



Compartment Review Presentation

Gwinn Forest Management Unit

Compartment 32003

Entry Year 2022

Acreage: 1,776

County Marquette

Management Area: Dead Horse Moraines

Revision Date: 2020-07-23

Stand Examiner: Eric Brolin

Legal Description:

T. 45 N. - R. 23 W. Sections 20,29, and 32

Identified Planning Goals:

This compartment lies south of Carlshend (Skandia) with rather poor access through corporate and private lands. It consists of large wetland complexes with hardwood ridges and remote hardwood islands. Management goals of the scheduled hardwood stands are to improve stem quality and diameter class distribution while maintaining species diversity, conifer component, and den trees. All harvest plans will also include considerations for conifer retention, coarse woody debris, and BMP's. We will retain all species represented and all size classes including the large legacy trees. In addition, there are a few upland stands within this large wetland complex that have remained essentially untouched since the turn of the century that contain many special habitat elements such as super-canopy trees, numerous large snags, abundant and varied tree cavities/dens, and frequent large diameter downed trees.

Soil and topography:

Terrain is relatively level to lightly sloping with soils ranging widely from poorly drained mucks to well drained sandy loams. On the ridges and upland "islands". Major soil associations include Carbondale/Tawas mucks, Amasa, Munising-Skanee Complex, and Garlic-Alcona-Voelker Complex.

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

This compartment is comprised of primarily state land with adjacent private ownership to the north and south, and areas of bordering company land.

Unique Natural Features:

Potential for northern goshawk and red-shouldered hawk. Potential for bald eagle, osprey, and great blue heron rookery. Potential for moose and wolf. Potential for wood turtle. Potential for auricled tway-blade, veiny meadow rue, western dock, Farwell's water-milfoil, alternate-leaved water-milfoil, and linear-leaved gentian along riparian areas. Potential for calypso orchid, rayless mountain ragwort, and ram's head lady's-slipper in conifer swamps.

Archeological, Historical, and Cultural Features:

N/A

Special Management Designations or Considerations:

Trout stream buffer of 300' along Sucker Creek trout stream.

Watershed and Fisheries Considerations:

Sucker Creek trout stream.

Wildlife Habitat Considerations:

Compartment 003 is found within the Dead Horse Moraines Management Area; on Ground Moraines in southeastern Marquette, southwestern Alger, and northwestern Delta Counties. The dominant Natural Communities are poor conifer swamps, mesic northern forests, and dry northern forests. Major forest cover types include Northern Hardwood, Aspen, and Mixed Lowland Conifer. This management area contains a large proportion of hardwood forest which regenerates well partly due to the heavier snow cover and lower deer numbers than the southern portion of this Management Area. The most significant wildlife management issues in the management area are: mast (hard and soft); mature forest (upland deciduous, especially aspen and mixed forest with little understory); coarse woody debris, early successional forest, and deer wintering complexes.

The following have been identified as featured species for the Dead Horse Moraines Management Area: black bear, pileated woodpecker, ruffed grouse, and white-tailed deer.

Mineral Resource and Development Concerns and/or Restrictions

No known potential exists for commercial oil & gas production in this part of the state. The closest active sand/gravel pit is more than six miles away. Much of the compartment is covered by wetlands; potential for sand & gravel development in the compartment is likely limited. The compartment is roughly ten miles east of historic iron mines, and any iron ore potential beneath the compartment is likely too deep to have significant economic value. There is no current mineral leasing activity in the area. The state does not own all the mineral rights within the compartment. Because the mineral estate is the dominant estate, reasonable access to the surface must be provided to private owners if they choose to explore or develop their mineral rights.

Vehicle Access:

Access to the north and central part of the compartment is restricted through gated private, which may be restricted to frozen conditions, and company land. Access to the south is better from Stack Grade and through private lowland ground and company land.

Survey Needs:

Corners needed and/or need confirmation along the east border of Stands 19 and 42 for proposed treatments.

Recreational Facilities and Opportunities:

Some hunting and fishing area is available but opportunities are limited due to poor access through gated private land into state land.

Fire Protection:

Compartment is within the Gwinn protection area. This compartment has a very low risk of wildfire. It also has poor vehicle access across wet ground, gated private land, and is accessed from multiple separate areas. Somewhat longer response time from the Gwinn Field Office, 30 minutes - 1 hour.

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**

Report 1 – Total Acres by Cover Type and Age Class

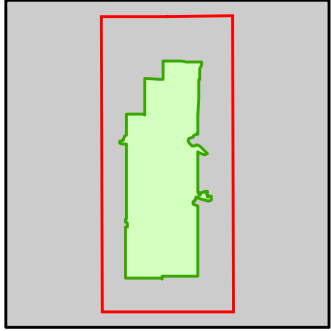


Age Class

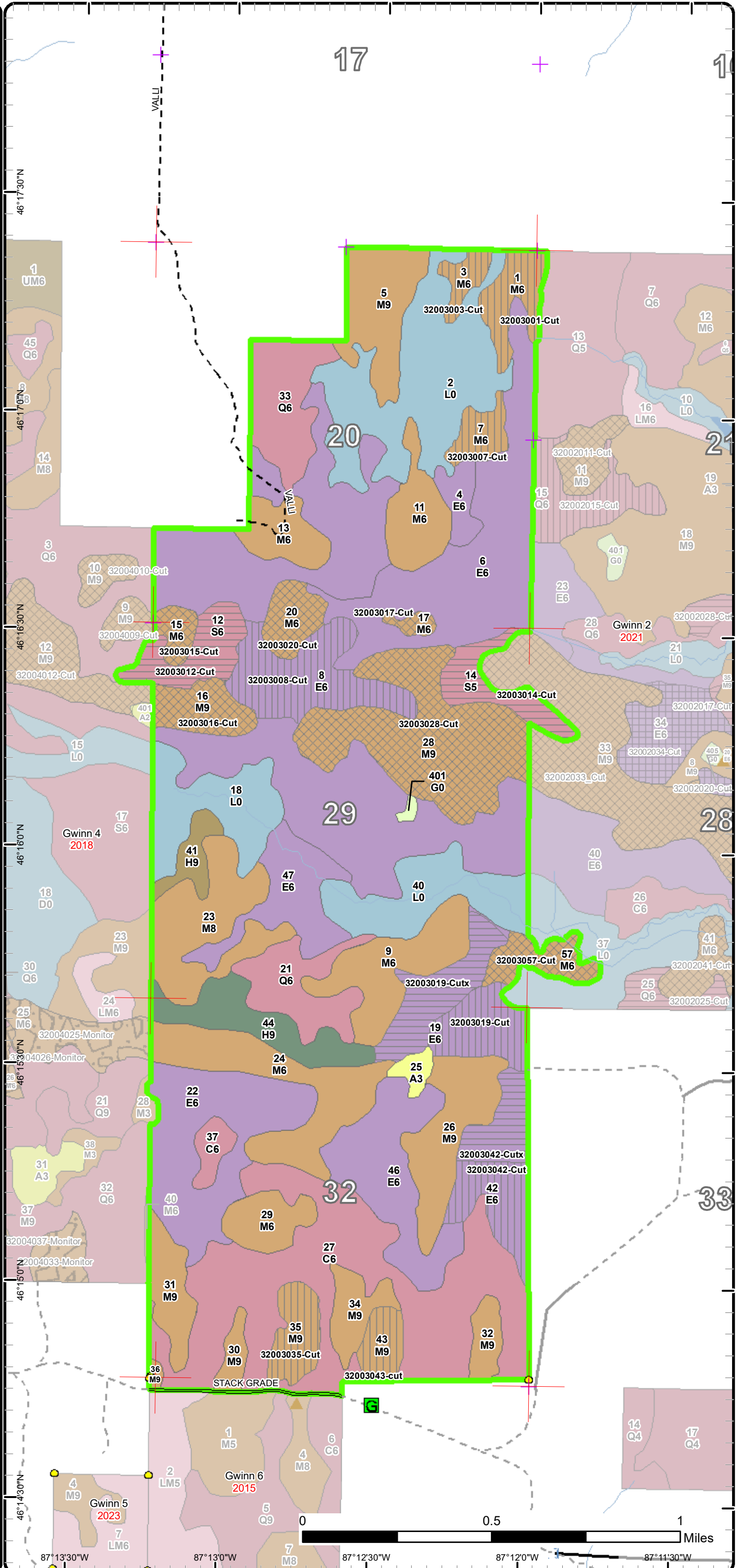
	Non-Forest	0-9	10-19	20-29	30-39	40-49	50-59	60-69	70-79	80-89	90-99	100-109	110-119	120-129	130-139	140-149	150+	Uneven-Aged	Total
Aspen	0	0	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6
Cedar	0	0	0	0	0	0	0	0	0	183	0	0	0	0	0	0	0	0	183
Hemlock	0	0	0	0	0	0	0	0	0	45	0	0	0	0	0	0	0	0	45
Herbaceous Openland	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
Lowland Conifers	0	0	0	0	0	0	0	0	0	71	0	0	0	0	0	0	0	0	71
Lowland Deciduous	0	0	0	0	0	0	0	613	0	0	38	0	0	0	0	0	0	0	651
Lowland Shrub	191	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	191
Lowland Spruce/Fir	0	0	0	0	0	0	0	0	0	46	0	0	0	0	0	0	0	0	46
Northern Hardwood	0	0	0	0	0	0	0	33	0	150	276	0	0	0	0	0	0	123	582
Total	193	0	6	0	0	0	0	646	0	150	659	0	0	0	0	0	0	123	1777

Cover Type & Treatments Map

Compartment: 3
 T45N, R23W, Sec. 20, 29, 32
 County: Marquette
 Unit: Gwinn
 Mgmt Area: Dead Horse Moraines
 YOE: 2022
 Acres: 1776.5 GIS Calculated
 Examiner: Eric Brolin
 Map Revised: 3/2/2021
 Map Phase: Post-Review

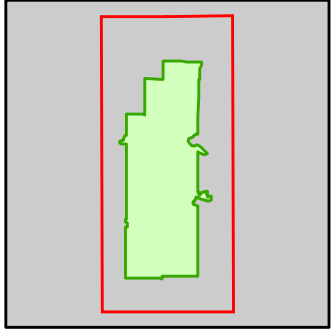


- Miris Corners
- ⊕ Remonumented Section Corners
- Survey Grade Corners
- Counties
- DNR - Secondary Forest Road
- Federal / State / County - Paved Road
- - - Federal / State - Dirt / Gravel Road
- Private - Paved Road
- - - Private - Dirt / Gravel Road
- Lake/Pond
- Perennial River
- Lakes and Rivers
- ▲ Berms
- Ⓜ Gate
- Culvert
- Compartment Boundary
- ▨ Selection (Group, Single Tree)
- ▨ Clearcut (w/Reserves)
- ▨ Shelter Wood (w/Reserves)
- 411 - Northern Hardwood
- 413 - Aspen Types
- 423 - Other Upland Conifers
- 430 - Upland Mixed Forest
- 611 - Lowland Deciduous Forest
- 612 - Lowland Coniferous Forest
- 310 - Herbaceous Openland
- 622 - Lowland Shrub

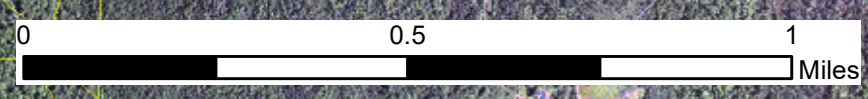
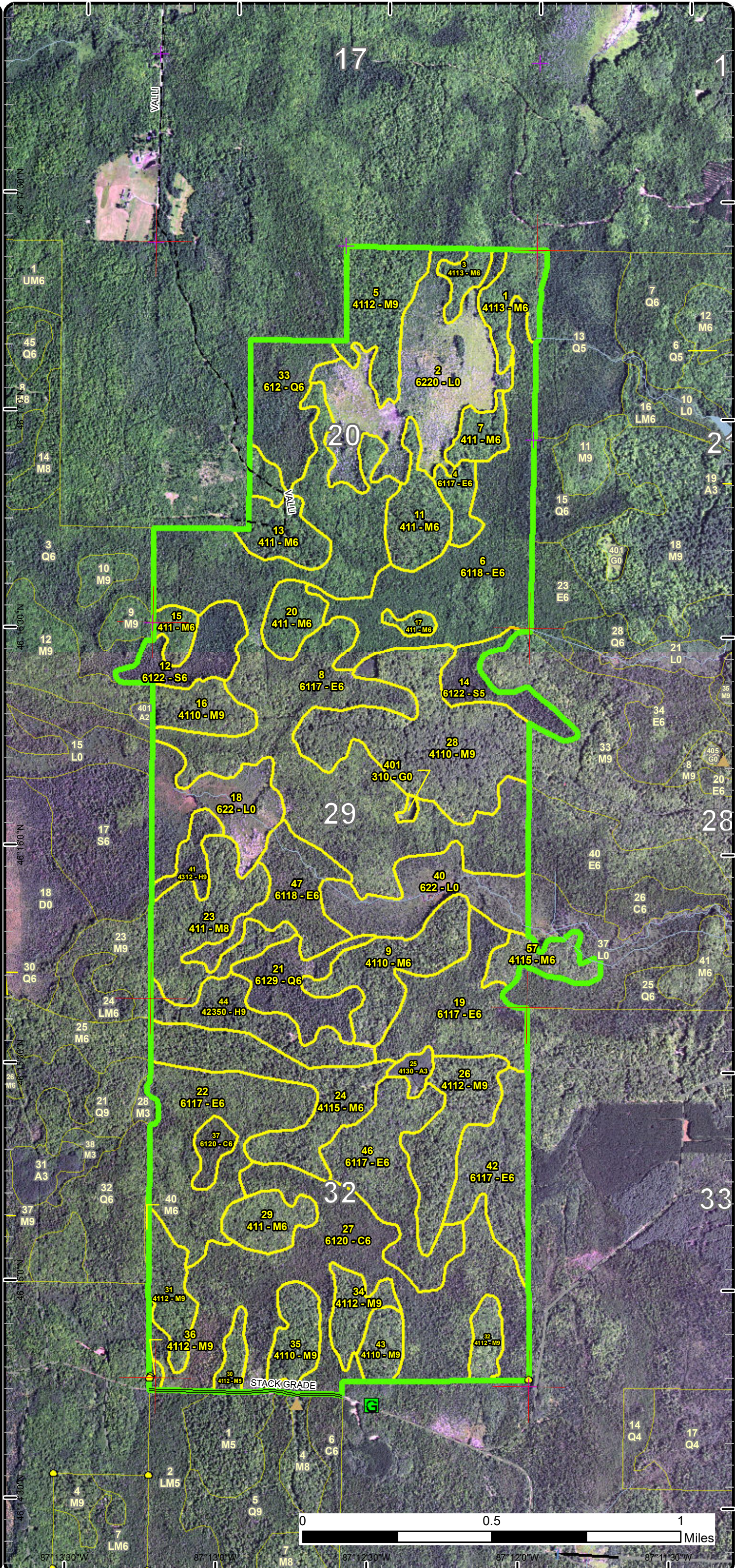


Stand Boundary Map

Compartment: 3
 T45N, R23W, Sec. 20, 29, 32
 County: Marquette
 Unit: Gwinn
 Mgmt Area: Dead Horse Moraines
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 Acres: 1776.5 GIS Calculated
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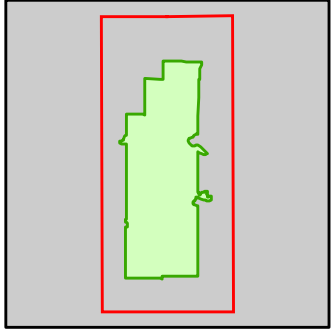
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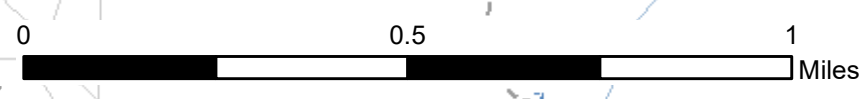
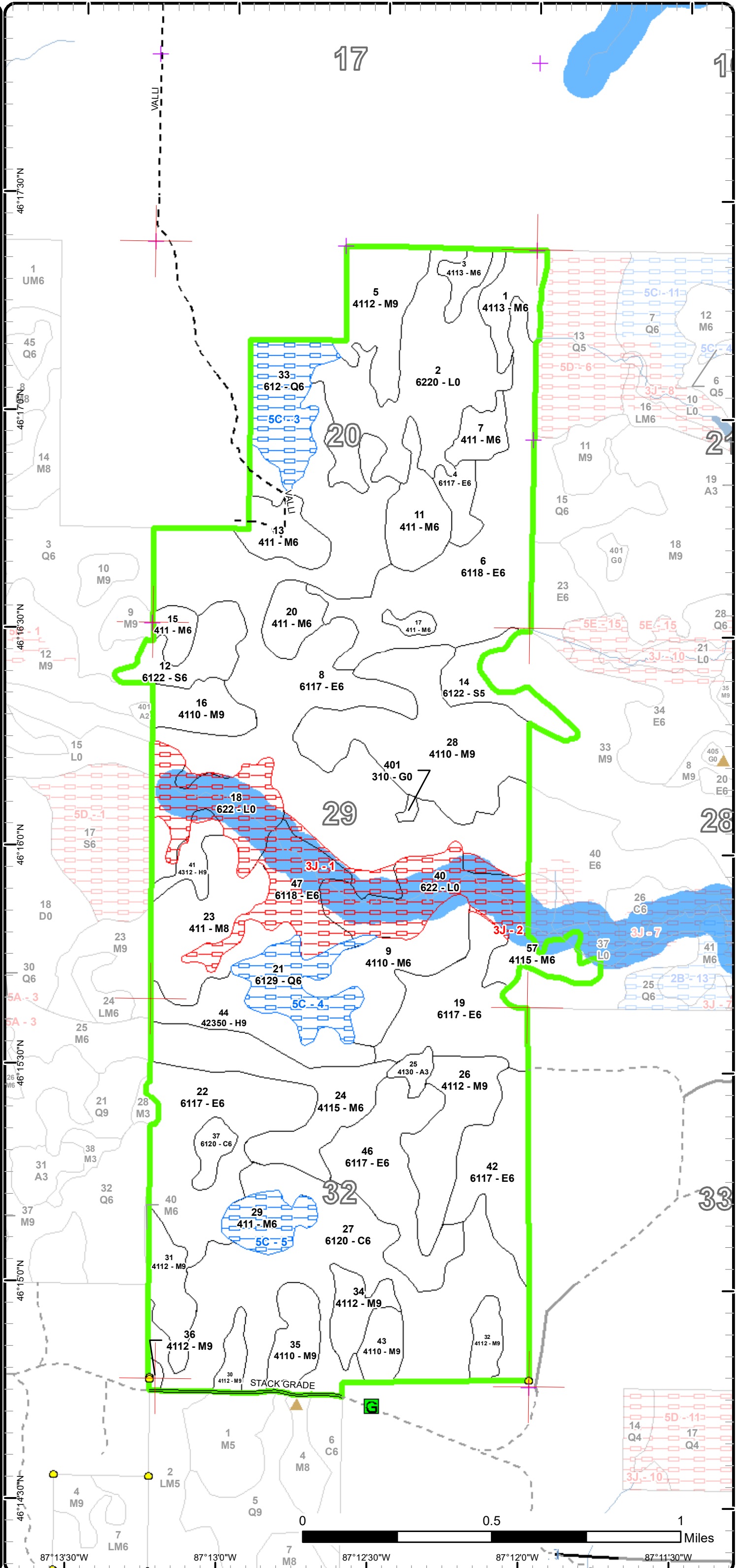
87°13'30"W 87°13'00"W 87°12'30"W 87°12'00"W 87°11'30"W

Special Conservation Areas

Compartment: 3
 T45N, R23W, Sec. 20, 29, 32
 County: Marquette
 Unit: Gwinn
 Mgmt Area: Dead Horse Moraines
 YOE: 2022
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 Examiner: Eric Brolin
 Map Revised: 3/2/2021
 Map Phase: Post-Review



- Miris Corners
- Remonumented Section Corners
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- Counties
- DNR - Secondary Forest Road
- Federal / State / County - Paved Road
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- Private - Dirt / Gravel Road
- Lake/Pond
- Perennial River
- Lakes and Rivers
- ▲ Berms
- Ⓜ Gate
- Culvert
- Compartment Boundary
- Available w/ Constraints
- Unavailable
- 5C: Delay treatment for age/size class diversity or exceptional site quality
- 3J: Water quality / BMPs (stream, river, or lake)
- Stand Boundaries
- Cold Water Streams
- High Priority Trout Stream Buffer



87°13'30"W 87°13'0"W 87°12'30"W 87°12'0"W 87°11'30"W



Report 2 – Treatment Summary

Gwinn Mgt. Unit

Year of Entry: 2022

Acres of Harvest

Compartment 3

Total Compartment Acres: 1,776

Commercial Harvest - 425
 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
Lowland Deciduous	48	0	0	0	99	0	0	0	0	147
Lowland Spruce/Fir	46	0	0	0	0	0	0	0	0	46
Northern Hardwood	0	160	0	0	72	0	0	0	0	232
Total	94	160	0	0	171	0	0	0	0	425

Proposed and Next Step Treatments by Method

	Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current	425	0	0	0	0	0	0	0	0	425
Next Step	0	0	0	46	0	0	425	0	0	471
Total	425	0	0	46	0	0	425	0	0	896



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

1	32003001-Cut	19.9	4113 - R.Maple, Conifer	Poletimber Well	91	111-140	Harvest	Shelterwood with Retention	411 - Northern Hardwood	Uneven-Aged	No
<p><u>Prescription Specs:</u> Shelterwood with residual BA of 50-60. Focus on improving quality and releasing crop trees by removing some poor quality large diameter trees and thinning dense areas of poles. Remove all merchantable spruce/fir to encourage hardwood regeneration. Leave some future snag trees for wildlife. Retain some healthy black cherry. Leave cedar, hemlock, and pine. Favor species diversity while marking.</p> <p><u>Next Step Treatments:</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Acceptable Regen:</u> northern hardwood, hemlock</p> <p><u>Other Comment:</u> Encourage marking and creating gaps around black cherry and yellow birch for mid-tolerant species regeneration. Look for easy access into Stand 7 to the south. Proposed start date moved to 10/01/2020 to combine with sale in adjacent Compartment 2 to the east.</p> <p><u>Site Condition</u> Proposed Start Date: 10/1 /2020</p>											
3	32003003-Cut	8.5	4113 - R.Maple, Conifer	Poletimber Well	91	111-140	Harvest	Shelterwood with Retention	411 - Northern Hardwood	Uneven-Aged	No
<p><u>Prescription Specs:</u> Shelterwood with a residual BA of 50-60. Focus on improving quality and releasing crop trees by removing some poor quality large diameter trees and thinning dense areas of poles. Remove all merchantable spruce/fir. Leave some future snag trees for wildlife. Retain some healthy black cherry. Leave cedar, hemlock, and pine. Favor species diversity while marking.</p> <p><u>Next Step Treatments:</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Acceptable Regen:</u> northern hardwood, hemlock</p> <p><u>Other Comment:</u> Encourage marking and creating gaps around black cherry and yellow birch for mid-tolerant species regeneration. Proposed start date moved to 10/01/2020 to combine with sale in adjacent Compartment 2 to the east.</p> <p><u>Site Condition</u> Proposed Start Date: 10/1 /2020</p>											
7	32003007-Cut	11.9	411 - Northern Hardwood	Poletimber Well	86	111-140	Harvest	Shelterwood with Retention	411 - Northern Hardwood	Uneven-Aged	No
<p><u>Prescription Specs:</u> Shelterwood with a target BA of 50-60.. Focus on improving quality and releasing crop trees by removing some poor quality large diameter trees and thinning dense areas of poles. Remove all merchantable spruce/fir to encourage hardwood regeneration. Leave some future snag trees for wildlife. Retain some healthy black cherry. Leave cedar, hemlock, and pine. Favor species diversity while marking.</p> <p><u>Next Step Treatments:</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Acceptable Regen:</u> northern hardwood, hemlock</p> <p><u>Other Comment:</u> Encourage marking and creating gaps around black cherry and yellow birch for mid-tolerant species regeneration. Look for best access from stand 1 to the north or stand 15 from the treatment to the east. Proposed start date moved to 10/01/2020 to combine with sale in adjacent Compartment 2 to the east.</p> <p><u>Site Condition</u> Proposed Start Date: 10/1 /2020</p>											

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Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
8 32003008-Cut	47.9	6117 - Lowland Deciduous, Mixed Coniferous	Poletimber Well	66	81-110	Harvest	Shelterwood with Retention	6117 - Lowland Deciduous, Mixed Coniferous	Two-Aged	No
<p><u>Prescription</u> Harvest to a 2" spec to promote hemlock, lowland conifer, and lowland hardwood regeneration. Exclude any dense cedar / hemlock patches.</p> <p><u>Specs:</u> Leave cedar, hemlock, and pine. In combination with leave species, green mark healthy yellow birch if present or other species in order to maintain 40 BA of residual across stand.</p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> red maple, yellow birch, hemlock, lowland conifer</p> <p><u>Regen:</u></p> <p><u>Other</u> Evaluate for harvesting during frozen conditions only.</p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2021</p>										
12 32003012-Cut	24.8	6122 - Black Spruce	Poletimber Well	95	81-110	Harvest	Clearcut with Retention	6122 - Black Spruce	Even-Aged	No
<p><u>Prescription</u> Harvest to a 2" spec to promote black spruce regeneration. Exclude denser patches of cedar along the NE/E edge. Leave cedar, hemlock, and pine.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory); Seeding, Machine Seed</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> black spruce, lowland conifer, pine</p> <p><u>Regen:</u></p> <p><u>Other</u></p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2021</p>										
14 32003014-Cut	21.4	6122 - Black Spruce	Poletimber Medium	95	51-80	Harvest	Clearcut with Retention	6122 - Black Spruce	Even-Aged	No
<p><u>Prescription</u> Harvest to a 2" spec to promote black spruce regeneration. Exclude denser patches of cedar along the NE/E edge. Leave cedar, hemlock, and pine.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory); Seeding, Machine Seed</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> black spruce, lowland conifer, pine</p> <p><u>Regen:</u></p> <p><u>Other</u></p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2021</p>										
15 32003015-Cut	8.6	411 - Northern Hardwood	Poletimber Well	184	111-140	Harvest	Single Tree Selection	411 - Northern Hardwood	Uneven-Aged	No
<p><u>Prescription</u> Mark stand to 70-90 BA. Focus on removing larger diameter, poorer quality trees first. Remove all merchantable spruce/fir. Leave some large future snag trees for wildlife. Leave cedar, hemlock, and pine. Favor species diversity, especially yellow birch and cherry, while marking</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> northern hardwood</p> <p><u>Regen:</u></p> <p><u>Other</u></p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2021</p>										

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Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
16 32003016-Cut	19.8	4110 - Sugar Maple Association	Sawtimber Well	92	111-140	Harvest	Single Tree Selection	411 - Northern Hardwood	Uneven-Aged	No
<p><u>Prescription</u> Mark stand to 70-90 BA. Focus on removing larger diameter, poorer quality trees first. Remove all merchantable spruce/fir. Leave some large future snag trees for wildlife. Leave trees that are 24" diameter or larger at the stump. Leave cedar, hemlock, and aspen if present. Favor species diversity and different age classes while marking.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable Regen:</u> northern hardwood</p> <p><u>Other Comment:</u> Keep steep terrain in mind while marking.</p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2021</p>										
17 32003017-Cut	3.9	411 - Northern Hardwood	Poletimber Well	86	111-140	Harvest	Single Tree Selection	411 - Northern Hardwood	Uneven-Aged	No
<p><u>Prescription</u> Mark stand to 70-90 BA. Focus on removing larger diameter, poorer quality trees first. Remove all merchantable spruce/fir. Leave some large future snag trees for wildlife. Leave trees that are 24" diameter or larger at the stump. Leave cedar, hemlock, and pine. Favor species diversity, especially yellow birch and cherry, while marking.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable Regen:</u> northern hardwood</p> <p><u>Other Comment:</u> Possible frozen access required.</p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2021</p>										
19 32003019-Cut	25.8	6117 - Lowland Deciduous, Mixed Coniferous	Poletimber Well	66	111-140	Harvest	Shelterwood with Retention	6117 - Lowland Deciduous, Mixed Coniferous	Two-Aged	No
<p><u>Prescription</u> Harvest to a 2" spec to promote hemlock, lowland conifer, and lowland hardwood regeneration. Exclude any dense cedar / hemlock patches (see reference layer for a couple of locations). Leave cedar, hemlock, and pine. In combination with leave species, green mark healthy yellow birch if present or other species in order to maintain 40 BA of residual across stand.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable Regen:</u> red maple, yellow birch, hemlock, lowland conifer</p> <p><u>Other Comment:</u> Evaluate for harvesting during frozen conditions only. A narrow ridge up the center of the east half should provide summer access to adjacent north treatment. Ribbon and GPS access to the north during prep (see reference line for approximate location).</p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2021</p>										

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Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
19 32003019-Cutx	29.4	6117 - Lowland Deciduous, Mixed Coniferous	Poletimber Well	66	111-140	Harvest	Clearcut with Retention	6117 - Lowland Deciduous, Mixed Coniferous	Two-Aged	No
<p><u>Prescription</u> Harvest to a 2" spec to promote hemlock, lowland conifer, and lowland hardwood regeneration. Exclude any dense cedar / hemlock patches.</p> <p><u>Specs:</u> Leave hemlock. Leave white pine that are 24" diameter or greater at the stump.</p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> red maple, yellow birch, hemlock, lowland conifer</p> <p><u>Regen:</u></p> <p><u>Other</u> Evaluate for harvesting during frozen conditions only.</p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2021</p>										
20 32003020-Cut	15.5	411 - Northern Hardwood	Poletimber Well	66	111-140	Harvest	Single Tree Selection	411 - Northern Hardwood	Uneven-Aged	No
<p><u>Prescription</u> Mark stand to 70-90 BA. Focus on removing larger diameter, poorer quality trees first. Remove all merchantable spruce/fir. Leave some</p> <p><u>Specs:</u> large future snag trees for wildlife. Leave cedar, hemlock, and pine. Favor species diversity, especially yellow birch and cherry, while marking</p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> northern hardwood</p> <p><u>Regen:</u></p> <p><u>Other</u> Possible frozen access required.</p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2021</p>										
28 32003028-Cut	95.0	4110 - Sugar Maple Association	Sawtimber Well	92	111-140	Harvest	Single Tree Selection	411 - Northern Hardwood	Uneven-Aged	No
<p><u>Prescription</u> Mark stand to 70-90 BA. Focus on removing larger diameter, poorer quality trees first. Remove all merchantable spruce/fir. Leave some</p> <p><u>Specs:</u> large future snag trees for wildlife. Cut areas heavier that have black cherry to allow gaps for mid-tolerant species. Leave a few larger, healthy black cherry. Leave cedar, hemlock, and aspen if present. Favor species diversity and different age classes while marking.</p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> northern hardwood</p> <p><u>Regen:</u></p> <p><u>Other</u> Keep steep terrain in mind while marking.</p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2021</p>										
35 32003035-Cut	18.7	4110 - Sugar Maple Association	Sawtimber Well	91	111-140	Harvest	Shelterwood	411 - Northern Hardwood	Uneven-Aged	No
<p><u>Prescription</u> Mark stand to leave 40 - 50 BA of better quality hardwoods. This will release the dense maple sapling understory and encourage mid-tolerant</p> <p><u>Specs:</u> species such as black cherry and yellow birch. Remove all merchantable spruce/fir. Leave cedar, hemlock, pine, and yellow birch.</p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> northern hardwood</p> <p><u>Regen:</u></p> <p><u>Other</u></p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2021</p>										



Standard

Standard	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
	42 32003042-Cut	25.4	6117 - Lowland Deciduous, Mixed Coniferous	Poletimber Well	66	111-140	Harvest	Shelterwood with Retention	6117 - Lowland Deciduous, Mixed Coniferous	Two-Aged	No
	<p><u>Prescription</u> Harvest to a 2" spec to promote hemlock, lowland conifer, and lowland hardwood regeneration. Exclude any dense cedar / hemlock patches.</p> <p><u>Specs:</u> Leave cedar, hemlock, and pine. Retention should include some black ash. In combination with leave species, green mark healthy yellow birch if present or other species in order to maintain 40 BA of residual across stand.</p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> red maple, yellow birch, hemlock, lowland conifer</p> <p><u>Regen:</u></p> <p><u>Other</u> Evaluate for harvesting during frozen conditions only.</p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2021</p>										
	42 32003042-Cutx	18.6	6117 - Lowland Deciduous, Mixed Coniferous	Poletimber Well	66	111-140	Harvest	Clearcut with Retention	6117 - Lowland Deciduous, Mixed Coniferous	Two-Aged	No
	<p><u>Prescription</u> Harvest to a 2" spec to promote hemlock, lowland conifer, and lowland hardwood regeneration. Exclude any dense cedar / hemlock patches.</p> <p><u>Specs:</u> Leave hemlock and white pine.</p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> red maple, yellow birch, hemlock, lowland conifer</p> <p><u>Regen:</u></p> <p><u>Other</u> Evaluate for harvesting during frozen conditions only.</p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2021</p>										
	43 32003043-cut	12.5	4110 - Sugar Maple Association	Sawtimber Well	91	81-110	Harvest	Shelterwood	411 - Northern Hardwood	Uneven-Aged	No
	<p><u>Prescription</u> Mark stand to leave 40 - 50 BA of better quality hardwoods. This will release the dense maple sapling understory and encourage mid-tolerant species such as black cherry and yellow birch. Remove all merchantable spruce/fir. Leave cedar, hemlock, and pine.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> northern hardwood</p> <p><u>Regen:</u></p> <p><u>Other</u> Access from the west will require frozen conditions or mats to cross narrow lowland swale.</p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2021</p>										

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Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
57 32003057-Cut	17.5	4115 - Y.Birch, Hemlock NH	Poletimber Well	66	111-140	Harvest	Single Tree Selection	411 - Northern Hardwood	Uneven-Aged	No
<p><u>Prescription</u> Mark stand to 70 - 90 BA. Focus on removing the poorer quality maple to improve stand quality while maintaining target BA. Leave some future sang trees for wildlife. Leave cedar, hemlock, and pine. Favor species diversity, especially yellow birch, while marking.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> northern hardwood, hemlock</p> <p><u>Regen:</u></p> <p><u>Other</u> Access from south along the top of a narrow ridge for dry ground. Avoid marking in dense patches of hemlock.</p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2021</p>										
9 32004009-Cut	8.7	4115 - Y.Birch, Hemlock NH	Sawtimber Well	104	81-110	Harvest	Single Tree Selection	411 - Northern Hardwood	Uneven-Aged	No
<p><u>Prescription</u> Mark stand to 70-90 BA. Focus on removing larger diameter, poorer quality trees first. Remove all merchantable spruce/fir. Leave some large future snag trees for wildlife. Leave cedar, hemlock, and pine. Favor species diversity, especially yellow birch and cherry, while marking.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> northern hardwood</p> <p><u>Regen:</u></p> <p><u>Other</u></p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2021</p>										
10 32004010-Cut	9.4	4115 - Y.Birch, Hemlock NH	Sawtimber Well	104	81-110	Harvest	Single Tree Selection	411 - Northern Hardwood	Uneven-Aged	No
<p><u>Prescription</u> Mark stand to 70-90 BA. Focus on removing larger diameter, poorer quality trees first. Remove all merchantable spruce/fir. Leave some large future snag trees for wildlife. Leave cedar, hemlock, and pine. Favor species diversity, especially yellow birch and cherry, while marking.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> northern hardwood</p> <p><u>Regen:</u></p> <p><u>Other</u> Access across lowland.</p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2021</p>										
12 32004012-Cut	43.8	4115 - Y.Birch, Hemlock NH	Sawtimber Well	104	81-110	Harvest	Single Tree Selection	411 - Northern Hardwood	Uneven-Aged	No
<p><u>Prescription</u> Mark stand to 70-90 BA. Focus on removing larger diameter, poorer quality trees first. Remove all merchantable spruce/fir. Leave some large future snag trees for wildlife. Leave cedar, hemlock, and aspen if present. Favor species diversity and different age classes while marking.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> northern hardwood</p> <p><u>Regen:</u></p> <p><u>Other</u></p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2021</p>										

Total Treatment 487
Acreage Proposed:

Report 4 – Site Conditions

Gwinn Mgt. Unit
Eric Brolin : Examiner

Compartment: 3
Year of Entry: 2022

Availability for Management

Total Acres	Acres Available	Acres Avail		Dominant Site Conditions	5C	3J
		With Condition	Not Available			
6	6	0	0	Aspen		
183	183	0	0	Cedar		
45	44	0	1	Hemlock		1
2	2	0	0	Herbaceous Openland		
71	0	71	0	Lowland Conifers	71	
651	600	0	51	Lowland Deciduous		51
191	104	0	87	Lowland Shrub		87
46	46	0	0	Lowland Spruce/Fir		
583	564	19	0	Northern Hardwood	19	
1,776	1,548	89	139	Total Forested Acres	89	139
	87%	5%	8%	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	3J: Water quality / BMPs (stream, river, or lake)	138	2G: Too wet (sensitive soils, does not include access issues)	Unspecified	Unspecified	Unspecified
Comments: Site condition includes areas too wet and a 300' trout stream buffer on possible harvestable stands.							
2	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	1	5E: Long-Term Retention	Unspecified	Unspecified	Unspecified
Comments: Retain for 300' trout stream buffer and long-term retention for stand 19.							
3	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	38	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Stand will be evaluated next YOE when adjacent maple and E6 stands should be harvested. Frozen / private access from the north.							

Report 4 – Site Conditions

Gwinn Mgt. Unit
Eric Brolin : Examiner

Compartment: 3
Year of Entry: 2022

4	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	33	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Evaluate for harvest when adjacent stands are treated for best access.							
5	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	19	Unspecified	Unspecified	Unspecified	Unspecified
Comments: No adjacent harvests, hold until adjacent stands north are harvested for better access into this stand.							

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	4113 - R.Maple, Conifer	Poletimber Well	19.9	91	111-140	N/A	<p>Poorer quality mixed hardwoods, dense with better quality pole sized red maple. Large diameter red maple and yellow birch with declining black cherry distributed evenly across stand. Fir and hemlock saplings in the understory. Transitions to areas of lower ground as you head south into the fingers. A majority of the red maple is larger pole sized, very few log diameter sized trees. Stand would benefit greatly from an improvement thinning. Access would be from the north through Weyerhaeuser land. 120 120 140 Average of 125 BA.</p> <p>DURING PREP, EVALUATE EASY ACCESS FROM SOUTH TIP INTO STAND 7 TO THE SOUTH FOR HARVEST.</p> <p>OPIC - FMD: Fair to poor quality peninsula of large remnant red maple, yellow birch, hemlock, and fir sawtimber and poles over red maple, fir, and hemlock saplings. No access due to beaver flooding west and south. Stand contains original yellow birch bearing tree still alive from 1852.</p>																																																						
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2	6220 - Alder/willow	Nonstocked	99.1			No																																																							
<p>Large open alder flooding. Small fingers of hemlock/cedar along the north edge.OPIC - FMD: Old beaver flooding.</p>																																																													
3	4113 - R.Maple, Conifer	Poletimber Well	8.5	91	111-140	N/A	<p>Poorer quality mixed hardwoods, dense with better quality pole sized red maple. Large diameter red maple and yellow birch with declining black cherry distributed evenly across stand. Fir and hemlock saplings in the understory. Transitions to areas of lower ground as you head south into the fingers. A majority of the red maple is larger pole sized, very few log diameter sized trees. Stand would benefit greatly from an improvement thinning. Access would be from the north through Weyerhaeuser land. 120 120 140 Average of 125 BA.</p> <p>OPIC - FMD: Fair to poor quality peninsula of large remnant red maple, yellow birch, hemlock, and fir sawtimber and poles over red maple, fir, and hemlock saplings. No access due to beaver flooding west and south. Stand contains original yellow birch bearing tree still alive from 1852.</p>																																																						
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4	6117 - Lowland Deciduous, Mixed Coniferous	Poletimber Well	10.8	66	81-110	N/A																																																							
<p>Remote call - time constraints. Imagery suggests an E6 similar to many other stands in this area. A two-aged mix of red maple poles with an older age class of mixed lowland conifer and hardwoods with hemlock evenly distributed across stand. Access through private from the west, winter road. Evaluate for harvest during next YOE when hardwood may be ready to thin. Compare to success of harvest and treatments in stand 19/42 for possible future prescriptions.</p>																																																													



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																
5	4112 - Maple, Beech, Cherry Association	Sawtimber Well	38.2	91	81-110	N/A	<p>Maple log stand with dense hardwood regeneration across entire understory. Moderate to better quality overall with a good mix of large kinked, burly, and low forked trees. Fairly open canopy with lighter BA. Lower ground fingers on the south edge were not included in past harvest. Edges and south fingers transition to softer ground with more red maple and yellow birch. 80 80 90 Average of 85 BA.</p> <p>OPIC - FMD: High quality mixed hardwood stand of sugar maple, cherry, and soft maple. Scattered super canopy white pine and hemlock. Cut in 2004 under permit # 001-02-01. Good hardwood regen from the the cutting in 2004 with excellent red maple stump sprouts.</p>																																																
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6	6118 - Lowland Deciduous with Cedar	Poletimber Well	108.2	66	81-110	N/A	<p>Remote call - time constraints. Should be similar to Stand 23 / Compartment 2 to the east. A mix of smaller red maple poles with less conifer, cedar speckled in, and sparse black ash. Lower, flatter ground than other similar lowland deciduous stands in this area which contain more hemlock, yellow birch, and larger diameter maple poles of the same age.</p> <p>OPIC - FMD: SCA Former potential old growth. Q5E5. This stand is a mix of swamp conifers black ash, and red maple with islands of upland hardwoods and large conifers. Low and wet. Understory ranges from fir to black ash. It has not had any activity since the turn of the century, and therefore contains many of stand level attributes of an old growth stand including large diameter hardwoods, hemlock, and white pine. Recommend retaining this stand as potential old growth..</p>																																																
7	411 - Northern Hardwood	Poletimber Well	11.9	86	111-140	N/A	<p>Remote call - time constraints. Stand was NOT harvested in winter of 2014 with stands to the west and winter access through private. Should be ready to treat. Possible access from Stand 15 / Compartment 2 to the east or stand 1 to the north. Evaluate during prep for best access.</p> <p>OPIC - FMD: Similar to stand 11. Fair quality mixed hardwood pole stand comprised of sugar maple, red maple, and cherry with scattered hemlock and yellow birch. Large remnants throughout the stand. Occasional upland cedar. Inaccessible due to beaver flooding and swamp crossing.</p>																																																
8	6117 - Lowland Deciduous, Mixed Coniferous	Poletimber Well	260.5	66	81-110	N/A	<p>Remote call across non-treatment areas - time constraints. Imagery suggests an E6 similar to many other stands in this area. A two-aged mix of red maple poles with an older age class of mixed lowland conifer and hardwoods with hemlock evenly distributed across stand. Access through private from the west, winter road. Evaluate for harvest during next YOE when hardwood may be ready to thin. Compare to success of harvest and treatments in stand 19/42 for possible future prescriptions.</p>																																																
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9	4110 - Sugar Maple Association	Poletimber Well	42.3	94	81-110	N/A	<p>Remote call - time constraints. Patches more dense to maple. Areas dense to hemlock and other mixed conifer.</p>																																																



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
11	411 - Northern Hardwood	Poletimber Well	25.1	86	81-110	N/A	<p>Remote call - time constraints. Harvested in winter of 2014, see old stand notes.</p> <p>OPIC - FMD: Fair quality mixed hardwood pole stand comprised of sugar maple, red maple, and cherry with scattered hemlock and yellow birch. Large remnants throughout the stand. Occasional upland cedar. Access will be difficult and limited to winter months. In addition, permission will be required from 3 landowners to cross their lands. Management goals of the scheduled hardwood stand are to improve stem quality and diameter class distribution while maintaining species diversity, conifer content, and den trees. The harvest plan will also include considerations for conifer retention, coarse woody debris, and BMP's, with all hemlock, cedar, white pine or red pine to be retained. We will retain all species represented and all size classes including the large legacy trees. Cut by Pete Hill winter of 2014 under contract # 018-12-01.</p>
12	6122 - Black Spruce	Poletimber Well	24.8	95	81-110	N/A	<p>Remote call - time constraints. Imagery looks like dense black spruce with patches of cedar in the north tip and tamarack speckled within. Probably ready for harvest.</p> <p>OPIC - FMD: Essentially a treed bog with a few spruce poles.</p>
13	411 - Northern Hardwood	Poletimber Well	20.0	86	51-80	N/A	<p>Remote call - time constraints. Harvested in winter of 2014, see old stand notes.</p> <p>OPIC - FMD: ...2010- Fair quality hardwoods with a good component of cherry with the quality dropping going north to east. Access via winter road thru several private landowners. Schedule treatment with stand 11. Management goals of the scheduled hardwood stand are to improve stem quality and diameter class distribution while maintaining species diversity, conifer content, and den trees. The harvest plan will also include considerations for conifer retention, coarse woody debris, and BMP's, with all hemlock, cedar, white pine to be retained. We will retain all species represented and all size classes including the large legacy trees. Cut winter of 2014 under contract # 018-12-01.</p>
14	6122 - Black Spruce	Poletimber Medium	21.4	95	51-80	N/A	<p>Remote call - time constraints. Looked at east tip from Compartment 2 in February, 2019. Sparser canopy black spruce with scattered white pine.</p> <p>OPIC - FMD: Poorly stock black spruce pocket, almost a treed bog.</p>
15	411 - Northern Hardwood	Poletimber Well	8.6	184	111-140	N/A	<p>Remote call - time constraints.</p> <p>OPIC - FMD: SCA Former potential old growth. Another island of hardwoods surrounded by swamp conifers. The stand consists primarily of soft maple poles with large remnant soft maple and yellow birch sawtimber, hemlock, and cherry. It has not had any activity since the turn of the century, and therefore contains many of stand level attributes of an old growth stand including large diameter hardwoods, hemlock, and white pine. Recommend retaining this stand as potential old growth..</p>



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																																																	
16	4110 - Sugar Maple Association	Sawtimber Well	19.8	92	111-140	N/A	Average of 130+ BA. 4/2019 - Brolin. OPIC - FMD: FDF., ACCESS FROM EAST. CUT UNDER PRMT.# 1-92-1, FINISHED IN 1999 2010 - Long east/west ridge of mixed hardwoods, fairly steep in places. Excellent sugar maple regeneration. The stand is primarily sugar maple with red maple and yellow birch.																																																																																	
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17	411 - Northern Hardwood	Poletimber Well	3.9	86	111-140	N/A	Remote call - time constraints. Small hump of maple surrounded by lowland hardwoods. OPIC - FMD: SCA Very small island of hardwood converting to fir. It has not had any activity since the turn of the century, and therefore contains many of stand level attributes of an old growth stand including large diameter hardwoods, hemlock, and white pine. Recommend retaining this stand as potential old growth.																																																																																	
18	622 - Lowland Shrub	Nonstocked	45.0	0	Unspecified	No	Remote call - time constraints. Flooded lowland shrub area.																																																																																	
19	6117 - Lowland Deciduous, Mixed Coniferous	Poletimber Well	55.8	66	111-140	N/A	Older conifer and yellow birch with patches of black spruce and cedar / hemlock scattered across stand. Any openings in the conifer cover is growing poor quality red maple. Red maple ranges from small pole sized to small sawlog sized trees. Softer ground with small elevation humps and ridges within. Hardwood has no room to grow and there is too much of a conifer component to perform a thinning. A narrow ridge runs north / south up the center of the east half which will make solid access to the north adjacent stand. Some small very low pockets have black ash mixed in. Area in center is less productive ground with short maple and cedar poles. North finger transitions to a more sparse canopy of tamarack and small sawlog sized white pine. OPIC - FMD: Q5E5. This stand is a mix of swamp conifers black ash, and red maple. Low and wet. Understory ranges from fir to black ash.																																																																																	
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20	411 - Northern Hardwood	Poletimber Well	15.5	66	111-140	N/A	Remote call - time constraints. Slight elevation hump from surrounding lowland hardwoods. Red male poles with hemlock and mixed conifer.																																																																																	
21	6129 - Mixed Coniferous Lowland Forest	Poletimber Well	33.0	95	81-110	N/A	Edge call - time constraints. Did not enter stand. Viewed from edge on access road in south fingers. Looks to contain dense cedar with black spruce poles and other mixed conifer. May be too dense to cedar for harvest. OPIC - FMD: Poorly stock black spruce pocket, almost a treed bog.																																																																																	
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22	6117 - Lowland Deciduous, Mixed Coniferous	Poletimber Well	76.9	66	111-140	N/A	Edge call - time constraints, did not enter stand. Older conifer and yellow birch with cedar and hemlock scattered across stand. Any openings in the conifer cover is growing poor quality red maple. Red maple ranges from small pole sized to small sawlog sized trees. Softer ground with small elevation humps and ridges within. Hardwood has no room to grow and there is too much of a conifer component to perform a thinning. Some small very low pockets and the south edges have black ash mixed in.																																																									
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23	411 - Northern Hardwood	Sawtimber Medium	52.4	93	51-80	N/A	Remote call - time constraints. Sparser canopy with good percentage of hemlock / white pine canopy. OPIC - FMD: M4Q4, Treated under permit # 2-92-1, sale completed in 1996. Good soft maple regeneration.																																																									
24	4115 - Y.Birch, Hemlock NH	Poletimber Well	57.2	91	81-110	N/A	Edge call - time constraints. From the road along the north edge stand appeared to be a ridge solid to sugar maple with hemlock dense in areas. Lighter canopy yet from past thinning. OPIC - FMD: A mix of fair to poor quality hardwoods on a long sand ridge. Soft maple poles predominate with aspen and several hemlock inclusions. Cut by Kanerva under permit # 002-02-01																																																									
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25	4130 - Aspen	Sapling Well	5.5	16	Immature	N/A	Aspen stand very dense to saplings 20' - 30' tall. small steep. A small steep ridge runs along the north edge. OPIC - FMD: Cut by Kanerva under permit # 002-02-01. Fully stocked 10-15' aspen saplings.																																																									
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26	4112 - Maple, Beech, Cherry Association	Sawtimber Well	40.8	86	81-110	N/A	Maple log stand ranging from larger poles to large diameter log trees of moderate quality. The canopy is fairly open with lots of room to grow yet, 2020. Dense maple sapling understory 10' - 20' tall, denser in more open canopy gaps. Conifers along the edges. A lower drainage cuts E/W across the center with some black ash mixed in. 90 110 100 70 120 Average of 90 BA.OPIC - FMD: Stand treated by Kanerva under permit # 002-02-01. Fairly good quality mixed hardwoods of soft maple, hard maple, yellow birch, and hemlock. Occasional cherry and large white pine. Red maple stump sprouts and hard maple seedlings are being browsed very heavily, probably a result of the heavy deer migration route.																																																									
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27	6120 - Lowland Cedar	Poletimber Well	174.3	94	111-140	N/A	<p>A large web of lowland conifer drainage ways. Ranges from dense cedar to ash / alder swales to small patches of black spruce. Areas of red maple mixed in. Hemlock scattered within most areas. Spent some time investigating areas identified from imagery that appeared operable / harvestable. Besides a few very small patches of black spruce, this stand does not have potential to be harvested between dense cedar / hemlock areas and wet drainage ways.</p> <p>OPIC - FMD: Q5E5 a mix of swamp conifers and lowland hardwoods. Extremely wet. Understory consists of tag alder and small fir.</p>				
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size	
Northern White Cedar		53	Log/Pole	10	94	Balsam Fir		Medium	Variable	Sapling	
Yellow Birch		3	Log/Pole	12		Northern White Cedar		Medium	Variable	Pole	
White Spruce		3	Log	14		Alder		Medium	5 - 10 feet	Tall Shrub	
Balsam Fir		5	Pole	7							
Red Maple		6	Pole	8	66						
Black Ash		6	Pole	8	94						
White Pine		2	Log	16							
Hemlock		8	Log	14							
Black Spruce		14	Pole	8	94						
28	4110 - Sugar Maple Association	Sawtimber Well	95.0	92	111-140	N/A		<p>Large diameter sugar maple. A lot of larger, 18"+, poor quality. Smaller log sized trees and poles have moderate-good quality. Yellow birch 30"+ within stand. Steeper ridges and slopes along north edge bordering lowland stands. Road has mostly nice gravel base with some spots that hold water. Very dense advanced regen of maple will fill in any canopy opens quickly.</p> <p>Average of 130+ BA. 4/2019 - Brolin.</p> <p>OPIC - FMD: FDF., ACCESS FROM EAST. CUT UNDER PRMT.# 1-92-1, FINISHED IN 1999 2010 - Long east/west ridge of mixed hardwoods, fairly steep in places. Excellent sugar maple regeneration. The stand is primarily sugar maple with red maple and yellow birch.</p>			
Canopy Species		% Cover	Size Class	DBH	Age						
Sugar Maple		74	Log	16	92						
Red Maple		15	Log/XLog	16							
Black Cherry		3	Log	14							
Basswood		3	Log	12							
Hemlock		3	XLog/Log	18							
White Pine		1	XLog	24							
Ironwood		1	Pole	9							
29	411 - Northern Hardwood	Poletimber Well	18.6	81	111-140	N/A	<p>Remote call - time constraints. Maple patch surrounded by lowland. Sugar maple in the center transitioning to red maple along the edges.</p> <p>OPIC - FMD: Smallish island of hardwood surrounded by swamp conifers and lowland hardwoods. The hardwoods consist of red maple, hard maple, and cherry with scattered yellow birch, hemlock, and super canopy white spruce. Some of the yellow birch are huge, as are a few soft maple.</p>				
Canopy Species		% Cover	Size Class	DBH	Age						
Sugar Maple		10	Log/Pole	10							
Hemlock		1	Log	16							
Red Maple		85	Log/Pole	11	86						
White Spruce		2	Log	14							
30	4112 - Maple, Beech, Cherry Association	Sawtimber Well	7.6	86	51-80	N/A	<p>Poor to mid quality red maple, small sawlog sized trees. Fairly open canopy with gaps across stand. Dense fir and red maple sapling understory. Average of 70 BA.</p> <p>OPIC - FMD: Fair to poor quality soft maple on a peninsulay that extends into a conifer swamp. Sale cut by Kanerva winter 2005 under permit # 003-02-01.</p>				
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size	
Sugar Maple		10	Log/Pole	10		Balsam Fir		High	10 - 20 feet	Sapling	
Hemlock		1	Log	16		Red Maple		High	10 - 20 feet	Sapling	
Red Maple		85	Log/Pole	11	86						
White Spruce		2	Log	14							



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																								
31	4112 - Maple, Beech, Cherry Association	Sawtimber Well	20.7	86	51-80	N/A	Poor to mid quality red maple, small sawlog sized trees. Fairly open canopy with gaps across stand. Dense fir and red maple sapling understory. Average of 70 BA.																																								
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32	4112 - Maple, Beech, Cherry Association	Sawtimber Well	10.3	91	51-80	N/A	Poor to mid quality red maple, small sawlog sized trees. Fairly open canopy with gaps across stand. Dense fir and red maple sapling understory. Lower drainage runs along the east edge with some black ash mixed in. Average of 70 BA.																																								
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33	612 - Lowland Coniferous Forest	Poletimber Well	37.8	94	81-110	N/A	Remote call - time constraints. Black spruce / cedar mix with tamarack patch in center. Access through private from the west. Evaluate for harvest next YOE when hardwood stands might be ready to thin.																																								
						<p>OPIC - FMD: SCA Former potential old growth. Q5E5. This stand is a mix of swamp conifers black ash, and red maple with islands of upland hardwoods and large conifers. Low and wet. Understory ranges from fir to black ash. It has not had any activiity since the turn of the century, and therefore contains many of stand level attributes of an old growth stand including large diameter hardwoods, hemlock, and white pine. Recommend retaining this stand as potential old growth..</p>																																									
34	4112 - Maple, Beech, Cherry Association	Sawtimber Well	16.0	91	51-80	N/A	Poor to mid quality red maple, small sawlog sized trees. Fairly open canopy with gaps across stand. Dense fir and red maple sapling understory. Lower drainage runs along the east edge with some black ash mixed in. Average of 70 BA.																																								
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35	4110 - Sugar Maple Association	Sawtimber Well	18.7	91	111-140	N/A	Poor to moderate quality maple. Elevation hump in the south and north are more solid to sugar maple. A lower flat swale cuts across the center which is more dominant to red maple. Very dense maple sapling understory. There is a good component of declining black cherry mixed in. Scattered large remnant maple within. 120 120 90 110 160 120 130 Average of 120 BA.																																																											
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36	4112 - Maple, Beech, Cherry Association	Sawtimber Well	1.7	86	51-80	N/A	Poor to mid quality red maple, small sawlog sized trees. Fairly open canopy with gaps across stand. Dense fir and red maple sapling understory. Average of 70 BA.																																																											
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37	6120 - Lowland Cedar	Poletimber Well	8.4	94	111-140	N/A	Remote call - time constraints. Imagery appears to be either dense cedar or hemlock patch.																																																											
40	622 - Lowland Shrub	Nonstocked	47.0	0	Unspecified	No	Remote call - time constraints. Flooded lowland shrub area.																																																											
41	4312 - Hemlock, Mixed Deciduous	Sawtimber Well	11.2	94	81-110	N/A	Remote call - time constraints. Cedar / hemlock transition into lowland.																																																											
42	6117 - Lowland Deciduous, Mixed Coniferous	Poletimber Well	44.0	66	111-140	N/A	Older conifer and yellow birch with cedar and hemlock scattered across stand. Any openings in the conifer cover is growing poor quality red maple. Red maple ranges from small pole sized to small sawlog sized trees. Softer ground with small elevation humps and ridges within. Hardwood has no room to grow and there is too much of a conifer component to perform a thinning. Some small very low pockets and the south edges have black ash mixed in. A small upland patch of poor quality red maple was merged to manage with this stand in the SE tip.																																																											
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43	4110 - Sugar Maple Association	Sawtimber Well	12.5	91	81-110	N/A	Poor to moderate quality sugar maple elevation hump. Scattered large black cherry and some poor quality red maple mixed in. Dense maple sapling understory. Average over 100 BA. Best access would be from the west on an old skid road which crosses a narrow lowland drainage. OPIC - FMD: Access is from the south thru Mead land. Cut by Kanerva under permit # 003-02-01. Decent quality hardwoods with sugar and red maple, occasional cherry, hemlock, and large spruce.																																																									
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44	42350 - Upland Hemlock	Sawtimber Well	33.6	93	81-110	N/A	Edge call - time constraints. Did not enter stand. Viewed from access road along the south edge. Appeared to be very dense to hemlock logs with other mixed conifer and dense fir understory. OPIC - FMD: M4Q4, Treated under permit # 2-92-1, sale completed in 1996. Good soft maple regeneration.																																																									
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46	6117 - Lowland Deciduous, Mixed Coniferous	Poletimber Well	57.1	66	111-140	N/A	Edge call - time constraints, did not view entire stand, only edges from road and adjacent stands. Older conifer and yellow birch with cedar and hemlock scattered across stand. Any openings in the conifer cover is growing poor quality red maple. Red maple ranges from small pole sized to small sawlog sized trees. Softer ground with small elevation humps and ridges within. Hardwood has no room to grow and there is too much of a conifer component to perform a thinning. Some small very low pockets and the south edges have black ash mixed in.																																																									
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47	6118 - Lowland Deciduous with Cedar	Poletimber Well	37.5	94	81-110	N/A	Remote call - time constraints. Lowland black ash and red maple poles with cedar speckled in. OPIC - FMD: SCA Former potential old growth. Retain as special conservation area to protect the riparian values along the creek and provide for wildlife travel corridor. E5Q5 Poor black ash with pockets of swamp conifers.																																																									
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57	4115 - Y.Birch, Hemlock NH	Poletimber Well	17.5	66	111-140	N/A	Stand is a flat rise in elevation from surrounding lowlands. Dense red maple poles with some small sawlog sized trees. Large remnant red maple and yellow birch within. Dense fir with some hemlock saplings in the understory. Some hemlock patches are more dense especially around some edges. 120 140 Average of 130 BA.																																																									
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
401	310 - Herbaceous Openland	Nonstocked	1.5	23	Immature	No	Remote call - time constraints. Grass opening growing in with conifer. OPIC - FMD: Grass opening created in 1998-99. Filling in with conifers.