



Compartment Review Presentation

Gaylord Forest Management Unit

Compartment 52149

Entry Year 2020

Acreage: 1,536

County Cheboygan

Management Area: Chandler Hills

Revision Date: 2018-04-10

Stand Examiner: Tricia St. Pierre

Legal Description:

T34N R03W Sections 20, 21, 28, and 29.

Sec 20: S1/2SW, SWNW, NE

Sec 21: all except NWSW and NESE

Sec 28: E1/2NW, NE except NWNE

Sec 29: W1/2, NWSE, NE except SENE

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, recreational, environmental, and economic benefit of the State of Michigan and its inhabitants. Considerations should be made for dealing with Beech Bark Disease and other forest health threats, existing and looming.

Soil and topography:

Terrain is gently sloping to rather hilly, formed from moraines and outwash-, lake-, and till plains. There are a few steep hills but they're generally short in length. Soils are dominated by sands and loamy sands (primarily Kalkaska sand, Blue Lake loamy sand, Leelanau loamy sand, and Cheboygan loamy sand), with a small inclusion of muck. The erosion risk is relatively low across this compartment, however somewhat hilly terrain could have potential for erosion from equipment and rain.

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

There is a lot of private interface in this compartment. There have been some disputes over nearby property lines in the past, though this compartment has largely been removed from that situation. Most residences are permanent, though there are some seasonal properties. Hobby farms and forestry practices are the most common uses of private property.

Unique Natural Features:

There is a record for *Buteo lineatus* in section 28. There are no other MNFI occurrences in this compartment, though the potential exists for others.

Archeological, Historical, and Cultural Features:

There are no known Archeological, Historical, or Cultural features within this compartment. There is an abandoned railroad bed in section 29.

Special Management Designations or Considerations:

There are no existing Special Management Designations within this compartment, however there are some considerations to be made, especially where concerning pests and exotic species. Beech Bark Disease and Emerald Ash Borer, however regionally prevalent, have had and continue to have impacts on the existing and future conditions within and surrounding this compartment. Hemlock Woolly Adelgid, while not known to be present, is a threat that could further reduce canopy diversity. Local populations within and around this compartment of Scotch Pine, Autumn Olive, and Norway Spruce threaten to displace native species wherever established.

Watershed and Fisheries Considerations:

Cheboygan County

T34N, R03W, Sec. 20, 21, 28, 29

This compartment contains a portion of Berry Creek, a tributary to Pickerel Lake. Berry Creek has Type 1 trout stream regulations. Standard BMPs should be applied.

Wildlife Habitat Considerations:

This compartment is primarily northern hardwoods combined with a mixture of aspen, pine, and openings. Treatments in this compartment will encourage aspen re-growth benefiting deer, grouse, wild turkey and woodcock. Openings are prescribe to be maintained and supplemented with hard and soft mast plantings benefiting deer, grouse, wild turkey, and woodcock.

Mineral Resource and Development Concerns and/or Restrictions

State maintains 100% mineral rights outside of (but immediately adjacent to) this compartment in 34N 03W Sec 28 SE1/4 and Sec 29 NESE. Private ownership, 100% of surface rights.

Sections 20-21 & 28-29, T34N-R3W, Cheboygan County

An active sand/gravel pit is located in Section 29 (Watson Road Pit) and is currently under lease to the county road commission. There is very good potential for additional sand & gravel within the compartment. There has been sparse oil & gas exploration in the area and no production. The Antrim Shale is thin to absent, and oil & gas potential appears to be minimal. There is currently no active mineral leasing in the area, other than for sand & gravel.

Vehicle Access:

Access is fairly consistent to the exterior lines of this compartment though many roads are seasonal. During snow-off conditions, there are a few two-tracks, generally from past logging activity. Some roads are rather sandy and/or steep and should be abandoned, closed to the public, or relocated.

Survey Needs:

There are no survey needs at this time, although there are some missing corners that would be beneficial to have established in the future.

Recreational Facilities and Opportunities:

There are various recreational opportunities within this compartment.

Snowmobile Trail 767 runs through this compartment, as do the Tomahawk Trail A Loop (ORV trail), and the Indian River Route (ORV Route). There are other ORV, dirtbike, snowmobile, and non-motorized trails just outside of this compartment, and Weber Lake SFCG is just to the southwest, offering multiple recreational opportunities.

Fire Protection:

There are very few volatile fuel types within this compartment with a small jack pine component and a few grassy openings surrounded largely by hardwood. Snow-off conditions provide decent access by roads and trails; these roads and trails act as fuel breaks as well. Access to water would be most reliable from Berry Creek, about 1 mile east of the intersection at Berry Creek Road and Mentor Town Hall Road. Weber Lake is in close proximity to the southwest corner, but it would be difficult to get trucks and/or hose down to the water.

Additional Compartment Information:

The following reports from the Inventory are attached:

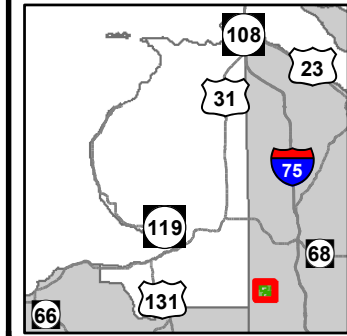
- Total Acres by Cover Type and Age Class**
- Cover Type by Harvest Method**
- Proposed Treatments – No Limiting Factors**
- Proposed Treatments – With Limiting Factors**
- Stand Details (Forested and Nonforested)**
- Dedicated and Proposed Special Conservation Areas**
- Site Condition Details**

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

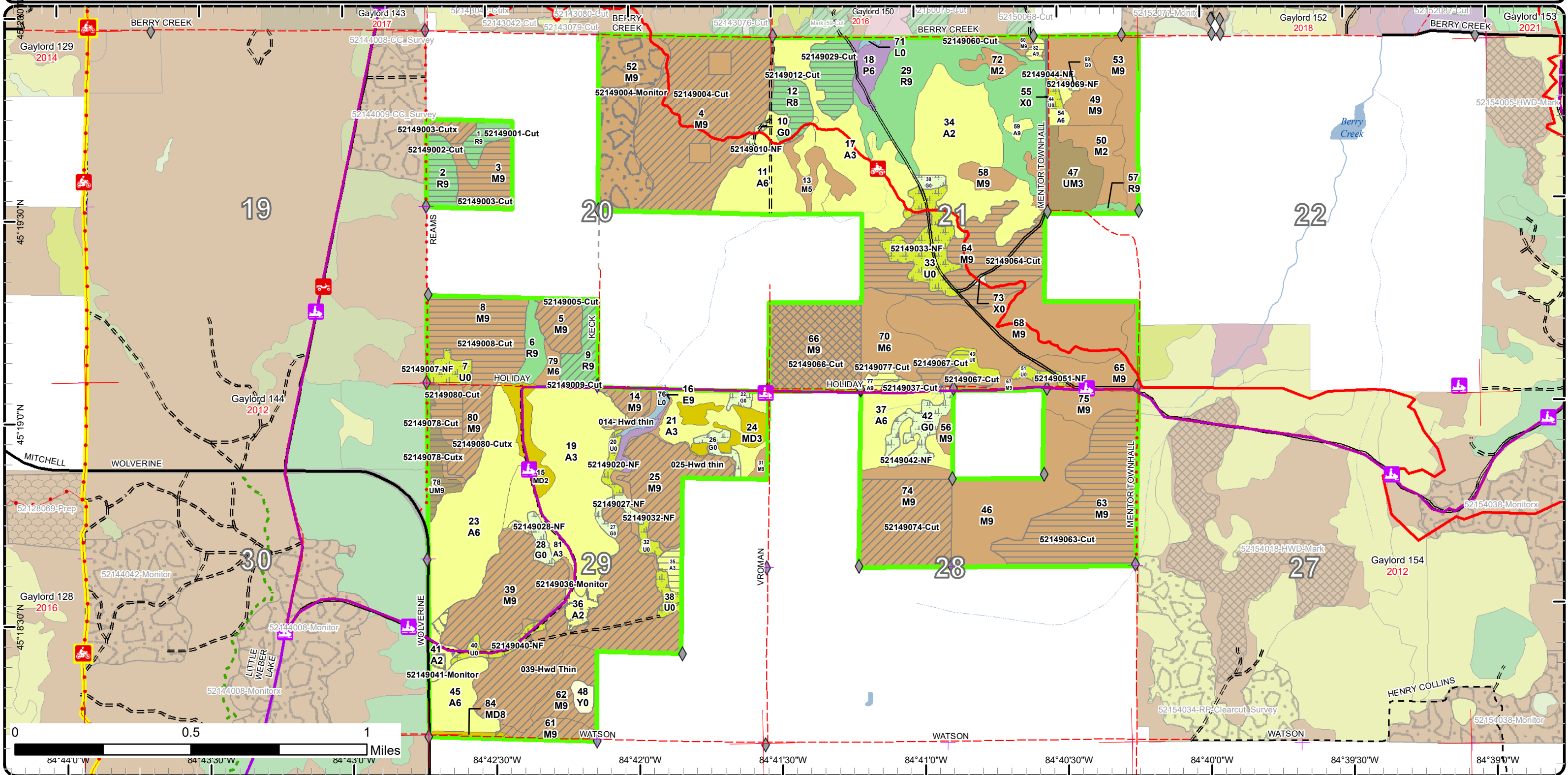
- Base feature information, stand boundaries, cover types, and numbers**
- Proposed treatments**
- Site condition boundaries**
- Details on the road access system**

Cover Type & Treatments Map

Compartment: 149
 T34N, R03W, Sec. 20, 21, 28, 29
 County: Cheboygan
 Unit: Gaylord
 Mgmt Area: Chandler Hills
 YOE: 2020
 Acres: 1,536 GIS Calculated
 Examiner: Tricia St. Pierre
 Map Revised: 10/1/2018
 Map Phase: Post-Review

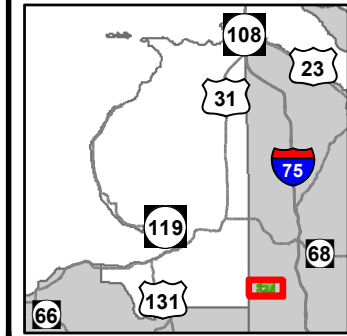


- Miris Corners
- Re monumented Section Corners
- Field Grade Corners
- Counties
- DNR - Secondary Forest Road
- DNR - Forest Access Route
- Federal / State / County - Paved Road
- County - Gravel Road
- County - Dirt Road (Seasonal)
- Private - Dirt / Gravel Road
- ORV Trails
- ORV Routes
- Snowmobile Trails
- Designated ATV Trails
- Designated ORV Route
- Designated Snowmobile Trails
- Culvert
- Intermittent Stream
- Lake/Pond
- Lakes and Rivers All
- Compartment Boundary
- Other Treatment - See Comments
- Selection (Group, Single Tree)
- Clearcut (w/Reserves)
- Thinning (Crown, Low, Systematic)
- Regeneration Survey
- 411 - Northern Hardwood
- 413 - Aspen Types
- 419 - Mixed Upland Deciduous
- 421 - Planted Pines
- 430 - Upland Mixed Forest
- 611 - Lowland Deciduous Forest
- 122 - Roads/Parking Lot
- 310 - Herbaceous Openland
- 330 - Low Density Trees
- 622 - Lowland Shrub
- 710 - Sand/Soil
- 790 - Other Bare/Sparse Vegetated
- Lakes

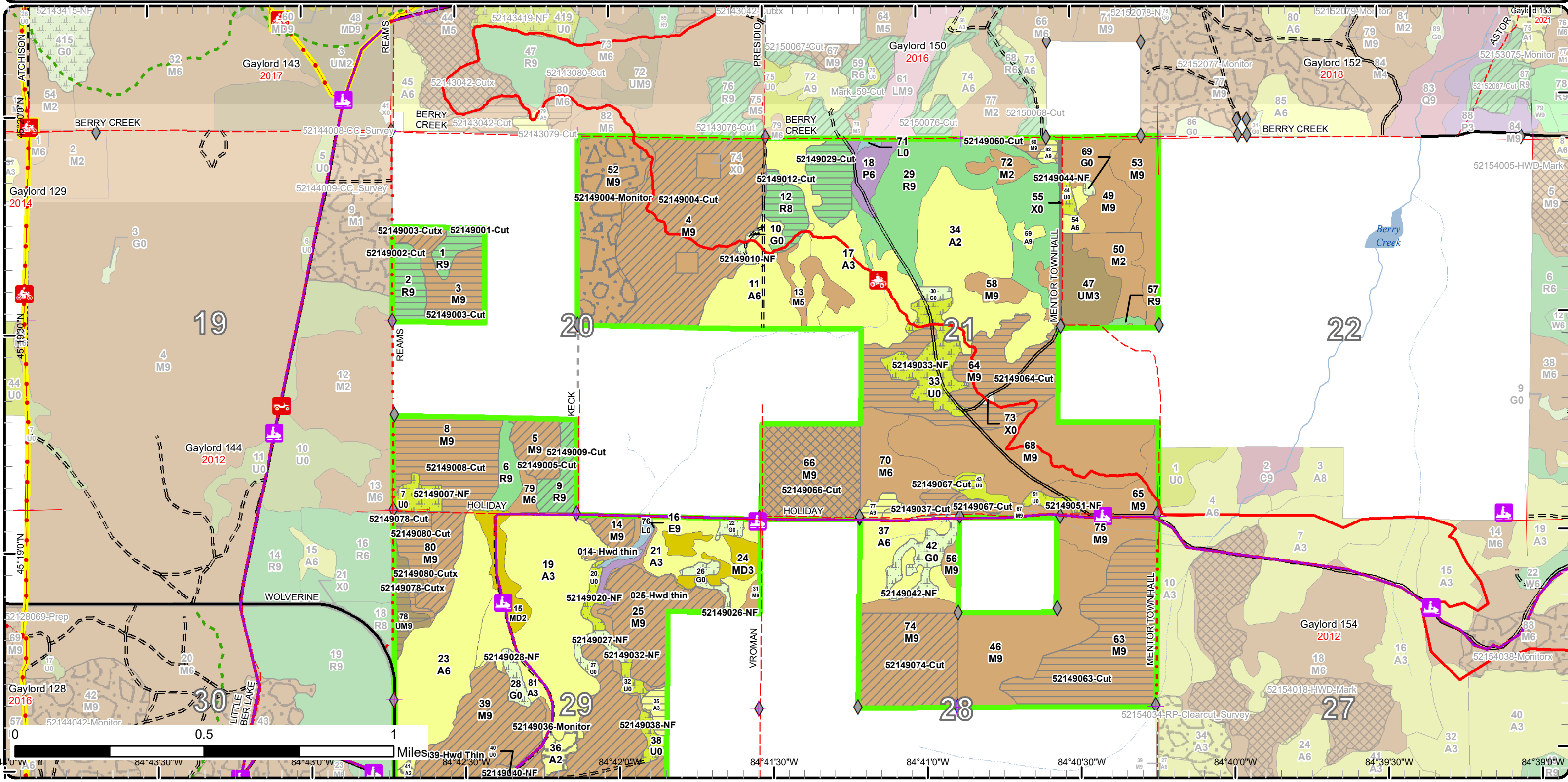


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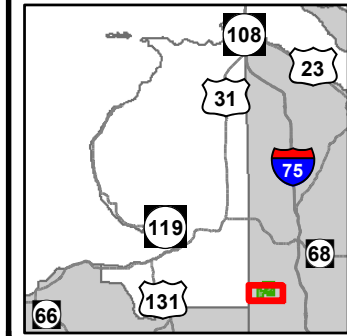
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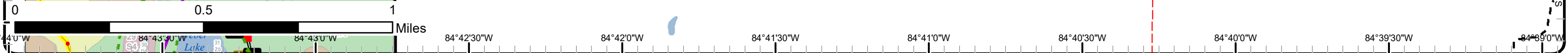
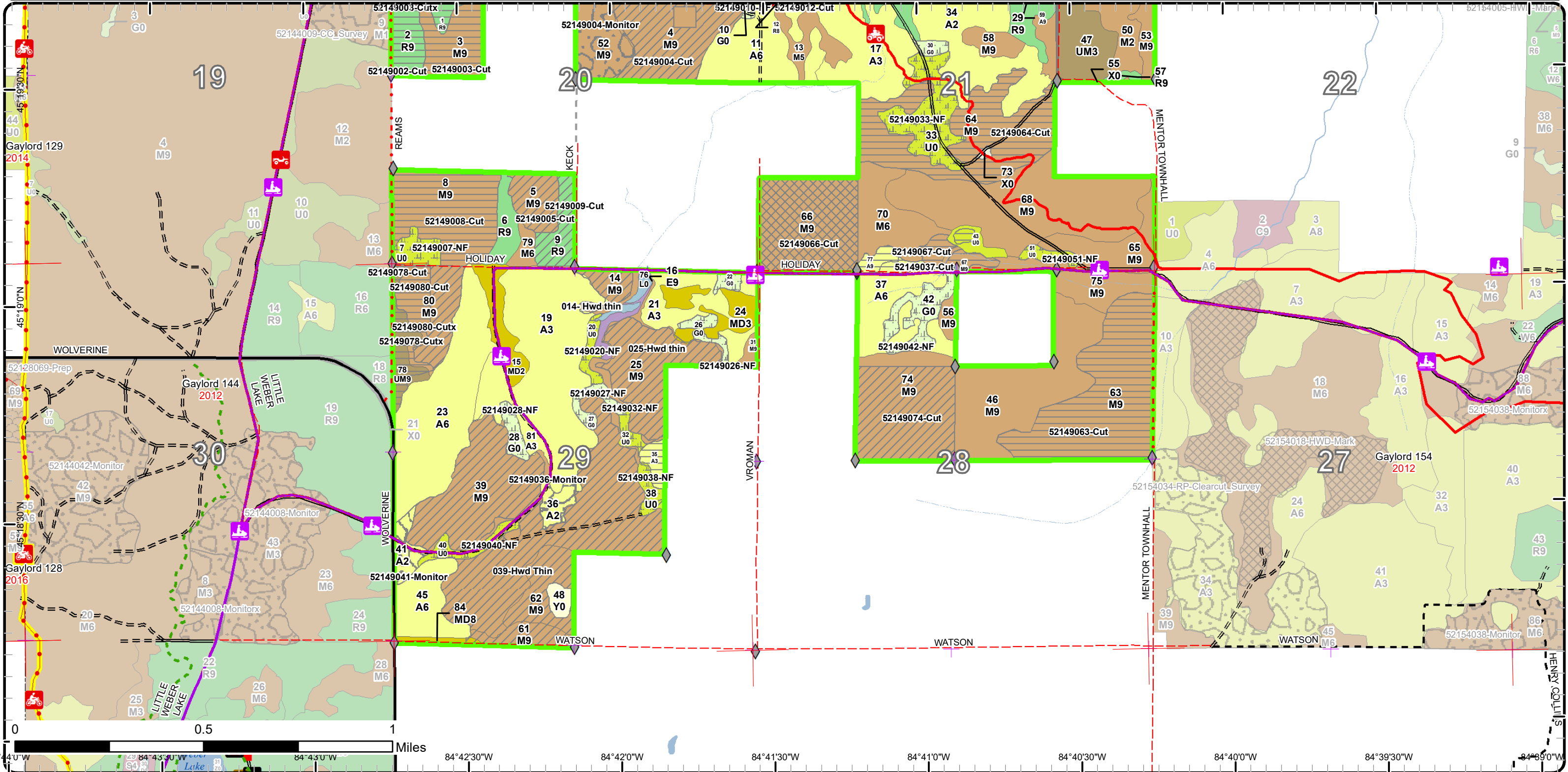
0 0.5 1 Miles
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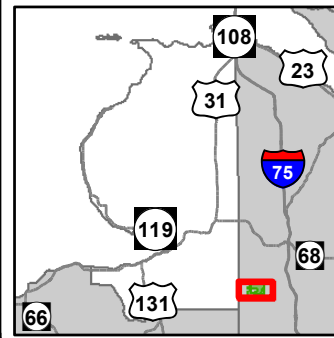


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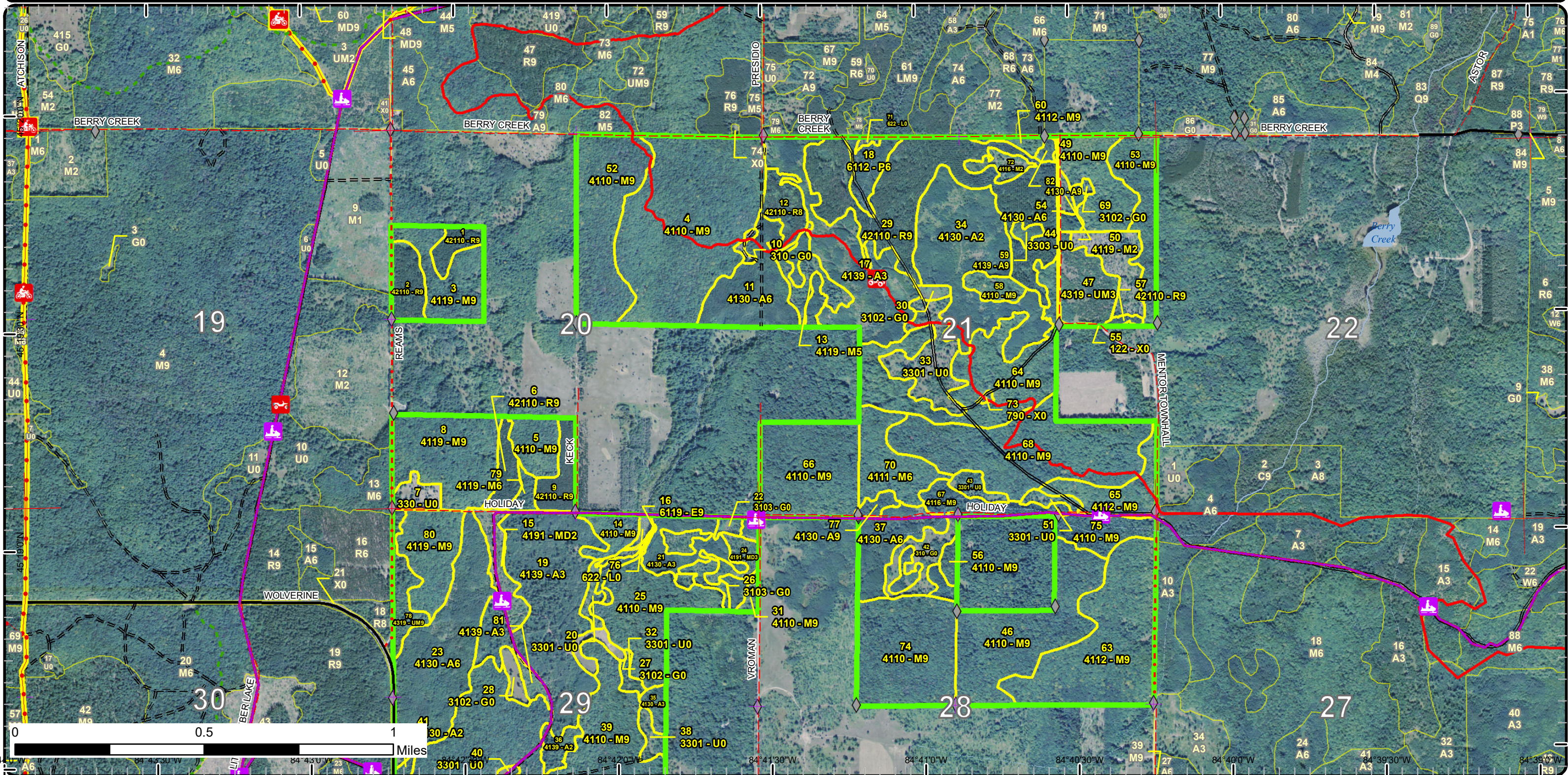


Stand Boundary Map

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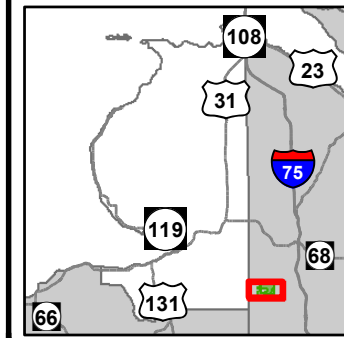


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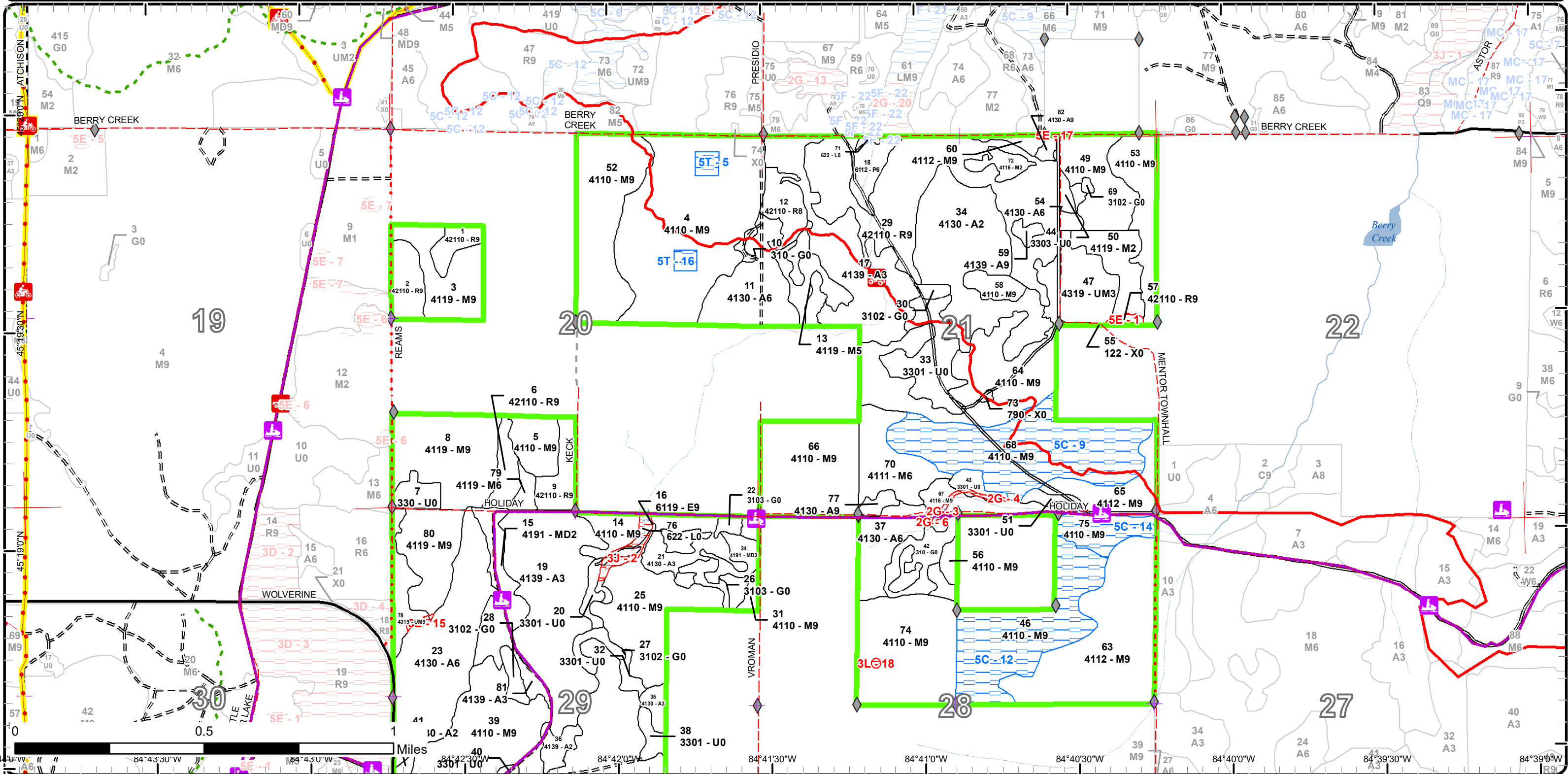


Special Conservation Areas & Site Conditions Map

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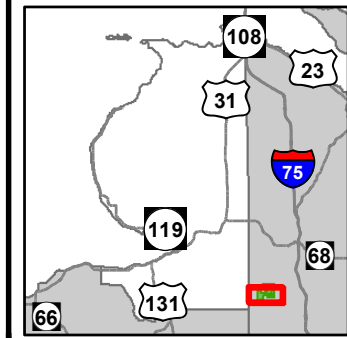


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|--|---|--|--|

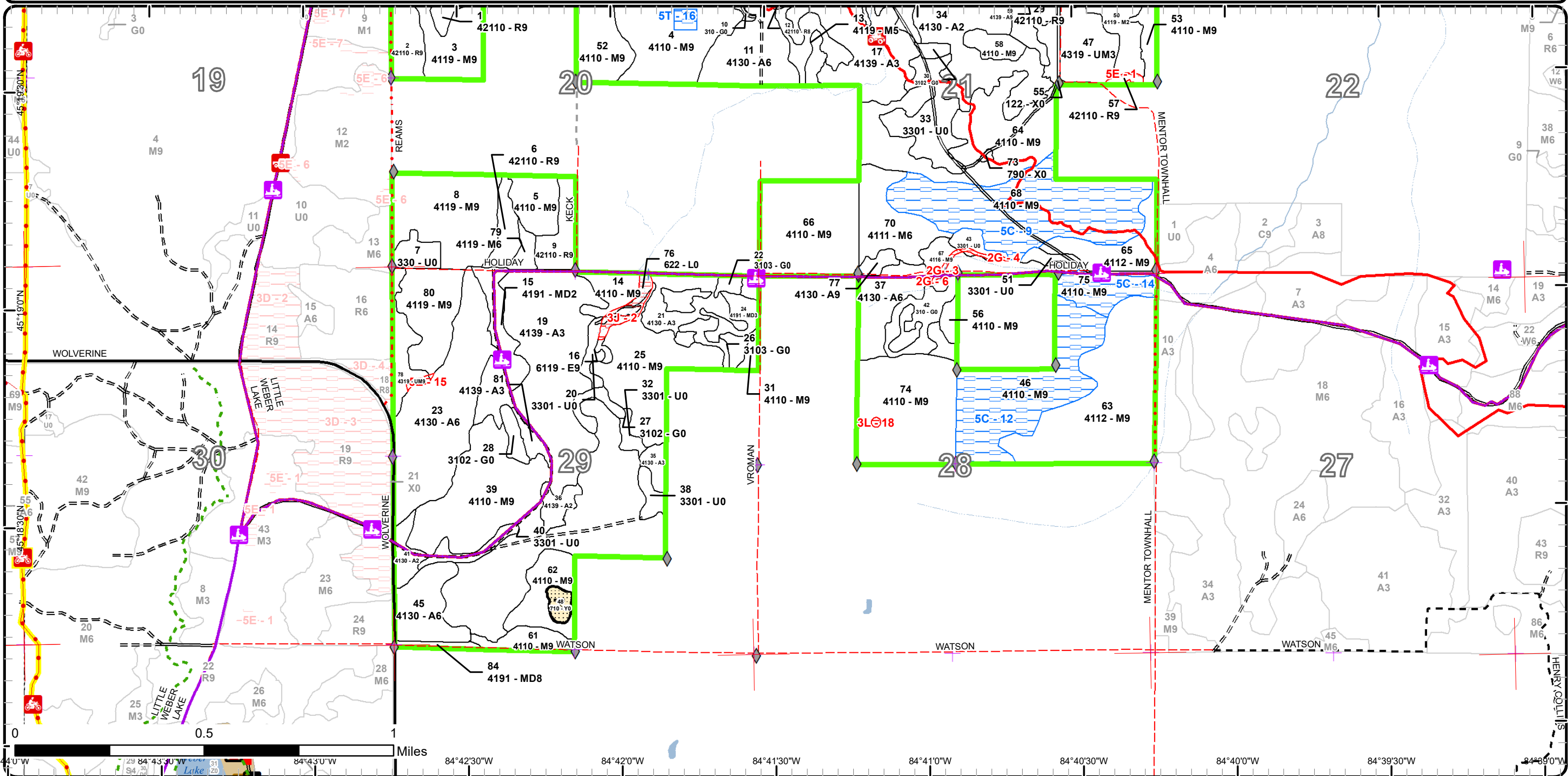


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- 2G: Too wet (sensitive soils, does not include access issues)
- 3J: Water quality / BMPs (stream, river, or lake)
- 3L: Other wildlife concerns
- 5E: Long-Term Retention
- Stand Boundaries
- SCA
- Cold Water Streams
- Cold Water Lakes
- State Forest Campground
- Sand or Gravel Pit
- Sand or Gravel Pit





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	18	194	98	37	3	2	0	0	2	0	0	0	0	0	0	0	0	354
Bare/Sparsely Vegetated	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
Herbaceous Openland	29	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	29
Low-Density Trees	51	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	51
Lowland Aspen/Balsam Poplar	0	0	0	9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	9
Lowland Deciduous	0	0	0	0	0	0	0	0	0	0	0	0	3	0	0	0	0	0	3
Lowland Shrub	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4
Mixed Upland Deciduous	0	11	0	0	0	0	11	0	0	3	0	0	0	0	0	0	0	0	24
Northern Hardwood	0	15	5	0	0	9	0	8	215	592	18	42	0	0	0	0	0	0	904
Red Pine	0	0	0	0	0	0	124	0	1	0	0	0	0	0	0	0	0	0	125
Sand, Soil	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3
Upland Mixed Forest	0	0	18	0	0	0	0	0	10	0	0	0	0	0	0	0	0	0	28
Urban	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
Total	91	44	217	107	37	12	137	8	226	597	18	42	3	0	0	0	0	0	1537



Report 2 – Treatment Summary

Gaylord Mgt. Unit

Year of Entry: 2020

Acres of Harvest

Compartment 149

Total Compartment Acres: 1,536

Commercial Harvest - 646
 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	11	0	0	0	0	7	0	0	0	18
Low-Density Trees	1	0	0	0	0	0	0	0	0	1
Northern Hardwood	189	42	0	0	0	333	0	0	0	564
Red Pine	42	0	0	0	0	11	0	0	0	53
Upland Mixed Forest	11	0	0	0	0	0	0	0	0	11
Total	254	42	0	0	0	350	0	0	0	646

Proposed and Next Step Treatments by Method

	Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current	646	0	0	0	0	0	55	0	75	775
Next Step	0	255	297	0	48	244	467	0	0	1310
Total	646	255	297	0	48	244	521	0	75	2085



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
19	014- Hwd thin	6.8	4139 - Aspen, Mixed Deciduous	Sapling Well	17	1-50	Harvest	Crown Thinning	4110 - Sugar Maple Association	Even-Aged	Field Boundary

Habitat Cut: No

Site Condition:

Prescription Thin stand to 80 BA, no retention, small acreage, lots of hwd in compartment not being treated.

Specs:

Next Step
Treatments:

Acceptable
Regen:

Other
Comment:

Proposed Start Date: 10/1 /2009

25	025-Hwd thin	31.5	4110 - Sugar Maple Association	Sawtimber Well	75	81-110	Harvest	Crown Thinning	4110 - Sugar Maple Association	Even-Aged	Field Boundary
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Habitat Cut: No

Site Condition:

Prescription Thin stand to 80 BA, will follow retention guidelines.

Specs:

Next Step
Treatments:

Acceptable
Regen:

Other
Comment:

Proposed Start Date: 10/1 /2009

35	035- FH aspen	3.9	4130 - Aspen	Sapling Well	2	Immature	Harvest	Clearcut	4130 - Aspen	Even-Aged	Completed - Pending Edits
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Habitat Cut: No

Site Condition:

Prescription Final Harvest, no retention, small acreage.

Specs:

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

Acceptable minimum stocking of aspen
Regen:

Other
Comment:

Proposed Start Date: 10/1 /2009

39	039-Hwd Thin	140.0	4110 - Sugar Maple Association	Sawtimber Well	78	141-170	Harvest	Crown Thinning	4110 - Sugar Maple Association	Even-Aged	Field Boundary
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Habitat Cut: No

Site Condition:

Prescription Thin stand to 80 BA, will follow retention guidelines.

Specs:

Next Step
Treatments:

Acceptable
Regen:

Other
Comment:

Proposed Start Date: 10/1 /2009



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
1	52149001-Cut	6.2	42110 - Planted Red Pine	Sawtimber Well	58	111-140	Harvest	Clearcut with Retention	4116 - Mixed N. Hardwood - Aspen	Even-Aged	Draft Field Boundary
Habitat Cut: No		Site Condition:									
<u>Prescription</u> Clearcut stand and convert to hardwood. Require 6" stump height to facilitate planting operations should natural regeneration not meet minimum stocking requirements. Whole tree skid to promote red pine seed dispersal and scarification. Retention placement will be determined during timber sale preparation.											
<u>Specs:</u>											
<u>Next Step</u> Monitoring, Natural Regen (Re-Inventory); SitePrep, Roller Chopping; Pesticide, Skidder/Mechanical; Planting, Initial Plant; Monitoring, Treatments: Artificial Regen(1yr)											
<u>Acceptable Regen:</u> Acceptable regeneration will meet minimum stocking requirements for mixed hardwood and aspen in any combination. Less than 20% beech.											
<u>Other</u> Survey needed.											
<u>Comment:</u>											
Proposed Start Date: 10/1 /2019											

2	52149002-Cut	10.7	42110 - Planted Red Pine	Sawtimber Well	58	111-140	Harvest	Clearcut with Retention	4116 - Mixed N. Hardwood - Aspen	Even-Aged	Draft Field Boundary
Habitat Cut: No		Site Condition:									
<u>Prescription</u> Clearcut stand and convert to hardwood. Require 6" stump height to facilitate planting operations should natural regeneration not meet minimum stocking requirements. Whole tree skid to promote red pine seed distribution and soil scarification. Retention placement will be determined during timber sale preparation.											
<u>Specs:</u>											
<u>Next Step</u> Monitoring, Natural Regen (Re-Inventory); SitePrep, Roller Chopping; SitePrep, Trenching; Pesticide, Skidder/Mechanical; Planting, Initial Treatments: Plant; Monitoring, Artificial Regen(1yr)											
<u>Acceptable Regen:</u> Acceptable regeneration will meet minimum stocking requirements for mixed hardwood and aspen in any combination. Less than 20% beech.											
<u>Other</u> Survey needed.											
<u>Comment:</u> Hard and/or soft mast species may be planted by wildlife in subsequent treatments.											
Proposed Start Date: 10/1 /2019											

3	52149003-Cut	17.5	4119 - Mixed Northern Hardwoods	Sawtimber Well	73	111-140	Harvest	Clearcut with Retention	4116 - Mixed N. Hardwood - Aspen	Even-Aged	Draft Field Boundary
Habitat Cut: No		Site Condition:									
<u>Prescription</u> Clearcut stand, placing retention around steep hillsides or other desirable areas. Placement will be determined during timber sale prep. Require 6" stump height to facilitate planting operations should natural regeneration be inadequate.											
<u>Specs:</u>											
<u>Next Step</u> Monitoring, Natural Regen (Re-Inventory); SitePrep, Roller Chopping; Pesticide, Skidder/Mechanical; Planting, Initial Plant; Monitoring, Treatments: Artificial Regen(1yr)											
<u>Acceptable Regen:</u> Acceptable regeneration will meet minimum stocking requirements for mixed hardwood and aspen, in any combination, except no more than 20% beech.											
<u>Other</u> Survey needed.											
<u>Comment:</u> Hard and/or soft mast species may be planted by wildlife in subsequent treatments.											
Proposed Start Date: 10/1 /2019											

3	52149003-Cutx	4.7	4119 - Mixed Northern Hardwoods	Sawtimber Well	73	111-140	Harvest	Crown Thinning	4110 - Sugar Maple Association	Even-Aged	Draft Field Boundary
Habitat Cut: No		Site Condition:									
<u>Prescription</u> Thin stand to 70-80BA. Do not implement canopy gaps this entry. Combine low quality hardwood with clearcut to south as necessary.											
<u>Specs:</u>											
<u>Next Step</u> Treatments:											
<u>Acceptable Regen:</u>											
<u>Other</u>											
<u>Comment:</u>											
Proposed Start Date: 10/1 /2019											

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Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Approval Status
4 52149004-Cut	90.2	4110 - Sugar Maple Association	Sawtimber Well	88	111-140	Harvest	Crown Thinning	411 - Northern Hardwood	Even-Aged	Draft Field Boundary

Habitat Cut: No**Site Condition:**

Prescription Marked thinning to 70-80 BA focusing on crown development. Favor (do not mark) cherry or any other underrepresented species (such as elm) if found. Do not implement canopy gaps during this entry. Remove all beech, except designate no more than two beech per five acres as future wildlife trees. Prefer wolfy beech exhibiting resistance to scale or having smooth bark.

Specs: Designate and document two four-acre control pockets with no management activity. Implement monitoring treatments for these control areas as well as an area immediately adjacent in the harvested portion of the stand to observe the effects of active and passive management and BBD on residual stems and regeneration. One of the control areas is to be located in the north, capturing an inactive stick nest. OFS point marks nest. Be cognizant of old fence line grown into trees along the south edge of the stand. Sign and protect the dirtbike trail during harvesting activity, maintaining rut- and debris-free trails throughout the duration of the sale. Sign and protect snowmobile/ORV trail if wood comes out to the south across private.

Next Step
Treatments:

Acceptable
Regen:

Other Mark the exterior boundaries of the control pockets with boundary-grade paint to exclude equipment and for future reference. These control pockets may be square or round, preferably not irregular.

Proposed Start Date: 10/1 /2019

4 52149004-Monitor	42.9	4110 - Sugar Maple Association	Sawtimber Well	88	111-140	Monitoring	Natural Regen (Re-Inventory)	4110 - Sugar Maple Association	Uneven-Aged	Field Boundary
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Habitat Cut: No**Site Condition:**

Prescription Monitor hardwood regen.

Specs:

Next Step
Treatments:

Acceptable A mix of northern hardwood species.
Regen:

Other Percent to Treat = 100%

Comment:

Proposed Start Date: 10/1 /2019

5 52149005-Cut	11.5	4110 - Sugar Maple Association	Sawtimber Well	93	111-140	Harvest	Crown Thinning	4110 - Sugar Maple Association	Even-Aged	Draft Field Boundary
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Habitat Cut: No**Site Condition:**

Prescription Thin to 80, retaining under-represented species. Do not mark any X-log trees in southeast as many provide dens/nests/cavities for wildlife. No large canopy gaps (>40' in diameter) during this entry.

Specs: Western hillside may be excluded from sale if it would be difficult for a processor to operate without going outside of the sale boundary.

Next Step
Treatments:

Acceptable
Regen:

Other Seek permission from adjacent landowner to the north for access to Keck Road and possibly decking in his/her field.

Comment: Do not cut any fruit trees.

Proposed Start Date: 10/1 /2019



Stand	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Approval Status
7	52149007-NF	6.0	330 - Low-Density Trees	Nonstocked		Unspecified	NonForestMgt	Other - Specify	320 - Upland Shrub		Draft Field Boundary

Habitat Cut: No**Site Condition:**

Prescription Mow, plant, burn, brush, or herbicide to maintain open and/or semi open character of stand. Plant hard and/or soft mast.

Specs:

Next Step

Treatments:

Acceptable

Regen:

Other

Comment:

Proposed Start Date: 10/1 /2019

8	52149008-Cut	37.8	4119 - Mixed Northern Hardwoods	Sawtimber Well	88	111-140	Harvest	Clearcut	42110 - Planted Red Pine	Even-Aged	Draft Field Boundary
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Habitat Cut: No**Site Condition:**

Prescription Clearcut all trees regardless of merchantability, requiring 6" stump height to facilitate future planting operations. No retention due to conversion

Specs: objectives, however, any sensitive or high quality (manageable) areas may be excluded from harvest if discovered during timber sale prep. Be aware and cautious of cable boxes along Reams Road. Verify R/W.

Next Step

Treatments: Burn, Slash; SitePrep, Roller Chopping; SitePrep, Trenching; Pesticide, Skidder/Mechanical; Planting, Initial Plant; Pesticide, Hand Application; Planting, Interplant; Monitoring, Artificial Regen(1yr); Monitoring, Artificial Regen(3yr)

Acceptable

Acceptable regeneration will meet minimum stocking standards for planted red pine, free to grow.

Regen: Opening left for hard/soft mast planting will be acceptable.

Other

To be set up with portion of stands 80 and 78 (to south) with same MO.

Comment: Planting operations should incorporate openings for future hard/soft mast planting at a density of two to three 4-5ac openings.

Proposed Start Date: 10/1 /2019

9	52149009-Cut	10.6	42110 - Planted Red Pine	Sawtimber Well	58	111-140	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. North half of stand is less dense and should be marked to clean up double stems and damaged red pine.

Specs: Sign and protect snowmobile trail during harvesting operations.

Next Step

Treatments:

Acceptable

Regen:

Other

Comment:

Proposed Start Date: 10/1 /2019

10	52149010-NF	1.4	310 - Herbaceous Openland	Nonstocked		Unspecified	NonForestMgt	Other - Specify	310 - Herbaceous Openland		Draft Field Boundary
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Habitat Cut: No**Site Condition:**

Prescription Mow, plant, burn, brush, or herbicide to maintain semi open character of stand. Plant hard and/or soft mast.

Specs: Sign and protect recreational trail during management activity.

Next Step

Treatments:

Acceptable

Regen:

Other

Comment:

Proposed Start Date: 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
12	52149012-Cut	10.8	42110 - Planted Red Pine	Sawtimber Medium	58	141-170	Harvest	Clearcut	4211 - Planted Red Pine	Even-Aged	Draft Field Boundary

Habitat Cut: No**Site Condition:**

Prescription Clearcut all species, regardless of diameter. Require 6" stump height to facilitate future planting operations.

Specs: No retention due to objectives.

Sign and protect ORV trail during all harvesting activities. Use trail as boundary on south end when replanting.

Next Step SitePrep, Roller Chopping; Pesticide, Skidder/Mechanical; SitePrep, Trenching; Planting, Initial Plant; Monitoring, Artificial Regen(1yr);

Treatments: Pesticide, Hand Application; Planting, Interplant; Monitoring, Artificial Regen(3yr)

Acceptable Acceptable regeneration will meet minimum stocking requirements for planted red pine.

Regen: Intentional herbaceous openings may be present.

Other

Comment:

Proposed Start Date: 10/1 /2019

20	52149020-NF	3.6	3301 - Low Density Deciduous Trees	Nonstocked		Unspec ified	NonForestMgt	Other - Specify	310 - Herbaceous Openland		Draft Field Boundary
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Habitat Cut: No**Site Condition:**

Prescription Mow, plant, burn, brush, or herbicide to maintain open and/or semi open character of stand. Plant hard and/or soft mast.

Specs:

Next Step

Treatments:

Acceptable

Regen:

Other

Comment:

Proposed Start Date: 10/1 /2019

22	52149022-NF	2.0	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 Mow, plant, burn, brush, or herbicide to maintain open and/or semi open character of stand. Plant hard and/or soft mast.

Specs: Sign and protect recreational trail during management activity.

Next Step

Treatments:

Acceptable

Regen:

Other

Comment:

Proposed Start Date: 10/1 /2019

26	52149026-NF	3.6	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 Mow, plant, burn, brush, or herbicide to maintain open and/or semi open character of stand. Plant hard and/or soft mast.

Specs:

Next Step

Treatments:

Acceptable

Regen:

Other

Comment:

Proposed Start Date: 10/1 /2019



Stand	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Approval Status
27	52149027-NF	4.1	3102 - Grass	Nonstocked		Unspecified	NonForestMgt	Other - Specify	310 - Herbaceous Openland		Draft Field Boundary

Habitat Cut: No**Site Condition:**

Prescription Mow, plant, burn, brush, or herbicide to maintain open and/or semi open character of stand. Plant hard and/or soft mast.

Specs:

Next Step

Treatments:

Acceptable

Regen:

Other

Comment:

Proposed Start Date: 10/1 /2019

28	52149028-NF	3.8	3102 - Grass	Nonstocked		Unspecified	NonForestMgt	Other - Specify	310 - Herbaceous Openland		Draft Field Boundary
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Habitat Cut: No**Site Condition:**

Prescription Mow, plant, burn, brush, or herbicide to maintain open and/or semi open character of stand. Plant hard and/or soft mast.

Specs: Sign and protect recreational trail during management activity.

Next Step

Treatments:

Acceptable

Regen:

Other

Comment:

Proposed Start Date: 10/1 /2019

29	52149029-Cut	14.4	42110 - Planted Red Pine	Sawtimber Well	58	111-140	Harvest	Clearcut	4211 - Planted Red Pine	Even-Aged	Draft Field Boundary
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Habitat Cut: No**Site Condition:**

Prescription Clearcut all species, regardless of diameter. Require 6" stump height to facilitate future planting operations.

Specs: No retention due to objectives.

Openings may be planted with hard/soft mast as available through Wildlife Division.

Next Step SitePrep, Roller Chopping; Pesticide, Skidder/Mechanical; SitePrep, Trenching; Planting, Initial Plant; Monitoring, Artificial Regen(1yr);

Treatments: Pesticide, Hand Application; Planting, Interplant; Monitoring, Artificial Regen(3yr)

Acceptable Acceptable regeneration will meet minimum stocking requirements for planted red pine.

Regen: Intentional herbaceous openings will be acceptable.

Other

Comment:

Proposed Start Date: 10/1 /2019

30	52149030-NF	1.9	3102 - Grass	Nonstocked		Unspecified	NonForestMgt	Other - Specify	310 - Herbaceous Openland		Draft Field Boundary
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Habitat Cut: No**Site Condition:**

Prescription Mow, plant, burn, brush, or herbicide to maintain open and/or semi open character of stand. Plant hard and/or soft mast.

Specs: Sign and protect recreational trail during management activity.

Next Step

Treatments:

Acceptable

Regen:

Other

Comment:

Proposed Start Date: 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
32	52149032-NF	2.5	3301 - Low Density Deciduous Trees	Nonstocked		Unspec ified	NonForestMgt	Other - Specify	310 - Herbaceous Openland		Draft Field Boundary
			Habitat Cut: No		Site Condition:						
<u>Prescription</u> Mow, plant, burn, brush, or herbicide to maintain open and/or semi open character of stand. Plant hard and/or 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											
33	52149033-NF	20.6	3301 - Low Density Deciduous Trees	Nonstocked		Unspec ified	NonForestMgt	Other - Specify	320 - Upland Shrub		Draft Field Boundary
			Habitat Cut: No		Site Condition:						
<u>Prescription</u> Mow, plant, burn, brush, or herbicide to maintain open and/or semi open character of stand. Plant hard and/or soft mast.											
<u>Specs:</u> Sign and protect recreational trail during management activity.											
<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											
36	52149036- Monitor	5.6	4139 - Aspen, Mixed Deciduous	Sapling Medium	4	Immatu re	Monitoring	Natural Regen (Re-Inventory)	4133 - Aspen, Mixed Pine	Even-Aged	Field Boundary
			Habitat Cut: No		Site Condition:						
<u>Prescription</u> Acceptable regen is a mix of deciduous with some pine.											
<u>Specs:</u>											
<u>Next Step</u>											
<u>Treatments:</u>											
<u>Acceptable</u> Acceptable regen will be mixed deciduous saplings and some pine.											
<u>Regen:</u>											
<u>Other</u> Percent to Treat = 100%											
<u>Comment:</u>											
<u>Proposed Start Date:</u> 10/1 /2017											
37	52149037-Cut	2.2	4130 - Aspen	Poletimber Well	28	Unspec ified	Harvest	Clearcut	413 - Aspen	Even-Aged	Draft Field Boundary
			Habitat Cut: No		Site Condition:						
<u>Prescription</u> Clearcut to 2", retaining underrepresented species if desirable. Keep treatment north of the road. No retention due to treatment area and objectives.											
<u>Specs:</u> Sign and protect snowmobile trail during all harvesting activity. Recommend harvesting in snow-off conditions to avoid conflict with snowmobiles.											
<u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)											
<u>Treatments:</u>											
<u>Acceptable</u> Acceptable regeneration will meet minimum stocking requirements for aspen. The inclusion of hardwood and/or conifer at any density will be acceptable.											
<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
38	52149038-NF	3.5	3301 - Low Density Deciduous Trees	Nonstocked		Unspec ified	NonForestMgt	Other - Specify	310 - Herbaceous Openland		Draft Field Boundary
Habitat Cut: No		Site Condition:									
<u>Prescription</u> Mow, plant, burn, brush, or herbicide to maintain open and/or semi open character of stand. Plant hard and/or 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									
40	52149040-NF	5.1	3301 - Low Density Deciduous Trees	Nonstocked		Unspec ified	NonForestMgt	Other - Specify	310 - Herbaceous Openland		Draft Field Boundary
Habitat Cut: No		Site Condition:									
<u>Prescription</u> Mow, plant, burn, brush, or herbicide to maintain open and/or semi open character of stand. Plant hard and/or soft mast.											
<u>Specs:</u> Sign and protect recreational trail during management activity.											
<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									
41	52149041- Monitor	6.1	4130 - Aspen	Sapling Medium	4	Immatu re	Monitoring	Natural Regen (Re-Inventory)	4139 - Aspen, Mixed Deciduous	Even-Aged	Field Boundary
Habitat Cut: No		Site Condition:									
<u>Prescription</u> Minimum stocking of a mix of aspen, hardwood and jack pine is acceptable.											
<u>Specs:</u>											
<u>Next Step</u>											
<u>Treatments:</u>											
<u>Acceptable</u> Acceptable regen will be aspen, mixed hwd, and JP.											
<u>Regen:</u>											
<u>Other</u> Percent to Treat = 100%											
<u>Comment:</u>											
<u>Proposed Start Date:</u>		10/1 /2017									
42	52149042-NF	11.1	310 - Herbaceous Openland	Nonstocked		Unspec ified	NonForestMgt	Other - Specify	310 - Herbaceous Openland		Draft Field Boundary
Habitat Cut: No		Site Condition:									
<u>Prescription</u> Mow, plant, burn, brush, or herbicide to maintain open and/or semi open character of stand. Plant hard and/or soft mast.											
<u>Specs:</u> Sign and protect recreational trail during management activity.											
<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
43	52149043-Cut	1.2	3301 - Low Density Deciduous Trees	Nonstocked		Unspec ified	Harvest	Clearcut	3301 - Low Density Deciduous Trees		Draft Field Boundary

Habitat Cut: No**Site Condition:**

Prescription Clearcut any operable ground/accessible merchantable trees while cutting stand 67 to the south. No retention due to objectives.

Specs: Sign and protect snowmobile trail during all harvesting activity. Recommend harvesting in snow-off conditions to avoid conflict with snowmobiles.

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Objectives are to maintain a U-type. No minimum stocking requirements.

Regen:

Other Add/adjust site conditions for low/inoperable ground. Be sure to keep U0 boundaries intact.

Comment:

Proposed Start Date: 10/1 /2019

44	52149044-NF	2.1	3303 - Mixed Low Density Trees	Nonstocked		Unspec ified	NonForestMgt	Other - Specify	320 - Upland Shrub		Draft Field Boundary
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Habitat Cut: No**Site Condition:**

Prescription Mow, plant, burn, brush, or herbicide to maintain open and/or semi open character of stand. Plant hard and/or soft mast.

Specs:

Next Step

Treatments:

Acceptable

Regen:

Other

Comment:

Proposed Start Date: 10/1 /2019

51	52149051-NF	2.9	3301 - Low Density Deciduous Trees	Nonstocked		Unspec ified	NonForestMgt	Other - Specify	310 - Herbaceous Openland		Draft Field Boundary
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Habitat Cut: No**Site Condition:**

Prescription Mow, plant, burn, brush, or herbicide to maintain open and/or semi open character of stand. Plant hard and/or soft mast.

Specs: Sign and protect recreational trail during management activity.

Next Step

Treatments:

Acceptable

Regen:

Other

Comment:

Proposed Start Date: 10/1 /2019

60	52149060-Cut	3.2	4112 - Maple, Beech, Cherry Association	Sawtimber Well	93	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 to 2". Retention will be placed in northeast to protect witness trees.

Specs:

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

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

Regen:

Other

Comment:

Proposed Start Date: 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
63	52149063-Cut	63.1	4112 - Maple, Beech, Cherry Association	Sawtimber Well	88	111-140	Harvest	Clearcut with Retention	4116 - Mixed N. Hardwood - Aspen	Even-Aged	Draft Field Boundary

Habitat Cut: No**Site Condition:**

Prescription Clearcut in an effort to regenerate a higher quality stand. Retention is to be placed around high quality seed trees/phenotypes, if available. Also, do not cut (and mark leave trees around) trees >24" dbh. Otherwise, strategically place retention with consideration for aesthetics (from road) and BMPs (steep slopes or particularly sandy soils). Do not cut any conifer or underrepresented species, if found. Actual treatment acreage may be less than 75% of prescribed acreage due to steep slopes or areas of high-quality hardwood (to be managed in the future).

Next Step Monitoring, Natural Regen (Intermediate); Pesticide, Skidder/Mechanical; SitePrep, Roller Chopping; Planting, Initial Plant; Monitoring, Treatments: Artificial Regen(1yr)

Acceptable Regen: Regeneration will meet minimum stocking requirements for mixed hardwood and aspen in any combination, except no more than 20% beech.

Other Comment: Hard and/or soft mast species may be planted by wildlife in subsequent treatments.

Proposed Start Date: 10/1 /2019

64	52149064-Cut	52.8	4110 - Sugar Maple Association	Sawtimber Well	85	111-140	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 stand, focusing retention on steep slopes and/or areas with superior phenotypes for a seed source (especially consider XL trees). Do not cut any hemlock (or any other conifer); mark leave trees to protect hemlock from scorch. Retention may be greater than 10%, resulting from slope protection/BMPs. Sign and protect the dirtbike trail during harvesting operations.

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

Acceptable Regen: Acceptable regeneration will meet minimum stocking requirements for mixed hardwood and aspen in any combination, with no more than 25% beech.

Other Comment:

Proposed Start Date: 10/1 /2019

66	52149066-Cut	42.0	4110 - Sugar Maple Association	Sawtimber Well	101	111-140	Harvest	Single Tree Selection	411 - Northern Hardwood	Uneven-Aged	Draft Field Boundary
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Habitat Cut: No**Site Condition:**

Prescription Thin stand to 70-80BA, implementing 1/4- to 1/2-acre canopy gaps at a density of one per 3 or 4 acres. maintaining q-curve and moving towards an uneven-aged state. Protect sugar maple saplings in the northwest. Do not cut any hemlock or yellow birch; protect the canopies of both species. Do not cut any elm or black cherry (trace amounts in canopy). Sign and protect the snowmobile trail during all harvesting activity.

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

Acceptable Regen: Acceptable regeneration will meet minimum stocking requirements for mixed hardwood within canopy gaps.

Other Comment:

Proposed Start Date: 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
67	52149067-Cut	6.6	4116 - Mixed N. Hardwood - Aspen	Sawtimber Well	76	81-110	Harvest	Clearcut	413 - Aspen	Even-Aged	Draft Field Boundary

Habitat Cut: No**Site Condition:**

Prescription Clearcut to 2" dbh, retaining underrepresented species if desirable. Exclude very wet/saturated soils from harvest boundary and adjust site conditions layer to reflect observed BMPs. No retention due to small stand size. Grab aspen from stand 43 (U0 to north) if accessible.
Specs: Sign and protect snowmobile trail during all harvesting activity. Recommend harvesting in snow-off conditions to avoid conflict with snowmobiles.

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Regen: Acceptable regeneration will meet minimum stocking requirements for aspen. The inclusion of hardwood and/or conifer in any density will be acceptable.

Other Comment:

Proposed Start Date: 10/1 /2019

69	52149069-NF	0.7	3102 - Grass	Nonstocked	0	Unspec ified	NonForestMgt	Other - Specify	310 - Herbaceous Openland		Draft Field Boundary
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Habitat Cut: No**Site Condition:**

Prescription Mow, plant, burn, brush, or herbicide to maintain open and/or semi open character of stand. Plant hard and/or soft mast.

Specs:

Next Step Treatments:

Acceptable Regen:

Other Comment:

Proposed Start Date: 10/1 /2019

74	52149074-Cut	42.0	4110 - Sugar Maple Association	Sawtimber Well	89	111- 140	Harvest	Crown Thinning	411 - Northern Hardwood	Even-Aged	Draft Field Boundary
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Habitat Cut: No**Site Condition:**

Prescription Marked thinning to 70-80 BA with no large canopy gaps this entry. Favor (do not mark) cherry, elm, yellow birch, or any other underrepresented species unless necessary for operability. Do not mark trees within vernal pools, leaving a half-chain no-cut buffer where possible. Avoid marking trees where dense sugar maple saplings exist (in northwest) to protect regeneration. Leave a one-chain buffer around stick nest (inactive as of 6/2018) - identified by site condition and OFS point. Winter harvest only; sign and protect snowmobile/ORV trail if used as haul route.

Next Step Treatments:

Acceptable Regen:

Other Comment: Access may be possible across private property to the west or south, however no contact has been made with the private landowners. Observe stick nest for activity during timber sale prep and prior to harvesting operations. Follow the appropriate guidelines if inhabited (may require acreage/price adjustment).

Proposed Start Date: 10/1 /2019

77	52149077-Cut	3.0	4130 - Aspen	Sawtimber Well	37	81-110	Harvest	Clearcut	413 - Aspen	Even-Aged	Draft Field Boundary
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Habitat Cut: No**Site Condition:**

Prescription Clearcut to 2", retaining underrepresented species if desirable. Keep treatment north of the road. No retention due to stand size and objectives.
Specs: Sign and protect snowmobile trail during all harvesting activity. Recommend harvesting in snow-off conditions to avoid conflict with snowmobiles.

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

Acceptable Regen: Acceptable regeneration will meet minimum stocking requirements for aspen. The inclusion of hardwood and/or conifer at any density will be acceptable.

Other Comment:

Proposed Start Date: 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
78	52149078-Cut	2.4	4319 - Mixed Upland Forest	Sawtimber Well	75	81-110	Harvest	Clearcut	4211 - Planted Red Pine	Even-Aged	Draft Field Boundary

Habitat Cut: No**Site Condition:**

Prescription Clearcut all trees regardless of merchantability, requiring 6" stump height to facilitate future planting operations. No retention due to conversion objectives.

Specs: Be cautious of electrical boxes along Reams Rd. Understand R/W and/or easement prior to timber sale prep and harvesting. DO NOT CUT WITNESS TREES.

Next Step SitePrep, Roller Chopping; Burn, Slash; Pesticide, Skidder/Mechanical; SitePrep, Trenching; Planting, Initial Plant; Monitoring, Artificial Treatments: Regen(1yr); Pesticide, Hand Application; Planting, Interplant; Monitoring, Artificial Regen(3yr);

Acceptable Regen: Acceptable regeneration will meet minimum stocking standards for planted red pine, free to grow.

Other Comment: Incorporate openings into initial red pine planting for future hard/soft mast planting.

Proposed Start Date: 10/1 /2019

78	52149078-Cutx	8.6	4319 - Mixed Upland Forest	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 Clearcut to 2", expanding treatment about 1 chain into adjacent M-type to promote aspen cover. Mark to leave scattered pine (preferably white, though occasional red will be acceptable) at a density of no more than 20BA.

Specs: Retention is to be placed in south along hillsides. Be cautious of cable boxes along Reams Rd. Understand R/W and/or easement prior to timber sale prep and harvesting.

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

Acceptable Regen: Acceptable regeneration will meet minimum stocking requirements for aspen. The inclusion of mixed hardwood and/or conifer at any density will be acceptable.

Other Comment:

Proposed Start Date: 10/1 /2019

80	52149080-Cut	7.8	4119 - Mixed Northern Hardwoods	Sawtimber Well	87	111-140	Harvest	Clearcut	4211 - Planted Red Pine	Even-Aged	Draft Field Boundary
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Habitat Cut: No**Site Condition:**

Prescription Clearcut all trees regardless of merchantability, requiring 6" stump height to facilitate future planting operations. No retention due to conversion objectives, however, any sensitive or high quality (manageable) areas may be excluded from harvest if discovered during timber sale prep. Sale boundary should follow areas most affected by BBD and with dense beech brush.

Next Step SitePrep, Roller Chopping; Burn, Slash; Pesticide, Skidder/Mechanical; SitePrep, Trenching; Planting, Initial Plant; Planting, Interplant; Treatments: Pesticide, Hand Application; Monitoring, Artificial Regen(1yr); Monitoring, Artificial Regen(3yr)

Acceptable Regen: Acceptable regeneration will meet minimum stocking standards for planted red pine, free to grow.

Other Comment: To be set up with stand 8 (to north) and portion of 78 (to west). Planting operations should incorporate openings for future hard/soft mast planting.

Proposed Start Date: 10/1 /2019

80	52149080-Cutx	12.8	4119 - Mixed Northern Hardwoods	Sawtimber Well	87	111-140	Harvest	Crown Thinning	4119 - Mixed Northern Hardwoods	Even-Aged	Draft Field Boundary
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Habitat Cut: No**Site Condition:**

Prescription Thin to 80 BA. Maintain pine component for diversity and seed source, and maintain aspen for wildlife/snag material. Do not cut under-represented species (ironwood logs, black cherry, pine). Avoid large (>40' diameter) canopy gaps during this entry.

Next Step Treatments:

Acceptable Regen:

Other Comment: Portions of stand most affected by BBD and beech brush will be converted to red pine as adjoining treatment. Adjust boundaries as necessary, though try to maintain somewhat linear boundaries on the west side for red pine management operations.

Proposed Start Date: 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
82	52149082-Cut	1.6	4130 - Aspen	Sawtimber Well	58	111- 140	Harvest	Clearcut	413 - Aspen	Even-Aged	Draft Field Boundary

Habitat Cut: No**Site Condition:**

Prescription Clearcut to 2". No retention due to small stand size.

Specs: Protect witness trees.

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Regen: Acceptable regeneration will meet minimum stocking requirements for aspen. The inclusion of mixed hardwood and conifer will be acceptable at any level.

Other

Comment:

Proposed Start Date: 10/1 /2019

**Total Treatment
Acreage Proposed: 775.4**

Report 4 – Site Conditions

Gaylord Mgt. Unit

Compartment: 149

Tricia St. Pierre : Examiner

Year of Entry: 2020

Availability for Management

Total Acres	Acres Available	Acres Avail		Acres Not Available		Dominant Site Conditions						
		With Condition				5C	5T	2G	3J	3L	5E	
354	354	0		0	Aspen			0				
1	1	0		0	Bare/Sparsely Vegetated							
29	29	0		0	Herbaceous Openland							
51	50	0		1	Low-Density Trees			1				
9	9	0		0	Lowland Aspen/Balsam Poplar							
3	1	0		2	Lowland Deciduous					2		
3	1	0		3	Lowland Shrub					3		
24	24	0		0	Mixed Upland Deciduous							
904	766	136		1	Northern Hardwood	132	5	1	0	0	0	
125	124	0		1	Red Pine							1
3	3	0		0	Sand, Soil							
28	27	0		1	Upland Mixed Forest							1
3	3	0		0	Urban							
1,536	1,390	136		9	Total Forested Acres	132	5	2	5	0		2
	90%	9%		1%	Relative Percent							

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

Site No.	Dominant Site Cond Availability	Dominant Site Condition	Acres	Other Site Condition	Other Site Condition	Other Site Condition	Other Site Condition
1	Unavailable	5E: Long-Term Retention	1	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Long term retention for original RP stand.							
2	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	5	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

Gaylord Mgt. Unit

Compartment: 149

Tricia St. Pierre : Examiner

Year of Entry: 2020

3	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	1	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
4	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	1	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
5	Available	5T: Contingency Treatment for Forest Health Concerns	3	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Designate two- to four-acre area where harvesting will not occur. Observe, monitor, and record species composition for both overstory and understory as a long-term study in comparison to treated portion of the parent stand.							
6	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	0	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
9	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	68	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Consistently lower BAs, around 100. Concern over beech and beech brush in east.							

Report 4 – Site Conditions

Gaylord Mgt. Unit

Compartment: 149

Tricia St. Pierre : Examiner

Year of Entry: 2020

12	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	51	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Delay treatment for better direction on beech, hardwood regeneration. BAs currently around 120.							
14	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	13	Unspecified	Unspecified	Unspecified	Unspecified
Comments: BAs are a little low (110). Hillsides should be excluded from harvest to prevent rutting and limit erosion risk.							
15	Unavailable	5E: Long-Term Retention	1	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Long term retention for stand 78 to be placed along hillside if hill poses challenge for equipment, otherwise place retention wherever most appropriate.							
16	Available	5T: Contingency Treatment for Forest Health Concerns	2	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Designate two- to four-acre area where harvesting will not occur. Observe, monitor, and record species composition for both overstory and understory as a long-term study in comparison to treated portion of the parent stand.							
17	Unavailable	5E: Long-Term Retention	0	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Long term retention will protect witness trees.							
18	Unavailable	3L: Other wildlife concerns	0	Unspecified	Unspecified	Unspecified	Unspecified
Comments: 1-chain buffer around OFS point.							

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

Mgt. Unit

Compartment:

Year of Entry



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
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
1	42110 - Planted Red Pine	Sawtimber Well	6.2	58	111-140	BAs vary, 80-160. Fully stocked mixed hardwood understory. Small mixed hardwood opening in far northeast. Planted in fall of 1960. 1980 release - cut/girdled all broadleaf competition. Thin complete in 2003 - Squirrely Red, 52-133-00-01.
2	42110 - Planted Red Pine	Sawtimber Well	10.7	58	111-140	Variable BAs - 60-190; 127 ave BA. Trace white pine and red pine saplings in far south, <3'. Southeast is rather open, 50-75% canopy closure. 1/4+ ac non-forested opening in south-central portion of stand with quaking aspen, cherry, ironwood, honeysuckle, and sugar maple saps/poles. High red pine sap regen in northwest, old landing. Landing also has some cherry, aspen, and sumac (also one sad balsam fir and dead elderberry). Two red oak saplings, 10-20'. Heavy browsing on basswood and white ash regen. Stocking level still too low to thin this entry. Planted in fall of 1960. 1980 release - cut/girdled all broadleaf competition. Thin complete in 2003 - Squirrely Red, 52-133-00-01.
3	4119 - Mixed Northern Hardwoods	Sawtimber Well	22.2	73	111-140	The majority of this stand is lesser quality mixed hardwood with very few scattered aspen clones falling out. Barely log-sized. South half is more pole dominated. Northeast is by far the best quality portion, with rather nice logs, dominated by sugar maple and basswood. Few XL sugar maple along stand edge in NE. TSI work could improve this stand, though BA is still too low for any management. Some rolling terrain, a little steep on the south edge of the red pine (stand 1). Trace serviceberry in canopy, 4" dbh. BAs range 60-150, averaging 116. Mode 120.
4	4110 - Sugar Maple Association	Sawtimber Well	95.3	88	111-140	EAB and BBD. Some dead standing ash; beech quickly declining, some snap - all very troubled. Seldom XL SM, BW. Very concerning regeneration - dense beech (full) throughout the majority of the stand, yet there are areas with low/no beech saplings. A trace amount of living ash. Occasional scattered red maple. Tiny clone of BTA near G0 in east, associated with small but dense RM pocket. A lot of beech on SW edge of stand 11. Terrain is gently rolling to flat. Stand was TSI'd in 1978. Smaller diameter logs throughout stand. BAs range 60-140, averaging 113.5; mode 130 (though a lot at 110, also).
5	4110 - Sugar Maple Association	Sawtimber Well	11.5	93	111-140	Rather nice quality stand dominated by sugar maple and basswood, with lesser amounts of black cherry, beech, yellow birch, ironwood, and elm scattered throughout. West edge (extending into the southern portion of the stand) is sloped, west-facing, and has a heavy concentration of red maple (also higher densities of beech saplings) - transition to Kalkaska sand. Otherwise, the stand is relatively flat (gently sloping) and dominated by sugar maple and basswood on Blue Lake loamy sand. History of use permits - possibly grazing, in the 1950s. Selectively cut in 1982. More sugar maple pole timber than logs, but meets log criteria. BAs range 90-170, averaging 128.
6	42110 - Planted Red Pine	Sawtimber Well	7.6	58	141-170	Thinning complete in 2011, portion of PU3 of Berry Creek Red Pine, 52-101-10-01. Small pocket of red maple and sugar maple. More sugar maple regeneration in south central portion of stand. Dense beech regeneration in north. BAs range 80-170, averaging 135; 140 mode.



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
8	4119 - Mixed Northern Hardwoods	Sawtimber Well	37.8	88	111-140	<p>A highly variable stand; poor quality, multiple stemmed trees, variable BAs. Thinned in 2001 by Camp Pellston (Reams Berry TSI, 52-121-01-02).</p> <p>BAs range 20-180, averaging 112.</p> <p>BBD and heavy beech brush, clumpy. White pine/red pine encroachment on southwest edge. Sugar maple seedlings, <1', likely won't recruit. Area of pole sugar maple in north/northeast.</p> <p>Not bad quality. Small nonforest opening in far southeast adjacent to road - trace paper birch, black cherry, jack pine, red pine, white pine.</p> <p>Cable boxes along Reams Road.</p>
9	42110 - Planted Red Pine	Sawtimber Well	10.6	58	111-140	<p>Thinning complete in 2011, portion of PU3 of Berry Creek Red Pine, 52-101-10-01.</p> <p>Nice (high) sugar maple regeneration in north leg. South square is mostly beech. Much denser regeneration on south edge of stand (exposure to sunlight).</p> <p>Planted in 1960. North portion was thinned in 2010 (current BA: 122), south portion was thinned in 1990 (current BA: 145).</p> <p>Average BA overall: 134.</p> <p>Northeast corner of stand was an old orchard.</p>
11	4130 - Aspen	Poletimber Well	34.0	38	Unspecified	<p>Stand was harvested in 1980, cutting all trees except juneberry. Volumes from that sale indicate that the parent stand was 50% aspen and 50% mixed hardwood. Occasional residual white pine. Scattered juneberry in canopy, 6-4" dbh. Dead pin cherry, trace yellow birch, elm. Understory is fairly variable.</p> <p>Sarsaparilla is the only thing growing in a dense patch of periwinkle, with the exception of a handful of sugar maple seedlings.</p> <p>Eastern islands are a bit variable themselves. Southern-most tip of southeastern island sits on a south-facing steep-ish slope that runs into private and was left unharvested. Occupied by log bigtooth and a few log red maple.</p>
12	42110 - Planted Red Pine	Sawtimber Medium	10.8	58	141-170	<p>Thinning complete in 2011, PU2 of Berry Creek Red Pine, 52-101-10-01.</p> <p>Red pine was interplanted in 1960. Decent amount of hardwood in canopy (and one white pine). BAs range 30-180, averaging 121, but consistently stocked areas are closer to 150.</p> <p>Bracken and stiff club moss also present in subcanopy. Small oasis of bigtooth aspen, red maple, and sugar maple in south/central portion of stand. Southern-most tip has a less developed/less dense understory, heavier to sugar maple and red maple.</p>
13	4119 - Mixed Northern Hardwoods	Poletimber Medium	9.3	45	51-80	<p>Great variability of density, composition, and structure in this stand. Far east lends itself to being included in adjacent aspen stand (it's dominated by BTA), but presence of residual white pine in the canopy makes it more consistent with this stand. Consider it an inclusion, as the aspen isn't totally represented in the canopy percentages listed.</p>



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
14	4110 - Sugar Maple Association	Sawtimber Well	8.1	69	111-140	<p>TSI'd in 1981. More recently thinned as portion of PU 1, Sneaker Hardwood, 52-104-10-01. Ironwood has responded very well to the thinning...</p> <p>Northeast portion of stand is an east-facing slope towards adjacent lowland. Small clump of quaking aspen on the east edge.</p> <p>Bedstraw and thistle present. Heavy browsing on sugar maple stump sprouts, also basswood. Trace ironwood, bigtooth aspen, and beech (dead - BBD) in canopy.</p> <p>South leg was not harvested in most recent thinning and is pole-sized.</p> <p>One red oak sap <5' in south; one red pine sap <5' in north.</p>
15	4191 - Mixed Upland Deciduous with Conifer	Sapling Medium	11.0	6	Immature	<p>Final harvest complete in 2011, portion of PU5 of Berry Creek Red Pine, 52-101-10-01.</p> <p>One apple sapling. Knapweed present.</p> <p>Cherry, pine, quaking aspen dominated - has strange appearance with variable ages. Few jack pine snags. One white pine sapling on southern tip.</p> <p>Trace witch hazel and elm present.</p>
16	6119 - Mixed Lowland Deciduous Forest	Sawtimber Well	2.8	111	81-110	<p>Gently sloping to flat transitional ground between upland hardwood and lowland drainage.</p> <p>Mostly lower BAs, around 80, but a couple upwards of 140. QA was rotten.</p>
17	4139 - Aspen, Mixed Deciduous	Sapling Well	47.0	16	Unspecified	<p>Portion of Good Friday Aspen, 52-119-00-01, complete 9/2002. Road edge is more diverse than within the stand. Clump of pole hardwood in northwest: beech, ironwood, black cherry, sugar maple. Bands dominated by hardwood throughout the stand.</p> <p>Sort of hilly, occasionally (short) steep slopes. Few pockets decidedly pole. Still a lot of gaps along skid trails (trace red and white pine regeneration). Trace basswood, white ash, elm in canopy. Red oak is primarily on the slopes in the south.</p> <p>One lone sumac.</p>
18	6112 - Lowland Aspen	Poletimber Well	9.2	28	Unspecified	<p>Pretty smooshy ground. Equisetum and black ash by water (north). Virgin's bower.</p> <p>Harvested in 1990.</p> <p>**Kotar types out as Unclassified lowland - be aware of drainage throughout stand, especially as affected by Berry Ck.</p>
19	4139 - Aspen, Mixed Deciduous	Sapling Well	70.1	17	1-50	<p>Red, white, and jack pine planted in 1934 @ 600 tpa. Holiday Road Aspen, 52-110-00-01. Completed 6/2001 - clearcut all trees except red and white pine, yellow birch, hemlock, and apple.</p> <p>Dense sapling layer under pine, dominated largely by beech and red maple <1" dbh. Open areas (no residual pine canopy) are dominated by 3-4" quaking aspen in many areas. Great jack pine regeneration in bottleneck, east of road. Trace red pine regenerating along skid trails. Residual BA of pine is rather variable. 30-40-ish in most areas, 0 in some, and yet 110 in one dense clump.</p>



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
21	4130 - Aspen	Sapling Well	18.7	17	Unspecified	<p>Holiday Road Aspen, 52-110-00-01. Complete 6/2001 - clearcut all trees except red and white pine, yellow birch, hemlock, and apple. WITNESS TREES ON CORNER OF VROMAN AND HOLIDAY.</p> <p>BTA is closer to pole class than quaking aspen. Northeast (separate) portion of this stand is dominated by BTA and is the most diverse. 1 hemlock, 24" dbh with maidenhair fern and sharp-lobed hepatica. Few open pockets dominated by raspberry. Few hardwood-dominated pockets. Starting to see more stratification as aspen takes off - sugar maple and cherry and barely in the mix. Trace amounts of paper birch, elm, beech, red pine, and red oak mixed in the canopy.</p>
23	4130 - Aspen	Poletimber Well	55.5	26	Unspecified	<p>There are a few conflicting treatment histories within this stand. 1974 Salvage (species nondisclosed) and 1990 clearcut of a smaller portion within these stand boundaries.</p> <p>Trace amounts of balsam fir, elm, and white pine in the canopy. Fairly lowland tendencies; trace willow in canopy. Trace pin oak. Few log red pine in south. More oak in north half, more hazelnut in south half and west. Still feels like a sapling stand, although quaking aspen is pole/sap. Occasional log black cherry. One alternate leaved dogwood and a couple dead ash. Heavy browsing on basswood.</p> <p>Small pocket of autumn olive in the south; one rather large juniper clump just southwest of autumn olive. Scattered red pine, jack pine (pole/sap) along east edge - lot of hazelnut underneath.</p>
24	4191 - Mixed Upland Deciduous with Conifer	Sapling Well	10.7	58	1-50	<p>Thinning complete in 2011, portion of PU4 of Berry Creek Red Pine, 52-101-10-01.</p> <p>Stand was planted in 1960 @ 675 TPA, released in 1980. RP diameters are 12-14".</p> <p>Variably stocked subcanopy. Fairly consistent hardwood, but a lot of gaps. Good quality sugar maple coming up; a lot of cherry too. Heavy browsing on white ash.</p>
25	4110 - Sugar Maple Association	Sawtimber Well	35.2	75	81-110	<p>1981 TSI. Thinned as portion of PU 1 of Sneaker Hardwoods, 52-104-10-01. BA averages 89.</p> <p>Trace elm, red maple, yellow birch, bigtooth aspen, ironwood, and beech in canopy; about 2% of total canopy combined.</p> <p>Deteriorating quaking aspen on west edge with nice sugar maple poles underneath. One dense pocket of MLV. Trace white pine and white ash in subcanopy <5'. Beech subcanopy is very patchy.</p>
29	42110 - Planted Red Pine	Sawtimber Well	77.9	58	111-140	<p>1960 red pine planted; 1990 release: cut/girdle all trees except red pine; thin completed in 2003: Squirrely Red Pine, 52-133-00-01. Residual BAs range 70-160, average 119. 13" dbh average.</p> <p>1/2 acre inclusion of bigtooth aspen (4") in far east, just to southeast of stand 72.</p> <p>More beech, balsam fir in north, though mostly sugar maple. Quality varies, but mostly decent. Some porcupine damage.</p>
31	4110 - Sugar Maple Association	Sawtimber Well	2.1	79	111-140	<p>BAs range 90-170; 131 average. Couple yellow birch snags. One itty bitsy yew. . .poor guy.</p>



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
34	4130 - Aspen	Sapling Medium	58.0	16	Unspecified	Portion of Good Friday Aspen, 52-119-00-01, complete 9/2002. Regeneration is dominated by aspen with some pockets of hardwood. Few lesser stocked areas in the north. Dirtbike trail cuts through the stand in the south. Few balsam fir (residual from parent stand) in north. Very few and scattered white pine, jack pine, gooseberry, maple leaved viburnum in subcanopy. Far southeast portion is pole dominated.
35	4130 - Aspen	Sapling Well	3.9	2	Immature	Payment Unit 2 of Sneaker Hardwoods, 52-104-10-01. Cut in 2015. Trace amounts of red pine and mullein in subcanopy. Low amount of thistle.
36	4139 - Aspen, Mixed Deciduous	Sapling Medium	5.3	4	Immature	Part of Miniscule Aspen, 52-103-10-01. Completed in 2014. Red pine planted in 1934. Red pine and white pine residual from parent stand. Pole timber on site is also remnant of the parent stand. Mullein present. Regen density is a little concerning, but may need more time to adequately regenerate. Perhaps consider interplanting with pine and/or oak.
37	4130 - Aspen	Poletimber Well	24.7	28	Unspecified	Intermittent drainage throughout stand. Trace amounts of BAM, paper birch, and white ash scattered. Trace willow and michigan holly scattered throughout drainage. Multi-part stand: far southeast portion is BTA pole dominated with BC, SM, IW. Center island is QA dominated with BC; western and largest portion varies greatly and is influenced by aspect, drainage, and variations in soils and habitat types (mix of PARVCo (Ingalls loamy sand), PARVVb/AFO (East Lake Sand), AFO/AFOCa (Blue Lake Loamy Sand)).
39	4110 - Sugar Maple Association	Sawtimber Well	120.3	78	141-170	Payment Units 3, 4, and 5 of Sneaker Hardwood, 52-104-10-01. Harvested 2015-2016 sometime. Refer to stand notes once sale is closed. Portions left unharvested.
41	4130 - Aspen	Sapling Medium	6.1	4	Immature	Portion of Miniscule Aspen, 52-103-10-01. Completed in 2014. Few residual hardwood stems scattered, especially in north, >2" dbh. Mullein present. Trace elm, balsam fir, and red pine in canopy, <1%.
45	4130 - Aspen	Poletimber Well	17.9	28	Immature	Clearcut in 1990 - sale ?? Concern over autumn olive. Southwest is dominated by bigtooth aspen, otherwise it's predominately quaking. Small pocket of sapling/pole red pine in southeast; a couple jack pine. Feels like it's still a sapling stand, but it should advance to pole soon enough. Few pockets of dense sugar maple, sap/pole; couple scattered hardwood pockets.
46	4110 - Sugar Maple Association	Sawtimber Well	50.9	88	111-140	A lot of XL timber scattered. Impressive sugar maple, especially around private 40. Black cherry picks up south of the southeast corner of the private 40 in a small pocket with a few scattered in the southeeast. Dead and mostly dead beech, BBD. Trace yellow birch in southeast corner. Trace elm in canopy. Handful a dead white ash with some regen underneath, <5'. Beech brush is fully stocked in many areas. BAs average around 120.



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
47	4319 - Mixed Upland Forest	Sapling Well	17.6	18	Immature	Stand originates from Mentor Town Hall Pine, 52-113-00-01, harvest complete in March 2002. Intended to burn and replant, but regeneration must have been sufficient, as neither tasks were completed. Approximately 3 acres of the westernmost portion of the stand has very few pine regenerating. It's dominated by sugar maple, basswood, black cherry, ironwood, red maple, and quaking aspen. Jack pine throughout the stand is quickly becoming pole-sized. Great red and jack pine regeneration. *Look at harvesting timeline, equipment. Scattered choke cherry. Some areas have quite a bit of oak.
49	4110 - Sugar Maple Association	Sawtimber Well	21.8	87	81-110	One tiny yew. . . BBD. Some areas with dense beech brush. Some mortality in beech, but a lot of decline. Some maple borer. Two pole balsam fir. Lot of multi-stemmed sugar maple, basswood; few areas XL sugar maple, fairly open canopy (50-75%) with high ironwood regeneration. One small pocket of bigtooth aspen in the southwest, otherwise a few scattered.
50	4119 - Mixed Northern Hardwoods	Sapling Medium	14.7	8	1-50	Red pine was planted in 1940 along with jack pine. Final harvest in 2011, PU1 of Berry Creek Red Pine, 52-101-10-01. Somewhat concerning regen composition, especially with BBD presence. Deciduous trees outcompeting most regenerating red pine. Some hanging in there. Mullein and spotted knapweed present. Clump of pole/log mixed hardwood in northeast - sugar maple, black cherry, ironwood, beech, paper birch, white ash, red maple. BBD and EAB present. Lots of browsing pressure on regen. Turning into a semi-open beech, cherry, oak, pine complex.
52	4110 - Sugar Maple Association	Sawtimber Well	45.3	88	81-110	Solo Hardwoods, 52-102-10-01. Complete in 2015. All white ash and beech were removed at this time. Residual BAs range 70-130 except less in canopy gaps; 110 average. Heavy browsing on white ash and elderberry (EB is <1'). Bedstraw, mullein, thistle, violet present. Trace black cherry in canopy; dead standing white ash. Medium-high white ash regen in north half, not present in south. South is dominated by beech. Leelanau loamy sand across majority of stand. Small inclusion of blue lake loamy sand (southeast) and kalkaska sand (northeast tip).
53	4110 - Sugar Maple Association	Sawtimber Well	21.4	88	81-110	Manually thinned in 1980; old fences on east side in north, also along e-w 40 line in middle of stand. Variability in terrain, composition, and size classes. Few XL sugar maple, especially in northeast-central. Regen densities are variable and inconsistent - dense beech in areas, dense ironwood or ash in others, little regen in other areas yet. Pole dominated timber in north. One 4' tall white spruce. Trace red pine northeast of stand 50 (old plantation); old rock piles on the edge of this stand too. Pretty good east-facing slope, steep in spots. Sharp-lobed hepatica, leeks, helleborine, trillium, sarsaparilla ground cover. BBD; about 25% mortality in beech at this time. 1 log ironwood. Access/operability issues, especially in south half, considering hills and private line.



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
54	4130 - Aspen	Poletimber Well	2.9	42	81-110	Small stand of various timber. Two aspen clones (QA in north, BTA in south) with mixed and fairly dense hardwood outside of clones. The south portion of the north half is sapling/pole hardwood dominated, 120ish BA. Much higher inclusion of ironwood and red maple in the north half; also trace amounts of beech, red pine, basswood, and serviceberry in canopy; lower BAs, around 60. Trace red pine and jack pine in south canopy; more ironwood subcanopy too. One basswood sapling <5'. IW, BC, SM, Svcberry are all barely subcanopy in the south, having been beat out by aspen. Residual red pine, bta on edges of south portion; few jp snags. Dense ironwood subcanopy beneath XL/L hardwood extending just to the north of this stand.
56	4110 - Sugar Maple Association	Sawtimber Well	2.9	97	81-110	Trace red pine on the edge of NF type. Trace elm in canopy. Lot of pole/sapling on perimeter, encroaching NF. Some nice XL trees. BAs range 70-150, averaging 108.
57	42110 - Planted Red Pine	Sawtimber Well	1.3	78	111-140	Red and jack pine planted in 1940 (no jack pine remaining today). Long-term retention from adjacent final harvest. Few beech (pole), sugar maple (pole), and ironwood (sap) trying for canopy. Trace hardwood (log) along southeast edge. Small gap from historical/previous interior access in far west. BAs range 100-170, averaging 128.
58	4110 - Sugar Maple Association	Sawtimber Well	5.9	86	81-110	Lot of multi-stemmed hardwood. Larger diameters in the west end; pocket of beech with BBD in center of stand; small opening in far east. Trace quaking and bigtooth aspen. Trace elm. BAs range 50-110, averaging 80.
59	4139 - Aspen, Mixed Deciduous	Sawtimber Well	2.2	84	81-110	Variable densities outside of aspen. BAs range 50-140, averaging 92, but mode is 120. BBD. Heavy browsing on all subcanopy except for beech. West 1/3 is a sugar maple mix. East 2/3 is dominated by BTA with some mixed hardwood on the perimeter.
60	4112 - Maple, Beech, Cherry Association	Sawtimber Well	3.3	93	81-110	Beech Bark Disease. One yellow birch, 4" dbh. Trace white pine (pole), ironwood (pole), balsam fir (pole), and black cherry (log) in canopy. West narrow piece is dominated by red and sugar maple pole, still 75+ years old, with some basswood, beech. This portion in particular is lesser quality and has a lot of multi-stemmed trees. Red pine saplings are adjacent to road, in disturbed soil.
61	4110 - Sugar Maple Association	Sawtimber Well	7.9	78	141-170	STAND DATA IS UNEDITED TO KEEP STAND CONSISTENT WITH OVERLAPPING TREATMENT. STAND WILL BE UPDATED ONCE SALE IS CLOESD. Small hill top and south facing slope. Portions of this stand are pole dominated, typically higher to ironwood with pole sugar maple and log basswood. One living white ash, 15" dbh. White spruce regen increases adjacent to raod (medium stocking; low/trace elsewhere). BAs range 70-110 (outlier of 140).



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
62	4110 - Sugar Maple Association	Sawtimber Well	15.3	78	141-170	<p>Unharvested portion of PU 5, Sneaker Hardwoods, 52-104-10-01.</p> <p>STAND DATA IS UNEDITED TO KEEP STAND CONSISTENT WITH OVERLAPPING TREATMENT. STAND WILL BE UPDATED ONCE SALE IS CLOESD.</p> <p>Beech is hurting. Orange is visible but fading. If readvertised, it would be a TSI job, as there are a lot of pulp sticks marked and few sawlogs. Sawlogs are mostly red maple. Low volume and lesser quality stand to be thinning (by itself) at this time. Hilly in a couple spots, but very operable. Good access.</p> <p>One small pocket of blowdown with rootballs intact.</p> <p>Fairly evident transition in soil types from Cheboygan loamy sand (majority of stand, sugar maple dominated) to Kalkaska sand in the southwest (red maple, cherry dominated). There's even a small inclusion of Emmet Sandy Loam (in the southeast) where white spruce picks up. Unsure if it's the soils or just a seed source for the spruce.</p>
63	4112 - Maple, Beech, Cherry Association	Sawtimber Well	63.1	88	111-140	<p>1978 TSI/Salvage cut all aspen, elm, and yellow marked trees. The north half of this stand is more pole SM dominated with less beech, few black cherry. Southern portion is more dominated by beech, red maple, and sugar maple, then black cherry and basswood. Small non-forested opening in east-center overgrown with black cherry, red maple, beech, ironwood, and trace jack and red pine.</p> <p>50-160 range; 110 ave BA.</p> <p>BBD is pretty bad, especially in the south with significant mortality and snap. Beech regen could still be manageable in areas, but is a lost cause in areas most affected by BBD/snap. Not much else is recruiting in the subcanopy except for the occasional sugar maple.</p> <p>Trace maple leaved viburnum in north. Trace quaking aspen. Norway and white spruce planted to south on private.</p>
64	4110 - Sugar Maple Association	Sawtimber Well	56.8	85	111-140	<p>Stand is likely two-aged, as there's approximately 2% XL sugar maple 26" dbh scattered, estimated at 150+ years old. Impression of grazing history or selective cutting/salvage (seems the site could have been dominated by hemlock/white pine).</p> <p>Select cut in 1982.</p> <p>BAs variable, 50-150, averaging around 100, but most frequently around 110-120.</p> <p>Advanced BBD. Scattered aspen clones; scattered ironwood dominated pockets. Small grassy opening in the east. Trace scattered yellow birch (pole/log) and red maple (log); scattered vegetated (sap/pole) openings in southwest. More black cherry and yellow birch in extreme southwest corner.</p> <p>Trace maple leaved viburnum, balsam fir saps, alternate leaved dogwood.</p>
65	4112 - Maple, Beech, Cherry Association	Sawtimber Well	17.2	87	51-80	<p>Sloped stand. Generally south facing, but SW, SE, NE facing too in areas.</p> <p>BBD. Dirtbike trail runs through stand.</p> <p>1 white oak 11" dbh.</p> <p>South edge is largely dominated by bigtooth and red maple.</p>
66	4110 - Sugar Maple Association	Sawtimber Well	42.0	101	111-140	<p>Grazing in 1946 and '53. Select cut in 1981.</p> <p>BAs vary, 50-150, 111 average, 90 mode.</p> <p>Southwest portion of the stand is a bit soggy, but no standing water. Very easy, nearly flat terrain. Nice Q-curve to stand.</p> <p>Trace gooseberry in northwest; trace elderberry. Trace elm in canopy. Hemlock confined to the west, mostly.</p> <p>BBD.</p> <p>There's a small pocket of great sugar maple saplings in the northwest - protect if any activity happens within this stand.</p>



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
67	4116 - Mixed N. Hardwood - Aspen	Sawtimber Well	11.9	76	81-110	<p>I'm unsure of the history of this stand. Curious composition and species distribution.</p> <p>Drainage flows through the western QA dominated portion of this stand, flowing north, draining into stand 43 (UO to north where is then heads east). Mostly likely dries up in the summer. Trace dogwood and gooseberry near the stream. Trace beech in the stand.</p> <p>East of the drainage is very hilly and dry. Species composition goes from a hardwood mix with quaking aspen in the far west to QA dominated with black cherry in the floodplain, crossing the stream, then to more upland basswood/sugar maple dominated ground (high BA in dense BW), and tapering to some black cherry in the far east, picking up a couple QA again. Entire north edge stays a little damp with lesser quality hardwood/aspen.</p>
68	4110 - Sugar Maple Association	Sawtimber Well	67.6	84	111-140	<p>Select cut in 1982.</p> <p>BAs range 70-140, average 101. Mode 110.</p> <p>Trace elm in canopy. Red maple picks up in the far east. More yellow birch/ironwood by private corner in north. A lot of beech in the northeast (most volume of beech is here, in NE); less beech in the west and greater occurrence of sugar maple (sapings).</p> <p>Scattered XL sugar maple in the west.</p> <p>Trace white ash saplings in west. One pocket of Maple Leaved Viburnum.</p>
70	4111 - S.Maple, Hard Mast Association	Poletimber Well	21.7	88	51-80	<p>Select cut in 1981. BBD is pretty advanced, though there isn't a lot of snap yet.</p> <p>Came across one maple leaved viburnum.</p>
72	4116 - Mixed N. Hardwood - Aspen	Sapling Medium	5.1	16	1-50	<p>Little bit of a "catch-all" stand. Residual red pine; clump of mature hardwood; beech and fir under hardwood. Bizarre multi-aged oasis. Aspen clone is mixed with mature hardwood in east; sapling cherry clump to east of that; scattered red pine seedlings.</p> <p>Cut last YO, sparse in some areas.</p>
74	4110 - Sugar Maple Association	Sawtimber Well	47.9	89	111-140	<p>BAs range 90-160, average 130. Close to needing a thin. Dead white ash, scattered (mostly in south). Possible grazing history. Few log ironwood; trace hemlock in southwest. West half of stand is rather park-like with minimal regeneration except closer to edges. Interesting pocket in the northwest - somewhat open canopy with dense sugar maple regeneration 10-20' with log/xlog bw, bc, sm. I'd be interested to know what happened. Elm and aspen salvage and TSI in 1979 - this could account for pocket in northwest - perhaps a landing? Yellow birch densities pick up in northwest - one exceptional YBm 30" dbh. Lesser quality timber in the northwest. Beech regeneration picks up a bit in the northeast.</p>
75	4110 - Sugar Maple Association	Sawtimber Well	13.1	88	111-140	<p>Trace hemlock, yellow birch in northeast near two-track. Maple leaved viburnum and maidenhair fern nearby. Trace ironwood and beech in canopy.</p> <p>Stand mostly occupies a north-ish facing hillside with ridges. Hillsides are of fine quality. North edge of stand is flat; northeast has lesser quality hardwood with more basswood.</p> <p>BAs range 80-150, averaging 110.</p>
77	4130 - Aspen	Sawtimber Well	3.0	37	81-110	<p>Sugar maple was released when all aspen was cut in 1981. Resulted in two-aged stand.</p>



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
78	4319 - Mixed Upland Forest	Sawtimber Well	10.0	75	81-110	Scattered dead jack pine in south; jack pine pocket in north. Red maple in north-central portion of stand. Lower quality pine/mixed hardwood/aspens stand. One small yew. Multiple cable boxes along edge of Reams Road. BAs are widely variable, ranging 30-160; 101 average. No real mode.
79	4119 - Mixed Northern Hardwoods	Poletimber Well	3.5	85	51-80	Pretty variable stand, albeit small. East edge maintains more of an M-9 structure, but the rest is low quality red maple and black cherry, giving the impression of a stand that has slowly been filling in over time. Multiple age-classes represented. BAs are also highly variable, 50-170, more consistently <80. Trace XL SM. SW is dominated by bc, iw, bw. 54 year old 6" red maple. 75 year old 10" (rotten) black cherry. 84 year old 6" sugar maple - SM PRESENT IN P/S/L/X. Trace elm and yellow birch in canopy.
80	4119 - Mixed Northern Hardwoods	Sawtimber Well	22.4	87	111-140	Trace ironwood and black cherry in canopy. Poor quality red maple and beech with dense beech brush in the northwest and north central. Pole sugar maple under log red maple and XL red pine in central/northeast. The rest of the stand is mostly ironwood regeneration. Two red oak saplings. Southern portion of stand is pretty nice quality sugar maple. Gentle east-facing slope.
81	4139 - Aspen, Mixed Deciduous	Sapling Well	3.1	6	Immature	Final harvest complete in 2011, portion of PU5 of Berry Creek Red Pine, 52-101-10-01. Few scattered residual hardwood poles. Larger diameters in the north.
82	4130 - Aspen	Sawtimber Well	1.6	58	111-140	Couple X-log BTA on the perimeter of the stand, residual from parents stand (two aged, approx 80 yrs old). Few nearly pole sized ironwood in the subcanopy. Trace red maple and basswood in canopy, log.
84	4191 - Mixed Upland Deciduous with Conifer	Sawtimber Medium	2.5	84	51-80	1 JP sap 10', one YB 5" >20'. Trace honeysuckle 5-10'. BTA prominent in two separate clones. Surprising red pine regeneration, patchy in spots - germination and survival likely from soil disturbance (access to A6 to the north) and good sun exposure (road edge and hardly any vegetation on the south side of the road). Heavy to bta, wp, and bf in the far west. Trace red and sugar maple saplings in subcanopy.



Stand	Cover Type	Acres	Managed Site	General Comments:
7	330 - Low-Density Trees	6.0	No	Rogue ORV trails wind through this stand. Bluestem. Variable diameters across the site: Red pine - P/S/L; black cherry - P/S; white pine - S/P; red maple - S/P/L.
10	310 - Herbaceous Openland	1.4	No	Two-track and dirtbike trail intersect in this stand. Knapweed is still treatable.
20	3301 - Low Density Deciduous Tree	3.6	No	All size classes of black cherry represented, P/S/L. Elm is S/P. One pole balsam fir on south edge. Northernmost tip begins to drop and leads into a small (but widening) adjacent drainage.
22	3103 - Rubus-Fern	2.0	No	Northeast portion of stand is low, wet: american elm, willow, michigan holly, bullrush, red maple, yellow birch, nannyberry. Wild bergamot throughout stand, also thistle, mullein, gooseberry, and maple leaved viburnum in trace amounts. Probably an old landing - dense clump of red pine sapling regeneration.
26	3103 - Rubus-Fern	3.6	No	Filling in with trees...
27	3102 - Grass	4.1	Yes	
28	3102 - Grass	3.8	Yes	
30	3102 - Grass	1.9	No	
32	3301 - Low Density Deciduous Tree	2.5	No	Two-track through stand. South half is especially forested, 50% canopy of sapling/pole ironwood, black cherry, sugar maple, quaking aspen.
33	3301 - Low Density Deciduous Tree	20.6	No	Many trees present in various size classes, not just one as listed. Field strawberry, stiff clubmoss, goldenrod, bluestem, milkweed present. Sumac (browsed) on south end. Two-track and trail intersect in north. Couple dense clumps of forested areas. Middle of the stand is dominated by grass; north and south extremes are dominated by bracken. Opening maintenance/firewood permits issued in 1980.
38	3301 - Low Density Deciduous Tree	3.9	No	Concern over autumn olive. Wild burgamot, clumpy. Two-track through stand.
40	3301 - Low Density Deciduous Tree	5.1	No	Road corridor. Needs to be maintained to keep NF cover type. North part of stand opens up to an old landing. Opening maintenance has been performed in the past, 1980.
42	310 - Herbaceous Openland	11.1	No	One low pocket with cattails.
43	3301 - Low Density Deciduous Tree	4.4	No	Concern over buckthorn in stand. Drainage goes through stand, west to east, and connects the two U0s (stands 43 and 51). One red pine and one white pine, saplings. North portion of main stand is dominated by black cherry brush, P/S/L. Variable QA (L/P/S).



Stand	Cover Type	Acres	Managed Site	General Comments:
44	3303 - Mixed Low Density Trees	2.1	No	Multi-stemmed deciduous trees with clumpy but consistent pine of variable diameters. Could very easily be considered a forested stand, dominated by red pine, jack pine, and black cherry.
48	710 - Sand, Soil	3.1	No	Gated access to gravel pit. Trail from west (through hardwood) is totally washed out. South perimeter of pit has a bit of white spruce and red pine regenerating. *Autumn Olive.
51	3301 - Low Density Deciduous Tree	2.9	No	Encroaching cherry brush, ironwood, sugar maple. East half is kind of an old road, reclaimed by ironwood, cherry, aspen, and sugar maple. Trace basswood and white ash, <5'.
55	122 - Road/Parking Lot	2.5	No	Mentor Townhall Road
69	3102 - Grass	0.7	No	Mullein, bracken fern present. One apple tree in northwest, just outside of the stand boundaries.
71	622 - Lowland Shrub	0.8	No	Drainage through adjacent stand; natural water flow impounded by road.
73	790 - Other Bare/Sparsely Vegetate	0.6	No	Road and trail intersection with mixed trees, ferns, and grasses.
76	622 - Lowland Shrub	2.7	No	Dead black ash swamp in the north. Old railroad grade bisects stand (interrupting flow) and runs along east edge for a bit. Consistent RODW south of railroad tracks. More cattails in south end. Lupton Muck.