



# Compartment Review Presentation

Gaylord Forest Management Unit

Compartment 52158

Entry Year 2021

Acreage: 2,595

County Cheboygan

Management Area: Chandler Hills

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**Revision Date:** 2019-04-23

**Stand Examiner:** Tricia St. Pierre

**Legal Description:**

T33N R03W Sections 22; 23; 26; 27 except E1/2SW, W1/2SE; 35 N1/2NW, NWNE, E1/2SE.  
Mineral rights in section 27 SWSE; 34 NESE; 35 W1/2SW, SWNW

**Identified Planning Goals:**

To provide for the protection, integrated management, and responsible use of a healthy, productive, and undiminished forest resource base for the social, environmental, and economic benefit of the State of Michigan and its residents.

**Soil and topography:**

This is a predominately upland compartment from morainic deposits, dominated by Blue Lake loamy sands and Kalkaska sands with lesser amounts of Cheboygan and Rubicon sands. These soils, making up 95% of the soil types in this compartment, are well to excessively drained, and have a history of grazing and logging. Topography is generally hilly with a couple plateaus and depressions. The depressions, saturated and poorly drained, support varied lowland complexes and are dominated by mucks (Lupton, Roscommon) and to a lesser extent sand and peat.

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

This compartment is adjacent to stateland to the east and west, but mostly abuts private to the north and south. Ownership is contiguous, with no private parcels within the compartment as a whole. Land use within this compartment is largely recreational, with hunting as the primary activity. Land use outside of the compartment is residential, hobby farm, and larger tracts (20+ acres) of private ownership (forested and pastured). There is a research plot in section 23.

**Unique Natural Features:**

There is good potential for unique natural features in this compartment. Petrified wood from Canada (brought down into Michigan during the last Ice Age) has been observed. T&E and Sensitive species, such as Red Shouldered Hawk and the Eastern Massasauga Rattlesnake, have been known to exist within this compartment. MNFI database should be carefully queried when making management decisions.

There are known occurrences of Red Shouldered Hawk and Bald Eagle adjacent to this compartment, also.

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

There are potential historical sites in Section 27: NWSW, SESE; Section 35: NWNW.

There is an old Roadside Park in Section 23: NWNW, formerly operated by the Highway Department. The park was shut down in the 1960s, the pavillion dilapidated but still in the woods.

There was a plantation in Section 22: NESE which originated through the Detroit News' Forests of the Future: a Plan for Public Participation in the Reforestation of State-Owned Barren Lands in Michigan. This particular plantation, 40 acres of red pine, was planted through the donation of "Erwin". No other details are provided giving more clues to Erwin's full name or place of residence.

**Special Management Designations or Considerations:**

Invasive species are present in this compartment and at risk of spreading. Specifically, autumn olive, scotch pine, thistle, and buckthorn are present. Beech bark disease and emerald ash borer are also present. These forest health threats should be considered when making management decisions, as scotch pine and autumn are readily identifiable and can be removed when found anytime during the year.

Oak wilt should also be considered when managing in areas where oak are present, in the northwest portion of this compartment in particular.

Considerations should also be made for visual management along Straits Highway, if appropriate for the treatment.

Historical garbage dumping (two-tracks closed to mitigate dumping) has been an issue in the past.

There is a designated Natural Rivers buffer needing review in the eastern portion of this compartment, as well as Cold Water trout stream classifications that should be reviewed/verified.

**Watershed and Fisheries Considerations:**

Allen Creek

Blackjack Creek  
Drainages that turn into tributaries of the West Branch of the Sturgeon

**Wildlife Habitat Considerations:**

Elk, deer, game birds, coyote, fox  
RSH nest reported in Sec 22

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

Approved well site in Section 35.  
Sections 22-23, 26-27, & 35, T33N-R3W, Cheboygan County  
Active sand/gravel pits are not located in the area, but there is good sand & gravel potential within the compartment.  
Natural gas production from the Antrim Shale is occurring immediately south of the compartment. The Antrim is thin here and may be absent in the northern part of the compartment, so potential for additional Antrim development within the compartment may be limited. One drill test in the compartment found evidence that the Antrim Shale had been removed by a glacial scour. There are some active leases at the southern end of the compartment, which are incorporated into Antrim unitized areas. Encana tested the Utica/Collingwood just west of the compartment, but the Wilmot 1-21 exploratory well did not produce. There is no known metallic mineral potential in this part of the state.

**Vehicle Access:**

There is a good network of roads (two-tracks) to the interior portions of this compartment in snow-off conditions, but terrain, road surface, and encroaching vegetation may make that access challenging. Seeps off of Allen Creek Road make for a muddy and sensitive road bed that may eventually need attention, especially if used as access for forest management. Access is limited in the winter months as the majority of the roads are seasonal.

**Survey Needs:**

There are no survey needs at this time. However, the south edge of this compartment is also the county line, which could have some significance when using corners for boundary work along the south edge.

**Recreational Facilities and Opportunities:**

The Tomahawk C loop Motorcycle Trail (MCCCT) runs all throughout this compartment. Snowmobile Trail 765 also bisects the compartment, following seasonal County roads.  
There are many temporary blinds and tree stands in this compartment for hunting. Many roads and two-tracks are also used for horseback riding.

**Fire Protection:**

There are very few highly volatile covertypes in this compartment, the biggest fire risk being in cured grasses. Otherwise, this area is dominated by northern hardwood and aspen with very few pockets of conifer. Occasionally steep and/or wet hills may slow response times to a fire, but fire danger is relatively low, as is the urban interface.  
Access to a water source would be most reliable to the north on the West Branch of the Sturgeon River.

**Additional Compartment Information:**

Be aware of the utility line Right of Way, contacting the lessee prior to managing timber within these limits.

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

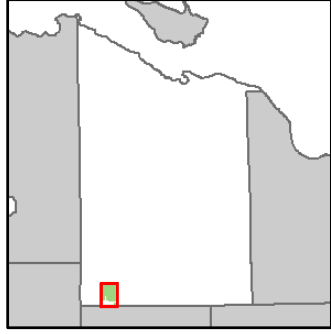
- Total Acres by Cover Type and Age Class**
- Cover Type by Harvest Method**
- Proposed Treatments – No Limiting Factors**
- Proposed Treatments – With Limiting Factors**
- Stand Details (Forested and Nonforested)**
- Dedicated and Proposed Special Conservation Areas**
- Site Condition Details**

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

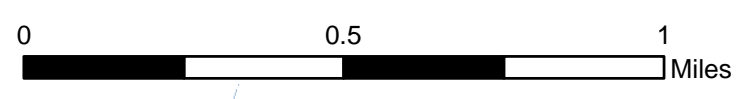
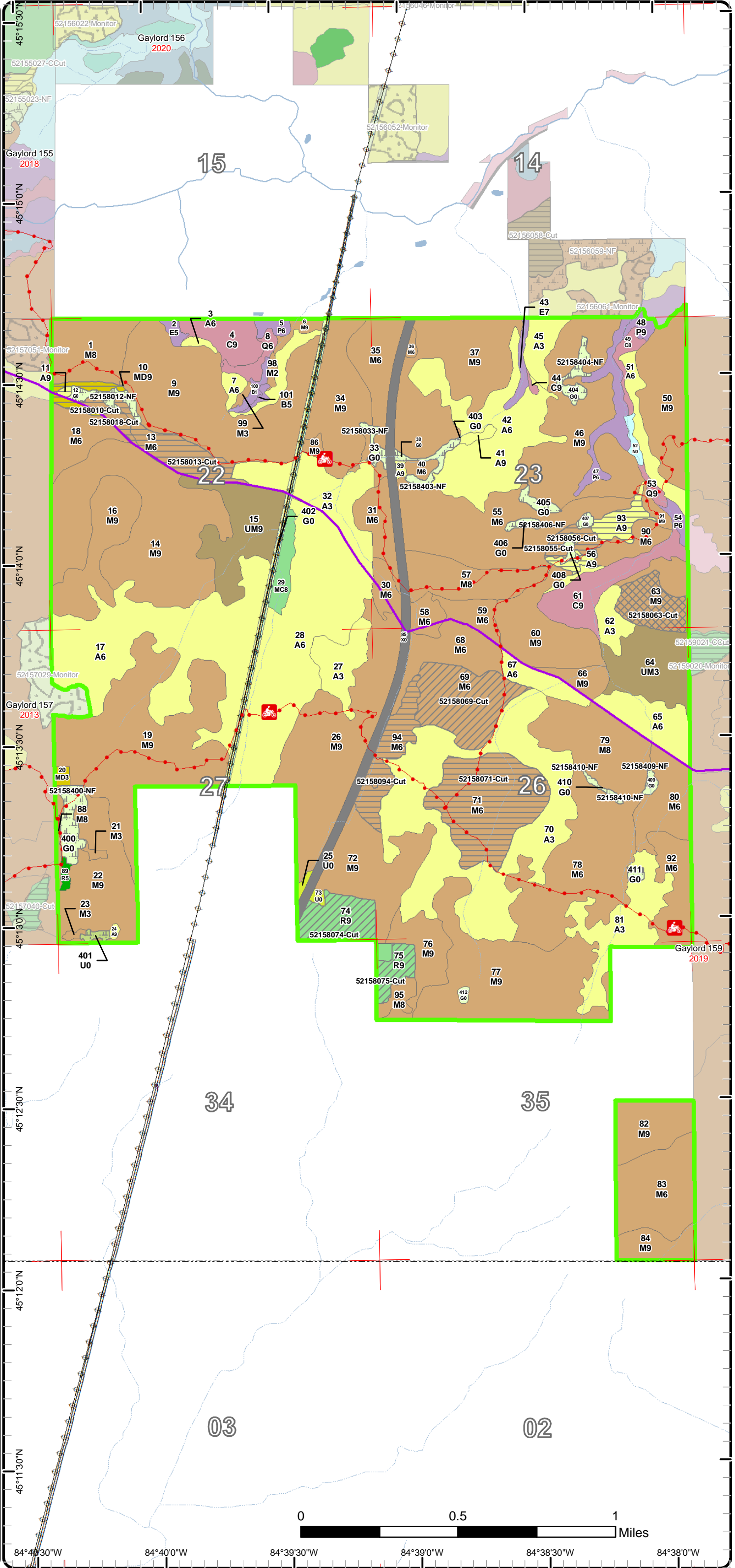
- Base feature information, stand boundaries, cover types, and numbers**
- Proposed treatments**
- Site condition boundaries**
- Details on the road access system**

# Cover Type & Treatments Map

Compartment: 158  
 T33N, R03W, Sec. 22, 23, 26, 27, 35  
 County: Cheboygan  
 Unit: Gaylord  
 Mgmt Area: Chandler Hills  
 YOE: 2021  
 Acres: 2,595 GIS Calculated  
 Examiner: Tricia St. Pierre  
 Map Revised: 10/8/2019  
 Map Phase: Post-Review



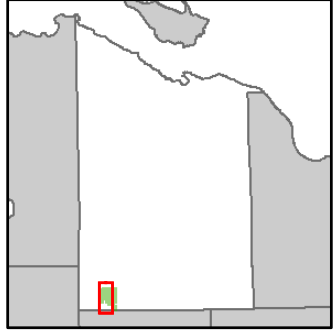
- Miris Corners
- Counties
- 🏍️ Motorcycle Trails (DNR License)
- ORV License & Trail Permit
- Designated Snowmobile Trails
- Intermittent Stream
- Lake/Pond
- Perennial River
- Lakes and Rivers All
- Pipeline
- Powerline
- Compartment Boundary
- Other Treatment - See Comments
- Selection (Group, Single Tree)
- Clearcut (w/Reserves)
- Thinning (Crown, Low, Systematic)
- 411 - Northern Hardwood
- 413 - Aspen
- 419 - Mixed Upland Deciduous
- 421 - Planted Pines
- 422 - Natural Pines
- 430 - Upland Mixed Forest
- 611 - Lowland Deciduous Forest
- 612 - Lowland Coniferous Forest
- 122 - Roads/Parking Lot
- 310 - Herbaceous Openland
- 320 - Upland Shrub
- 330 - Low Density Trees
- 623 - Emergent Wetland
- Lakes



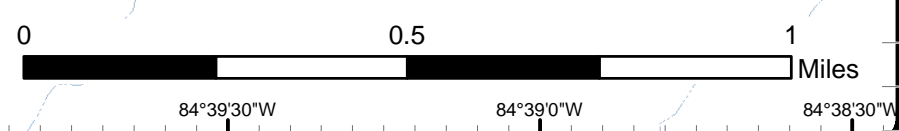
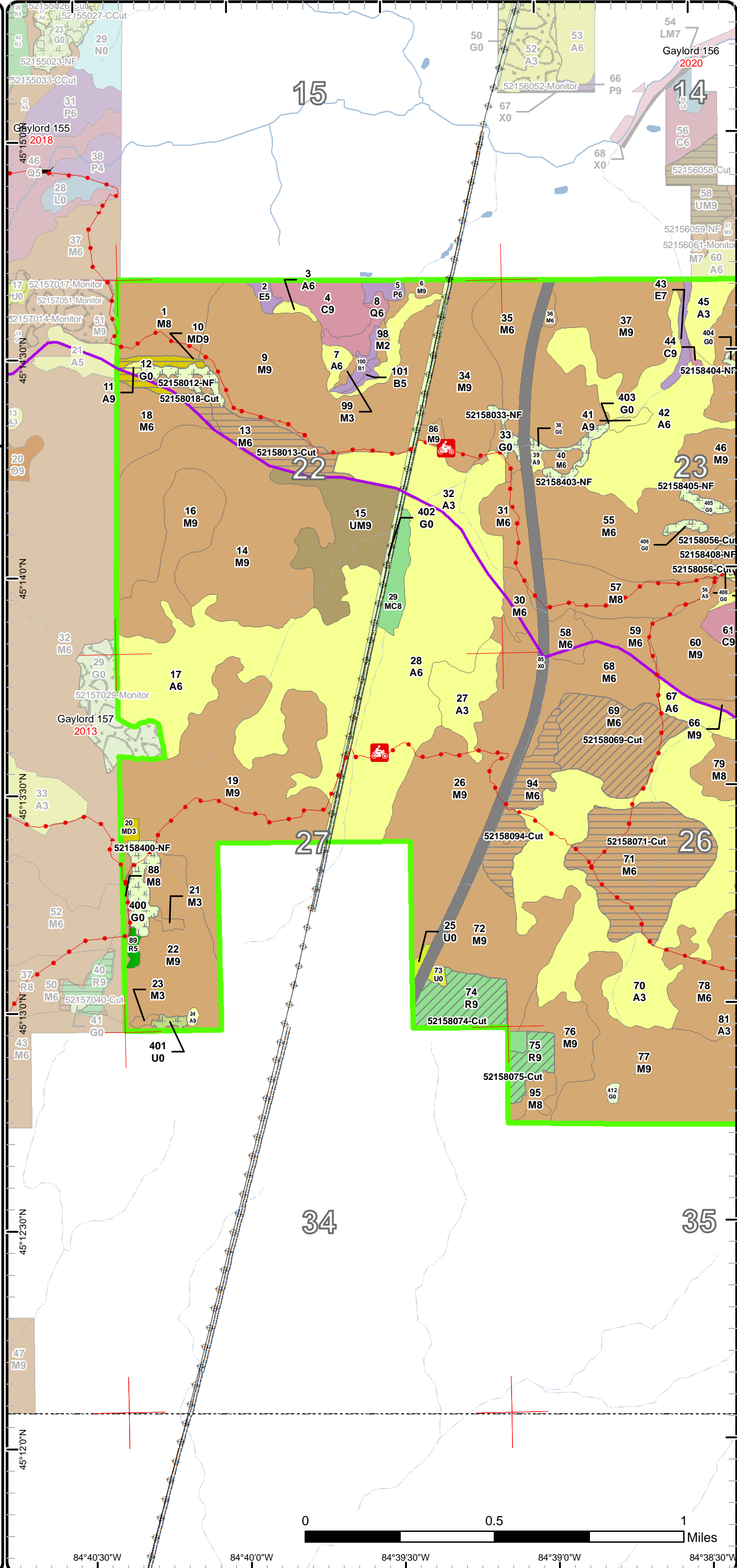
84°40'30"W 84°40'0"W 84°39'30"W 84°39'0"W 84°38'30"W 84°38'0"W

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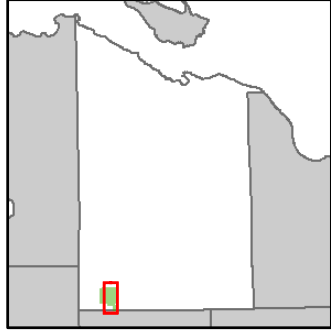
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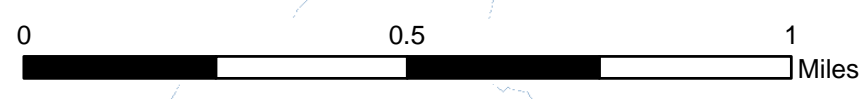
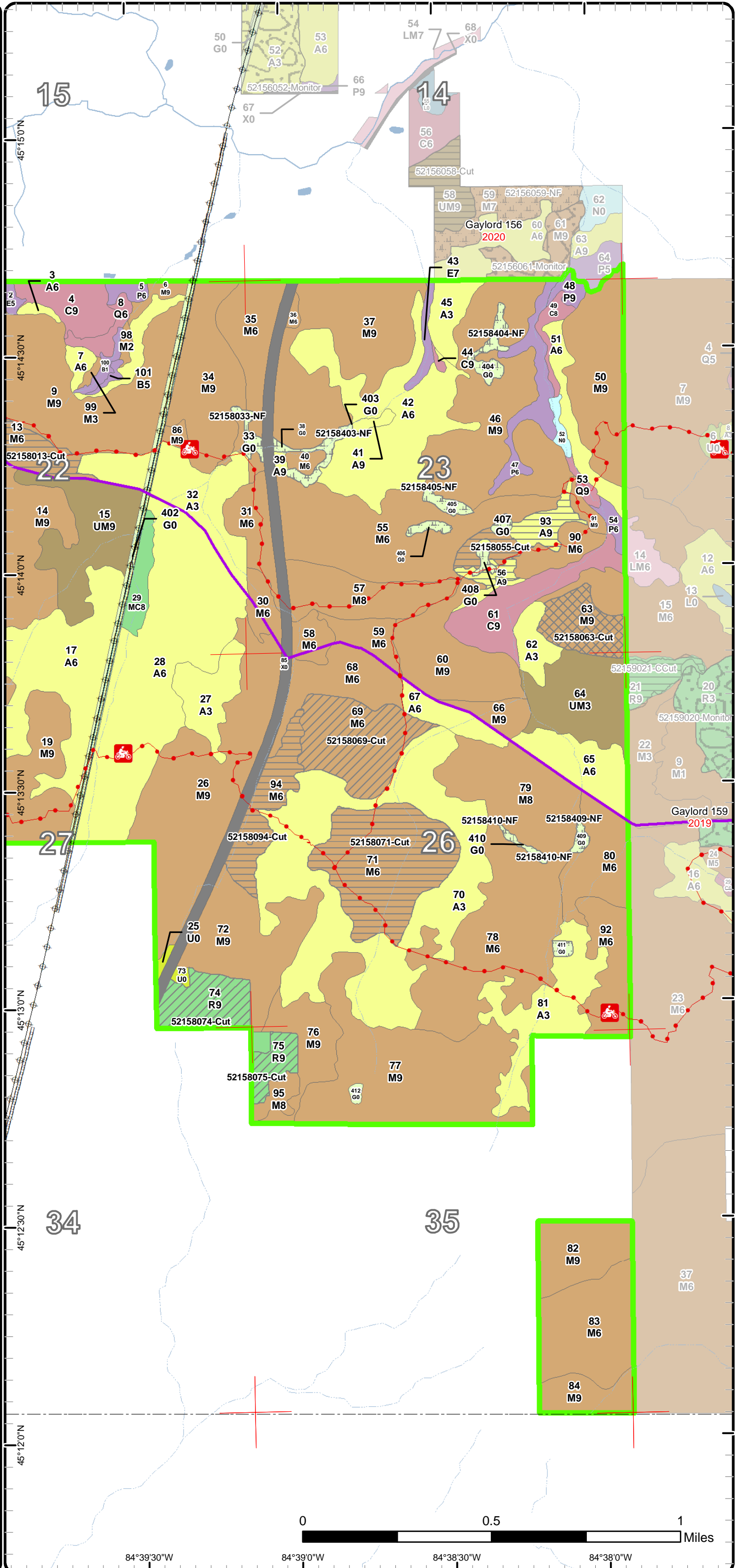


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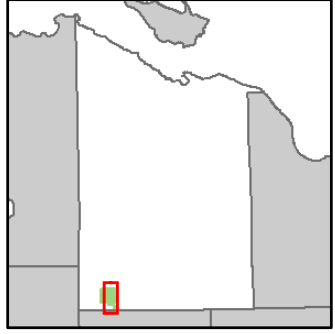




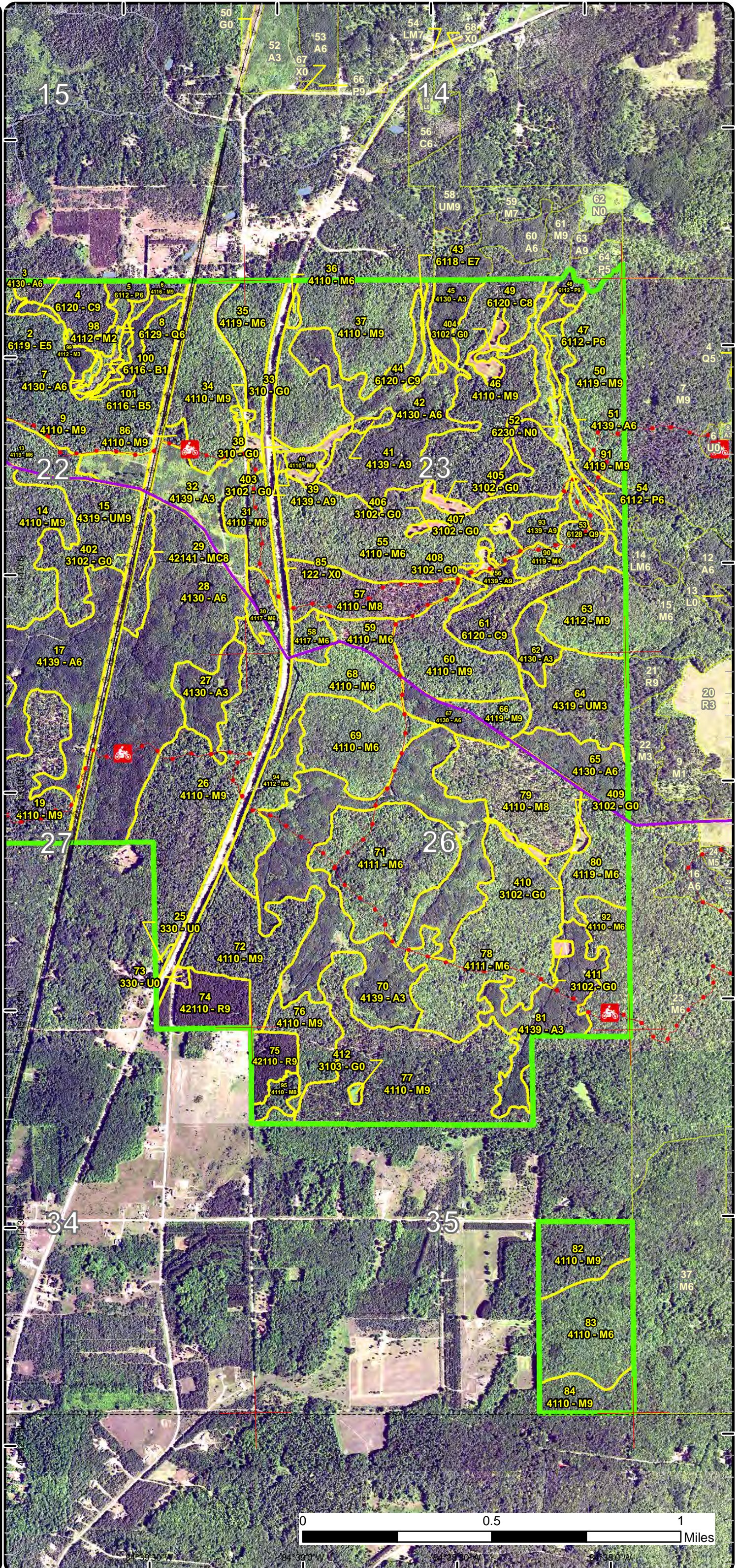


# Stand Boundary Map

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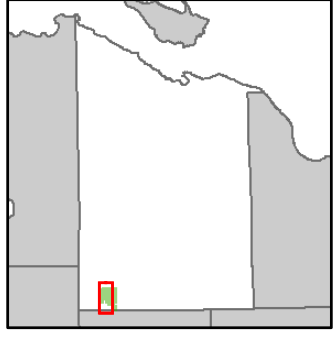
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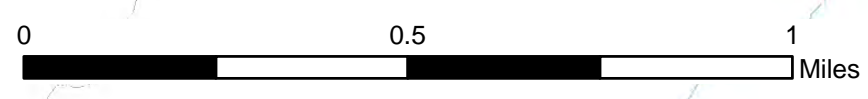
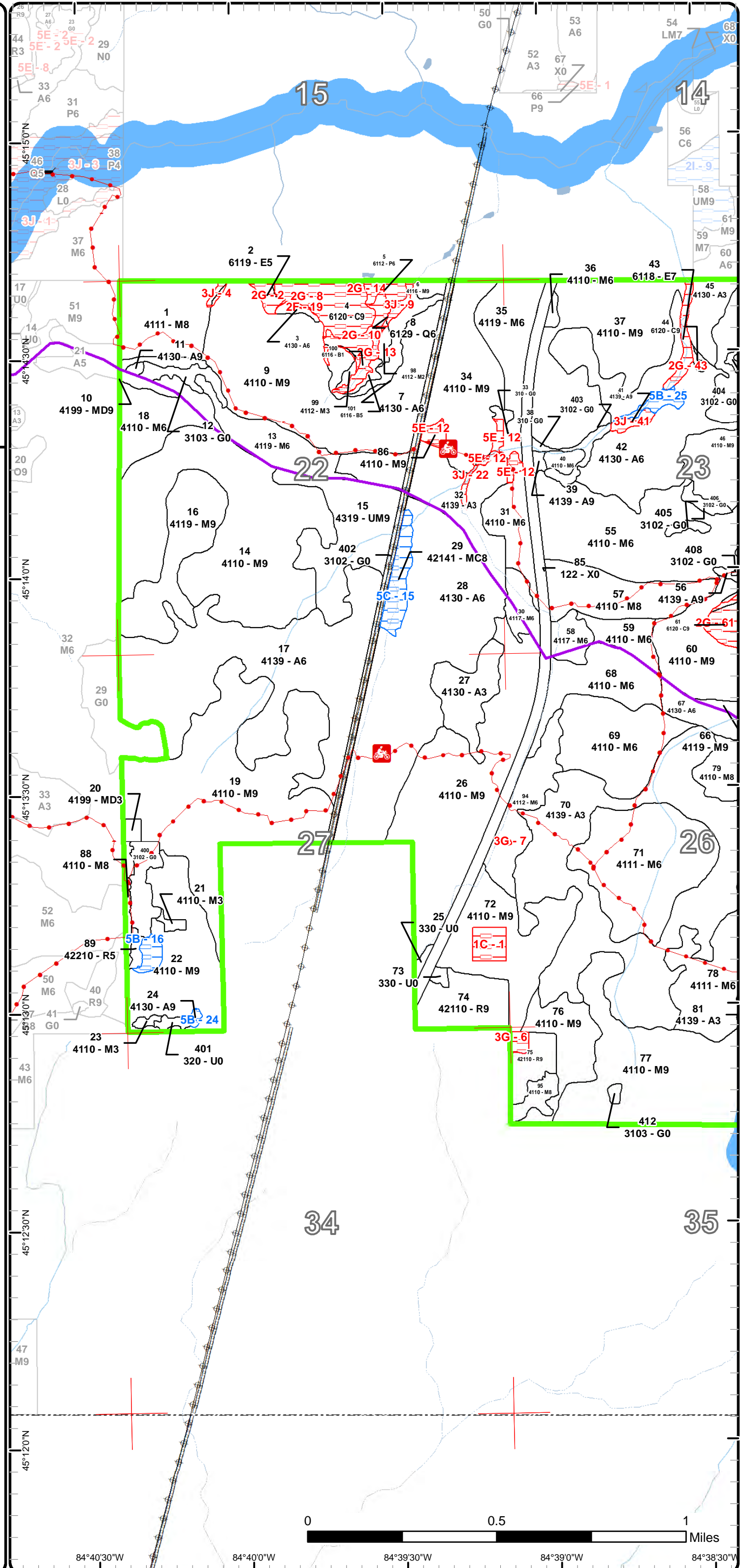


# Special Conservation Areas & Site Conditions Map

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- Available w/ Constraints
- Unavailable
- 5B: Maintain for regeneration purposes
- 5C: Delay treatment for age/size class diversity or exceptional site quality
- 1C: Other dept or div proc/practices
- 2F: Too steep
- 2G: Too wet (sensitive soils, does not include access issues)
- 3G: Other Influence zones - See comments
- 3J: Water quality / BMPs (stream, river, or lake)
- 5E: Long-Term Retention
- Stand Boundaries
- Cold Water Streams
- High Priority Trout Stream Buffer

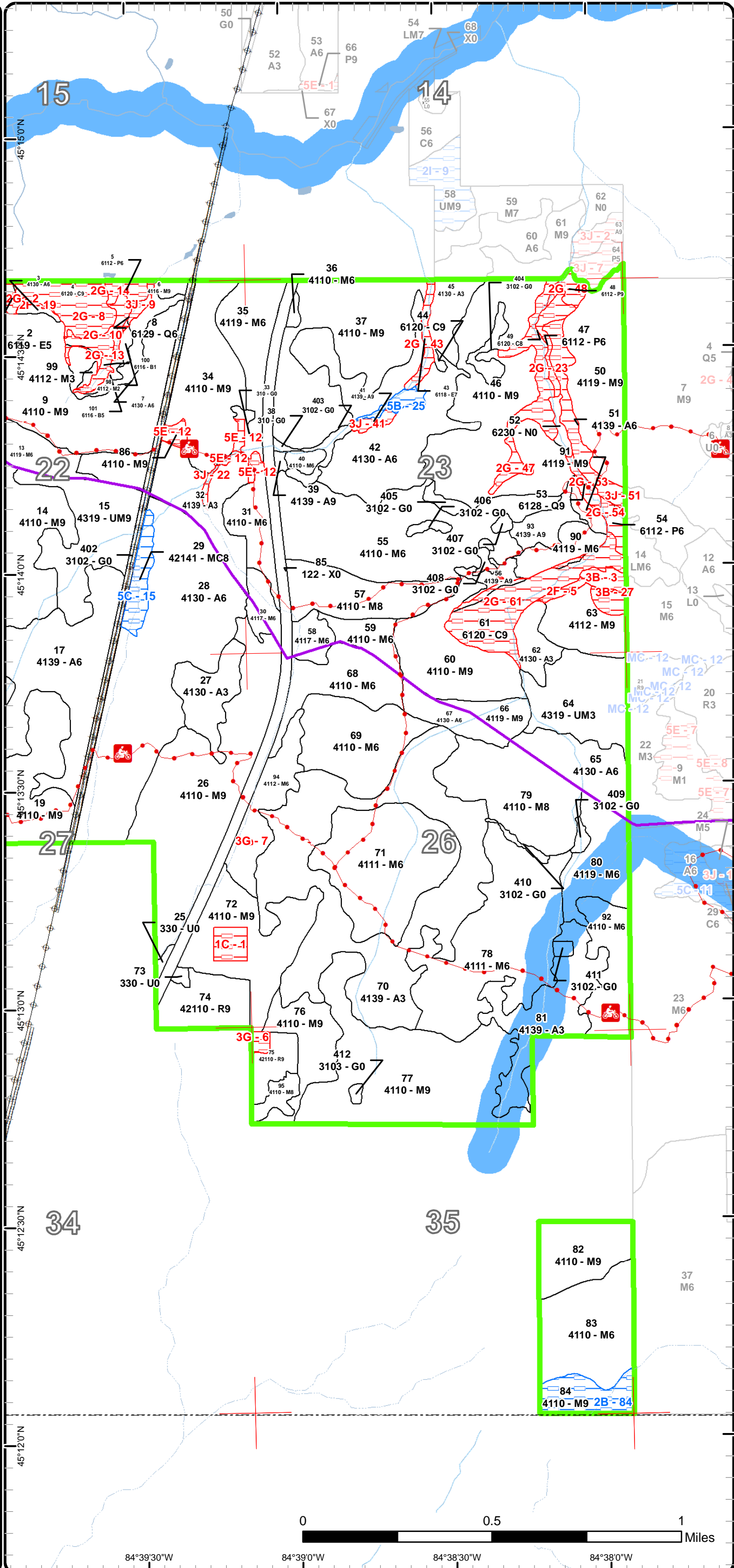
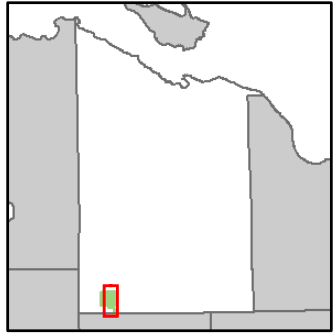


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Age Class

	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	37	145	263	135	0	12	0	6	0	16	0	0	0	0	0	0	0	614
Cedar	0	0	0	0	0	0	0	0	0	44	6	0	0	0	0	0	0	0	50
Herbaceous Openland	60	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	60
Low-Density Trees	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
Lowland Aspen/Balsam Poplar	0	0	0	0	3	0	0	0	0	4	19	0	0	0	0	0	0	0	26
Lowland Conifers	0	0	0	0	0	0	0	0	0	0	3	0	0	0	0	0	0	6	9
Lowland Deciduous	0	0	0	0	0	0	0	0	4	3	0	0	0	0	0	0	0	0	7
Marsh	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3
Mixed Upland Deciduous	0	0	0	2	0	0	0	6	0	0	0	0	0	0	0	0	0	0	8
Northern Hardwood	0	0	0	0	4	1	0	149	315	762	375	5	49	0	0	0	0	0	1660
Paper Birch	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	3	4
Planted Mixed Pines	0	0	0	0	0	0	0	0	0	9	0	0	0	0	0	0	0	0	9
Red Pine	0	0	0	2	0	0	32	0	0	0	0	0	0	0	0	0	0	0	34
Upland Mixed Forest	0	0	0	35	0	0	0	0	0	39	0	0	0	0	0	0	0	0	74
Upland Shrub	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
Urban	36	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	36
<b>Total</b>	<b>103</b>	<b>37</b>	<b>145</b>	<b>302</b>	<b>143</b>	<b>1</b>	<b>44</b>	<b>155</b>	<b>325</b>	<b>861</b>	<b>419</b>	<b>5</b>	<b>49</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>9</b>	<b>2598</b>





## Report 2 – Treatment Summary

Gaylord Mgt. Unit

Year of Entry: 2021

Acres of Harvest

Compartment 158

Total Compartment Acres: 2,595

Commercial Harvest - 222  
 Harvests with Site Condition - 0  
 Next Step Harvest - 0  
 Habitat Cut - 0

### Cover Type by Harvest Method

	Clearcut	Selection	Patch Clearcut	Seed Tree	Shelterwood	Thinning	Overstory Removal	Salvage	Other	Total Acres
Aspen	14	0	0	0	0	0	0	0	0	14
Mixed Upland Deciduous	6	0	0	0	0	0	0	0	0	6
Northern Hardwood	114	19	0	0	39	0	0	0	0	172
Red Pine	0	0	0	0	30	0	0	0	0	30
<b>Total</b>	<b>134</b>	<b>19</b>	<b>0</b>	<b>0</b>	<b>69</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>222</b>

### Proposed and Next Step Treatments by Method

	Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current	222	0	0	0	0	0	0	39	0	261
Next Step	0	22	86	22	0	22	197	0	0	350
<b>Total</b>	<b>222</b>	<b>22</b>	<b>86</b>	<b>22</b>	<b>0</b>	<b>22</b>	<b>197</b>	<b>0</b>	<b>39</b>	<b>610</b>





S t a n d	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Approval Status
10	52158010-Cut	5.8	4199 - Other Mixed Upland Deciduous	Sawtimber Well	69	51-80	Harvest	Clearcut with Retention	4199 - Other Mixed Upland Deciduous	Even-Aged	Draft Field Boundary

**Habitat Cut: No****Site Condition:**

Prescription Final harvest utilizing retention to capture any dense pocket(s) of oak. Mark an average of no more than one oak per acre to leave which displays characteristics of being windfirm, large crowned, and a good mast producer. Attempt to identify oak closest to the non-forested opening for this purpose.

Specs: Do not cut elm or cherry. Require oak wilt spec. Sign and protect snowmobile trail during all harvesting/hauling operations. To avoid conflict with grooming and snowmobiles, harvesting is limited to July 15 to December 1, unless changed by written agreement in the event of a warm or late (snowless) winter. Oak wilt spec is required and non-negotiable.

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Regen: Acceptable regeneration will meet minimum stocking requirements for mixed deciduous species, including but not limited to aspen and oak. Regenerating to an A- or O- type will be acceptable.

Other Comment:

Proposed Start Date: 10/1 /2020

11	52158011-Cut	0.7	4130 - Aspen	Sawtimber Well	56	141- 170	Harvest	Clearcut	413 - Aspen	Even-Aged	Draft Field Boundary
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**Habitat Cut: No****Site Condition:**

Prescription Final harvest. No retention due to small stand size. Underrepresented species (such as elm) may be left if found during timber sale prep.

Specs: Sign and protect snowmobile trail during all harvesting/hauling operations. To avoid conflict with grooming and snowmobiles, harvesting is limited to July 15 to December 1, unless changed by written agreement in the event of a warm or late (snowless) winter. Oak wilt spec is required and non-negotiable.

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Regen: Acceptable regeneration will meet minimum stocking requirements for aspen.

Other

Comment:

Proposed Start Date: 10/1 /2020

12	52158012-NF	5.5	3103 - Rubus-Fern	Nonstocked		Unspec ified	NonForestMgt	Other - Specify	310 - Herbaceous Openland		Draft Field Boundary
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**Habitat Cut: No****Site Condition:**

Prescription Brush, mow, plant, burn and/or herbicide to maintain opening. Planting of hard and soft mast.

Specs: Sign and protect recreational trails during any and all management activities.

Next Step

Treatments:

Acceptable

Regen:

Other Comment:

Proposed Start Date: 10/1 /2020





S t a n d	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Approval Status
13	52158013-Cut	20.5	4119 - Mixed Northern Hardwoods	Poletimber Well	81	51-80	Harvest	Clearcut with Retention	4199 - Other Mixed Upland Deciduous	Even-Aged	Draft Field Boundary

**Habitat Cut: No****Site Condition:**

Prescription Final harvest. Utilize area retention to capture pockets of oak and/or desirable hardwood regeneration, keeping visual management in mind.

Specs: Underrepresented species may be retained if found during timber sale preparation. Require oak wilt spec.

Utilize dirtbike trail as north boundary where appropriate to do so.

Sign and protect snowmobile and dirtbike trails during all harvesting and hauling operations. To avoid conflict with grooming and snowmobiles, harvesting is limited to July 15 to December 1, unless changed by written agreement in the event of a warm or late (snowless) winter. Oak wilt spec is required and non-negotiable.

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Regen: Acceptable regeneration will meet minimum stocking requirements for mixed deciduous species. Regenerating to an M-, A-, or O- type will be acceptable.

Other Comment:

Proposed Start Date: 10/1 /2020

18	52158018-Cut	4.8	4110 - Sugar Maple Association	Poletimber Well	62	81-110	Harvest	Clearcut	4111 - S.Maple, Hard Mast Association	Even-Aged	Draft Field Boundary
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**Habitat Cut: No****Site Condition:**

Prescription Final harvest. Mark an average of no more than one oak per acre to leave which displays characteristics of being windfirm, large crowned, and a good mast producer. Attempt to identify oak closest to the non-forested opening for this purpose. No area retention due to small stand size.

Specs: Sign and protect snowmobile trail during all harvesting/hauling operations. To avoid conflict with grooming and snowmobiles, harvesting is limited to July 15 to December 1, unless changed by written agreement in the event of a warm or late (snowless) winter. Oak wilt spec is required and non-negotiable.

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Regen: Acceptable regeneration will meet minimum stocking requirements for mixed deciduous species.

Other Comment:

Other Comment:

Proposed Start Date: 10/1 /2020

33	52158033-NF	3.0	310 - Herbaceous Openland	Nonstocked		Unspec ified	NonForestMgt	Other - Specify	310 - Herbaceous Openland		Draft Field Boundary
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**Habitat Cut: No****Site Condition:**

Prescription Brush, mow, plant, burn and/or herbicide to maintain opening. Planting of hard and soft mast.

Specs: Sign and protect recreational trails during any and all management activities.

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Regen:

Other Comment:

Other Comment:

Proposed Start Date: 10/1 /2020





S t a n d	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Approval Status
38	52158038-NF	0.8	310 - Herbaceous Openland	Nonstocked		Unspec ified	NonForestMgt	Other - Specify	310 - Herbaceous Openland		Draft Field Boundary

**Habitat Cut: No****Site Condition:**

Prescription Brush, mow, plant, burn and/or herbicide to maintain opening. Planting of hard and soft mast.

Specs:

Next Step

Treatments:

Acceptable

Regen:

Other

Comment:

Proposed Start Date: 10/1 /2020

55	52158055-Cut	6.6	4110 - Sugar Maple Association	Poletimber Well	68	81-110	Harvest	Clearcut	4116 - Mixed N. Hardwood - Aspen	Even-Aged	Draft Field Boundary
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**Habitat Cut: No****Site Condition:**

Prescription Final harvest. No retention due to harvest objectives, but incidental species may be left if found during timber sale prep.

Specs: Sign and protect dirtbike trail during all harvesting and hauling operations.

Next Step

Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable

Acceptable regeneration will meet minimum stocking requirements for hardwood and aspen in any composition.

Regen:

Other

Comment:

Proposed Start Date: 10/1 /2020

56	52158056-Cut	4.2	4139 - Aspen, Mixed Deciduous	Sawtimber Well	75	81-110	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	Draft Field Boundary
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**Habitat Cut: No****Site Condition:**

Prescription Final harvest following retention guidelines. Protect any apple trees found within harvest boundary.

Specs: Sign and protect dirtbike trail during all harvesting and hauling operations.

Next Step

Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable

Regeneration will meet minimum stocking requirements for aspen.

Regen:

Other

Update Site Conditions as appropriate.

Comment:

Proposed Start Date: 10/1 /2020

63	52158063-Cut	19.1	4112 - Maple, Beech, Cherry Association	Sawtimber Well	69	111- 140	Harvest	Single Tree Selection	411 - Northern Hardwood	Two-Aged	Draft Field Boundary
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**Habitat Cut: No****Site Condition:**

Prescription Selection harvest to 80 BA. Focus removal on double stems and lesser quality hardwood. Implement one canopy gap (minimum 100' diameter)

Specs: per four acres. Leave tops intact and scattered. Do not harvest any yellow birch or cherry.

Determine merchantability of beech at time of sale prep to see if it's salvageable at that point.

Observe woodland raptor guidelines. See Site Condition locked comments.

Sign and protect snowmobile trail during all harvesting and hauling operations.

Next Step

Monitoring, Natural Regen (Re-Inventory); Planting, Interplant

Treatments:

Acceptable

Acceptable regeneration in regen gaps will meet minimum stocking for northern hardwood species, not to exceed 25% beech.

Regen:

Other

Treatment should keep to the top of the north ridge. Follow recommendations from Fisheries Division for any harvest setback from Allen Creek.

Comment:

Proposed Start Date: 10/1 /2020





S t a n d	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Approval Status
69	52158069-Cut	39.1	4110 - Sugar Maple Association	Poletimber Well	84	111-140	Harvest	Crown Thinning	4119 - Mixed Northern Hardwoods	Even-Aged	Draft Field Boundary

**Habitat Cut: No****Site Condition:**

Prescription Marked thinning to 80 BA.

Specs: Keep treatment to the west of the dirtbike trail and sign and protect trail if crossed for access. Do not create canopy gaps. Determine marketability of beech during timber sale prep - cut all and mark some to leave for wildlife or select cut. Areas heaviest to beech may be included in the adjacent clearcut if appropriate. Sign and protect snowmobile trail.

Next Step

Treatments:

Acceptable

Regen:

Other This is a TSI job and will likely be a low-volume sale. Combine with clearcut to the west.

Comment:

Proposed Start Date: 10/1 /2020

71	52158071-Cut	60.1	4111 - S.Maple, Hard Mast Association	Poletimber Well	80	81-110	Harvest	Clearcut with Retention	4139 - Aspen, Mixed Deciduous	Even-Aged	Draft Field Boundary
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**Habitat Cut: No****Site Condition:**

Prescription Final harvest following retention guidelines. Sign and protect dirtbike and snowmobile trails during harvesting and hauling operations.

Specs:

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Acceptable regeneration will meet minimum stocking requirements for aspen with any inclusion of other deciduous species.

Regen:

Other It may be appropriate to focus retention along steep hillsides and/or with rec trail considerations in mind.

Comment:

Proposed Start Date: 10/1 /2020

74	52158074-Cut	20.2	42110 - Planted Red Pine	Sawtimber Well	57	141-170	Harvest	Crown Thinning	4211 - Planted Red Pine	Even-Aged	Draft Field Boundary
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**Habitat Cut: No****Site Condition:**

Prescription Marked thinning to 120 BA, accepting lower BAs in pre-existing lesser stocked areas. Protect apple trees in southeast.

Specs: Sunshine Trail should not be utilized for access/hauling or decking.

Next Step

Treatments:

Acceptable

Regen:

Other Be mindful of potential witness trees in the southeast and southwest corners.

Comment:

Proposed Start Date: 10/1 /2020

75	52158075-Cut	9.5	42110 - Planted Red Pine	Sawtimber Well	57	141-170	Harvest	Crown Thinning	4211 - Planted Red Pine	Even-Aged	Draft Field Boundary
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**Habitat Cut: No****Site Condition:**

Prescription Marked thinning to 120 BA, accepting lower BAs in pre-existing lesser stocked areas. Exclude northwest portion of stand for HAL potential,

Specs: maintaining a 50' buffer around site. Sunshine Trail should not be utilized for access/hauling or decking.

Next Step

Treatments:

Acceptable

Regen:

Other HAL Site Case # 20CN116 - requesting a 50' buffer around site.

Comment:

Proposed Start Date: 10/1 /2020





Stand Name	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Approval Status
93	52158093-Cut	8.9	4139 - Aspen, Mixed Deciduous	Sawtimber Well	57	81-110	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	Draft Field Boundary

**Habitat Cut: No**

**Site Condition:**

Prescription Final harvest. Sign and protect dirtbike trail during harvesting and hauling operations. Do not cut elm. Do not cut den or obvious wildlife trees.

Specs: Place retention pocket around Xlog BTA/log SM/BW in center of stand. Observe a 300' SMZ along Allen Creek per Wildlife recommendation.

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Regen: Acceptable regeneration will meet minimum stocking requirements for aspen. The inclusion of any hardwood or conifer species at any stocking level is acceptable.

Other Comment: Allen Creek Road becomes rather soft and has some seeps/drainages that can spill into the road. Recommend dry summer or frozen winter harvest.

Proposed Start Date: 10/1 /2020

94	52158094-Cut	22.2	4112 - Maple, Beech, Cherry Association	Poletimber Well	94	81-110	Harvest	Clearcut with Retention	4116 - Mixed N. Hardwood - Aspen	Even-Aged	Draft Field Boundary
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**Habitat Cut: No**

**Site Condition:**

Prescription Clearcut; do not cut yellow birch. Create retention pockets around sugar maple/basswood clumps as available. Mark or leave den trees (few BTA with cavities). Protect apple tree in west opening (do not cut).

Specs: Sign and protect dirtbike trail. Require 6" stump height to facilitate future reforestation treatments, if they become necessary. PROTECT CORNER AND WITNESS TREES. Either mark out an island (1/2 chain diameter) or mark leave trees to preserve the integrity of the corner and witness trees.

Next Step Monitoring, Natural Regen (Re-Inventory); SitePrep, Roller Chopping; Pesticide, Skidder - Site Prep; Seeding, Machine Seed; Monitoring, Treatments: Artificial Regen(1yr); Monitoring, Artificial Regen(3yr); Planting, Interplant; Planting, Initial Plant;

Acceptable Regen: Acceptable regeneration will meet minimum stocking requirements for mixed hardwood and aspen, NOT to exceed 40% beech.

Other Comment: Check powerline R/W. If regen fails, beech will likely need to be treated and site should be broadcast seeded with desirable hardwood/grass/forb species and/or interplanted with oak/conifer. MO will need to be reconsidered if natural regen fails to determine next steps.

Proposed Start Date: 10/1 /2020

400	52158400-NF	9.4	3102 - Grass	Nonstocked			Unspec NonForestMgt	Other - Specify	310 - Herbaceous Openland		Draft Field Boundary
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**Habitat Cut: No**

**Site Condition:**

Prescription Brush, mow, plant, burn and/or herbicide to maintain opening. Planting of hard and soft mast.

Specs: Sign and protect recreational trails during any and all management activities.

Next Step Treatments:

Acceptable Regen:

Other Comment:

Proposed Start Date: 10/1 /2020





S t a n d	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Approval Status
401	52158401-NF	1.6	320 - Upland Shrub	Nonstocked		Unspec ified	NonForestMgt	Other - Specify	310 - Herbaceous Openland		Draft Field Boundary
			<b>Habitat Cut: No</b>		<b>Site Condition:</b>						
<u>Prescription</u> Brush, mow, plant, burn and/or herbicide to maintain opening. Planting of hard and soft mast.											
<u>Specs:</u>											
<u>Next Step</u>											
<u>Treatments:</u>											
<u>Acceptable</u>											
<u>Regen:</u>											
<u>Other</u>											
<u>Comment:</u>											
<u>Proposed Start Date:</u>		10/1 /2020									
403	52158403-NF	4.1	3102 - Grass	Nonstocked		Unspec ified	NonForestMgt	Other - Specify	310 - Herbaceous Openland		Draft Field Boundary
			<b>Habitat Cut: No</b>		<b>Site Condition:</b>						
<u>Prescription</u> Brush, mow, plant, burn and/or herbicide to maintain opening. Planting of hard and soft mast.											
<u>Specs:</u>											
<u>Next Step</u>											
<u>Treatments:</u>											
<u>Acceptable</u>											
<u>Regen:</u>											
<u>Other</u>											
<u>Comment:</u>											
<u>Proposed Start Date:</u>		10/1 /2019									
404	52158404-NF	5.3	3102 - Grass	Nonstocked		Unspec ified	NonForestMgt	Other - Specify	310 - Herbaceous Openland		Draft Field Boundary
			<b>Habitat Cut: No</b>		<b>Site Condition:</b>						
<u>Prescription</u> Brush, mow, plant, burn and/or herbicide to maintain opening. Planting of hard and soft mast.											
<u>Specs:</u>											
<u>Next Step</u>											
<u>Treatments:</u>											
<u>Acceptable</u>											
<u>Regen:</u>											
<u>Other</u>											
<u>Comment:</u>											
<u>Proposed Start Date:</u>		10/1 /2019									
405	52158405-NF	2.9	3102 - Grass	Nonstocked		Unspec ified	NonForestMgt	Other - Specify	310 - Herbaceous Openland		Draft Field Boundary
			<b>Habitat Cut: No</b>		<b>Site Condition:</b>						
<u>Prescription</u> Brush, mow, plant, burn and/or herbicide to maintain opening. Planting of hard and soft mast.											
<u>Specs:</u>											
<u>Next Step</u>											
<u>Treatments:</u>											
<u>Acceptable</u>											
<u>Regen:</u>											
<u>Other</u>											
<u>Comment:</u>											
<u>Proposed Start Date:</u>		10/1 /2019									





S t a n d	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Approval Status
406	52158406-NF	1.8	3102 - Grass	Nonstocked		Unspec ified	NonForestMgt	Other - Specify	310 - Herbaceous Openland		Draft Field Boundary
<b>Habitat Cut: No</b>		<b>Site Condition:</b>									
<u>Prescription</u> Brush, mow, plant, burn and/or herbicide to maintain opening. Planting of hard and soft mast.											
<u>Specs:</u>											
<u>Next Step</u>											
<u>Treatments:</u>											
<u>Acceptable</u>											
<u>Regen:</u>											
<u>Other</u>											
<u>Comment:</u>											
<u>Proposed Start Date:</u> 10/1 /2019											
407	52158407-NF	1.3	3102 - Grass	Nonstocked		Unspec ified	NonForestMgt	Other - Specify	310 - Herbaceous Openland		Draft Field Boundary
<b>Habitat Cut: No</b>		<b>Site Condition:</b>									
<u>Prescription</u> Brush, mow, plant, burn and/or herbicide to maintain opening. Planting of hard and soft mast.											
<u>Specs:</u>											
<u>Next Step</u>											
<u>Treatments:</u>											
<u>Acceptable</u>											
<u>Regen:</u>											
<u>Other</u>											
<u>Comment:</u>											
<u>Proposed Start Date:</u> 10/1 /2019											
408	52158408-NF	1.4	3102 - Grass	Nonstocked		Unspec ified	NonForestMgt	Other - Specify	310 - Herbaceous Openland		Draft Field Boundary
<b>Habitat Cut: No</b>		<b>Site Condition:</b>									
<u>Prescription</u> Brush, mow, plant, burn and/or herbicide to maintain opening. Planting of hard and soft mast.											
<u>Specs:</u> Sign and protect recreational trails during any and all management activities.											
<u>Next Step</u>											
<u>Treatments:</u>											
<u>Acceptable</u>											
<u>Regen:</u>											
<u>Other</u>											
<u>Comment:</u>											
<u>Proposed Start Date:</u> 10/1 /2019											
409	52158409-NF	1.7	3102 - Grass	Nonstocked		Unspec ified	NonForestMgt	Other - Specify	310 - Herbaceous Openland		Draft Field Boundary
<b>Habitat Cut: No</b>		<b>Site Condition:</b>									
<u>Prescription</u> Brush, mow, plant, burn and/or herbicide to maintain opening. Planting of hard and soft mast.											
<u>Specs:</u> Sign and protect recreational trails during any and all management activities.											
<u>Next Step</u>											
<u>Treatments:</u>											
<u>Acceptable</u> G type											
<u>Regen:</u>											
<u>Other</u>											
<u>Comment:</u>											
<u>Proposed Start Date:</u> 10/1 /2019											



S t a n d	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Approval Status
410	52158410-NF	1.8	3102 - Grass	Nonstocked		Unspec ified	NonForestMgt	Other - Specify	310 - Herbaceous Openland		Draft Field Boundary

**Habitat Cut: No**

**Site Condition:**

Prescription Brush, mow, plant, burn and/or herbicide to maintain opening. Planting of hard and soft mast.

Specs: Sign and protect recreational trails during any and all management activities.

Next Step

Treatments:

Acceptable

Regen:

Other

Comment:

Proposed Start Date: 10/1 /2019

411	52158411-NF	1.3	3102 - Grass	Nonstocked		Unspec ified	NonForestMgt	Other - Specify	310 - Herbaceous Openland		Draft Field Boundary
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**Habitat Cut: No**

**Site Condition:**

Prescription Brush, mow, plant, burn and/or herbicide to maintain opening. Planting of hard and soft mast.

Specs: Sign and protect recreational trails during any and all management activities.

Next Step

Treatments:

Acceptable G type

Regen:

Other

Comment:

Proposed Start Date: 10/1 /2019

**Total Treatment  
Acreage Proposed: 263.6**



## Report 4 – Site Conditions

Gaylord Mgt. Unit

Compartment: 158

Tricia St. Pierre : Examiner

Year of Entry: 2021

### Availability for Management

Total Acres	Acres Available	Acres Avail		Acres Not Available	Dominant Site Conditions										
		With Condition			2B	5B	5C	1C	2F	2G	3B	3G	3J	5E	
614	590	<b>4</b>		19	Aspen		<b>4</b>			0	3			16	0
49	1	<b>0</b>		48	Cedar					0	48			0	
60	60	<b>0</b>		0	Herbaceous Openland						0				0
2	2	<b>0</b>		0	Low-Density Trees										
26	0	<b>0</b>		26	Lowland Aspen/Balsam Poplar						26			0	
8	0	<b>0</b>		8	Lowland Conifers						8			0	
7	0	<b>0</b>		7	Lowland Deciduous						7				
3	3	<b>0</b>		0	Marsh						0			0	
8	8	<b>0</b>		0	Mixed Upland Deciduous										
1660	1620	<b>18</b>		23	Northern Hardwood	<b>15</b>	<b>3</b>		5	2	1	7	0	3	5
5	1	<b>0</b>		3	Paper Birch						3				
9	0	<b>9</b>		0	Planted Mixed Pines			<b>9</b>							
33	32	<b>0</b>		2	Red Pine								2		
74	74	<b>0</b>		0	Upland Mixed Forest										
2	2	<b>0</b>		0	Upland Shrub		<b>0</b>								
36	36	<b>0</b>		0	Urban										0
2,595	2,428	<b>31</b>		136	Total Forested Acres	<b>15</b>	<b>7</b>	<b>9</b>	5	2	96	7	2	19	5
	94%	<b>1%</b>		5%	Relative Percent										

*\*Due to limitations in the current Site Conditions Analysis tool, all nonforested acres are considered available. Future development will enable analysis of nonforested types.*

Site No.	Dominant Site Cond Availability	Dominant Site Condition	Acres	Other Site Condition	Other Site Condition	Other Site Condition	Other Site Condition
1	Unavailable	1C: Other dept or div proc/practices	5	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Walters Research Project: Long-term beech regeneration monitoring, up to 20 years (through 2039)							
2	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	3	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							

## Report 4 – Site Conditions

Gaylord Mgt. Unit

Tricia St. Pierre : Examiner

Compartment: 158

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3	<b>Unavailable</b>	<b>3B: Threatened, endangered, and special concern species</b>	4	2G: Too wet (sensitive soils, does not include access issues)	3J: Water quality / BMPs (stream, river, or lake)	Unspecified	Unspecified
<b>Comments:</b> Extremely fragile, saturated soils dominated by red maple and yellow birch with an inclusion of cedar. Seeps contribute to the headwaters of Allen Creek.							
4	<b>Unavailable</b>	<b>3J: Water quality / BMPs (stream, river, or lake)</b>	1	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
5	<b>Unavailable</b>	<b>2F: Too steep</b>	2	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Not necessarily too steep for operating, but there's no solid bottom to this hill; no place for equipment to anchor at the bottom. Therefore inoperable.							
6	<b>Unavailable</b>	<b>3G: Other Influence zones - See comments</b>	2	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Potential HAL site reported 4/22/19. CASE # 20CN116 - requesting a 50' minimum buffer around site.							
7	<b>Unavailable</b>	<b>3G: Other Influence zones - See comments</b>	0	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Section corner and witness trees.							
8	<b>Unavailable</b>	<b>2G: Too wet (sensitive soils, does not include access issues)</b>	17	5A: Not able to obtain desirable regeneration	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							



## Report 4 – Site Conditions

Gaylord Mgt. Unit

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9	<b>Unavailable</b>	<b>3J: Water quality / BMPs (stream, river, or lake)</b>	2	2G: Too wet (sensitive soils, does not include access issues)	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Stream corridor							
10	<b>Unavailable</b>	<b>2G: Too wet (sensitive soils, does not include access issues)</b>	6	5A: Not able to obtain desirable regeneration	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
12	<b>Unavailable</b>	<b>5E: Long-Term Retention</b>	5	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Identified as long term retention for stand 32.							
13	<b>Unavailable</b>	<b>2G: Too wet (sensitive soils, does not include access issues)</b>	3	3J: Water quality / BMPs (stream, river, or lake)	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
14	<b>Unavailable</b>	<b>2G: Too wet (sensitive soils, does not include access issues)</b>	3	3J: Water quality / BMPs (stream, river, or lake)	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Small streams through stand; saturated soils in spots.							
15	<b>Available</b>	<b>5C: Delay treatment for age/size class diversity or exceptional site quality</b>	9	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Small acreage and a developing understory. Treat with adjacent stand 15 (UM9) in the next entry cycle.							

## Report 4 – Site Conditions

Gaylord Mgt. Unit

Tricia St. Pierre : Examiner

Compartment: 158

Year of Entry: 2021

16	<b>Available</b>	<b>5B: Maintain for regeneration purposes</b>	3	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Nice sapling/pole regeneration under a lesser stocked mature hardwood canopy.							
19	<b>Unavailable</b>	<b>2F: Too steep</b>	0	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
22	<b>Unavailable</b>	<b>3J: Water quality / BMPs (stream, river, or lake)</b>	1	2G: Too wet (sensitive soils, does not include access issues)	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Drainage previously harvested right up to the edge. Some rutting and wind-damage after operations. Do not harvest and consider leaving a swath of vegetation the next time this stand is harvested.							
23	<b>Unavailable</b>	<b>2G: Too wet (sensitive soils, does not include access issues)</b>	5	3J: Water quality / BMPs (stream, river, or lake)	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Allen Creek and seeps contributing to Allen Creek.							
24	<b>Available</b>	<b>5B: Maintain for regeneration purposes</b>	1	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b>							
25	<b>Available</b>	<b>5B: Maintain for regeneration purposes</b>	3	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> This is a very soggy area with seeps, lowland species. Drainage flows north, contributing to the West Branch of the Sturgeon River.							



## Report 4 – Site Conditions

Gaylord Mgt. Unit

Tricia St. Pierre : Examiner

Compartment: 158

Year of Entry: 2021

27	<b>Unavailable</b>	<b>3B: Threatened, endangered, and special concern species</b>	3	Unspecified	Unspecified	Unspecified	Unspecified
<b>Comments:</b> 5 chain primary zone.							
41	<b>Unavailable</b>	<b>3J: Water quality / BMPs (stream, river, or lake)</b>	2	2F: Too steep	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Stand may be too steep in areas, but more importantly, there's a very soft drainage at the bottom of this hillside which would complicate operating on this north-facing slope. Seeps towards the bottom of the hill.							
43	<b>Unavailable</b>	<b>2G: Too wet (sensitive soils, does not include access issues)</b>	4	3J: Water quality / BMPs (stream, river, or lake)	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Seeps and drainage contributing to the West Branch of the Sturgeon River.							
47	<b>Unavailable</b>	<b>2G: Too wet (sensitive soils, does not include access issues)</b>	15	3J: Water quality / BMPs (stream, river, or lake)	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Drainage contributes to Allen Creek.							
48	<b>Unavailable</b>	<b>2G: Too wet (sensitive soils, does not include access issues)</b>	4	3J: Water quality / BMPs (stream, river, or lake)	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Allen Creek and contributing seeps.							

## Report 4 – Site Conditions

Gaylord Mgt. Unit

Tricia St. Pierre : Examiner

Compartment: 158

Year of Entry: 2021

51	<b>Unavailable</b>	<b>3J: Water quality / BMPs (stream, river, or lake)</b>	13	2G: Too wet (sensitive soils, does not include access issues)	5B: Maintain for regeneration purposes	3L: Other wildlife concerns	Unspecified
<b>Comments:</b> Stand is sloped with very sensitive soils throughout with a drainage at the bottom of the slope. Seeps contributing to Allen Creek. Past beaver activity and higher quality regeneration under lesser quality canopy + soils leads to this site condition.							
53	<b>Unavailable</b>	<b>2G: Too wet (sensitive soils, does not include access issues)</b>	3	3J: Water quality / BMPs (stream, river, or lake)	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Allen Creek							
54	<b>Unavailable</b>	<b>2G: Too wet (sensitive soils, does not include access issues)</b>	4	3J: Water quality / BMPs (stream, river, or lake)	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Headwaters to Allen Creek; Allen Creek.							
61	<b>Unavailable</b>	<b>2G: Too wet (sensitive soils, does not include access issues)</b>	29	3J: Water quality / BMPs (stream, river, or lake)	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Very fragile soils, extremely high water table. Stand provides a great wildlife corridor. Headwaters to Allen Creek.							
84	<b>Available</b>	<b>2B: Unknown if access through adjacent landowner(s) is possible</b>	15	2I: Survey needed	Unspecified	Unspecified	Unspecified
<b>Comments:</b> Difficult terrain (east half), small acreage, limited access, corners need research with county lines and private parcels not jiving.							



Mgt. Unit

Compartment: #Type!

Year of Entry:



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

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

SCA Name	SCA Category	Detail Type	Recommendation	Acres
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Comments



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

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

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

Conservation Area	Type	Description
SCA	Cold Water Stream	A coldwater stream has temperature and dissolved oxygen conditions that allow naturally-reproduced or stocked trout populations and those of other coldwater fish species (e.g., slimy sculpin) to persist from year to year. Coldwater streams in Michigan typically provide these conditions due to substantial contributions of groundwater to their stream flows. Such streams are established by Director's action and designated as trout resources by Fisheries Order 210.
SCA	Riparian Area	A transitional area between aquatic and terrestrial ecosystems in which the terrestrial ecosystem influences the aquatic ecosystem and vice-versa. Because of the unique conditions adjacent to lakes, streams and open water wetlands, riparian areas harbor a high diversity of plants and wildlife. Riparian communities are ecologically and socially significant in their effects on water quality and quantity, as well as aesthetics, habitat, bank stability, timber production, and their contribution to overall biodiversity.





Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																															
1	4111 - S.Maple, Hard Mast Association	Sawtimber Medium	31.0	91	51-80	N/A	Stand thinned as part of Santas Helper Hardwood Sale in spring/summer 2015. All ash and beech were removed. A lot of good regen, but I'm afraid it won't recruit. Beech, ironwood, and white ash still dominated for lack of browsing; striped maple, too. Clumpy striped maple and maple leaved viburnum. One staghorn sumac found, gps'd. One paper birch; few dead standing white ash.																																																															
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2	6119 - Mixed Lowland Deciduous Forest	Poletimber Medium	2.6	84	51-80	N/A	Seeps through entire stand. Very, very wet. Old stumps, burn scars. Low productivity across the site. More black spruce saps in south. Slow growing, self-perpetuating stand of red maple and yellow birch. Saw one tiny, browsed cedar trying to regenerate. Trace amounts of white pine, alternate leaved dogwood, serviceberry, alder, elderberry, cattails, and striped maple - not enough to mention in subcanopy data.																																																															
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3	4130 - Aspen	Poletimber Well	1.7	36	81-110	N/A	Stand occupies a hilltop and hillside, dropping steeply into a cedar swamp. Approximately 30' vertical on the northeast slope. Slight taper on east end into a wet drainage. Larger diameters on hill top; sapling/pole dominated on north aspect. More red maple in east and on north aspect. Clearcut complete 1/1983 (52-040-81A).																																																															
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<b>4</b>	6120 - Lowland Cedar	Sawtimber Well	16.7	86	81-110	N/A	<p>This stand is full of seeps and small streams/channels. Very wet stand with a spongy mat, water table inches beneath mat. E. scripoides and sphagnum groundcover, scattered. Intermittent white cedar with pockets of balsam fir/black spruce/red maple; few pockets of scattered tamarack. West end is smaller diameter pole/sap, rest of stand is scattered log/pole, occasional sap and Xlog in canopy. WP is &lt;1%, but should be mentioned in canopy.</p> <p>Trace alternate leaved dogwood (north edge), yellow birch, hazelnut (edge).</p> <p>Country Road Commission has dug out the diversion ditch on the north side of this stand, south of the road.</p> <p>A couple spots on the edges of this stand are two-aged where they were able to run equipment in to harvest aspen in 1985. Result is pole red maple, aspen, balsam fir.</p> <p>Deer, coyote, hare tracks in/around this stand.</p>																																																																				
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<b>5</b>	6112 - Lowland Aspen	Poletimber Well	3.4	36	51-80	N/A	<p>Heavy browsing on understory. Southwest is a seep with one yellow birch, two paper birch, increased hazelnut, one white spruce. Trace basswood in canopy.</p> <p>Lot of deer tracks through this stand.</p> <p>Seeps and small channels through stand.</p> <p>Clearcut complete 1/1983 (52-040-81A).</p>																																																																				
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<b>6</b>	4116 - Mixed N. Hardwood - Aspen	Sawtimber Well	3.9	88	81-110	N/A	<p>Stream corridor through west 1/3 of stand.</p> <p>Stand is sort of a catch-all. Low BA, lower quality, but developing.</p> <p>East quarter is dominated by multi-stemmed red maple, then begins to mix with sugar maple and quaking aspen, then includes basswood. Far west and into the south leg is more basswood, sugar maple, aspen, balsam fir. Saw one red oak (pole), trace yellow birch (P/S), hemlock (P).</p> <p>High balsam fir regen in far west/southwest triangle.</p> <p>Trace beech and gooseberry in subcanopy.</p>																																																																				
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7	4130 - Aspen	Poletimber Well	11.6	36	51-80	N/A	<p>Clearcut in 1983: all trees with a 100" pulp stick or more. 52-040-81A. Some old beaver damage. Trace pin cherry. Scattered white ash, affected by EAB.</p> <p>Paper birch, yellow birch along drainage in west. Few low, wet drainages throughout stand. Wet areas are dominated by quaking aspen with red maple, paper birch, yellow birch.</p> <p>Couple pockets in the east are 8" pole/log bigtooth. Northeast is rather hilly and I suspect better soil quality.</p> <p>Ironwood (2" dbh) is much more prevalent in the extreme northeast tip as the stand drops back down.</p>																																																												
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8	6129 - Mixed Coniferous Lowland Forest	Poletimber Well	5.6	36	51-80	N/A	<p>Stand might have originated in the 1930s, but current stocking is a highly variable mix of species, diameters, ages, and densities, resulting in a multi-aged stand. It's a real hodgepodge of vegetation. Very clumpy, inconsistent densities of larch, fir, black spruce, and cedar. Far north tip is sap/pole larch/spruce/fir; far west tip is open black spruce/fir/larch/cedar sap/pole. Center of stand is clumpy and variable. Very active springs through stand. Some cedar regen &gt;20' where present with heavy browsing on lower limbs. Seed/sap cedar is also browsed to nothing.</p> <p>Alder occasionally mixes in with sapling canopy in far north. Some very impressive scattered stumps. You'd need to walk through this whole stand (however small) to appreciate its complexity.</p> <p>Treatment in 1983 may or may not have affected this stand. It was a clearcut of all trees with a 100" pulp stick or more. 52-040-81A.</p>																																																												
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9	4110 - Sugar Maple Association	Sawtimber Well	98.6	86	81-110	N/A	<p>Stand thinned as part of Santas Helper Hardwoods in spring/summer 2013. All ash and most of the beech were removed.</p> <p>Northeast edges of the west half include yellow birch and some red maple. East edge of west half (along stand 7 and a bit north) is very wet. It's a drainage that feeds into the Q-types to the north. A drainage also divides the north part of this stand and stand 1, to the west. Equisetum, elm, elderberry, yellow birch, and maidenhair fern.</p> <p>Basswood regen increases in this stand compared to stand 1. Some rather dense white ash regen in spots. Found one autumn olive and pulled it, but there could be more. Under more dense canopy closure, regen is MLV, white ash, ironwood; lower density closure, regen is beech and/or ironwood/beech/rubus. Red oak saps have been continuously browsed; sugar maple, too. Many areas dominated by sugar maple pole.</p> <p>Northeast portion of this stand includes quite a bit of red maple in the canopy and high beech regen; trace balsam fir and red maple saps.</p> <p>Northeast could be a new stand. One multi-stemmed black cherry. Trace quaking aspen.</p> <p>Treatment in 1983 may or may not have affected the northeast boundaries of this stand. It was a clearcut of all trees with a 100" pulp stick or more. 52-040-81A.</p>																																																												
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<b>10</b>	4199 - Other Mixed Upland Deciduous	Sawtimber Well	5.8	69	51-80	N/A	Trace balsam fir, ironwood, and red maple in canopy. One white spruce in subcanopy. Lots of sugar maple germination, browsed <1'. Fairly variable composition for being such a small stand. Low quality aspen, much nicer hardwoods.																																																						
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<b>11</b>	4130 - Aspen	Sawtimber Well	0.7	56	141-170	N/A	Trace elm in canopy, <1%.																																																						
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<b>12</b>	3103 - Rubus-Fern	Nonstocked	5.5		Unspecified	No	One elm in far west on perimeter; multistemmed, log. One balsam fir sap 5-10'. Two tracks going through stand. Dense bracken in east and west, scattered semi-dense rubus, and consistent knapweed throughout.																																																						
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<b>13</b>	4119 - Mixed Northern Hardwoods	Poletimber Well	20.5	81	51-80	N/A	Browsed regen. 1 white spruce sap; trace white ash (dead), beech (dying), and red pine (on east perimeter adjacent to cc) in canopy. Few sapling (nearly pole) white ash coming up. Areas of sugar maple seedlings <1'. Old railroad bed sort of parallels road. Dirtbike trail present. Very heavy to ironwood sap/pole in center of the stand.																																																																												
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<b>14</b>	4110 - Sugar Maple Association	Sawtimber Well	114.2	84	81-110	N/A	Majority of the stand was interplanted with red, white, and jack pine in 1939. Salvage occurred in the northernmost extent in 1983. Some dead white ash still in canopy. Basswood suckers have heavy browsing. Rather undesirable regeneration at and above browse height, but there are a few sugar maple saplings suppressed in the subcanopy (>10'). Overstory beech and regen are inconsistent but somewhat dense in clumps, especially the regen along the south edge of the stand, adjacent to the clearcut where sunlight reaches the forest floor. Striped maple is a strong associate of beech. Much higher concentrations of beech in the far north-northwest just south of the road, also.																																																																												
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<b>15</b>	4319 - Mixed Upland Forest	Sawtimber Well	39.0	80	81-110	N/A	Hardwood vein in north central portion of stand is dominated by poles. Few balsam fir, white pine in subcanopy, otherwise it's ironwood and sugar maple. QA as well as BAM in canopy. Dead standing white ash. Rare balsam fir, red maple, red oak in subcanopy. Big ol' porcupine living in the west bubble. Red, white, and jack pine planted in 1939.																																																																												
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<b>16</b>	4119 - Mixed Northern Hardwoods	Sawtimber Well	35.9	80	81-110	N/A	Trace amounts of bigtooth aspen and ironwood in canopy. Rare balsam fir, white pine in subcanopy. 1 white spruce pole, 6". A lot of multistemmed hardwood; lower quality, but a few decent crop trees. Pretty bad BBD with snap and mortality. BAs vary, 60-120, more consistently 70-100. Couple steep but short hill sides on the north edge of the stand leading into stand 14. Red, white, and jack pine planted in 1939.																																																							
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<b>17</b>	4139 - Aspen, Mixed Deciduous	Poletimber Well	117.1	26	Immature	N/A	Clearcut complete in 1993 as 357 Quillpuff, 52-008-91-01. SCOTCH PINE AND AUTUMN OLIVE PRESENT (rare). BBD and EAB already present in beech and ash saplings/poles, respectively. Hardwood pockets are dominated by sugar maple, ironwood, white ash. A lot of areas are still in the 4" (sapling) class; hardwood is still in the 2-4" class. Much of the hardwood intermixed with the aspen has become suppressed in the understory, 5-10' below aspen canopy. Landings are now small openings with varying vegetation. Aside from one observed residual red pine, the openings are the only places where red pine has regenerated (and very few red pine at that). Openings are largely dominated by bracken, raspberry, and honeysuckle. Autumn olive present in the north-central landing and also found along some of the old skid trails. Rare basswood, red oak, balsam fir, red pine, scotch pine, white pine, autumn olive, honeysuckle, bracken fern, partridgeberry, beer cans, helleborine in subcanopy. Areas of prominent beech regen. One red oak pole in northwest. Red oak seedlings pick up in NW, also.																																																							
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<b>18</b>	4110 - Sugar Maple Association	Poletimber Well	24.3	62	81-110	N/A	Trace amounts of elm, aspen, and ironwood in canopy. Also rare elm, maple leaved viburnum, balsam fir, and white spruce in the subcanopy. One dense clump of beech regen, otherwise it's scattered in a low density. Dead standing white ash in canopy. Some pole red oak in the northwest.																																																							
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<b>19</b>	4110 - Sugar Maple Association	Sawtimber Well	118.5	81	81-110	N/A	This stand was marked and thinned (completed 12/29/2015 - Sunshine Hardwood, 52-126-11-01). Residual BA is 75. Good sugar maple regeneration in spots (seedlings <1'), but heavy browsing pressure. Pretty nice residual trees but regeneration is undesirable. More beech residual in north bubble (the west one). North and east leg is lesser quality and much heavier to pole timber. Dense beech in areas, dense ironwood in others. Couple red oak seedlings; one hemlock; one black cherry; thistle, bedstraw, grass. Basswood stump sprouts might have a future. Otherwise it's beech, ironwood, and ash for this stand. BAs range 60-130 after harvest.																																																
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<b>20</b>	4199 - Other Mixed Upland Deciduous	Sapling Well	1.8	28	Immature	N/A	Stand was clearcut in 1991. Pole ironwood, quaking aspen on south perimeter. Lots of red maple and cherry in the northeast; significant beech component in the northwest; south is dominated by ironwood and aspen. One yellow birch, 3" dbh.																																																
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<b>21</b>	4110 - Sugar Maple Association	Sapling Well	1.3	41	1-50	N/A	Crazy sugar maple regeneration. SM present in S/P, but could not record as such in order to include the XL/L sugar maple class. XL sugar maple are in the west and likely provided the seed source for such dense SM regen. One paper birch 5". NW whale tale is all sapling, 2".																																																
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<b>22</b>	4110 - Sugar Maple Association	Sawtimber Well	48.9	112	81-110	N/A	PU1 of LBW HDWDS 52-113-01-01, completed in 2005. Oddly the oldest stand in this compartment by nearly 30 years. Portions of this stand might be a bit younger, but it's a little curious. Some M3/M6 inclusions on the west edge of this stand. Trace white spruce, paper birch (one by stand 89), red maple, bigtooth aspen, and elm. More Xlog SM in south and along west edge. Fair amount of dead white ash, especially in the south half. More beech in the east, otherwise it's scarce. Some very nice sugar maple in the 14-16" dbh classes. Extreme southeast (east of two track) has smaller diameters and has a higher percentage of poles; more ironwood. A lot of regen from 2005 harvest is around 10', dominated by ironwood. Beech is medium in areas, overall low. Fairly well developed, although undesirable, subcanopy. Some areas do have a decent amount of sugar maple saplings, though mostly poor form (few ok). Decent SM saps >20', too. Gooseberry and elderberry only present in the southeast.																																																
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<b>23</b>	4110 - Sugar Maple Association	Sapling Well	1.0	33	Immature	N/A	Nice sugar maple regeneration. One lone sumac, one scotch pine.																																																							
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<b>24</b>	4130 - Aspen	Sawtimber Well	0.8	57	111-140	N/A	Poor quality aspen clone, just coming into log class. East has larger diameters, expanding westward (smaller diameters towards west). One basswood sap <5', one balsam fir sap <5'.																																																							
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<b>25</b>	330 - Low-Density Trees	Nonstocked	1.2		Unspecified	No	Stand could be inventoried as a forested stand. Sapling/pole scotch pine should be removed. Aspen/hardwood clump along R/W, log-sized. Scattered sap/pole black cherry.																																																							
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<b>26</b>	4110 - Sugar Maple Association	Sawtimber Well	86.9	77	81-110	N/A	Selection complete 8/2014: DC Hardwood, 52-127-11-01. Dead ash and beech. Trace bigtooth and elm in canopy. BAs vary slightly by terrain, but commonly 70-90. The north end of this stand is full with beech saplings (with striped maple) which gradually transitions to high, then to medium in the far south. Sugar maple seedlings are very common in the south, but will not escape browsing. Far north tip has trace red pine and white pine in canopy. Some Xlog sugar maple, basswood age >100.																																																							
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<b>27</b>	4130 - Aspen	Sapling Well	18.8	17	Immature	N/A	PU1 of Last Best Aspen, 52-111-01-01. Completed in 2002. Rare occurrences of bracken fern, striped maple, maple leaved viburnum, and elderberry. Couple scattered hardwood pockets. More cherry in north. Came across red oak leaves but couldn't find the tree. Trace red pine and white pine saps in landing. Landing is full of rubus, ironwood, knapweed. Remove autumn olive.																																																																												
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<b>28</b>	4130 - Aspen	Poletimber Well	110.3	34	Immature	N/A	Buckthorn on north edge. South half is more consistently aspen; north half is aspen with pockets of mixed hardwood (dominated by sapling ironwood, sugar maple, white ash). Good amount of pole sugar maple interspersed amongst aspen, though 2" sapling when in pockets of dense hardwood. Sugar maple regen is high in areas, though consistently medium stocking. Trace elm. Black cherry, fir, and pine (red and white) are deceptively "common" along the north edge of this stand, but are rare or altogether absent from the rest of the stand. Potential for moist draw moving intermittently from south to north - observable changes in vegetation. Harvest complete in 1985.																																																																												
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<b>29</b>	42141 - Planted Mixed Pine, Mixed Deciduous	Sawtimber Medium	8.9	80	111-140	N/A	OPIC - FMD: THIS STAND HAD MOST OF THE MERCHANTABLE HARDWOOD REMOVED IN CONJUNCTION WITH THE 1982 HARVEST (cut in 1985) OF THE ADJACENT ASPEN STAND. THIS HAS RESULTED IN A TWO-AGED STAND. ACTUALLY IT TURNED OUT PRETTY WELL. Red, white, jack pine planted in 1939. Little bit of red pine mortality along powerline and a couple interior pockets. There are some nicely developed sugar maple saplings/poles in understory, though the regeneration is largely dominated by ironwood saps. More open canopy (25-50%) in south with better developed pole/log/sap hardwood understory. BAs are variable, 30 (in south) to 170 with multi-stemmed sugar maple. Average is around 110.																																																																												
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<b>30</b>	4117 - Mixed N. Hardwood - Pine	Poletimber Well	8.2	86	81-110	N/A	RP/WP inter-planted in 1939. Sugar maple aged at 86 years old; sm in southeast disturbed area aged at 60. Med-High ironwood regen. Trace beech, ironwood in canopy. Trace elm in south. One striped maple in southwest. One beautiful log oak on west perimeter. Far north is more log hardwood. East 1/4 is pole/sap dominated with minimal pine. aged at 60. Depression in southeast (trace RP/WP saps on edge). Overstory age (in east) and depression coincide nicely with the construction of I-75, suggesting that this area was utilized/disturbed during construction. OPIC - FMD: I BELIEVE THAT THIS STAND SHOULD BE SELECTIVELY MANAGED LONGTERM FOR HARDWOOD ALONG WITH THE ADJACENT STANDS. A SMALL MANMADE DEPRESSION EXISTS IN THIS STAND - I BELIEVE IT MAY HAVE BEEN CREATED FOR DRAINAGE OFF OF THE ADJACENT HIGHWAY.																																																																																	
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<b>31</b>	4110 - Sugar Maple Association	Poletimber Well	15.5	68	81-110	N/A	Some past TSI work in 1984. A lot of ironwood and some sugar maple regen is 35 years old as a result of this thinning. West and southern portions of this stand are coming into Log sized hardwood. Northeast is still pole dominated. A lot of poles throughout entire stand. White pine X/L on east edge of stand, along highway R/W. Leatherwood in northeast. Beech regeneration is most prominent in the portion of this stand west of Old Sturgeon Road and in the southern third of the portion east of Old Sturgeon Rd.																																																																																	
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<b>32</b>	4139 - Aspen, Mixed Deciduous	Sapling Well	37.2	6	Immature	N/A	Stand final harvested in June of 2013 as part of Perry Road CC (52-106-11-01). Clearcut except cedar and pine. Drainage through stand supports cedar, red maple (pole), trace elm, quaking aspen (log/pole) (residual) with cattails, bullrush, dogwood, willow, and some ferns. A small buffer might have been appropriate along the drainage. There's some cedar blowdown from exposure and a little bit of rutting. Spotted knapweed in landings, trails, openings. A lot of bird nests in saplings. Sugar maple is keeping up with aspen in a lot of places, but will likely be outcompeted before the next cycle. Areas dominated by hardwood are composed largely by sugar maple, ironwood, and pin cherry. More beech in northwest. West portion of stand is similar to what's east of the powerline, but 75% closure, more QA, more ironwood, less bigtooth. Also two red oak saplings. This western portion may be split from the stand during the next inventory cycle depending on how well it continues to regenerate.																																																																																	
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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**33** 310 - Herbaceous Openland Nonstocked 3.0 Unspecified No Powerline and road dissect stand, Encroaching deciduous trees, few conifers. Most trees are present in various size classes.

Canopy Species	Density	Avg. Height	Size
Staghorn Sumac	Trace	5 - 10 feet	Tall Shrub
Aspen (spp.)	Low	5 - 10 feet	Sapling
Basswood	Trace	Variable	Sapling
Balsam Fir	Trace	Variable	Sapling
Black Cherry	Medium	Variable	Sapling
Beech	Trace	5 - 10 feet	Sapling
Bracken Fern	Medium	Unspecified	Non-Wood
Red Pine	Low	Variable	Sapling
Scotch Pine	Trace	5 - 10 feet	Sapling
American Elm	Trace	>20 feet	Log
White Pine	Low	Variable	Sapling
Spotted Knapweed	High	Unspecified	Non-Wood
Wild Bergamont	Trace	Unspecified	Non-Wood
Blackberry/Raspberry	Trace	< 5 feet	Tall Shrub
Ironwood	Trace	Variable	Sapling

**34** 4110 - Sugar Maple Association Sawtimber Well 42.3 83 81-110 N/A Thinning complete on north portion of this stand in 1993 as Edlin Thin, 52-015-91-01. Scattered dead white ash and elm. Swale in southwest is dominated by ironwood (sap/pole), sugar maple (sap), white ash (sap/pole), elm (pole), and trace quaking aspen. Advanced regeneration throughout the majority of the stand is limited to ironwood (a lot of saplings 10 less than 20', greater than 20') and some sugar maple (greater than 20'). White ash is generally less than 5' and patchy. Trace maple leaved viburnum and striped maple. North end of stand drops down, becoming very hilly. Trace yellow birch (P/L) in north. Trace black cherry, primarily in north. Few scattered beech throughout stand.

Canopy Species	% Cover	Size Class	DBH	Age
Sugar Maple	55	Log/Pole	10	83
Basswood	42	Log/Pole	10	

Canopy Species	Density	Avg. Height	Size
Ironwood	High	Variable	Sapling
Sugar Maple	Low	>20 feet	Sapling
White Ash	Low	< 5 feet	Sapling
Beech	Low	Variable	Sapling
Balsam Fir	Trace	Variable	Sapling
Leatherwood	Trace	< 5 feet	Tall Shrub

Southeast around G0 is lesser quality. There's an approximately 1 acre inclusion immediately adjacent to the G0 of sap/pole IW/SM/QA.BTA/BC/AE.





Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																																			
<b>35</b>	4119 - Mixed Northern Hardwoods	Poletimber Well	23.8	79	51-80	N/A	Leatherwood in north only. Trace alternate leaved dogwood on the extreme northwest edge adjacent to road. Trace red oak (one log, one sap), trace blach cherry and elm. Stand has the appearance of being two-aged (fairly distinct log and pole classes), but I cored multiple trees and they all ranged from 75-90 years old. Scattered aspen clones falling out and giving way to better quality hardwood. South tip is low quality multi-aged sm/bw/qa/ae/bc/ab/iw with an ironwood and serviceberry understory; few stumps from previous harvest, perhaps part of 1984 thinning. Low site index, improving greatly in the north.																																																																			
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<b>36</b>	4110 - Sugar Maple Association	Poletimber Well	1.4	93	51-80	N/A	THIS WAS PREVIOUSLY A ROADSIDE PARK OPERATED BY THE HIGHWAY DEPARTMENT THAT HAS BEEN CLOSED SINCE THE EARLY 1960'S. THERE IS STILL A WOODEN PAVILLION LEFT OVER FROM THOSE DAYS SITUATED ALONG THE NORTHWESTERN EDGE OF STAND #42.																																																																			
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<b>37</b>	4110 - Sugar Maple Association	Sawtimber Well	67.0	83	81-110	N/A	Dead ash, elm. Trace white pine in canopy in west (XL/L). One hemlock (pole), few balsam fir (sap), couple white spruce (sap/pole). BAs vary 60-170, commonly around 100. This stand is not the traditional "uneven aged" that we've defined, but there are multiple age classes and disturbance histories represented here. The stand originated from the 1920s or '30s, and had seen logging and fire before that. Since then, there has been grazing (in the '40s) and some selective management, possibly elm salvage or a small fuelwood sale. The stand is scattered with a few aspen clones, a couple draws with black cherry, and scattered surviving elm, beech. Some hills, but operable for the most part. OPIC - FMD: THERE ARE OLD ORANGE MARKED TREES IN THE NORTH PORTION OF THIS STAND LEFT OVER FROM A 1980 TIMBER SALE THAT WAS NEVER SOLD. THIS STAND HAS SOME HILLS THAT WILL POSE A CHALLENGE BUT IT SHOULD BE OPERABLE. JUST NOT ENOUGH BASAL AREA YET TO WARRANT A THINNING,																																																																			
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39	4139 - Aspen, Mixed Deciduous	Sawtimber Well	1.1	54	51-80	N/A	Moderate quality aspen clone surrounded by low quality, multi-stemmed hardwood. No history of previous management, but there was a grazing lease in this 40 in the 1940s, so grazing cessation could account for the age of this stand. There's an old two track along the south edge of the stand that was probably used historically as logging access.																																																										
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40	4110 - Sugar Maple Association	Poletimber Well	3.1	78	51-80	N/A	Stand occupies a knob with a steep north slope and a moderate south slope. Significant amount of dead white ash, especially in the north and west; a lot on the north aspect of the hill. Stand becomes more log-sized in the east/southeast, dominated by sugar maple and basswood with slightly higher BAs. Lots more MLV in the east. One dead yellow birch. Woodland sedge on south aspect. Linear strip of BTA along the north aspect, east-west.																																																										
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41	4139 - Aspen, Mixed Deciduous	Sawtimber Well	2.2	93	81-110	N/A	OPIC - FMD: OI Stand Year Origin was 1926 Soil conservation would be a concern for managing this small stand. About 2/3 of the stand are on a decently steep hillside while the remaining 1/3 sits along a very wet drainage. Upland portion is dominated by bigtooth aspen and sugar maple with trace amounts of yellow birch, beech, and basswood. The lowland portion is smaller in diameter and occupied by quaking aspen, basswood, sugar maple, and trace amounts of red maple, black cherry, and elm (also dead ash). The understory along the hillside is negligible, sparsely vegetated. The bottomland has a more prominent understory with greater diversity (and browsing pressure).																																																										
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments			
<b>42</b>	4130 - Aspen	Poletimber Well	65.0	26	51-80	N/A	<p>This really should be typed out as an A3 yet, but MiFI wouldn't allow it. Harvested in 1993 as Bashwood Reserve, 52-003-91-01. "Clearcut all trees except basswood, ash, cherry, or cedar. Protect drainage." Some residual sugar maple, ironwood, elm, too. A couple pretty decent slopes in this stand. Seeps in north-central leg; drainage supports lowland species, dead black ash. Much more dead white ash in the southern and northwestern-most portions of this stand. South and West have areas dominated by ironwood, cherry, sugar maple, and (to a lesser extent) white ash w/ EAB damage. Gooseberry is not as common under bigtooth aspen as it is in the rest of the stand. Slight increase of beech in subcanopy (and sparse in canopy) in the northwest leg. Trace amounts of yellow birch and beech in canopy. Two Xlog white pine in canopy in northwest tip around potential historical site. OPIC - FMD: THIS SALE AREA LEFT ALL BASSWOOD, ASH, CHERRY AND CEDAR UNCUT. IN SOME AREAS THIS RESIDUAL AMOUNTS TO QUITE AN OVERSTORY. THE FEATURED STAND OVERALL THOUGH IS THE REGENERATION.</p>			
Canopy Species		% Cover	Size Class	DBH	Age	Canopy Species		Density	Avg. Height	Size
Quaking Aspen		15	Sapling/Pole/Log	4		Sugar Maple		High	Variable	Sapling
Basswood		10	Log/Pole	12	92	Black Cherry		Trace	Variable	Sapling
Bigtooth Aspen		51	Pole/Sap/Log	6	26	Ironwood		Medium	Variable	Sapling
						Beech		Trace	Variable	Sapling
						Hazelnut (Spp.)		Trace	< 5 feet	Tall Shrub
						White Ash		Trace	< 5 feet	Sapling
						Maple Leaved Viburnum		Medium	< 5 feet	Tall Shrub
						Black Ash		Trace	Variable	Sapling
						Serviceberry (Juneberry)		Trace	Variable	Sapling
						Cattail spp.		Trace	Unspecified	Non-Wood
						Balsam Fir		Trace	Variable	Sapling
						Willow spp.		Trace	5 - 10 feet	Sapling
						Prickly Or Wild Gooseberry		Medium	< 5 feet	Tall Shrub
						Basswood		Trace	< 5 feet	Sapling
						Honeysuckle (spp.)		Low	< 5 feet	Tall Shrub
						Witch Hazel		Trace	5 - 10 feet	Tall Shrub
						Blackberry/Raspberry		Low	< 5 feet	Tall Shrub
<b>43</b>	6118 - Lowland Deciduous with Cedar	Sawtimber Poor	4.3	70	1-50	N/A	<p>OPIC - FMD: THIS STAND LIES ALONG A FLOWING DRAINAGE. IT WAS INTENTIONALLY LEFT UNCUT WHEN THE ADJACENT STAND #42 WAS TREATED. Streat corridor. Few tip-ups. One paper birch sap immediately south of road; trace black ash, black cherry, yellow birch. Far south could very easily be non-forested lowland cattail stand. It's a dead black ash swamp with trace basswood, cedar, and aspen.</p>			
Canopy Species		% Cover	Size Class	DBH	Age	Canopy Species		Density	Avg. Height	Size
Northern White Cedar		25	Log/Pole	12	99	Prickly Or Wild Gooseberry		Medium	< 5 feet	Tall Shrub
Basswood		40	Log/Pole/Sap	10	70	Hazelnut (Spp.)		Low	Variable	Tall Shrub
Sugar Maple		6	Pole/Log	8		Sugar Maple		Low	Variable	Sapling
Quaking Aspen		29	Log/Pole/Sap	12		Black Ash		Low	Variable	Sapling
						Balsam Fir		Trace	Variable	Sapling
						Ironwood		Low	Variable	Sapling
						Ninebark		Low	Variable	Tall Shrub
						Balsam Poplar		Trace	5 - 10 feet	Sapling
						Willow spp.		Low	Variable	Tall Shrub
						Cattail spp.		Medium	Unspecified	Non-Wood
						Red Osier Dogwood		Trace	< 5 feet	Tall Shrub
<b>44</b>	6120 - Lowland Cedar	Sawtimber Well	0.7	99	111-140	N/A	<p>Dead black ash in the canopy, subcanopy. Trace amounts of elm (one 12"), yellow birch (10", 8"), red maple (6", 8", 12"), and hemlock (6", 7"), all in north leg. Very sad stand with hardly any reportable subcanopy; greatly influenced by human impact and deer. OPIC - FMD: THIS STAND IS ACTUALLY ON A SIDE HILL. AN OLD RAILROAD GRADE ON THE DOWNSHILL SIDE MAY HAVE ALTERED THE NATURAL WATER FLOW HERE ALLOWING THE CEDAR TO BECOME ESTABLISHED.</p>			
Canopy Species		% Cover	Size Class	DBH	Age	Canopy Species		Density	Avg. Height	Size
Northern White Cedar		80	Log/Pole/XLog	12	99	Sugar Maple		Trace	Variable	Sapling
Basswood		17	Log/Pole	10		Hazelnut (Spp.)		Trace	5 - 10 feet	Tall Shrub
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																																			
<b>45</b>	4130 - Aspen	Sapling Well	11.5	27	Immature	N/A	<p>Clearcut in 1992 as Botrychium Aspen, 52-047-90-01 (sale was associated with compartment 156). Lots of cankers in the south. Areas with higher stocking of hardwood are still very much sapling. Otherwise, the feel is still a sapling stand very close to converting to over to pole. Trace witch hazel in the north central opening on top of the hill, shrub 5-10'. Little bit of blow down in the northwest within a wet draw. Trace pin cherry. Trace paper birch saps along road edge. OPIC - FMD: THE MAJORITY OF THE TIMBER SALE THAT ESTABLISHED THIS STAND IS IN THE ADJACENT COMPARTMENT TO THE NORTH. THIS IS VERY NICE REGEN WITH SOME STEMS APPROACHING MERCHANTABLE SIZE.</p>																																																																			
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<b>46</b>	4110 - Sugar Maple Association	Sawtimber Well	79.1	97	81-110	N/A	<p>Thinning complete 8/2013 - Baby Frog Hardwood, 52-129-10-01. (Extends north into adjacent compartment.) Trace white pine along southeast perimeter. Trace balsam fir, quaking aspen in subcanopy.</p> <p>Black cherry along east stream corridor edge with red maple. Areas with very nice sugar maple sapling/pole advanced regeneration. One paper birch in southeast along beaver flooding in aspen stand. Trace red maple, black cherry in west, south of road (trace hazelnut in subcanopy, too). One or two live white ash in canopy, otherwise scattered ash snags. Couple hills in north east dropping east toward drainage.</p>																																																																			
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<b>47</b>	6112 - Lowland Aspen	Poletimber Well	15.4	99	51-80	N/A	<p>Trace black cherry, elm, paper birch, and white ash in canopy. Trace white cedar and maple leaved viburnum in subcanopy. Allen Creek flows through this stand. Stand can be characterized by supercanopy aspen nursing along a nice quality stand of pole hardwood. Stand occupies a relatively steep hillside in the north (east aspect) with seeps everywhere and lowland at the bottom adjacent to Allen Creek. Southern portion (north of road) flattens out with saturated soils supporting deteriorating aspen and nice sugar and red maple filling in. Drainage continues south of road for a ways, but the stand becomes more upland, and portions were managed selectively with the adjacent stand during the last entry. Hardwood is filling in under the aspen, good quality. A lot of dead sapling/pole black ash along stream. One tiny yew. Much more hazelnut in south (north of road) where QA dominates. Log basswood, sugar maple mixes into canopy south of road.</p>																																																																			
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<b>48</b>	6112 - Lowland Aspen	Sawtimber Well	3.5	99	51-80	N/A	East edge of stand transitions slightly upland, occupied by log/Xlog. Creek is west boundary. Trace amounts of paper birch and basswood in canopy. Found one red oak sapling, 10-20'. BAs vary, 40-100, but commonly in the 60-80 BA range. Last day w/ O.																																															
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<b>49</b>	6120 - Lowland Cedar	Sawtimber Medium	4.7	96	111-140	N/A	Stand occupies a hillside with seeps throughout. Extraordinarily fragile soils. South leg is quite a bit different than the north blob: less WC, YB, more RM. One elm, 6". Trace amounts of paper birch, black cherry, and basswood in stand. Last day w/ O. OPIC - FMD: A DENSE STAND OF CEDAR GROWING ALONG THE EAST BANK OF ALLEN CREEK. THE DEER ARE REALLY USING THIS NARROW STAND A LOT FOR COVER.																																															
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<b>50</b>	4119 - Mixed Northern Hardwoods	Sawtimber Well	43.3	87	81-110	N/A	Trace hazelnut in the far north. Trace raspberry, too. Dirtbike trail runs through stand. Some dead ash in canopy. West edge slopes down into adjacent lowland. Slope is pole timber dominated with more frequent yellow birch than through rest of stand. One dominant age to stand, but definitely others present too. Stand appears to have been picked over perhaps 50 or 60 years ago. Last day w/ O. OPIC - FMD: NOT A HIGH QUALITY NORTHERN HARDWOOD STAND. QUITE A GOOD REPRESENTATION OF RED MAPLE ESPECIALLY ON THE WEST SIDE. THE EAST PORTION OF THE STAND HAS THE BEST QUALITY.																																															
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<b>51</b>	4139 - Aspen, Mixed Deciduous	Poletimber Well	13.3	99	51-80	N/A	Low quality aspen stand with dense sugar maple saplings in areas. Very sensitive soils in spots with seeps. Slight west slope to stand. Lots of old beaver damage. North and middle portions of stand are heavy to red maple and ironwood, then the stand becomes balsam fir dominated for a bit in the south before returning back to QA/RM/BF with a slight inclusion of white cedar in the south as the stand becomes lowland adjacent to the stream. Couple BAM in south, too. Trace elm, black cherry, yellow birch, beech, and paper birch in canopy. Couple white and red pine seedlings/saplings. Some bracken scattered. Hazelnut in north near the stream. LAST STAND W/ O. OPIC - FMD: THIS IS VERY SIMILAR TO STAND #47 ON THE WEST SIDE OF THE STREAM. A LOT OF THIS STAND HAS BEEN "THINNED" BY PAST BEAVER ACTIVITY. I WOULD NOT RECOMMEND HARVESTING IT SINCE WE WOULD JUST BE ENCOURAGING MORE BEAVERS.
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Canopy Species	% Cover	Size Class	DBH	Age	Canopy Species	Density	Avg. Height	Size
Quaking Aspen	10	Log/Pole	12		Sugar Maple	Medium	Variable	Sapling
Bigtooth Aspen	35	Log/XLog/Pole	16	99	Balsam Fir	High	Variable	Sapling
Red Maple	50	Pole/Log	8	99	Beech	Low	Variable	Sapling
					Ironwood	Trace	Variable	Sapling
					Quaking Aspen	Trace	Variable	Sapling

<b>52</b>	6230 - Cattail	Nonstocked	2.6		Unspecified	No	OPIC - FMD: AN OLD BEAVER FLOODING THAT IS CURRENTLY INACTIVE. A SERIES OF DAMS ARE STILL IN PLACE BUT THEY ARE ALLOWING WATER TO FLOW THROUGH. Slightly characteristic of a northern fen. Stream corridor with old dams, breached. Cedar and fir snags. Popular wildlife corridor.
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Canopy Species	Density	Avg. Height	Size
Cattail spp.	High	Unspecified	Non-Wood
Honeysuckle (spp.)	Trace	5 - 10 feet	Tall Shrub
Willow spp.	Medium	Variable	Tall Shrub
Northern White Cedar	Trace	>20 feet	Log
Scotch Pine	Trace	5 - 10 feet	Sapling
White Pine	Trace	Variable	Sapling
Balsam Fir	Medium	Variable	Sapling
Red Osier Dogwood	Trace	5 - 10 feet	Tall Shrub
Quaking Aspen	Low	Variable	Sapling
Juniper	Trace	< 5 feet	Tall Shrub
Hazelnut (Spp.)	Trace	5 - 10 feet	Tall Shrub
Alder	Trace	5 - 10 feet	Tall Shrub

<b>53</b>	6128 - Lowland Coniferous, Mixed Deciduous	Sawtimber Well	2.6	99	111-140	N/A	Allen Creek flows through stand. South of road is dominated by white cedar, balsam fir, and quaking aspen. North of road is dominated by quaking aspen and red maple. Dead pole black ash. Couple log black cherry snags in south. More red maple in east and north. Dwarf scouring rush north of road in a small area. Trace sugar maple, paper birch, and yellow birch in canopy.
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Canopy Species	% Cover	Size Class	DBH	Age	Canopy Species	Density	Avg. Height	Size
Quaking Aspen	29	Log/Pole/XLog	14		Black Ash	Low	Variable	Sapling
Balsam Fir	30	Log/Pole	10		White Ash	Trace	Variable	Sapling
Red Maple	10	Pole/Log	8		Balsam Fir	Medium	Variable	Sapling
Northern White Cedar	31	Log/Pole/XLog	14	99	Alder	Low	5 - 10 feet	Tall Shrub



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<b>54</b>	6112 - Lowland Aspen	Poletimber Well	3.6	86	51-80	N/A	East edge of stand occupies a slight hillside with bigtooth and log-sized red maple, fairly dense balsam fir understory. Higher ground, especially in southeast before dropping down into adjacent Q-type. Trace amounts of black cherry, yellow birch, and basswood in canopy. One witchhazel in east. ALLEN CREEK PASSES THROUGH THE WESTERN EDGE.																																																										
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<b>55</b>	4110 - Sugar Maple Association	Poletimber Well	78.6	68	81-110	N/A	Some areas with sugar maple seedlings, especially in southwest and southeast. Dead white ash in canopy and quite a bit of dense ash regen in clumps. North central portion of stand has a significant amount of dead ash in canopy and on the ground. Appears to be old TSI work in the northeast around the non-forested openings. Trace balsam fir in canopy in far east with much higher stocking of fir in the subcanopy, too. One log black cherry on the south end of stand 405.																																																										
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<b>56</b>	4139 - Aspen, Mixed Deciduous	Sawtimber Well	6.3	75	81-110	N/A	Very nice, dense sugar maple regen in southeast under QA along drainage. Decent hardwood regen elsewhere. In a compartment lacking good hardwood regeneration, I encourage us to let this stand convert. Aspen is low quality (except east bigtooth is decent). Western portion of stand has lower canopy closure (75%).																																																										
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<b>57</b>	4110 - Sugar Maple Association	Sawtimber Medium	29.6	84	81-110	N/A	Thinning complete 6/2016 - Wolverine Hardwood, 52-119-11-01. Lots of scattered dead white ash, especially a lot of down woody debris. Trace mullein, thistle. Young regen, very heavy browsing pressure. Desirable regeneration is present, but outcompeted by ironwood and beech and further suppressed by browsing. Trace amount of white pine in the canopy in the west along Straits Hwy. Trace yellow birch in east. Trace balsam fir in understory in east, too.																																																										
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<b>58</b>	4117 - Mixed N. Hardwood - Pine	Poletimber Well	7.6	82	81-110	N/A	<p>Quite a few pockets heavy to ironwood sap/poles. Appears to have had a removal 30+ years ago. Perhaps an elm and/or pine salvage - this 40 had been planted to red/jack/white pine in 1939 (400 tpa), but hardwood of the same age suggests that the pine was out-competed in spots. BAs fairly consistent around 110, with few spikes and troughs. Ironwood aged at 35 was a large sap. Some variable ages, 79, 53, 35. OPIC - FMD: SAME BASIC STAND AS #30 ON THE WEST SIDE OF THE HIGHWAY. THE STAND HAS A WELL DEVELOPED HARDWOOD SAPLING UNDERSTORY. IT APPEARS THAT IT MAY HAVE HAD SOME HARDWOOD REMOVED IN THE PAST.</p>																																																	
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<b>59</b>	4110 - Sugar Maple Association	Poletimber Well	10.4	84	81-110	N/A	<p>Thinning complete 6/2016 - Wolverine Hardwood, 52-119-11-01. Trace mullein, maple leaved viburnum, white pine (sap). Trace canopy red and white pine on the west edge. Some areas of dense white ash regeneration. Came across one pocket of advanced sugar maple regeneration. SM and BW stump sprouts are present but browsed to nothing. Stand is becoming a sugar maple monoculture in the canopy with a rather undesirable subcanopy.</p>																																																	
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<b>60</b>	4110 - Sugar Maple Association	Sawtimber Well	37.5	73	81-110	N/A	<p>PU3 of LBW HDWDS 52-113-01-01, completed in 2005. OPIC - FMD: STAND WAS THINNED IN 2003 - 2004. THIS IS A FAIRLY LOW QUALITY SMALL DIAMETER STAND. Northwest has very dense white ash regeneration, 10'. Transitions to dense IW regen in SW. South half of stand is dominated by very dense beech regeneration. Balsam fir regeneration picks up around the east perimeter of this stand. North and east portion slopes gently into the adjacent lowland. More basswood, trace yellow birch and red maple. Trace elm, ironwood, and bigtooth aspen in canopy. Stand could be divided a lot of different ways by overstory composition, understory composition, quality, hydrology, or any other ways. Selective harvesting might be appropriate for the residual canopy, but we are not encouraging the right kind of regeneration at this time in the southern half of this stand.</p>																																																	
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<b>61</b>	6120 - Lowland Cedar	Sawtimber Well	27.0	87	141-170	N/A	Stream corridor as well as headwaters to Allen Creek. Lots of seeps in the north half. Extremely fragile soils with tip-ups and mounds. Dead ash scattered. There are some very large red maple, yellow birch, and cedar scattered. Rather impressive. Some areas are very heavy to cedar poles. Aspen is mostly present on the perimeter and not much of a presence in the interior. More blow-down pockets in the south as the hydrology changes to be the headwaters for Allen Creek with a varied canopy structure. The far west tip becomes dominated by balsam fir (S/P) with quaking aspen and scattered red maple; inclusion of cattails, willow, trace elderberry (just saw one), and other wetland vasculars. E. scirpoides common in the north along corridor. Some transition zones in the south from the headwaters to the adjacent more upland ground - dominated by red maple, aspen, balsam fir. Plenty of sapling ash in these areas. Trace elm and striped maple. Two sapling hemlock. South end includes a 2-3 acre clump of QA/RM/BF on slightly higher ground. Sensitive soils.																																													
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<b>62</b>	4130 - Aspen	Sapling Well	9.8	26	Immature	N/A	OPIC - FMD: THIS PORTION OF THE 1992 - 1993 HARVEST AREA CAME BACK VERY WELL TO A MIX OF ASPEN AND HARDWOOD. THERE ARE A FEW WIDELY SCATTERED RESIDUAL RED PINE. 1 Xlog beech in southwest. West edge of stand occupies a west-facing slope with much more significant balsam for component. More sugar maple in the east. Hasn't quite graduated to an A6. Big non-forested landing with trace jack and red pine. North and east portions of stand have a significant amount of hardwood - SM, IW, RM. (Except far east is fairly homogenously aspen.) Stand was harvested as E. Perry Pulp, 52-022-91-01 (final harvest), complete in 1993.																																													
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<b>63</b>	4112 - Maple, Beech, Cherry Association	Sawtimber Well	27.7	69	111-140	N/A	Nice stand. Even the red maple is nice quality. Northwest slopes to the northwest; greater inclusion of aspen and more yellow birch. North/northeast drop down into a very damp, sensitive floodplain. Inoperable. Lots more yellow birch and a handful of black cherry in this north lowland. OPIC - FMD: THE SOUTH END OF THIS STAND IS TRUE NORTHERN HARDWOOD. THE BULK OF THE STAND THOUGH IS DOMINATED BY RED MAPLE. THE STAND SHOULD BE MANAGED SELECTIVELY.																																													
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<b>64</b>	4319 - Mixed Upland Forest	Sapling Well	35.4	26	Immature	N/A	<p>Cannot accurately represent RP in this stand. There are two age classes of RP: &lt;25 year old pole/sap, approximately 20%, and then an additional 3% of Xlog 22" ave RP (planted 1940). Trace amount of bigtooth aspen in south.</p> <p>Fairly unique stand of natural regen with red pine, jack pine, ironwood, black cherry, and sugar maple. Look at harvest timeline, parent stand composition, and soils for clues to success.</p> <p>3/4 ac non-forested opening along west edge with bracken, mixed conifer, and raspberry.</p> <p>Southwest is much heavier to cherry and quaking aspen. Sugar maple saplings pick up in northwest.</p> <p>Stand was harvested as E. Perry Pulp, 52-022-91-01 (final harvest), complete in 1993.</p> <p>OPIC - FMD: THIS PORTION OF THE 1992 - 1993 HARVEST AREA IS HEAVY TO JACK PINE, HARDWOOD AND UPLAND BRUSH. THIS STAND ALSO HAS A LOT MORE RESIDUAL RED PINE AS COMPARED TO STANDS #62 AND #65.</p>																																																								
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<b>65</b>	4130 - Aspen	Poletimber Well	22.1	26	Immature	N/A	<p>West has a little corridor that has some lowland tendencies, but it's not obviously wet.</p> <p>Sugar maple, ironwood, beech outcompeted by aspen, now hanging out in subcanopy. Aspen is pretty homogeneous except for a very few hardwood pockets (dominated by IW, SM, BC, BE). Trace red pine regenerating along two-track through stand. Raspberry along road, too. Couple areas in east with RP S/P. East of trail is still an A3 for the most part, but overall the stand has moved to an A6.</p> <p>Trace paper birch, maple leaved viburnum, ribes, hawthorn.</p> <p>Stand was harvested as E. Perry Pulp, 52-022-91-01 (final harvest), complete in 1993.</p> <p>OPIC - FMD: THIS PORTION OF THE 1992 - 1993 HARVEST AREA HAS COME BACK TO SOME VERY NICE ASPEN REGENERATION. THERE ARE ONLY A FEW WIDELY SCATTERED RED PINE RESIDUAL.</p>																																																								
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<b>66</b>	4119 - Mixed Northern Hardwoods	Sawtimber Well	8.5	85	51-80	N/A	<p>Interesting history in this stand. Records for management in 1981 which would coincide closely with ironwood development and scattered pole bigtooth. Bigtooth is present in many different age classes, and aspen age represents an 8" sample.</p> <p>Pockets dominated by ironwood S/P. Scattered aspen clones. Some decent sugar maple pockets, but mostly lower quality SM/BW. Future of this stand is not clear given the current composition. Trace elm and quaking aspen. One sad white pine sapling; picked up a few red pine in the far east.</p> <p>Areas with well developed sugar maple subcanopy, mostly in the east.</p>																																																								
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<b>67</b>	4130 - Aspen	Poletimber Well	11.2	38	81-110	N/A	Small stick nest in east by road. Areas still dominated by 6" aspen. Black knot in cherry. Trace red maple, elm, bam, and balsam fir. More consistent sugar maple component in east, becoming BTA monoculture towards west, except for a pocket in the far west dominated by sugar maple saps/poles. BAs range 60-90. Harvested in 1981 52-022-81, then red maple thinned in 1984. OPIC - FMD: THIS STAND WAS CUT IN 1981 AND THE TSI'S IN 1984. THIS IS VERY NICE REGEN WITH SCATTERED STEMS NOW OF MERCHANTABLE SIZE.																																																													
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<b>68</b>	4110 - Sugar Maple Association	Poletimber Well	24.8	75	81-110	N/A	Trace amount of white pine, red pine in canopy in far north. Trace elm in canopy, striped maple in understory. One red maple (pole); one balsam fir sap. Dead white ash in canopy. Good quality, small diameter pole stand with nice advanced sugar maple regen S/P >20'. A bit two-aged in far east with log (14") sugar maple overstory, sugar maple/ironwood S/P understory.																																																													
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<b>69</b>	4110 - Sugar Maple Association	Poletimber Well	39.1	84	111-140	N/A	Dead white ash in canopy. Dense white ash regen in clumps, most heavily browsed. Central part of stand is very nice pole sugar maple and basswood. Beech picks up in south as the stand transitions to more of a log-sized stand with more dead WA in the canopy, dense beech regen in areas. Beech again picks up in the west, transitioning into stand 94. Trace quaking aspen, elm in canopy.																																																													
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<b>70</b>	4139 - Aspen, Mixed Deciduous	Sapling Well	126.2	17	Immature	N/A	PUs 2&3 of Last Best Aspen, 52-111-01-01. Completed in 2002. Trace amounts of paper birch (in west only), BAM, and black cherry in canopy. Rare in the understory are: alternate leaved dogwood, witch hazel, maple leaved viburnum, white spruce, juniper, staghorn sumac, and gooseberry. Black cherry is a bit more common in the southwest. Very few pole BTA. Scattered pockets dominated by hardwood, composed of sugar maple and/or beech (with ironwood). East third of stand is much heavier to beech and ironwood. Old landing in south has scotch pine saplings. Clearcut complete in 2002 as part of Last Best Aspen, 52-111-01-01. OPIC - FMD: THIS IS DECENT REGENERATION BUT NOT GREAT. LOTS OF HARDWOOD REGEN MIXED IN WITH THE ASPEN. THE ELK ARE NOT BOTHERING THIS TOO MUCH FOR THE MOST PART.																																																													
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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**71** 4111 - S.Maple, Hard Mast Association Poletimber Well 60.1 80 81-110 N/A

Canopy Species	% Cover	Size Class	DBH	Age
Basswood	20	Log/Pole	10	
Bigtooth Aspen	15	Log/XLog/Pole	16	80
Beech	10	Log/Pole	12	61
Sugar Maple	48	Pole/Log	8	80

Canopy Species	Density	Avg. Height	Size
Sugar Maple	Low	>20 feet	Sapling
Ironwood	High	Variable	Sapling
Striped Maple	Low	10 - 20 feet	Sapling
Beech	Medium	Variable	Sapling
Maple Leaved Viburnum	Trace	< 5 feet	Tall Shrub
Bigtooth Aspen	Low	< 5 feet	Sapling

Dead white ash logs scattered. Couple pole striped maple. East ridge is very low quality pole timber with lots of beech. Beech subcanopy is low in areas and high in others; overall medium. Aspen regen is heavily browsed but present. Trace elm in the canopy. One white spruce sapling <2' on NW ridge. Stand has a "picked over" look to it. There seems to be two age classes, but they're only 20 years apart. I wonder if this was utilized for grazing or dominated by a desired species... Interesting. Rather a hilly stand with pockets of logs interspersed with poles. Some ironwood sap/pole dominated pockets filling in as well.

**72** 4110 - Sugar Maple Association Sawtimber Well 45.6 90 51-80 N/A

Canopy Species	% Cover	Size Class	DBH	Age
Sugar Maple	70	Log/Pole	10	90
Basswood	24	Log/Pole	10	

Canopy Species	Density	Avg. Height	Size
Beech	Medium	5 - 10 feet	Sapling
Ironwood	High	Variable	Sapling
Basswood	Trace	5 - 10 feet	Sapling
White Ash	High	Variable	Sapling
Sugar Maple	Medium	< 5 feet	Seeding
Striped Maple	Low	5 - 10 feet	Sapling
Sugar Maple	Trace	Variable	Sapling
Bigtooth Aspen	Trace	5 - 10 feet	Sapling
Honeysuckle (spp.)	Trace	< 5 feet	Tall Shrub

THERE IS A RESEARCH PLOT WITHIN THIS STAND. Selection complete 8/2014: DC Hardwood, 52-127-11-01. One white spruce sap, one clump of gooseberry. Southern tip of stand is a sea of white ash saplings. Keeping to the east of Gaylord Road and moving north, there are pockets dominated by beech, but otherwise it's usually a fully stocked mix of white ash and ironwood with beech. Sugar maple seedlings are surprisingly common, but will not recruit. Northeast tip is heavy to ironwood with pockets of beech and scattered white ash regen. Canopy species east of Gaylord Rd are smaller in diameter and lower in stocking (commonly around 50 BA) than west of road. West of road has larger diameters (12" ave) and some areas with 110/120 BA. There's a surprising amount of sugar maple stump sprouts making a go of it on the west side, too. Immediately west of Gaylord Rd, however, is a wall of beech. Maple leaved viburnum in northwest; one hemlock; one dead yellow birch; one sad elm. Portion to the east of the powerline, south and west of the two-track, and north of the plantation had been thinned in 1983, removing basswood, aspen, and mixed hardwood (52-022-82-02).

**73** 330 - Low-Density Trees Nonstocked 1.2 Unspecified No

Canopy Species	Density	Avg. Height	Size
Basswood	Trace	Variable	Sapling
Scotch Pine	Medium	Variable	Sapling
Black Cherry	Trace	Variable	Sapling
Serviceberry (Juneberry)	Trace	10 - 20 feet	Sapling
Red Pine	Trace	>20 feet	Pole
Sugar Maple	Trace	Variable	Sapling

Sap/pole basswood, serviceberry west of road. Scotch pine with scattered red pine, sugar maple, and cherry east of road.



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																												
<b>74</b>	42110 - Planted Red Pine	Sawtimber Well	20.2	57	141-170	N/A	Road, powerline, and fiber optic line all bisect the stand on the west side. HAL concerns/questions. Trace black cherry (in west) and basswood (in east) in canopy, <1%. Pocket of mortality in the north, but there's only one living RP that's declining. The others are long dead. The mortality is not concentric, just localized. East is more open grown and lesser quality, lower BAs, and larger diameters. BAs average 150+, slightly lower in east. One red oak sapling. Planted in 1962. Thinned in 1993 as Live Elm Red Pine 52-040-92-01.																																												
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<b>75</b>	42110 - Planted Red Pine	Sawtimber Well	11.3	57	141-170	N/A	Northwest has some special management considerations. One box elder, scattered apple, elderberry, and raspberry in northwest. Much lower stocking and larger red pine in this area. One white spruce sapling <5'. Very nice sugar maple understory. Some areas are heavy to beech, but sugar maple is relatively consistent. Approx 1% mixed deciduous in canopy (represented through the 1% bigtooth in canopy), includes elm (just 1), bigtooth aspen (in south), sugar maple, basswood, and black cherry. Current diameters average 11" L/P; BAs range 100-180, commonly around 160. Planted in 1962. Thinned in 1993 as Homestead Red, 52-037-91-01.																																												
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<b>76</b>	4110 - Sugar Maple Association	Sawtimber Well	21.3	75	81-110	N/A	A little bit of ash poaching in the past couple years. Lot of white ash regen in the northwest, not so common elsewhere. BA is relatively low, 80-100. Some pockets <80 with ash mortality and/or past logging. Very few scattered sugar maple approaching Xlog. Much more beech in south that could be salvaged immediately, but they're quickly declining. The southern portion of this stand is very low quality, understocked, multistemmed. Elk and deer browsing pressure. It's possible that the north portion alone of this stand (north of the two-track/RP might have been select cut in 1981, removing aspen and hardwood. TCR shows 14 MBF of aspen, 4 MBF basswood, 1 MBF mixed hardwood removed over 10 acres.																																												
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<b>77</b>	4110 - Sugar Maple Association	Sawtimber Well	90.0	90	81-110	N/A	Far South Hardwood, 52-128-11-01. Thinning complete 2015. Mullein, spotted knapweed, thistle, gooseberry, striped maple present. Rather poor regen composition. Desirable regen unlikely to recruit. Ash, elderberry, basswood heavily browsed. Deer and elk browsing pressure. BAs vary, 70-120, even post thinning. NEED TO BE LOOKING FOR RSH WHEN SETTING UP THIS SALE. THERE IS AN ANTRIM WELL SITE PERMITTED IN THE EASTERN PORTION OF THE STAND BUT IT IS UNLIKELY THAT IT WILL BE DEVELOPED.																																												
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<b>78</b>	4111 - S.Maple, Hard Mast Association	Poletimber Well	80.6	70	81-110	N/A	<p>Few dead ash in canopy. Lots of pole beech. North region on top of hill is ironwood sap/pole dominated. Couple pole-sized striped maple. Two distinct age classes, 48 and ~70 (with some larger logs around 80 years old). Lots of multi-stemmed trees; lesser quality but hardwood is the best management option.</p> <p>Trace pole american elm. Couple pockets of concentrated aspen. BAs consistently 70-80, except areas of dense pole (multi-stemmed) in the 110-150 range.</p> <p>OPIC - FMD: THIS IS A POOR QUALITY STAND WITH QUITE A BIT OF ASPEN MIXED IN. WHEN THE ADJACENT STAND #81 WAS DELINEATED, IT APPARENTLY WAS DECIDED TO LET THIS STAND GO TO HARDWOOD. THE BEST THING TO DO AT THIS TIME IS TO LET THE ASPEN NATURALLY DIE OUT SO THAT HARDWOODS CAN FILL BACK IN.</p>																																																		
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<b>79</b>	4110 - Sugar Maple Association	Sawtimber Medium	45.4	82	51-80	N/A	<p>Thinning complete 6/2016 - Wolverine Hardwood, 52-119-11-01. Areas of dense white ash regeneration. Somewhat clumpy beech regen but present throughout. Couple living ash in the canopy w/ epicormic branching. Couple morainal ridges in the west. Could go with an M6. Some larger diameters in the south on top of the hill and along ridges (12-14 dbh).</p> <p>Trace white spruce and balsam fir in the understory (up by road). Trace thistle.</p>																																																		
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<b>80</b>	4119 - Mixed Northern Hardwoods	Poletimber Well	25.5	75	51-80	N/A	<p>Not a lowland stand, but definitely some soil/hydrologic influences. Spongy/hummocky in spots. Round-lobed hepatica. Trace elm. North/northeast portion of stand is about 10' higher in elevation and vastly different than the rest of the stand. Includes canopy beech, bigtooth, and red maple; heavier beech regen. Trace spruce in north. Central pocket (southeast of G0) is dominated by ironwood sap/pole. BAs consistently 60-100.</p> <p>OPIC - FMD: THIS STAND IS DRASTICALLY DIFFERENT FROM ADJACENT STANDS. THIS STAND IS DOMINATED BY SMALL DIAMETER HARDWOODS WITH A WELL DEVELOPED SAPLING UNDERSTORY.</p>																																																		
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<b>81</b>	4139 - Aspen, Mixed Deciduous	Sapling Well	37.2	25	Immature	N/A	<p>Central landing is full of raspberry with trace honeysuckle on the perimeter and one juniper &lt;5'. Knapweed, goldenrod, one scotch pine, and thistle. Hardwood pockets in stand are dominated by ironwood and beech. Areas of pole timber, but still largely sapling dominated. One basswood. Trace red pine saps by the NW corner of private. Trace basswood, paper birch, ash, and elm.</p> <p>Stand was harvested in 1993 as Endless Aspen Block, 52-019-92-01. OPIC - FMD: THIS STAND WAS HARVESTED IN THE LATE SUMMER OF 1993. THIS IS VERY NICE QUALITY MIXED ASPEN AND HARDWOOD REGENERATION.</p>																																																										
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<b>82</b>	4110 - Sugar Maple Association	Sawtimber Well	24.9	90	51-80	N/A	<p>Not a fun stand to walk around for the dense beech regeneration. Residual timber is rather decent quality, but regen is extremely undesirable, excluding some surprisingly nice pockets of sugar maple saplings (associated with elderberry). Beech in canopy is mostly in the south, beyond the harvest boundary, but some residual poles remain in the north. Trace red maple and yellow birch in northeast. PU2 of LBW HDWDS 52-113-01-01, completed in 2005. OPIC - FMD: THIS STAND WAS THINNED IN 2004 - 2005. THERE ARE SOME VERY NICE CROP TREES IN THIS STAND.</p>																																																										
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<b>83</b>	4110 - Sugar Maple Association	Poletimber Well	41.6	90	81-110	N/A	<p>Dead white ash in canopy. Basswood stumpsprouts heavily browsed. Areas of small log sugar maple with ironwood filling in. Lesser quality hardwood with a bleak future. Many unofficial two-tracks running through stand from private property. Couple challenging draws in southeast - can skid through draw, but harvesting on hillsides might be challenging.</p>																																																										
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<b>84</b>	4110 - Sugar Maple Association	Sawtimber Well	14.5	90	111-140	N/A	<p>Dead white ash in canopy. Old skid trails through stand used as private access to hunting blinds by ORVs. A lot of pole sugar maple, but overall a small log stand. BAs are somewhat variable, 70-150 without a real consistent average. Trace ironwood and elm in canopy. Trace striped maple in east on north-facing slope. Southeast plateau is heavier to pole timber and less stocked. Private corners on south edge of stand don't square up quite right. This is the county line, too, so corners should be thoroughly researched. THERE IS AN ANTRIM GAS WELL PERMITTED IN THIS STAND AND IF THAT WERE TO BE DEVELOPED OUR ACCESS WOULD BE DEVELOPED FOR US.</p>																																																										
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<b>85</b>	122 - Road/Parking Lot	Nonstocked	35.9		Unspecified	No	<p>OPIC - FMD: THIS IS THE OLD-27 RIGHT-OF-WAY THAT IS 150 FEET WIDE. MOST BUT NOT ALL OF IT HAS BEEN CLEARED.</p>																																																										





Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments			
<b>86</b>	4110 - Sugar Maple Association	Sawtimber Well	5.3	81	51-80	N/A	This multi-part stand includes areas designated as long term retention for stand 32 (to the south as part of Perry Road CC. Overall pole, but MiFI represents it as log. Though all islands are markedly different from one another, they are generally dominated by basswood and sugar maple with an inclusion of aspen. The far west opening contains a small non-forested opening filling in with cherry and shrubs. Trace black cherry, elm, red maple. Understories vary from one pocket to the next. Rare amounts of red pine, hazelnut, sumac, and quaking aspen in the subcanopy, also.			
Canopy Species		% Cover	Size Class	DBH	Age	Canopy Species		Density	Avg. Height	Size
Basswood		50	Log/Pole	10	81	Balsam Fir		Trace	Variable	Sapling
Sugar Maple		38	Pole/Log	8		Basswood		Trace	5 - 10 feet	Sapling
Quaking Aspen		7	Log/Pole	10		Sugar Maple		Medium	Variable	Sapling
						Prickly Or Wild Gooseberry		Trace	< 5 feet	Tall Shrub
						Beech		Low	Variable	Sapling
						White Ash		Low	< 5 feet	Sapling
						Black Cherry		Trace	Variable	Sapling
						Maple Leaved Viburnum		Trace	< 5 feet	Tall Shrub
						Ironwood		Medium	Variable	Sapling
						White Pine		Trace	10 - 20 feet	Sapling
						Serviceberry (Juneberry)		Low	10 - 20 feet	Sapling
<b>88</b>	4110 - Sugar Maple Association	Sawtimber Medium	3.6	87	51-80	N/A		Trace red maple and black cherry present. Potential historical site in adjacent NFO. Sugar maple and basswood log nearest road. Old apple trees in the north end. Cottonwood clone indicative of historical site. Multi-stemmed, lesser quality trees. One paper birch. More prominent beech regen in the south (high).		
Canopy Species		% Cover	Size Class	DBH	Age	Canopy Species	Density		Avg. Height	Size
Ironwood		10	Pole/Sapling	6	43	Apple (spp.)	Trace		10 - 20 feet	Log
Sugar Maple		80	Log/Pole/XLog	14	87	Beech	Medium		Variable	Sapling
						Ironwood	High		Variable	Sapling
						Sugar Maple	Low		Variable	Sapling
						Balsam Fir	Trace	5 - 10 feet	Sapling	
<b>89</b>	42210 - Natural Red Pine	Poletimber Medium	1.7	28	1-50	N/A				
Canopy Species		% Cover	Size Class	DBH	Age	Canopy Species		Density	Avg. Height	Size
Red Pine		84	Pole/Sap/Log	8	28	Sugar Maple		High	Variable	Sapling
Sugar Maple		10	Sapling/Pole	2		Staghorn Sumac		Trace	5 - 10 feet	Tall Shrub
						White Pine		Trace	< 5 feet	Sapling
						Black Cherry		Trace	< 5 feet	Sapling
						Autumn Olive		Trace	5 - 10 feet	Tall Shrub
						Blackberry/Raspberry		Trace	< 5 feet	Tall Shrub
<b>90</b>	4119 - Mixed Northern Hardwoods	Poletimber Well	11.1	79	81-110	N/A		Higher BAs in areas with multi-stemmed pole timber. West is pole RM/SM; east is two-aged SM/BW/BTA/BF. Trace yellow birch and elm in canopy. South edge drops down into adjacent stream corridor. Some XL BTA (trace QA) along this edge.		
Canopy Species		% Cover	Size Class	DBH	Age	Canopy Species	Density		Avg. Height	Size
Sugar Maple		40	Log/Pole	10	79	Balsam Fir	High		Variable	Sapling
Basswood		25	Log/Pole	12		Beech	Low		Variable	Sapling
Red Maple		23	Pole/Log	8		Ironwood	Medium		Variable	Sapling
						Maple Leaved Viburnum	Trace		< 5 feet	Tall Shrub
						Honeysuckle (spp.)	Low		< 5 feet	Tall Shrub
						Sugar Maple	Trace		< 5 feet	Seeding



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<b>91</b>	4119 - Mixed Northern Hardwoods	Sawtimber Well	3.6	65	81-110	N/A	Stand occupies a hillside with an ENE slope; wet at bottom. Dirtbike trail runs through stand. Selective/big tree management would be the best option for this site if desiring to manage. Otherwise, leave it intact to protect the creek and hillside. Regardless, BA and diameters are too small for any sort of management activity. Trace balsam fir in canopy. Trace stump sprout BW regen.																																																						
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<b>92</b>	4110 - Sugar Maple Association	Poletimber Well	24.1	90	81-110	N/A	Dead white ash in canopy. Lots of multi-stemmed hardwood. One elm. Most of this stand is pole dominant with a good mix of logs. Beech is too far gone for salvage.																																																						
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<b>93</b>	4139 - Aspen, Mixed Deciduous	Sawtimber Well	9.3	57	81-110	N/A	More balsam fir in south half of stand. Pretty nice aspen. Hardwood poles have good potential, too. Trace beech and elm in canopy. Two-aged stand. Aspen removal approx. 53 years ago. Scattered sugar maple, basswood, and aspen were left. Two fairly distinct diameter classes between the original (83 year old+) timber and 50 year old																																																						
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<b>94</b>	4112 - Maple, Beech, Cherry Association	Poletimber Well	22.4	94	81-110	N/A	More log sugar maple in south. Better mix of sm and basswood in the north-central portion of the stand. One balsam fir in south; one serviceberry, one apple (in west central opening). North tip is dominated by bigtooth and beech.																																																						
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<b>95</b>	4110 - Sugar Maple Association	Sawtimber Medium	5.4	101	1-50	N/A	The age of the understory would coincide fairly well with harvest records from 1981, but the regen and acreage don't quite make sense for the treatment data. Instead, it appears as though this area had been grazed or maintained, ceasing around 1978. Whatever the case, it is a poor quality (multi-stemmed), open grown hardwood stand with amazing hardwood regeneration - sapling/pole, nearly fully stocked with sugar maple (S/P), ironwood (S/P), some serviceberry (S/P), except in the far north. Old two-track through stand. Bracken fern in open portion on north knob. Trace basswood sap (<5'), 1 red pine sap (10-20) here as well. One balsam fir, pole >20'.																																																											
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<b>98</b>	4112 - Maple, Beech, Cherry Association	Sapling Medium	1.7	36	1-50	N/A	Stand occupies a decent west-facing slope and supports a drainage flowing E-->W through the center of the stand. South tip is sapling/shrub with trace red and white pine in the canopy. 1983 clearcut of all trees with a 100" pulp stick or more. 52-040-81A.																																																											
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<b>99</b>	4112 - Maple, Beech, Cherry Association	Sapling Well	1.2	32	Immature	N/A	Slow to grow hardwood saplings following clearcut in 1983. Upland stand with a couple drainages into adjacent lowland. 1983 clearcut of all trees with a 100" pulp stick or more. 52-040-81A.																																																											
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<b>100</b>	6116 - Lowland Birch	Sapling Poor	3.2	24	1-50	N/A	Old beaver flooding with unintact dams. Lack of horizontal stucture and presence of some stumps suggests that this stand was cut over in the 1930s and has been excrutiatingly slow to rehabilitate, especially with past beaver activity. Paper birch is colonizing with mixed lowland conifer, red maple, and yellow birch. Highly variable stand. Clump of cedar in the south tip, lowland shrub in the north. Trace red pine saplings on east edge.																																																											
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<b>101</b>	6116 - Lowland Birch	Poletimber Medium	1.3	36	51-80	N/A	Heavy to paper birch saplings in the south. Trace white pine on north tip, into adjacent M2. Trace sugar maple, too. Slow to grow stand similar to other upland stands dominated by hardwood adjacent to this flooding. 1983 clearcut of all trees with a 100" pulp stick or more. 52-040-81A.																																																							
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<b>400</b>	3102 - Grass	Nonstocked	9.4		Unspecified	Managed Opening	OPIC - FMD: THIS IS A NATURAL OPENING. WILDLIFE MAY PROPOSE TREATMENTS TO MAINTAIN OR IMPROVE THIS SEMI-OPEN STAND. WILDLIFE PLANTING 2010. RP present in S/P/L, SM S/P, IW S/P, BC P/S, SP S/P. Small inclusion of basswood pole in south. One dead apple tree. Multiple clumps of asparagus.																																																							
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<b>401</b>	320 - Upland Shrub	Nonstocked	1.6		Unspecified	No	Trace serviceberry (sap 10-20') and balsam fir (log/pole) just outside of stand to the southwest. East half is dominated by staghorn sumac, heavily browsed. Couple apple trees in the west. THIS IS A NATURAL OPENING. WILDLIFE PLANTING 2010.																																																							
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<b>402</b>	3102 - Grass	Nonstocked	18.3		Unspecified	No	OPIC - FMD: THIS IS A COMBINED PIPELINE AND OVERHEAD ELECTRIC LINE RIGHT-OF-WAY. THE TOTAL WIDTH IS 100 FEET AND IT IS FULLY DEVELOPED. WILDLIFE PLANTING 2010.																																																							



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments				
403	3102 - Grass	Nonstocked	4.1		Unspecified	Managed Opening	One tiny juniper on edge. Mowed in 2018. Trace mullein on edge. OPIC - FMD: THIS IS A MAINTAINED WILDLIFE OPENING. FERTILIZED/PLANTED 2012.				
								Canopy Species	Density	Avg. Height	Size
								Spotted Knapweed	Medium	Unspecified	Non-Wood
								Quaking Aspen	Trace	>20 feet	Log
								Black Cherry	Trace	>20 feet	Pole
								Balsam Fir	Trace	Variable	Sapling
								Bracken Fern	Trace	Unspecified	Non-Wood
								Witch Hazel	Trace	10 - 20 feet	Tall Shrub
								American Elm	Trace	>20 feet	Log
								Basswood	Trace	>20 feet	Log
404	3102 - Grass	Nonstocked	5.3		Unspecified	Managed Opening	OPIC - FMD: THIS IS A MAINTAINED WILDLIFE OPENING. FERTILIZED 2012. Mowed in 2018. Clump black cherry (pole/log) in north with ironwood (pole/sap). Game cam, feeder, ladder stand on north end.				
								Canopy Species	Density	Avg. Height	Size
								Spotted Knapweed	Low	Unspecified	Non-Wood
								Basswood	Trace	>20 feet	Log
								Black Cherry	Trace	>20 feet	Pole
								Sugar Maple	Trace	>20 feet	Log
Ironwood	Trace	>20 feet	Pole								
405	3102 - Grass	Nonstocked	2.9		Unspecified	Managed Opening	Unsure of the status of management on this stand. Full snow made for difficult observations. OPIC - FMD: THIS IS A MAINTAINED WILDLIFE OPENING. FERTILIZED 2012.				
								Canopy Species	Density	Avg. Height	Size
								Basswood	Low	>20 feet	Log
								Spotted Knapweed	Low	Unspecified	Non-Wood
Blackberry/Raspberry	Trace	< 5 feet	Tall Shrub								
406	3102 - Grass	Nonstocked	1.8		Unspecified	Managed Opening	OPIC - FMD: THIS IS A MAINTAINED WILDLIFE OPENING. FERTILIZED 2012. Appears to have been planted, but full snow cover 12/2018. Trace black cherry on perimeter.				
								Canopy Species	Density	Avg. Height	Size
								Basswood	Trace	>20 feet	Log
Spotted Knapweed	Low	Unspecified	Non-Wood								
407	3102 - Grass	Nonstocked	1.3		Unspecified	Managed Opening	OPIC - FMD: THIS IS A MAINTAINED WILDLIFE OPENING. WILDLIFE PLANTING 2010. Trace milkweed. Did not appear to be maintained. Encroaching ironwood, undesirable knapweed.				
								Canopy Species	Density	Avg. Height	Size
								Basswood	Low	>20 feet	Log
								Ironwood	Low	Variable	Sapling
								Blackberry/Raspberry	Low	< 5 feet	Tall Shrub
								Bracken Fern	Low	Unspecified	Non-Wood
								Spotted Knapweed	High	Unspecified	Non-Wood
Balsam Fir	Low	Variable	Sapling								





Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments				
408	3102 - Grass	Nonstocked	1.4		Unspecified	Managed Opening	OPIC - FMD: THIS IS A MAINTAINED WILDLIFE OPENING. WILDLIFE PLANTING 2010. Two-track and dirtbike trail run through stand. One apple tree in the southwest.				
								Canopy Species	Density	Avg. Height	Size
								Spotted Knapweed	High	Unspecified	Non-Wood
								Blackberry/Raspberry	High	< 5 feet	Tall Shrub
								Bracken Fern	Medium	Unspecified	Non-Wood
								Quaking Aspen	Low	Variable	Sapling
								Apple (spp.)	Trace	10 - 20 feet	Log
409	3102 - Grass	Nonstocked	1.7		Unspecified	Managed Opening	OPIC - FMD: THIS IS A MAINTAINED WILDLIFE OPENING. WILDLIFE FERTILIZED/PLANTING 2010. Maintained grass/clover with a few log sugar maple scattered.				
								Canopy Species	Density	Avg. Height	Size
								Sugar Maple	Low	>20 feet	Log
410	3102 - Grass	Nonstocked	1.8		Unspecified	Managed Opening	THIS IS A MAINTAINED WILDLIFE OPENING. FETILIZED 2012.				
								Canopy Species	Density	Avg. Height	Size
								Spotted Knapweed	Medium	Unspecified	Non-Wood
Bracken Fern	Trace	Unspecified	Non-Wood								
411	3102 - Grass	Nonstocked	1.3		Unspecified	Managed Opening	OPIC - FMD: THIS IS A MAINTAINED WILDLIFE OPENING. FERTILIZED 2012.				
								Canopy Species	Density	Avg. Height	Size
								Spotted Knapweed	High	Unspecified	Non-Wood
412	3103 - Rubus-Fern	Nonstocked	1.0		Unspecified	Managed Opening	Unknown access to this stand. Seems that access was obliterated during adjacent management. Trace milkweed present.				
								Canopy Species	Density	Avg. Height	Size
								Scotch Pine	Low	10 - 20 feet	Sapling
								Bracken Fern	High	Unspecified	Non-Wood
								Honeysuckle (spp.)	Trace	5 - 10 feet	Tall Shrub
								Blackberry/Raspberry	High	< 5 feet	Tall Shrub
								Black Cherry	Trace	10 - 20 feet	Sapling
								Ironwood	Trace	Variable	Sapling
								Beech	Trace	Variable	Sapling