 feet	Sapling
Tamarack	Medium	10 - 20 feet	Sapling
Black Ash	Low	10 - 20 feet	Sapling
Tag Alder	High	5 - 10 feet	Tall Shrub

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
9	6131 - Hemlock, White Pine, Maple, Birch	Poletimber Well	213.5	60	51-80	N/A	Understory has filled in a bit more from 10 years ago. 02/22/2011- Stand has been logged in the past ~40 years ago. Old logging roads still evident.

Canopy Species	% Cover	Size Class	DBH	Age
Red Maple	30	Log/Pole	10	60
Yellow Birch	10	Pole/Log	9	
Paper Birch	5	Pole	8	
Balsam Fir	5	Pole	6	
Black Spruce	10	Pole	7	
Northern White Cedar	15	Pole	8	
White Pine	10	Log/XLog	18	
Hemlock	15	Log/Pole	14	60

Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	Low	5 - 10 feet	Sapling
Yellow Birch	Low	5 - 10 feet	Sapling
Paper Birch	Low	5 - 10 feet	Sapling
Balsam Fir	Medium	10 - 20 feet	Sapling
Black Spruce	Low	5 - 10 feet	Sapling
White Pine	Low	10 - 20 feet	Sapling
Hemlock	Low	>20 feet	Pole
Black Ash	Low	5 - 10 feet	Sapling

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
10	6124 - Lowland Spruce-Fir	Poletimber Well	26.2	45	51-80	N/A	Higher water level on the north has kept the regeneration for coming in as well as the south part of the stand.

Canopy Species	% Cover	Size Class	DBH	Age
Red Maple	5	Sapling	3	
Paper Birch	5	Sapling/Pole	5	
Balsam Fir	15	Sapling	4	
Black Spruce	35	Pole/Sapling	5	45
Northern White Cedar	15	Sapling/Pole	7	
Tamarack	20	Pole	9	45
White Pine	5	Pole/Log	12	

Sub-Canopy Species	Density	Avg. Height	Size
Paper Birch	Low	10 - 20 feet	Sapling
Balsam Fir	Medium	5 - 10 feet	Sapling
Black Spruce	Low	10 - 20 feet	Sapling
Northern White Cedar	Medium	5 - 10 feet	Sapling
Tamarack	Medium	>20 feet	Sapling
Tag Alder	Medium	< 5 feet	Tall Shrub
Labrador Tea	Low	< 5 feet	Tall Shrub

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
11	6122 - Black Spruce	Poletimber Medium	14.2	105	51-80	N/A	Series of small knobs similar to the stand continue south. Wet and very poor access. 03/15/2011- Stand is mostly a mix of black spruce and tamarack. The south end of stand is dense pocket of decent timber quality. The north end of stand is more lowland with mostly tamarack scattered amongst tag alder. Stand is an island of timber amongst lowlands, remote and difficult to access.

Canopy Species	% Cover	Size Class	DBH	Age
Black Spruce	60	Pole	8	105
Tamarack	40	Pole/Log	10	

Sub-Canopy Species	Density	Avg. Height	Size
Black Spruce	Medium	>20 feet	Sapling
Tamarack	Low	>20 feet	Sapling
Tag Alder	Medium	5 - 10 feet	Tall Shrub

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
12	6129 - Mixed Coniferous Lowland Forest	Poletimber Well	27.5	46	1-50	N/A	More area becoming pole size. 02/22/2011- Stand was treated in the past. It is a mix of lowland conifers/hardwood. Stand occurs along a small ridge and low ground. Regeneration is mostly lowland conifers, balsam fir, spruce, tamarack, paper brich and red maple. Tag alder present in places. Large white pine scattered in the overstory with some pole sized cedar, birch, red maple and spruce.

Canopy Species	% Cover	Size Class	DBH	Age
Red Maple	5	Sapling/Pole	5	
Paper Birch	5	Sapling/Pole	4	
Quaking Aspen	5	Pole/Sapling	5	
Balsam Fir	15	Sapling	4	
Black Spruce	25	Pole/Sapling	5	46
Northern White Cedar	10	Pole	8	
Tamarack	10	Sapling/Pole	4	
White Pine	20	Log/XLog	18	100
Hemlock	5	Log/Pole	10	

Sub-Canopy Species	Density	Avg. Height	Size
Balsam Fir	Low	10 - 20 feet	Sapling
Black Spruce	Low	10 - 20 feet	Sapling
Northern White Cedar	Low	10 - 20 feet	Pole
Tag Alder	Low	< 5 feet	Tall Shrub
Labrador Tea	Low	< 5 feet	Tall Shrub

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
13	6119 - Mixed Lowland Deciduous Forest	Sapling Well	33.2	5	81-110	N/A	Harvested under Mosquito Haven 42-016-014, TCR 2020. Harvest produced good diversity and regeneration. Larger deciduous species along the edge of the stand and a couple scattered around the stand.

Canopy Species	% Cover	Size Class	DBH	Age
Red Maple	45	Sapling	1	5
Yellow Birch	5	Sapling	1	
Paper Birch	5	Sapling	1	
Quaking Aspen	15	Sapling	1	
Balsam Poplar	15	Sapling	1	
Northern White Cedar	2	Pole/Log	9	
White Pine	5	Log/XLog	18	100
Hemlock	2	Log	16	
Black Ash	6	Sapling	1	

Sub-Canopy Species	Density	Avg. Height	Size
Balsam Fir	Low	5 - 10 feet	Sapling
Black Spruce	Low	10 - 20 feet	Sapling
Tag Alder	Low	5 - 10 feet	Tall Shrub
Elderberry	Low	5 - 10 feet	Tall Shrub
Hazelnut (American)	Low	5 - 10 feet	Tall Shrub

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
14	429 - Mixed Upland Conifers	Poletimber Well	10.0	105	51-80	N/A	03/15/2011- Stand is a subtile rise in topography surrounded by lowlands. There are sawlog sized W. pine in the center of this stand, spruce, tamarack, birch on the fringes. Jack pine on the north end. Stand is and island amongst lowlands, it is remote and difficult to access.

Canopy Species	% Cover	Size Class	DBH	Age
Paper Birch	5	Pole/Sapling	8	
Black Spruce	30	Pole	8	105
Tamarack	20	Pole/Log	10	
White Pine	28	Log/XLog	18	
Red Pine	2	Log/XLog	18	
Jack Pine	15	Pole/Log	10	

Sub-Canopy Species	Density	Avg. Height	Size
Tag Alder	Medium	5 - 10 feet	Tall Shrub

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
15	6224 - Treed Bog	Nonstocked	2.0		Unspecified	No	Some mortality due to high water.

Sub-Canopy Species	Density	Avg. Height	Size
White Pine	Low		Seeding
Black Spruce	Low		Seeding
Cattail spp.	Low		Non-Woody
Northern White Cedar	Low		Seeding

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
16	6129 - Mixed Coniferous Lowland Forest	Sawtimber Poor	68.7	100	51-80	N/A	(2013) Lowland stand. Trees are scattered. Small islands of timber scattered throughout stand. Varying degrees of subcanopy species. Some spruce in stand was impacted by spruce budworm approx. 15 years ago; trees died and regen of spruce, tamarack, b.fir, maple, p.birch coming back. Plenty of tag alder throughout in subcanopy, difficult stand to access and even more difficult to get around once you are here.

Canopy Species	% Cover	Size Class	DBH	Age
Black Spruce	20	Pole/Sapling	6	
Northern White Cedar	25	Pole/Sapling	8	
Tamarack	45	Log/Pole/Sap	10	100
White Pine	10	Log	16	

Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	Low	10 - 20 feet	Sapling
Balsam Fir	Low	5 - 10 feet	Sapling
Black Spruce	Low	10 - 20 feet	Sapling
Northern White Cedar	Low	10 - 20 feet	Sapling
Tamarack	Low	Variable	Sapling
Tag Alder	High	5 - 10 feet	Tall Shrub

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
17	6117 - Lowland Deciduous, Mixed Coniferous	Poletimber Well	94.3	70	81-110	N/A	Lower end of the BA.

Canopy Species	% Cover	Size Class	DBH	Age
Sugar Maple	10	Pole/Sap/Log	8	
American Elm	2	Pole/Sapling	6	
Red Maple	45	Pole/Log/Sap	9	70
Yellow Birch	10	Pole/Log/Sap	10	
Beech	2	Log	16	
Paper Birch	5	Pole/Log	10	
Balsam Fir	5	Pole/Sapling	5	
Black Spruce	3	Log/Pole	10	
Northern White Cedar	5	Log/Pole	10	
White Pine	5	Log/XLog	18	
Hemlock	5	Log/Pole	10	

Sub-Canopy Species	Density	Avg. Height	Size
Sugar Maple	Medium	10 - 20 feet	Sapling
Red Maple	Low	10 - 20 feet	Sapling
Yellow Birch	Low	5 - 10 feet	Sapling
Balsam Fir	Medium	5 - 10 feet	Sapling
Black Spruce	Low	5 - 10 feet	Sapling
Tag Alder	Low	< 5 feet	Tall Shrub
Hazelnut (American)	Low	< 5 feet	Tall Shrub

(2013) Stand has been treated in the past ~40 years ago. Old logging roads still evident. Stand is mostly hardwood but in a lowland site that can hold up water.

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
18	4191 - Mixed Upland Deciduous with Conifer	Sapling Well	63.4	5	1-50	N/A	Harvested under Mosquito Haven 42-016-014, TCR 2020. Harvest produced good diversity and regeneration. Larger deciduous species along the edge of the stand and a couple scattered around the stand.(2013) Stand is quite diverse with species. The soil types and terrain vary with depressions, swales and some intermittent drainages mixed with small ridges. The low depressions/drainages are lowland conifer types with hardwood/aspen overtopping and the ridges have WP overtopping hemlock, red maple, yellow birch and aspen. The timber varies with this topography making areas too small to map separately. Most timber is mature and larger diameter.

Canopy Species	% Cover	Size Class	DBH	Age
Red Maple	30	Sapling	1	5
Yellow Birch	5	Sapling	1	
Beech	20	Sapling	1	
Bigtooth Aspen	20	Sapling	1	
Northern White Cedar	5	Log/Pole	10	
White Pine	5	XLog/Log	18	
Hemlock	10	Log	16	100

Sub-Canopy Species	Density	Avg. Height	Size
Balsam Fir	Low	10 - 20 feet	Sapling
Black Spruce	Low	5 - 10 feet	Sapling

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
19	4191 - Mixed Upland Deciduous with Conifer	Sapling Well	24.0	40	1-50	N/A	Harvested in the past.

Canopy Species	% Cover	Size Class	DBH	Age
Red Maple	30	Sapling	3	
Paper Birch	5	Sapling	3	
Quaking Aspen	3	Sapling/Pole	4	
Balsam Fir	10	Sapling	2	
Black Spruce	10	Sapling	2	
White Pine	10	Pole/Log	9	
Hemlock	2	Sapling/Pole	4	
Pin Cherry	30	Sapling	3	40

Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	Medium	10 - 20 feet	Sapling
Paper Birch	Low	5 - 10 feet	Sapling
Balsam Fir	Medium	10 - 20 feet	Sapling
Black Spruce	Low	< 5 feet	Sapling
White Pine	Low	10 - 20 feet	Sapling
Hemlock	Low	5 - 10 feet	Sapling
Black Raspberry	Low	Variable	Tall Shrub
Pin Cherry	Medium	10 - 20 feet	Sapling
Hazelnut (American)	Low	< 5 feet	Tall Shrub

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
20	6122 - Black Spruce	Sawtimber Poor	126.6	80	51-80	N/A	Stand flanks the Hendrie River. Tag alder/lowland brush throughout.

Canopy Species	% Cover	Size Class	DBH	Age
Red Maple	10	Pole/Log/Sap	10	
Paper Birch	10	Log/Pole	10	
Black Spruce	50	Log/Pole	12	80
Northern White Cedar	10	Pole/Log	9	
Tamarack	10	Pole/Log/Sap	10	
White Pine	10	Log/XLog	18	

Sub-Canopy Species	Density	Avg. Height	Size
Paper Birch	Low	10 - 20 feet	Sapling
Balsam Fir	Low	5 - 10 feet	Sapling
Black Spruce	Low	10 - 20 feet	Sapling
Tamarack	Low	10 - 20 feet	Sapling
Tag Alder	Full	10 - 20 feet	Tall Shrub

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
21	42390 - Mixed Non-Pine Upland Conifers	Sapling Well	30.5	40	1-50	N/A	Stand was treated in the early 80's, mostly final harvested then. It regenerated to a mix of conifers with some hardwood speces. Thick balsam fir in many places. Stand falls on irregular terrain which is mostly upland but has some low/wet areas.

Canopy Species	% Cover	Size Class	DBH	Age
Red Maple	10	Sapling/Pole	4	
Paper Birch	5	Sapling	3	
Balsam Fir	35	Sapling	2	40
Black Spruce	15	Sapling/Pole	3	
Northern White Cedar	10	Sapling/Pole	6	
White Pine	15	Sapling/Pole	6	
Hemlock	5	Sapling/Pole	5	
Pin Cherry	5	Sapling	3	

Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	Medium	10 - 20 feet	Sapling
Paper Birch	Low	10 - 20 feet	Sapling
Balsam Fir	High	10 - 20 feet	Sapling
Black Spruce	Medium	10 - 20 feet	Sapling
White Pine	Low	10 - 20 feet	Sapling
Hemlock	Low	10 - 20 feet	Sapling
Tag Alder	Low	5 - 10 feet	Tall Shrub
Pin Cherry	Low	10 - 20 feet	Sapling

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
22	4319 - Mixed Upland Forest	Sapling Well	6.1	40	1-50	N/A	Some trees are moving into pole size. (2013) Stand was cut in the early 80's. Some residual trees were left from the cutting, they are in the overstory. Stand is sapling sized for the most part just coming into pole size. Parts of stand look like it was more open but is now filling in with trees.

Canopy Species	% Cover	Size Class	DBH	Age
Red Maple	20	Sapling/Pole	4	
Paper Birch	5	Sapling/Pole	4	
Balsam Fir	15	Sapling	3	
White Spruce	15	Pole/Sap/Log	9	
White Pine	20	Sapling/Pole	6	
Pin Cherry	25	Sapling/Pole	4	40

Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	Low	5 - 10 feet	Sapling
Balsam Fir	Medium	< 5 feet	Sapling
White Spruce	Medium	< 5 feet	Sapling
White Pine	Low	5 - 10 feet	Sapling
Pin Cherry	Low	5 - 10 feet	Sapling
Hazelnut (American)	Low	5 - 10 feet	Tall Shrub

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
23	6124 - Lowland Spruce-Fir	Sapling Well	53.8	45	Unspecified	N/A	Old roads through the area still present. (2013) Stand was harvested in the past ~35 years ago. Some residual WP, spruce, hemlock, cedar left from cutting but it was mostly final harvested. Thick stand of lowland conifers for the most part. Tag alder present in pockets throughout stand.

Canopy Species	% Cover	Size Class	DBH	Age
Red Maple	10	Sapling	2	
Yellow Birch	5	Sapling	2	
Paper Birch	5	Sapling	2	
Balsam Fir	30	Sapling	3	45
Black Spruce	25	Sapling/Pole	4	
Northern White Cedar	15	Pole	6	
White Pine	5	XLog/Log	18	
Hemlock	5	Log/Pole	10	

Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	Low	10 - 20 feet	Sapling
Yellow Birch	Low	10 - 20 feet	Sapling
Balsam Fir	High	5 - 10 feet	Sapling
Black Spruce	Medium	10 - 20 feet	Sapling
Northern White Cedar	Low	10 - 20 feet	Pole
Hemlock	Low	10 - 20 feet	Sapling
Tag Alder	Medium	5 - 10 feet	Tall Shrub
Hazelnut (American)	Low	5 - 10 feet	Tall Shrub

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
24	4112 - Maple, Beech, Cherry Association	Sawtimber Well	6.0	90	51-80	N/A	Harvested under Mosquito Haven 42-016-014, TCR 2020.

Canopy Species	% Cover	Size Class	DBH	Age
Sugar Maple	30	Log/Pole/Sap	10	5
Red Maple	55	Log/Pole/Sap	10	90
Yellow Birch	5	Log/Pole	10	
White Pine	5	XLog/Log/Pole	18	
Hemlock	5	Log	14	

Sub-Canopy Species	Density	Avg. Height	Size
Sugar Maple	Medium	10 - 20 feet	Sapling
Red Maple	Medium	10 - 20 feet	Sapling
Beech	Medium	5 - 10 feet	Sapling
Balsam Fir	Low	10 - 20 feet	Sapling
White Spruce	Low	5 - 10 feet	Sapling

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
25	4119 - Mixed Northern Hardwoods	Sapling Well	4.0	38	1-50	N/A	Stand was treated in the early 80's. Some scattered pole sized maple in the canopy left over from cut.

Canopy Species	% Cover	Size Class	DBH	Age
Sugar Maple	15	Sapling	2	
Red Maple	35	Sapling	3	38
Yellow Birch	10	Sapling/Pole	4	
Paper Birch	10	Sapling/Pole	5	
Bigtooth Aspen	10	Pole/Sapling	5	
Pin Cherry	5	Sapling/Pole	4	
Balsam Fir	5	Sapling	1	
White Pine	5	Pole/Sapling	6	
White Spruce	5	Sapling	2	

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
26	4112 - Maple, Beech, Cherry Association	Sawtimber Well	83.0	90	51-80	N/A	Harvested under Mosquito Haven 42-016-014, TCR 2020. Harvest produced good diversity and regeneration. (2013) This hardwood stand is diverse with tree species and sizes. Stand is mature. South end of stand is more red maple poles with thick balsam fir understory. Balsam fir is in the understory throughout stand and ranges from thick to thin. Occasional aspen in stand. White pine in stand is large diametered for the most part.

Canopy Species	% Cover	Size Class	DBH	Age
Sugar Maple	15	Log/XLog	14	
Red Maple	75	Log/Pole	10	90
White Pine	5	Log/XLog	18	
Hemlock	5	Log/XLog	18	

Sub-Canopy Species	Density	Avg. Height	Size
Sugar Maple	Low	10 - 20 feet	Sapling
Red Maple	High	10 - 20 feet	Sapling
Yellow Birch	Low	10 - 20 feet	Sapling
Beech	Medium	10 - 20 feet	Sapling
Balsam Fir	Low	10 - 20 feet	Sapling
White Spruce	Low	5 - 10 feet	Sapling
White Pine	Low	10 - 20 feet	Sapling
Bigtooth Aspen	High	10 - 20 feet	Sapling

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
27	6128 - Lowland Coniferous, Mixed Deciduous	Sawtimber Well	18.0	106	51-80	N/A	Drains surrounding the stand. It would be difficult to harvest with out a good winter. If treating stand 51, there might be some areas that could get harvested.

Canopy Species	% Cover	Size Class	DBH	Age
Red Maple	15	Log/Pole	10	
Paper Birch	5	Pole/Log/Sap	10	
Black Spruce	15	Sapling/Pole	7	
Northern White Cedar	10	Pole/Sapling	7	
Tamarack	25	Pole/Log/Sap	10	
White Pine	25	XLog/Log	18	106
Hemlock	5	Log/XLog	18	

Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	Low	5 - 10 feet	Sapling
Balsam Fir	Medium	10 - 20 feet	Sapling
Black Spruce	Low	10 - 20 feet	Sapling
Northern White Cedar	Low	10 - 20 feet	Pole
Tamarack	Medium	10 - 20 feet	Sapling
Tag Alder	High	< 5 feet	Tall Shrub

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
28	6117 - Lowland Deciduous, Mixed Coniferous	Sapling Well	21.6	5	1-50	N/A	Harvested under Mosquito Haven 42-016-014, TCR 2020. Harvest produced good diversity and regeneration. Larger deciduous species along the edge of the stand and a couple scattered around the stand.

Canopy Species	% Cover	Size Class	DBH	Age
Red Maple	40	Sapling	1	5
Yellow Birch	5	Log/Pole/Sap	10	
Paper Birch	5	Pole/Log	10	
Quaking Aspen	30	Sapling	1	
Northern White Cedar	10	Pole	8	
White Pine	5	XLog/Log	18	100
Hemlock	5	Log	14	

Sub-Canopy Species	Density	Avg. Height	Size
Balsam Fir	Low	10 - 20 feet	Sapling
Black Spruce	Low	5 - 10 feet	Sapling
Tag Alder	Low	5 - 10 feet	Tall Shrub

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
29	4319 - Mixed Upland Forest	Sawtimber Well	15.3	90	81-110	N/A	Stand holding well, will need to be harvested when treating other stands in the area. (2013) Stand was treated in the past, looks like it would have been a shelterwood. Larger red maple and white pine in the overstory. Heavy balsam fir understory. Stand mostly occurs along an upland ridge.

Canopy Species	% Cover	Size Class	DBH	Age
Red Maple	40	Log/Pole	14	90
Yellow Birch	5	Log	14	
Paper Birch	5	Pole	9	
Balsam Fir	5	Pole/Sapling	5	
Black Spruce	10	Pole/Log	10	
Northern White Cedar	5	Pole/Log	10	
White Pine	20	Log/XLog	18	
Hemlock	10	Log	16	

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

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
30	4116 - Mixed N. Hardwood - Aspen	Sapling Well	28.3	5	1-50	N/A	Harvested under Mosquito Haven 42-016-014, TCR 2020. Harvest produced good diversity and regeneration. (2013) The nothern edge of stand along compartment begins to go up onto more of an upland hardwood site,

Canopy Species	% Cover	Size Class	DBH	Age
Sugar Maple	10	Sapling	1	
Red Maple	40	Sapling	1	5
Paper Birch	5	Sapling	1	
Bigtooth Aspen	20	Sapling	1	
White Pine	5	XLog/Log	18	85
Hemlock	5	Log	10	
Beech	15	Sapling	1	

Sub-Canopy Species	Density	Avg. Height	Size
Sugar Maple	Low	10 - 20 feet	Sapling
Red Maple	Medium	10 - 20 feet	Sapling
Beech	Low	5 - 10 feet	Sapling
Balsam Fir	Low	< 5 feet	Sapling
White Pine	Low	5 - 10 feet	Sapling
White Spruce	Low	< 5 feet	Sapling

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
31	4191 - Mixed Upland Deciduous with Conifer	Sapling Well	33.3	5	1-50	N/A	50/50 mix of upland and lowland. Dry in 2021 when doing inventory. Regeneration is looking good. (2013) Stand is diverse with species and terrain. Stand is mostly lowland conifer dominating. There are some upland areas in the stand that are too small to map out.

Canopy Species	% Cover	Size Class	DBH	Age
Red Maple	35	Sapling	1	5
Yellow Birch	5	Sapling	1	
Paper Birch	5	Sapling	1	
Quaking Aspen	20	Sapling	1	
Balsam Fir	10	Sapling	1	
Black Spruce	10	Sapling	1	5
Northern White Cedar	5	Pole	8	
White Pine	8	XLog/Log	18	

Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	Low	10 - 20 feet	Sapling
Yellow Birch	Low	5 - 10 feet	Sapling
Balsam Fir	Medium	5 - 10 feet	Sapling
Black Spruce	Low	5 - 10 feet	Sapling
Tag Alder	Trace	5 - 10 feet	Tall Shrub
Labrador Tea	Low	< 5 feet	Tall Shrub

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
32	4119 - Mixed Northern Hardwoods	Sapling Well	9.3	39	1-50	N/A	Stand was cut in the early 80's. Sapling sized with some trees getting close to pole size.

Canopy Species	% Cover	Size Class	DBH	Age
Red Maple	60	Sapling	3	39
Yellow Birch	5	Sapling	3	
Paper Birch	5	Sapling	3	
Quaking Aspen	3	Sapling/Pole	5	
Balsam Fir	5	Sapling	3	
White Spruce	2	Sapling	2	
Black Cherry	5	Sapling/Pole	5	
Pin Cherry	15	Sapling	4	

Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	High	10 - 20 feet	Sapling
Yellow Birch	Low	10 - 20 feet	Sapling
Paper Birch	Low	10 - 20 feet	Sapling
Balsam Fir	Low	< 5 feet	Sapling
Tag Alder	Low	5 - 10 feet	Tall Shrub
Pin Cherry	Low	10 - 20 feet	Sapling

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
33	6229 - Mixed lowland shrub	Nonstocked	300.5		Unspecified	No	

Sub-Canopy Species	Density	Avg. Height	Size
Northern White Cedar	Low		Sapling
Leatherleaf	Medium		Tall Shrub
Willow spp.	Medium		Tall Shrub
Tag Alder	Medium		Tall Shrub
Black Spruce	Low		Pole
Tamarack	Low		Sapling
Cattail spp.	Medium		Non-Wood

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
34	6120 - Lowland Cedar	Poletimber Well	72.5	115	51-80	N/A	Did not visit. Difficult access. If adjacent stands are treated some of the edge might be able to have treatment.

Canopy Species	% Cover	Size Class	DBH	Age
Paper Birch	5	Pole	8	
Black Spruce	5	Pole/Sapling	6	
Northern White Cedar	50	Pole/Sapling	8	115
Tamarack	35	Pole/Log/Sap	10	
White Pine	5	Log/XLog	16	

Sub-Canopy Species	Density	Avg. Height	Size
Balsam Fir	Low	5 - 10 feet	Sapling
Black Spruce	Low	10 - 20 feet	Sapling
Northern White Cedar	Medium	Variable	Sapling
Tamarack	Low	10 - 20 feet	Sapling
Tag Alder	Medium	< 5 feet	Tall Shrub
Labrador Tea	Medium	< 5 feet	Tall Shrub

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
35	4119 - Mixed Northern Hardwoods	Sapling Well	102.0	5	1-50	N/A	Harvested under Mosquito Haven 42-016-014, TCR 2020. Harvest produced good diversity and regeneration. Many areas of 4" DBH retention pockets left. Larger deciduous species along the edge of the stand and a couple scattered around the stand.(2013) Stand is quite diverse with species and sizes. The terrain is here is a mix of upland and lowlands. The soil types and terrain vary with depressions, swales and some intermittant drainages mixed with small ridges. The low depressions/drainages are lowland conifer types and the ridges have WP overtopping hemlock, red maple, yellow birch, cedar, balsam, spruce and some aspen. The timber varies with this topography making areas too small to map separately. Balsam fir dominates most of the understory and is thick in many places. The northern end of stand was treated in the early 80's.

Canopy Species	% Cover	Size Class	DBH	Age
Red Maple	2	Log	14	
Yellow Birch	5	Sapling	1	
Paper Birch	5	Sapling	1	
Quaking Aspen	10	Sapling	1	
Northern White Cedar	5	Pole	8	
White Pine	5	XLog/Log	18	90
Hemlock	5	Log/XLog	14	
Red Maple	50	Sapling	1	5
Beech	13	Sapling	1	

Sub-Canopy Species	Density	Avg. Height	Size
Balsam Fir	Trace	< 5 feet	Sapling
Black Spruce	Trace	< 5 feet	Sapling
Hemlock	Trace	5 - 10 feet	Sapling
Tag Alder	Low	5 - 10 feet	Tall Shrub

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
36	6117 - Lowland Deciduous, Mixed Coniferous	Sapling Well	8.1	5	1-50	N/A	Harvested under Mosquito Haven 42-016-014, TCR 2020. Larger deciduous species along the edge of the stand and a couple scattered around the stand. There are some very young conifer in the understory. In 5 more years these conifers should be taller and have more BA in the stand.

Canopy Species	% Cover	Size Class	DBH	Age
Red Maple	40	Sapling	1	5
Paper Birch	5	Sapling	1	
Balsam Fir	5	Sapling	3	
Black Spruce	5	Sapling	1	
Northern White Cedar	5	Pole	7	
Tamarack	5	Sapling	1	
White Pine	15	Log	16	90

Sub-Canopy Species	Density	Avg. Height	Size
Balsam Fir	Trace	< 5 feet	Sapling
Black Spruce	Trace	< 5 feet	Sapling
Northern White Cedar	Trace	< 5 feet	Sapling
Tamarack	Trace	< 5 feet	Sapling
Tag Alder	Low	< 5 feet	Tall Shrub

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
37	6220 - Alder/willow	Nonstocked	10.0		Unspecified	No	

Sub-Canopy Species	Density	Avg. Height	Size
Tamarack	Medium		Pole
Northern White Cedar	Low		Pole
Tag Alder	Full		Tall Shrub
Black Spruce	Low		Pole

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
38	4130 - Aspen	Poletimber Well	12.7	39	51-80	N/A	Stand was treated in the early 80's. Just coming into pole size. Aspen is straight and tall.

Canopy Species	% Cover	Size Class	DBH	Age
Red Maple	5	Sapling/Pole	4	
Paper Birch	5	Sapling/Pole	4	
Quaking Aspen	70	Pole/Sapling	6	39
Bigtooth Aspen	15	Pole/Sapling	6	
Balsam Fir	2	Sapling	1	
White Pine	3	Log/XLog	18	

Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	Medium	10 - 20 feet	Sapling
Paper Birch	Low	10 - 20 feet	Sapling
Quaking Aspen	Medium	>20 feet	Sapling
Balsam Fir	Medium	10 - 20 feet	Sapling
White Spruce	Low	5 - 10 feet	Sapling
Tag Alder	Medium	5 - 10 feet	Tall Shrub

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
39	4139 - Aspen, Mixed Deciduous	Sapling Well	48.4	5	1-50	N/A	Harvested under Mosquito Haven 42-016-014, TCR 2020. Harvest produced good diversity and regeneration. Larger deciduous species along the edge of the stand and a couple scattered around the stand.(2013) Stand is a mix of aspen, r. maple, spruce, fir and cedar. Some W. pine present. Paper birch present but dying out. Aspen is getting old and breaking apart. R.maple and b.fir dominate understory.

Canopy Species	% Cover	Size Class	DBH	Age
Red Maple	20	Sapling	1	
Yellow Birch	5	Sapling	1	
Paper Birch	5	Sapling	1	
Quaking Aspen	50	Sapling	1	5
Northern White Cedar	5	Pole	8	
White Pine	5	Log/XLog	18	
Beech	10	Sapling	1	

Sub-Canopy Species	Density	Avg. Height	Size
Balsam Fir	Trace	< 5 feet	Sapling
Black Spruce	Trace	< 5 feet	Sapling

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
40	6229 - Mixed lowland shrub	Nonstocked	7.2		Unspecified	No	Low area with retention/buffer from previous harvest.

Sub-Canopy Species	Density	Avg. Height	Size
Cattail spp.	Medium		Non-Woody
Tag Alder	Medium		Tall Shrub

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
41	4191 - Mixed Upland Deciduous with Conifer	Sawtimber Well	33.8	90	81-110	N/A	Lowland stand consisting mostly of paper birch, aspen, spruce, balsam and cedar. Stand has timber value and is silviculturally ready.

Canopy Species	% Cover	Size Class	DBH	Age
Red Maple	10	Log/Pole	12	
Paper Birch	30	Pole/Log	10	90
Quaking Aspen	20	Log	12	
Balsam Poplar	10	Log	14	
Balsam Fir	5	Pole/Sapling	6	
Black Spruce	15	Pole/Log/Sap	9	
Northern White Cedar	5	Pole/Log	10	
Tamarack	2	Pole/Log	10	
White Pine	3	Log	16	

Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	Medium	10 - 20 feet	Sapling
Paper Birch	Low	>20 feet	Sapling
Balsam Fir	Medium	10 - 20 feet	Sapling
Black Spruce	Low	>20 feet	Sapling
Tag Alder	Medium	< 5 feet	Tall Shrub
Labrador Tea	Medium	< 5 feet	Tall Shrub

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
42	6128 - Lowland Coniferous, Mixed Deciduous	Poletimber Well	18.9	100	Unspecified	N/A	Stand should be harvested with other stands north of the creek.

Canopy Species	% Cover	Size Class	DBH	Age
Red Maple	5	Pole/Log	9	
Paper Birch	10	Pole	8	
Quaking Aspen	5	Log/Pole	10	
Balsam Fir	5	Sapling/Pole	4	
Black Spruce	25	Pole/Sapling	7	
Northern White Cedar	40	Pole	8	100
Tamarack	5	Pole/Log	10	
White Pine	5	Log	14	

Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	Low	5 - 10 feet	Sapling
Yellow Birch	Low	5 - 10 feet	Sapling
Paper Birch	Low	5 - 10 feet	Sapling
Balsam Fir	Low	5 - 10 feet	Sapling
Black Spruce	Medium	10 - 20 feet	Sapling
Northern White Cedar	Medium	10 - 20 feet	Pole
Tag Alder	Medium	< 5 feet	Tall Shrub

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
43	42290 - Natural Mixed Pine	Sawtimber Well	33.1	105	81-110	N/A	(2013) Stand sits on an upland ridge complex surrounded by lowland types. Stand is open grown with a mix of pine and deciduous species. Trees are mature. Old stumps present on ridge.

Canopy Species	% Cover	Size Class	DBH	Age
Red Maple	5	Pole/Sapling	6	
Paper Birch	10	Log/Pole	10	
Quaking Aspen	3	Log	12	
Black Spruce	12	Pole/Log/Sap	8	
White Pine	25	Log/XLog	18	
Red Pine	30	Log/XLog	18	105
Jack Pine	15	Log/Pole	10	

Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	Low	< 5 feet	Sapling
Balsam Fir	Low	< 5 feet	Sapling
Black Spruce	Low	< 5 feet	Sapling
White Pine	Low	5 - 10 feet	Sapling

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
44	6121 - Tamarack	Sapling Medium	138.5	115	1-50	N/A	Low ground. Many trees in stand are suppressed and sub-merchantable.

Canopy Species	% Cover	Size Class	DBH	Age
Black Spruce	10	Sapling/Pole	4	
Northern White Cedar	40	Sapling/Pole	5	
Tamarack	50	Pole/Sapling	7	115

Sub-Canopy Species	Density	Avg. Height	Size
Black Spruce	Low	10 - 20 feet	Sapling
Northern White Cedar	Medium	5 - 10 feet	Sapling
Tamarack	Medium	10 - 20 feet	Sapling
Tag Alder	Medium	< 5 feet	Tall Shrub

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
45	4140 - Other Upland Deciduous	Poletimber Well	3.9	80	51-80	N/A	

Canopy Species	% Cover	Size Class	DBH	Age
Paper Birch	65	Pole	8	80
Quaking Aspen	15	Log	12	
Balsam Poplar	10	Pole/Log	10	
Black Spruce	5	Sapling/Pole	6	
Northern White Cedar	5	Pole	7	

Sub-Canopy Species	Density	Avg. Height	Size
Paper Birch	Medium	>20 feet	Pole
Balsam Fir	Low	5 - 10 feet	Sapling
Black Spruce	Low	10 - 20 feet	Sapling
Tag Alder	Medium	5 - 10 feet	Tall Shrub

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
46	6122 - Black Spruce	Poletimber Well	16.9	100	Unspecified	N/A	

Canopy Species	% Cover	Size Class	DBH	Age
Black Spruce	50	Pole/Sapling	6	100
Northern White Cedar	5	Pole/Sapling	6	
Tamarack	40	Pole/Sapling	8	
White Pine	5	Log	16	

Sub-Canopy Species	Density	Avg. Height	Size
Black Spruce	Medium	Variable	Sapling
Tamarack	Medium	Variable	Sapling
Tag Alder	Low	5 - 10 feet	Tall Shrub
Labrador Tea	Medium	< 5 feet	Tall Shrub

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
47	720 - Exposed Rock	Nonstocked	13.4	0	Unspecified	No	RR grade ROW
48	6224 - Treed Bog	Nonstocked	1.8		Unspecified	No	Sapling/seedling sized cedar and tamarck. Cattail present. Old stumps in middle of stand. <20% canopy, wetland type..

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
49	4134 - Aspen, Spruce/Fir	Sawtimber Well	17.4	85	81-110	N/A	Stand is starting to break up due to be over mature. (2013) Stand mostly aspen in the overstory with occasional white pine. Aspen is mature. Younger balsam fir and spruce in the understory coming up under the aspen.

Canopy Species	% Cover	Size Class	DBH	Age
Red Maple	10	Pole/Sapling	6	
Paper Birch	5	Pole	10	
Quaking Aspen	40	Log	12	85
Bigtooth Aspen	5	Log	12	
Balsam Fir	15	Pole/Sapling	6	
Black Spruce	10	Pole/Sapling	6	
White Pine	15	Log	18	

Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	Low	5 - 10 feet	Sapling
Balsam Fir	High	10 - 20 feet	Sapling
Black Spruce	Medium	10 - 20 feet	Sapling
White Pine	Low	10 - 20 feet	Sapling
Tag Alder	Low	< 5 feet	Tall Shrub

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
50	6122 - Black Spruce	Poletimber Well	87.1	115	111-140	N/A	(2013) Stand is a mix of lowland conifers many consisting of spruce and cedar. Decent spruce in most of the stand. Cedar/spruce density ratios vary throughout stand. Some areas are almost pure spruce while others are more mixed. Small stream on the north edge of stand.

Canopy Species	% Cover	Size Class	DBH	Age
Red Maple	5	Pole/Sapling	7	
Paper Birch	5	Pole	8	
Quaking Aspen	3	Log/Pole	9	
Black Spruce	50	Pole/Sapling	8	115
Northern White Cedar	25	Pole/Log/Sap	8	
Tamarack	2	Pole	9	
White Pine	10	Pole/Log	10	

Sub-Canopy Species	Density	Avg. Height	Size
Balsam Fir	Medium	5 - 10 feet	Sapling
Black Spruce	Medium	>20 feet	Sapling
Northern White Cedar	Low	5 - 10 feet	Sapling
Tamarack	Low	5 - 10 feet	Sapling
Tag Alder	Medium	< 5 feet	Tall Shrub
Labrador Tea	Medium	< 5 feet	Tall Shrub

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
51	6120 - Lowland Cedar	Poletimber Well	156.0	90	Unspecified	N/A	Old winter logging roads through stand. (2013) Stand is dominated by lowland conifers, mostly cedar. Stand is variable with densities and mix of species. Some areas have more birch and spruce mixed in with the cedar.

Canopy Species	% Cover	Size Class	DBH	Age
Paper Birch	5	Pole	8	
Quaking Aspen	3	Log	10	
Balsam Poplar	5	Pole/Log	8	
Balsam Fir	5	Sapling	3	
Black Spruce	15	Pole/Sapling	7	
Northern White Cedar	50	Pole/Sapling	7	90
Tamarack	15	Pole/Log	9	
White Pine	2	Log	16	

Sub-Canopy Species	Density	Avg. Height	Size
Paper Birch	Low	10 - 20 feet	Sapling
Balsam Fir	Low	5 - 10 feet	Sapling
Black Spruce	Medium	10 - 20 feet	Sapling
Northern White Cedar	Medium	10 - 20 feet	Sapling
Tamarack	Low	10 - 20 feet	Sapling
Tag Alder	Medium	< 5 feet	Tall Shrub

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
52	429 - Mixed Upland Conifers	Sawtimber Well	7.2	115	81-110	N/A	Harvest with surrounding stands. (2013) Stand is subtle rise in topography amongst lowland type, lowland on edges of stand. Balsam fir is heavy for the most part in understory.

Canopy Species	% Cover	Size Class	DBH	Age
Red Maple	20	Log/Pole	10	
Paper Birch	10	Pole/Log	10	
Balsam Fir	5	Sapling/Pole	4	
Black Spruce	20	Pole	8	
Northern White Cedar	15	Pole/Log	10	
White Pine	25	XLog/Log	18	115
Hemlock	5	Log	16	

Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	Low	10 - 20 feet	Sapling
Balsam Fir	Low	5 - 10 feet	Sapling
Black Spruce	Low	10 - 20 feet	Sapling
Tag Alder	Low	< 5 feet	Tall Shrub
Labrador Tea	Low	< 5 feet	Tall Shrub

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
53	4191 - Mixed Upland Deciduous with Conifer	Sawtimber Well	59.5	95	81-110	N/A	Species are over mature, harvest to now to make sure good regeneration occurs. (2013) Stand is quite a mix. The western portion is primarily red maple with a more open understory. Maple is poor quality. Parts of the the stand has a large diameter white pine overstory. The eastern part of the stand has a aspen component that is large diameter and overmature. Balsam fir is thick in many parts of the subcanopy. The southern edges of the stand drop off into more of a lowland type. Some wintering deer in here now but very light activity. Evidence of past browsing on red maple seedlings.

Canopy Species	% Cover	Size Class	DBH	Age
Red Maple	50	Log/Pole	14	95
Yellow Birch	2	Log/Pole	16	
Paper Birch	5	Pole/Log	12	
Quaking Aspen	3	Log/XLog	16	
Balsam Fir	5	Sapling/Pole	6	
Black Spruce	10	Pole/Log/Sap	10	
Northern White Cedar	10	Pole/Log	10	
White Pine	10	Log/XLog	18	

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
54	42210 - Natural Red Pine	Sawtimber Well	4.2	100	111-140	N/A	Stand sits on a ridge. Decent quality red pine in stand. More birch in stand on the north side of ridge.

Canopy Species	% Cover	Size Class	DBH	Age
Paper Birch	15	Log/Pole	10	
Black Spruce	5	Pole	8	
White Pine	20	XLog/Log	18	
Red Pine	60	Log/Pole/XLog	14	100

Sub-Canopy Species	Density	Avg. Height	Size
Balsam Fir	Low	5 - 10 feet	Sapling

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
55	42290 - Natural Mixed Pine	Sawtimber Well	38.9	116	81-110	N/A	Old skid road on top of ridge. (2013) Stand mostly occurs along a ridge that is flanked by lowland spruce. The ridge is steep in a few places. Aspen in stand is mostly growing in pockets on ridge. Most timber is old and mature. The pine in stand is tall and straight and has quality. Balsam fir is thick in a few places in understory.

Canopy Species	% Cover	Size Class	DBH	Age
Paper Birch	5	Pole	9	
Bigtooth Aspen	10	Log	14	
Black Spruce	5	Pole	8	
White Pine	40	XLog/Log	18	116
Red Pine	40	XLog/Log	18	

Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	Low	10 - 20 feet	Sapling
Balsam Fir	High	5 - 10 feet	Sapling
Black Spruce	Medium	10 - 20 feet	Sapling
White Pine	Medium	10 - 20 feet	Sapling
Red Pine	Low	10 - 20 feet	Sapling
Blueberry/Bilberry/Cranberry	Low	Variable	Tall Shrub

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
56	6122 - Black Spruce	Poletimber Well	8.9	95	81-110	N/A	Center of stand has less BA but still fully stocked with an average of 90 BA. Pine, cedar, and hemlock found on the edge of stand. (2013) Stand consists mostly of black spruce with a mix of other species such as hemlock, cedar, yellow birch, red maple, paper birch and minor component of tamarack. Spruce is decent quality. Large white pine scattered on the perimeter of stand.

Canopy Species	% Cover	Size Class	DBH	Age
Red Maple	5	Log/Pole	14	
Paper Birch	5	Pole/Log	12	
Black Spruce	73	Pole	8	95
Northern White Cedar	5	Pole/Log	9	
Tamarack	2	Pole/Log	10	
White Pine	5	XLog/Log	18	
Yellow Birch	5	Pole	9	

Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	Low	10 - 20 feet	Sapling
Balsam Fir	Medium	10 - 20 feet	Sapling
Labrador Tea	Low	< 5 feet	Tall Shrub

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
57	6224 - Treed Bog	Nonstocked	62.4		Unspecified	No	

Sub-Canopy Species	Density	Avg. Height	Size
Alder	Medium		Tall Shrub
Black Spruce	Medium		Sapling
Labrador Tea	Low		Tall Shrub
Tamarack	Low		Sapling
Leatherleaf	Low		Tall Shrub
White Pine	Trace		Log

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
58	3302 - Low Density Conifer Trees	Nonstocked	10.9		Unspecified	No	

Sub-Canopy Species	Density	Avg. Height	Size
Tamarack	Medium		Pole
Paper Birch	Low		Pole
Balsam Poplar	Low		Pole
Northern White Cedar	Low		Pole
Tag Alder	High		Tall Shrub
Black Spruce	Medium		Sapling

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
59	6122 - Black Spruce	Poletimber Well	56.0	100	81-110	N/A	Stand is predominately lowland black spruce with a scattering of log sized white pine in the overstory. Lowland brush species present in places in the understory.

Canopy Species	% Cover	Size Class	DBH	Age
Black Spruce	80	Pole	8	100
Tamarack	5	Pole	9	
White Pine	10	Log	16	
Red Maple	5	Pole	7	

Sub-Canopy Species	Density	Avg. Height	Size
Black Spruce	Low	10 - 20 feet	Sapling
Labrador Tea	Low	Variable	Tall Shrub

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
60	42290 - Natural Mixed Pine	Sawtimber Well	3.3	100	51-80	N/A	Stand sits on a narrow upland ridge that supports red/white pine mixed with spruce, birch and maple. B. fir/spruce in understory.

Canopy Species	% Cover	Size Class	DBH	Age
Red Maple	5	Pole/Sapling	7	
Paper Birch	10	Pole/Log	10	
Black Spruce	20	Sapling/Pole	7	
White Pine	25	Log/XLog	18	
Red Pine	40	Log	16	100

Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	Low	10 - 20 feet	Sapling
Paper Birch	Low	>20 feet	Pole
Balsam Fir	Medium	5 - 10 feet	Sapling
Black Spruce	Medium	10 - 20 feet	Sapling
Red Pine	Low	>20 feet	Pole

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
61	6122 - Black Spruce	Poletimber Well	18.2	100	51-80	N/A	Harvest with compartment to the north. (2013) Merchantable black spruce ranges from 1 - 4 sticks tall but several stems sub-merchantable sized. Lab tea on the ground amongst lowland brush.

Canopy Species	% Cover	Size Class	DBH	Age
Black Spruce	95	Pole/Sapling	7	100
Tamarack	5	Pole	9	

Sub-Canopy Species	Density	Avg. Height	Size
Black Spruce	Medium	10 - 20 feet	Sapling
Labrador Tea	Low	Variable	Tall Shrub

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
62	6117 - Lowland Deciduous, Mixed Coniferous	Poletimber Well	5.3	85	51-80	N/A	

Canopy Species	% Cover	Size Class	DBH	Age
Paper Birch	45	Pole/Log	9	85
Quaking Aspen	10	Log	12	
Balsam Poplar	15	Pole/Log	10	
Black Spruce	10	Sapling/Pole	6	
Northern White Cedar	10	Pole	8	
Tamarack	10	Pole/Log	9	

Sub-Canopy Species	Density	Avg. Height	Size
Paper Birch	Medium	10 - 20 feet	Pole
Balsam Fir	Low	5 - 10 feet	Sapling
Black Spruce	Low	10 - 20 feet	Sapling
Northern White Cedar	Low	>20 feet	Pole
Tag Alder	Medium	5 - 10 feet	Tall Shrub

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
63	42290 - Natural Mixed Pine	Sawtimber Well	6.4	85	81-110	N/A	Harvest with compartment to the north.

Canopy Species	% Cover	Size Class	DBH	Age
Paper Birch	5	Pole	8	
Quaking Aspen	5	Log	14	
Black Spruce	10	Pole/Sapling	6	
White Pine	35	Log	10	
Red Pine	40	Log/Pole	14	85
Jack Pine	5	Log	10	

Sub-Canopy Species	Density	Avg. Height	Size
Quaking Aspen	Low	5 - 10 feet	Sapling
Balsam Fir	Low	5 - 10 feet	Sapling
Black Spruce	Medium	5 - 10 feet	Sapling
White Pine	Medium	10 - 20 feet	Sapling

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
64	6120 - Lowland Cedar	Sawtimber Well	29.8	115	81-110	N/A	Small drainage through the middle of stand, Quinn Creek.

Canopy Species	% Cover	Size Class	DBH	Age
Black Spruce	5	Pole	8	
Northern White Cedar	50	Pole/Log	9	115
Tamarack	40	Log/Pole	10	
Balsam Fir	5	Pole/Sapling	5	

Sub-Canopy Species	Density	Avg. Height	Size
Tag Alder	Medium	< 5 feet	Tall Shrub
Labrador Tea	Medium	< 5 feet	Tall Shrub

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
65	6117 - Lowland Deciduous, Mixed Coniferous	Poletimber Well	8.1	90	81-110	N/A	

Canopy Species	% Cover	Size Class	DBH	Age
Red Maple	5	Pole/Log	12	
Paper Birch	30	Pole/Log	10	90
Quaking Aspen	15	Log	12	
Balsam Poplar	10	Log	14	
Balsam Fir	5	Sapling/Pole	6	
Black Spruce	15	Pole	8	
Northern White Cedar	10	Pole	8	
Tamarack	7	Pole/Log	10	
White Pine	3	Log	16	

Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	Medium	10 - 20 feet	Sapling
Paper Birch	Low	>20 feet	Sapling
Balsam Fir	Medium	10 - 20 feet	Sapling
Black Spruce	Low	>20 feet	Sapling
Tag Alder	Medium	< 5 feet	Tall Shrub
Labrador Tea	Medium	< 5 feet	Tall Shrub

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
66	6117 - Lowland Deciduous, Mixed Coniferous	Poletimber Well	20.1	90	81-110	N/A	

Canopy Species	% Cover	Size Class	DBH	Age
Red Maple	5	Pole/Log	10	
Paper Birch	30	Pole/Log	10	90
Quaking Aspen	15	Log	12	
Balsam Poplar	10	Log	14	
Balsam Fir	5	Sapling/Pole	6	
Black Spruce	15	Pole	8	
Northern White Cedar	10	Pole	8	
Tamarack	7	Pole/Log	9	
White Pine	3	Log	16	

Sub-Canopy Species	Density	Avg. Height	Size
Balsam Fir	Low	10 - 20 feet	Sapling
Black Spruce	Low	>20 feet	Sapling
Tag Alder	Low	< 5 feet	Tall Shrub
Labrador Tea	Medium	< 5 feet	Tall Shrub

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
67	6220 - Alder/willow	Nonstocked	1.2		Unspecified	No	

Sub-Canopy Species	Density	Avg. Height	Size
Black Spruce	Low		Pole
Tag Alder	Full		Tall Shrub

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
68	42290 - Natural Mixed Pine	Sawtimber Medium	16.9	90	81-110	N/A	2013 Stand falls mostly on an upland ridge. Red pine and white pine are log sized and decent quality. Jack pine is getting old. Lowland types surrounding stand.

Canopy Species	% Cover	Size Class	DBH	Age
Black Spruce	10	Pole/Sapling	8	
White Pine	25	XLog/Log/Pole	18	
Red Pine	50	Log/Pole	16	90
Jack Pine	15	Log	12	

Sub-Canopy Species	Density	Avg. Height	Size
Balsam Fir	Low	5 - 10 feet	Sapling
Blueberry/Bilberry/Cranberry	Low	< 5 feet	Tall Shrub

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
69	6122 - Black Spruce	Sawtimber Well	38.3	95	81-110	N/A	(2013) Decent spruce in stand growing mostly in lower ground. Subtle ridges throughout stand that support sawlog sized red/white pine.

Canopy Species	% Cover	Size Class	DBH	Age
Red Maple	2	Pole	8	
Paper Birch	3	Pole	8	
Quaking Aspen	2	Log	12	
Black Spruce	63	Pole/Sapling	8	95
White Pine	15	Log/XLog	18	
Red Pine	15	Log/XLog	16	

Sub-Canopy Species	Density	Avg. Height	Size
Balsam Fir	Low	5 - 10 feet	Sapling
Tag Alder	Low	< 5 feet	Tall Shrub
Labrador Tea	Low	< 5 feet	Tall Shrub
Black Spruce	Low	Variable	Sapling

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
70	6121 - Tamarack	Poletimber Well	15.0	50	51-80	N/A	Some decent pole sized tamarack in some areas of stand but most is sapling sized. Low ground.

Canopy Species	% Cover	Size Class	DBH	Age
Paper Birch	3	Sapling	3	
Balsam Fir	2	Sapling	1	
Black Spruce	25	Sapling/Pole	4	
Northern White Cedar	5	Sapling/Pole	5	
Tamarack	60	Pole/Sapling	6	50
White Pine	5	Pole	8	

Sub-Canopy Species	Density	Avg. Height	Size
Black Spruce	Low	5 - 10 feet	Sapling
Tamarack	Medium	>20 feet	Sapling
Tag Alder	Medium	< 5 feet	Tall Shrub
Labrador Tea	Medium	< 5 feet	Tall Shrub

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
71	429 - Mixed Upland Conifers	Sawtimber Well	38.0	108	81-110	N/A	There is enough upland area in the stand that the MC/MD stands could be harvested in the summer months. (2013) Stand is mix of upland and lowland types. The uplands are subtle rises in topography mixed with low pockets of lowland tree species. Pine dominates the higher ground (tall and large diameter) and balsam fir is heavy in the subcanopy.

Canopy Species	% Cover	Size Class	DBH	Age
Red Maple	20	Log/Pole	10	
Paper Birch	5	Pole/Log	12	
Quaking Aspen	5	Log	16	
Balsam Fir	3	Sapling/Pole	6	
Black Spruce	12	Pole/Log	8	
Northern White Cedar	5	Pole/Log	9	
White Pine	35	Log/XLog	18	108
Red Pine	15	Log/XLog	18	

Sub-Canopy Species	Density	Avg. Height	Size
Balsam Fir	Low	10 - 20 feet	Sapling
Tag Alder	Low	< 5 feet	Tall Shrub
Labrador Tea	Low	< 5 feet	Tall Shrub

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
72	6220 - Alder/willow	Nonstocked	10.4		Unspecified	No	Solid tag alder.

Sub-Canopy Species	Density	Avg. Height	Size
Black Spruce	Medium		Pole
Northern White Cedar	Trace		Pole
Tag Alder	Full		Tall Shrub

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
73	6224 - Treed Bog	Nonstocked	16.9		Unspecified	No	

Sub-Canopy Species	Density	Avg. Height	Size
White Pine	Trace		Sapling
Leatherleaf	Low		Tall Shrub
Tamarack	Medium		Sapling
Tag Alder	Medium		Tall Shrub
Labrador Tea	Medium		Tall Shrub
Black Spruce	Medium		Sapling

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
74	6129 - Mixed Coniferous Lowland Forest	Poletimber Well	12.4	90	51-80	N/A	

Canopy Species	% Cover	Size Class	DBH	Age
Paper Birch	5	Pole/Sapling	6	
Black Spruce	35	Sapling/Pole	4	
Northern White Cedar	10	Pole	6	
Tamarack	45	Pole/Sap/Log	8	90
White Pine	5	Log/Pole	10	

Sub-Canopy Species	Density	Avg. Height	Size
Black Spruce	Medium	10 - 20 feet	Sapling
Tamarack	Medium	10 - 20 feet	Sapling
Tag Alder	Medium	< 5 feet	Tall Shrub
Labrador Tea	Medium	< 5 feet	Tall Shrub

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
75	4191 - Mixed Upland Deciduous with Conifer	Sawtimber Well	12.9	80	81-110	N/A	An average of 90 BA, most of the stand could be harvested during a dry summer. Access through stand 71.

Canopy Species	% Cover	Size Class	DBH	Age
Red Maple	25	Pole/Log	9	
Paper Birch	15	Pole/Log	10	
Quaking Aspen	25	Log	12	80
Balsam Fir	5	Sapling/Pole	6	
Black Spruce	5	Pole	6	
Northern White Cedar	5	Pole	8	
White Pine	20	Log/XLog	18	

Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	Low	10 - 20 feet	Sapling
Balsam Fir	Low	10 - 20 feet	Sapling
Black Spruce	Low	10 - 20 feet	Sapling

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
76	6129 - Mixed Coniferous Lowland Forest	Sawtimber Well	253.0	95	81-110	N/A	(2013) Stand is a diverse mix of species/ages on a variable mix of topography. Difficult to type out all the variability. There are upland ridges scattered throughout this mostly lowland type stand. Pine, maple, birch, aspen types dominate the upland ridges and spruce, cedar, tamarack dominate the lowlands.

Canopy Species	% Cover	Size Class	DBH	Age
Red Maple	5	Pole/Log/Sap	10	
Yellow Birch	2	Log/Pole	12	
Paper Birch	5	Pole/Log	9	
Quaking Aspen	3	Log	14	
Balsam Poplar	2	Log/Pole	10	
Balsam Fir	5	Pole/Sapling	6	
Black Spruce	25	Pole	8	95
Northern White Cedar	23	Pole/Log	9	
Tamarack	10	Log/Pole	10	
White Pine	10	Log/XLog	18	
Red Pine	3	Log	16	
Jack Pine	2	Log	10	
Hemlock	5	Log/XLog	16	

Sub-Canopy Species	Density	Avg. Height	Size
Northern White Cedar	Low	>20 feet	Sapling
Tamarack	Low	Variable	Sapling
Tag Alder	Low	< 5 feet	Tall Shrub
Labrador Tea	Low	< 5 feet	Tall Shrub

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
77	6132 - Mixed Lowland Forest with Cedar	Poletimber Well	14.4	90	81-110	N/A	

Canopy Species	% Cover	Size Class	DBH	Age
Red Maple	5	Pole/Log	12	
Paper Birch	20	Pole/Log	10	
Quaking Aspen	15	Log	12	
Balsam Poplar	5	Log	10	
Balsam Fir	5	Sapling/Pole	6	
Black Spruce	22	Pole	8	90
Northern White Cedar	20	Pole	8	
Tamarack	5	Pole/Log	10	
White Pine	3	Log	16	

Sub-Canopy Species	Density	Avg. Height	Size
Tag Alder	Medium	< 5 feet	Tall Shrub
Labrador Tea	Medium	< 5 feet	Tall Shrub

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
78	42290 - Natural Mixed Pine	Sawtimber Well	19.3	90	81-110	N/A	Stand falls moslty on an upland ridge. Red pine and white pine are log sized and decent quality. Jack pine is gettting old. Lowland types surrounding stand as well as a few pockets mixed within.

Canopy Species	% Cover	Size Class	DBH	Age
Paper Birch	5	Pole	8	
Black Spruce	10	Sapling/Pole	7	
White Pine	30	Log/XLog	18	
Red Pine	40	Log	16	90
Jack Pine	15	Log	12	

Sub-Canopy Species	Density	Avg. Height	Size
Balsam Fir	Low	5 - 10 feet	Sapling
Blueberry/Bilberry/Cranberry	Medium	< 5 feet	Tall Shrub

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
79	429 - Mixed Upland Conifers	Sawtimber Well	149.7	100	81-110	N/A	(2013) Stand falls along a ridge for the most part, the edges of stand are a bit more lowland but most of the stand is along a subtle upland ridge. Stand is somewhat variable with tree species/density due its shape, topography and lowland/upland interface.

Canopy Species	% Cover	Size Class	DBH	Age
Red Maple	5	Pole/Log	10	
Paper Birch	10	Pole/Log	9	
Quaking Aspen	3	Log	12	
Black Spruce	20	Pole	8	
Northern White Cedar	10	Pole	8	
White Pine	30	Log/XLog	18	100
Red Pine	20	Log/XLog	18	
Jack Pine	2	Log	12	

Sub-Canopy Species	Density	Avg. Height	Size
Balsam Fir	Low	5 - 10 feet	Sapling
White Pine	Low	10 - 20 feet	Sapling
Tag Alder	Low	< 5 feet	Tall Shrub
Labrador Tea	Medium	< 5 feet	Tall Shrub

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
80	6229 - Mixed lowland shrub	Nonstocked	9.6		Unspecified	No	

Sub-Canopy Species	Density	Avg. Height	Size
Tag Alder	Medium		Tall Shrub
Paper Birch	Low		Seeding
Willow spp.	Low		Tall Shrub
Cattail spp.	Medium		Non-Wood
Tamarack	Low		Seeding
Black Spruce	Low		
Leatherleaf	Low		Tall Shrub
Northern White Cedar	Trace		Seeding

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
81	6224 - Treed Bog	Nonstocked	17.1		Unspecified	No	

Sub-Canopy Species	Density	Avg. Height	Size
White Pine	Trace		Sapling
Leatherleaf	Low		Tall Shrub
Tag Alder	Medium		Tall Shrub
Tamarack	Medium		Sapling
Black Spruce	Medium		Sapling
Labrador Tea	Medium		Tall Shrub

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
82	6229 - Mixed lowland shrub	Nonstocked	11.3		Unspecified	No	

Sub-Canopy Species	Density	Avg. Height	Size
Cattail spp.	Medium		Non-Woody
Tag Alder	Medium		Tall Shrub

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
83	42290 - Natural Mixed Pine	Sawtimber Well	13.3	90	81-110	N/A	(2013) Stand falls mostly on an upland ridge. Red pine and white pine are log sized and decent quality. Jack pine is getting old. Lowland types surrounding stand as well as a few pockets mixed within.

Canopy Species	% Cover	Size Class	DBH	Age
Red Maple	5	Pole/Log	10	
Paper Birch	5	Pole	8	
Quaking Aspen	5	Log	12	
Black Spruce	15	Pole/Sapling	7	
White Pine	20	Log/XLog	16	
Red Pine	35	Log	16	90
Jack Pine	15	Log	10	

Sub-Canopy Species	Density	Avg. Height	Size
Balsam Fir	Low	10 - 20 feet	Sapling
Black Spruce	Low	10 - 20 feet	Sapling
Blueberry/Bilberry/Cranberry	Medium	< 5 feet	Tall Shrub

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
84	6120 - Lowland Cedar	Poletimber Well	15.2	90	81-110	N/A	

Canopy Species	% Cover	Size Class	DBH	Age
Paper Birch	10	Pole	8	
Quaking Aspen	2	Log	10	
Balsam Poplar	3	Pole	8	
Balsam Fir	5	Sapling/Pole	3	
Black Spruce	15	Pole	8	
Northern White Cedar	50	Pole	8	90
Tamarack	15	Pole/Log	9	

Sub-Canopy Species	Density	Avg. Height	Size
Paper Birch	Low	10 - 20 feet	Sapling
Balsam Fir	Low	5 - 10 feet	Sapling
Black Spruce	Low	10 - 20 feet	Sapling
Northern White Cedar	Low	10 - 20 feet	Sapling
Tamarack	Low	10 - 20 feet	Sapling
Tag Alder	Medium	< 5 feet	Tall Shrub

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
85	4191 - Mixed Upland Deciduous with Conifer	Sawtimber Well	12.5	85	81-110	N/A	Stand is a mix of aspen, birch, maple and conifer species. pine, spruce and balsam. Maple regen has been browsed in the past.

Canopy Species	% Cover	Size Class	DBH	Age
Red Maple	30	Pole/Log/Sap	10	85
Paper Birch	20	Pole/Log	10	
Quaking Aspen	20	Log	16	
Balsam Fir	5	Pole/Log/Sap	8	
Black Spruce	5	Pole	8	
White Pine	15	Log	14	
Red Pine	5	Log	14	

Sub-Canopy Species	Density	Avg. Height	Size
Balsam Fir	Low	5 - 10 feet	Sapling
Black Spruce	Low	5 - 10 feet	Sapling

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
86	6224 - Treed Bog	Nonstocked	23.2		Unspecified	No	

Sub-Canopy Species	Density	Avg. Height	Size
Northern White Cedar	Low		Seeding
White Pine	Trace		Sapling
Black Spruce	Medium		Sapling
Tamarack	Medium		Sapling

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
87	6230 - Cattail	Nonstocked	19.3		Unspecified	No	Old beaver flooding. Standing tree snags and stumps. Some cedar and tamarack seedling/saplings present. Cattails growing now.

Sub-Canopy Species	Density	Avg. Height	Size
Cattail spp.	Medium		Non-Woody
Tamarack	Low		Sapling
Labrador Tea	Medium		Tall Shrub
White Pine	Trace		Sapling
Tag Alder	Medium		Tall Shrub
Northern White Cedar	Low		Sapling

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
88	4191 - Mixed Upland Deciduous with Conifer	Sawtimber Well	8.9	90	81-110	N/A	Average BA is around 90.

Canopy Species	% Cover	Size Class	DBH	Age
Red Maple	30	Pole/Log/Sap	10	90
Paper Birch	15	Log/Pole	10	
Quaking Aspen	25	Log	16	
Balsam Fir	5	Pole	7	
Black Spruce	10	Pole	8	
White Pine	10	Log	14	
Northern White Cedar	5	Pole	7	

Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	Medium	5 - 10 feet	Sapling
Balsam Fir	Medium	10 - 20 feet	Sapling
Black Spruce	Medium	5 - 10 feet	Sapling

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
89	4136 - Aspen, Mixed Conifer	Sapling Well	28.8	19	1-50	N/A	Stand looks good. (2013) Stand was mostly final harvested in 2002. Fully regenerated. Some scattered white pine, hemlock, red pine in overstory. Most trees that regenerated are now sapling sized 5-15' tall & 1-2"DBH or smaller.

Canopy Species	% Cover	Size Class	DBH	Age
Red Maple	10	Sapling	2	
Paper Birch	10	Sapling	2	
Quaking Aspen	43	Sapling	2	19
Balsam Fir	10	Sapling	1	
White Pine	5	Log	14	
Red Pine	2	Log	14	
Hemlock	5	Log	14	
Pin Cherry	10	Sapling	2	
White Spruce	5	Sapling	2	

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
90	6124 - Lowland Spruce-Fir	Poletimber Poor	4.5	95	1-50	N/A	(2013) Stand is a lowland pocket surrounded by upland type. North end is a low/wet area with standing dead spruce snags. The fringe of lowland supports trees where it goes up onto upland site.

Canopy Species	% Cover	Size Class	DBH	Age
Balsam Fir	10	Pole/Sapling	7	
Black Spruce	40	Pole/Sapling	8	95
Northern White Cedar	10	Pole	7	
White Pine	40	Log/Pole	12	

Sub-Canopy Species	Density	Avg. Height	Size
Labrador Tea	High	< 5 feet	Tall Shrub
Leatherleaf	Medium	< 5 feet	Tall Shrub

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
91	6128 - Lowland Coniferous, Mixed Deciduous	Poletimber Medium	3.7	95	1-50	N/A	(2013) Stand is mostly surrounded by upland type. This stand is in a low area that gradually becomes more low/wet and treed bog like as you move west.

Canopy Species	% Cover	Size Class	DBH	Age
Red Maple	10	Pole/Log/Sap	10	
Paper Birch	15	Pole/Log	9	
Black Spruce	35	Pole	8	95
Tamarack	5	Log/Pole	10	
White Pine	25	Log	14	
Balsam Fir	10	Sapling/Pole	4	

Sub-Canopy Species	Density	Avg. Height	Size
Tag Alder	Medium	5 - 10 feet	Tall Shrub

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
92	6224 - Treed Bog	Nonstocked	3.8		Unspecified	No	

Sub-Canopy Species	Density	Avg. Height	Size
White Pine	Trace		Sapling
Black Spruce	Medium		Sapling
Tamarack	Medium		Sapling
Northern White Cedar	Low		Seeding

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
93	6122 - Black Spruce	Poletimber Well	6.8	90	51-80	N/A	(2013) Lower areas mixed throughout stand with smaller trees, treed bog types. Thick tree canopy where forested.

Canopy Species	% Cover	Size Class	DBH	Age
Black Spruce	75	Pole	8	90
White Pine	10	Log	16	
Red Maple	15	Pole	8	

Sub-Canopy Species	Density	Avg. Height	Size
Tag Alder	Medium	< 5 feet	Tall Shrub
Labrador Tea	Medium	< 5 feet	Tall Shrub

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
94	4115 - Y.Birch, Hemlock NH	Sawtimber Well	2.8	100	111-140	N/A	(2013) Stand is log sized, some very large yellow birch, w.pine, hemlock and red maple. South end of stand is lower and somewhat wet. Size of stand is small. Balsam fir understory is heavy in portions of stand.

Canopy Species	% Cover	Size Class	DBH	Age
Red Maple	55	Log/Pole/XLog	16	100
Yellow Birch	15	XLog/Log	20	
Balsam Fir	5	Sapling/Pole	6	
White Spruce	5	Log	14	
White Pine	5	XLog	20	
Hemlock	15	Log/XLog	18	

Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	Low	Variable	Sapling
Balsam Fir	High	Variable	Sapling
Black Spruce	Low	10 - 20 feet	Sapling

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site
95	6220 - Alder/willow	Nonstocked	1.2		Unspecified	No

Sub-Canopy Species	Density	Avg. Height	Size
Black Spruce	Low		Pole
Tag Alder	High		Tall Shrub
Northern White Cedar	Low		Pole
Tamarack	Low		Log

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site
96	6229 - Mixed lowland shrub	Nonstocked	21.7		Unspecified	No

Sub-Canopy Species	Density	Avg. Height	Size
Black Spruce	Trace		Pole
Tag Alder	High		Tall Shrub
Northern White Cedar	Trace		Pole
Leatherleaf	Medium		Tall Shrub
Cattail spp.	Low		Non-Woody
White Pine	Trace		Log

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site
97	6120 - Lowland Cedar	Poletimber Well	21.8	100	51-80	N/A

Canopy Species	% Cover	Size Class	DBH	Age
Paper Birch	5	Pole/Sapling	8	
Black Spruce	10	Sapling/Pole	7	
Northern White Cedar	65	Pole/Sapling	8	100
Tamarack	15	Pole/Log	10	
White Pine	5	Log	16	

Sub-Canopy Species	Density	Avg. Height	Size
Black Spruce	Low	10 - 20 feet	Sapling
Northern White Cedar	Medium	Variable	Sapling
Tamarack	Low	>20 feet	Sapling
Tag Alder	Medium	< 5 feet	Tall Shrub

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
98	4191 - Mixed Upland Deciduous with Conifer	Sawtimber Well	15.7	85	81-110	N/A	

Canopy Species	% Cover	Size Class	DBH	Age
Red Maple	33	Pole/Log/Sap	10	85
Paper Birch	20	Pole/Log	10	
Quaking Aspen	20	Log	16	
Balsam Fir	5	Pole	7	
Black Spruce	5	Pole	8	
White Pine	15	Log	14	
Red Pine	2	Log	16	

Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	Low	5 - 10 feet	Sapling
Balsam Fir	Low	5 - 10 feet	Sapling
Black Spruce	Low	5 - 10 feet	Sapling

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
99	429 - Mixed Upland Conifers	Poletimber Well	4.8	95	51-80	N/A	Ridge of pine, paper birch, spruce and balsam surrounded by lowlands. This ridge is fairly open.

Canopy Species	% Cover	Size Class	DBH	Age
Paper Birch	20	Pole/Log	9	
Balsam Fir	25	Sapling	3	
Black Spruce	30	Pole/Sapling	7	95
White Pine	5	Log	16	
Red Pine	20	Log	16	

Sub-Canopy Species	Density	Avg. Height	Size
Balsam Fir	Medium	10 - 20 feet	Sapling
Black Spruce	Low	Variable	Sapling
Blueberry/Bilberry/Cranberry	Low	5 - 10 feet	Tall Shrub

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
100	6120 - Lowland Cedar	Poletimber Well	4.7	100	51-80	N/A	Difficult access.

Canopy Species	% Cover	Size Class	DBH	Age
Black Spruce	10	Sapling/Pole	6	
Northern White Cedar	60	Sapling/Pole	7	100
Tamarack	30	Pole/Sap/Log	9	

Sub-Canopy Species	Density	Avg. Height	Size
Black Spruce	Medium	Variable	Sapling
Northern White Cedar	Low	Variable	Sapling
Tamarack	Medium	Variable	Sapling
Tag Alder	Medium	< 5 feet	Tall Shrub
Labrador Tea	Medium	< 5 feet	Tall Shrub