



Compartment Review Presentation

Gwinn Forest Management Unit

Compartment 32002

Entry Year 2021

Acreage: 1,616

County Marquette

Management Area: Dead Horse Moraines

Revision Date: 2019-07-25

Stand Examiner: Eric Brolin

Legal Description:

T45N - R23W, Sections 21, 22, 28

Identified Planning Goals:

This compartment lies south of Carlshend (Skandia) with somewhat poor access through corporate and private lands. At this time, access is denied to the general public. It consists of large wetland complexes with hardwood ridges and remote hardwood islands surrounded by lowlands. Management goals of hardwood stands are to improve stem quality and diameter class distribution while maintaining species diversity, conifer component, and wildlife den trees. There is a good opportunity to enhance the Mesic conifer composition thru underplanting of hemlock and/or white pine in these stands. Harvest plans will also include considerations for conifer retention, coarse woody debris, and BMP's. Special conservation area stands are included along the primary drainages to protect and enhance the riparian values and wildlife travel corridors. 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 supercanopy trees, numerous large snags, abundant and varied tree cavities/dens, frequent large diameter downed trees, and intact natural ecosystem processes/disturbances.

Soil and topography:

Terrain is primarily flat with rolling uplands, ridges, and islands rising from the lowland areas. Soils range from very poorly drained loam to sandy ridges. Major soil associations include: Carbondale/Tawas mucks, Amasa, and the Munising-Skaneec Complex.

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

This compartment is surrounded by private and corporate lands along the north, east, and south borders with state land bordering the west.

Unique Natural Features:

Archeological, Historical, and Cultural Features:

Special Management Designations or Considerations:

Riparian management zones along Huber Creek and Sucker Creek.

Watershed and Fisheries Considerations:

This compartment contains Huber Creek and Sucker Creek which serve as tributaries to the West Branch of the Whitefish River. Huber Creek is designated a Type 1 trout stream less than 50' width. A 300' buffer is recommended for Huber Creek in riparian areas susceptible to Aspen regeneration. For areas not susceptible to Aspen regeneration, 100' plus 5' per 1% increase in slope; buffers are recommended to protect these areas in accordance with Best Management Practices. Sucker Creek is designated a Type 1 trout stream less than 50' width. A 300' buffer is recommended for Sucker Creek in riparian areas susceptible to Aspen regeneration. For areas not susceptible to Aspen regeneration, 100' plus 5' per 1% increase in slope; buffers are recommended to protect these areas in accordance with Best Management Practices.

Wildlife Habitat Considerations:

Compartment 002 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); course 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

Sections 21-22 & 28-29, T45N-R23W, Marquette County

The nearest active sand/gravel pit is five miles to the east. There may be minor sand & gravel potential within the compartment on the small upland areas, but little data is available. Bedrock appears to be within 30 feet of the surface in most places, but bedrock non-metallic mineral potential appears to be low. Much of the surface is covered by wetlands, which could inhibit any potential surface mining. There is no history of mineral leasing in the area, and there is no evidence of any metallic mineral exploration within three miles of the compartment. There is no known potential for economic hydrocarbon production in the UP.

Vehicle Access:

Access to this compartment is restricted through gated private land or berms entering onto state land.

Survey Needs:

Corners needed along the north and south borders of this compartment.

Recreational Facilities and Opportunities:

Recreational activity for this area is primarily for upland hunting of ruffed grouse, woodcock, and whitetail deer.

Fire Protection:

This compartment has a low risk for wildfire potential.

Additional Compartment Information:

The following reports from the Inventory are attached:

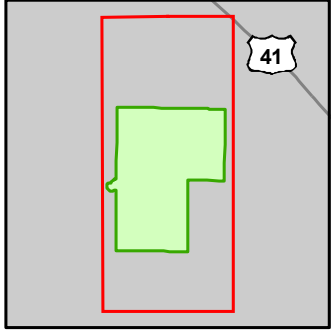
- Total Acres by Cover Type and Age Class**
- Cover Type by Harvest Method**
- Proposed Treatments – No Limiting Factors**
- Proposed Treatments – With Limiting Factors**
- Stand Details (Forested and Nonforested)**
- Dedicated and Proposed Special Conservation Areas**
- Site Condition Details**

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

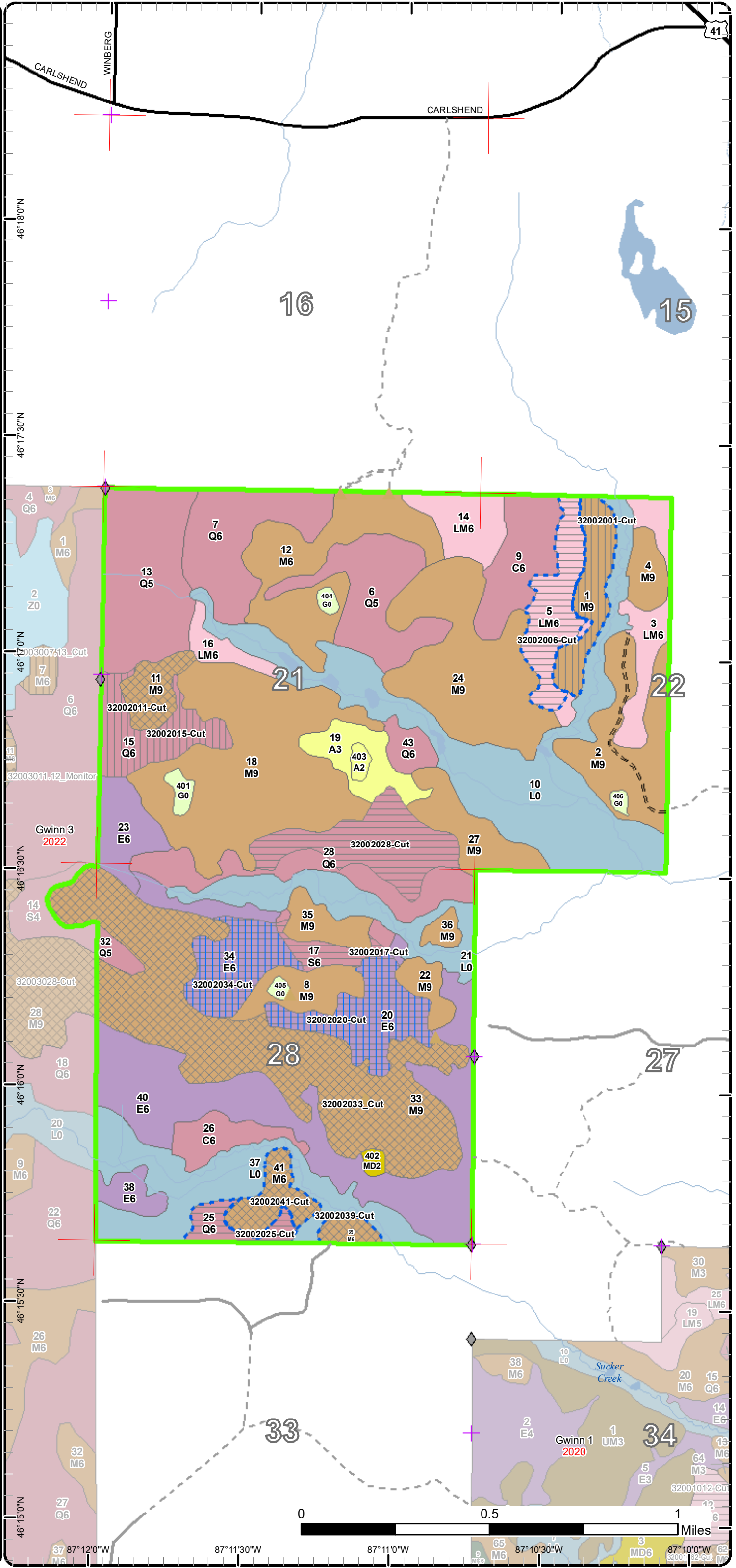
- Base feature information, stand boundaries, cover types, and numbers**
- Proposed treatments**
- Site condition boundaries**
- Details on the road access system**

Cover Type & Treatments Map

Compartment: 2
 T45N, R23W, Sec. 21, 22, 28
 County: Marquette
 Unit: Gwinn
 Mgmt Area: Dead Horse Moraines
 YOE: 2021
 Acres: 1,616 GIS Calculated
 Examiner: Eric Brolin
 Map Revised: 10/15/2019
 Map Phase: Web-Post

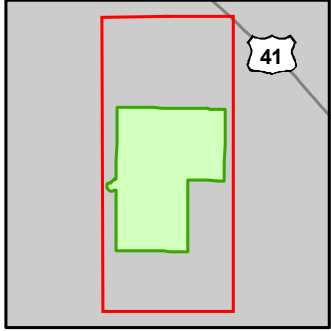


- Miris Corners
- Remonumented Section Corners
- ◆ Field Grade Corners
- Counties
- == DNR - Forest Access Route
- == Federal / State Highway
- == Federal / State / County - Paved Road
- Private - Paved Road
- Private - Dirt / Gravel Road
- Intermittent Stream
- Island in Lake or River
- Lake/Pond
- Perennial River
- Lakes and Rivers All
- ▲ Berms
- Compartment Boundary
- Treatments with Site Conditions
- ▨ Selection (Group, Single Tree)
- ▨ Clearcut (w/Reserves)
- ▨ Seed Tree (w/Reserves)
- ▨ Shelter Wood (w/Reserves)
- 411 - Northern Hardwood
- 413 - Aspen Types
- 419 - Mixed Upland Deciduous
- 611 - Lowland Deciduous Forest
- 612 - Lowland Coniferous Forest
- 613 - Lowland Mixed Forest
- 310 - Herbaceous Openland
- 622 - Lowland Shrub
- Lakes

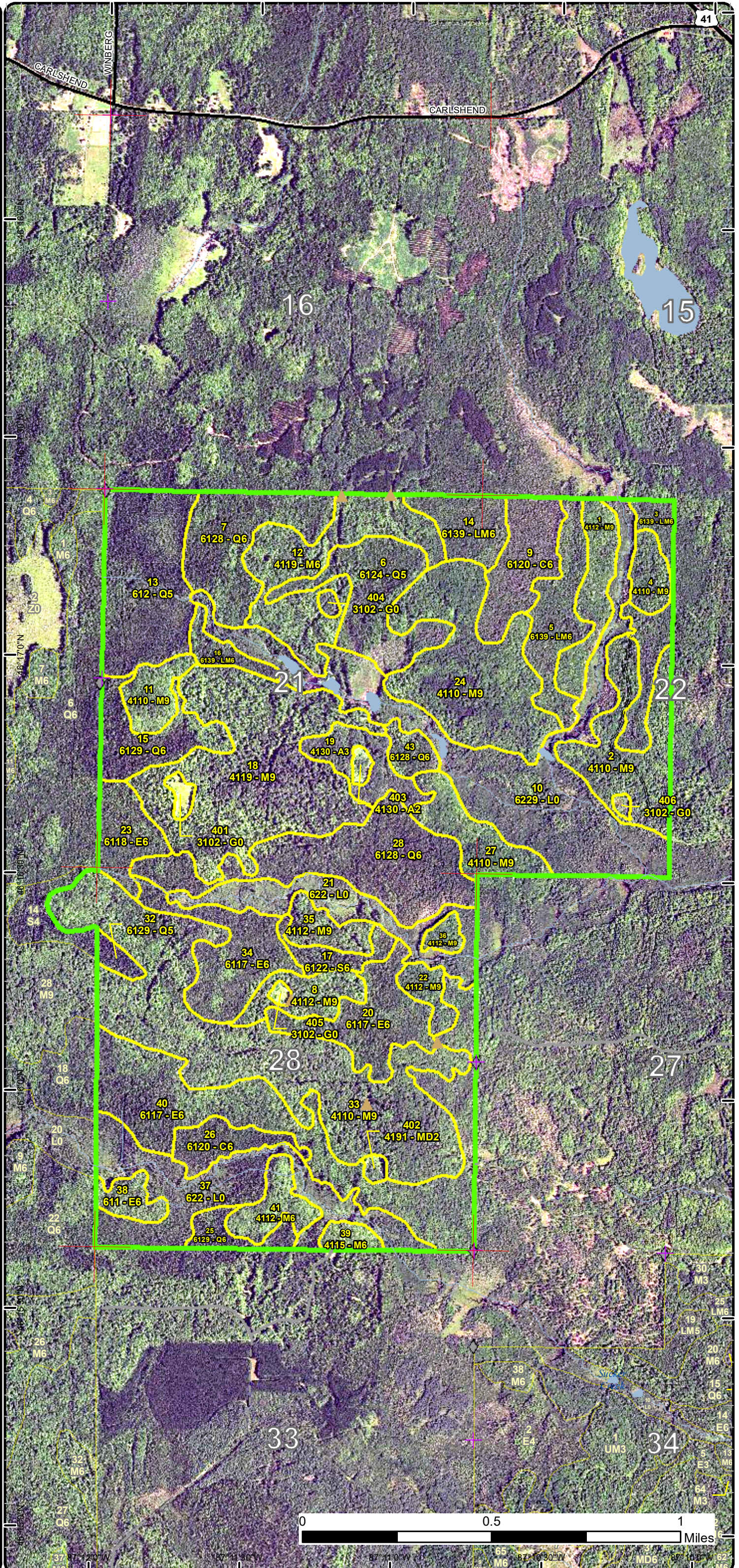


Stand Boundary Map

Compartment: 2
 T45N, R23W, Sec. 21, 22, 28
 County: Marquette
 Unit: Gwinn
 Mgmt Area: Dead Horse Moraines
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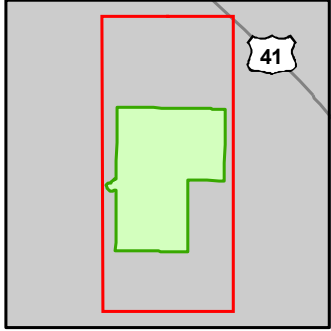


- Miris Corners
- Remonumented Section Corners
- ◆ Field Grade Corners
- Counties
- == DNR - Forest Access Route
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- Lake/Pond
- Perennial River
- Lakes and Rivers All
- ▲ Berms
- Compartment Boundary
- Stand Boundaries
- 411 - Northern Hardwood
- 413 - Aspen Types
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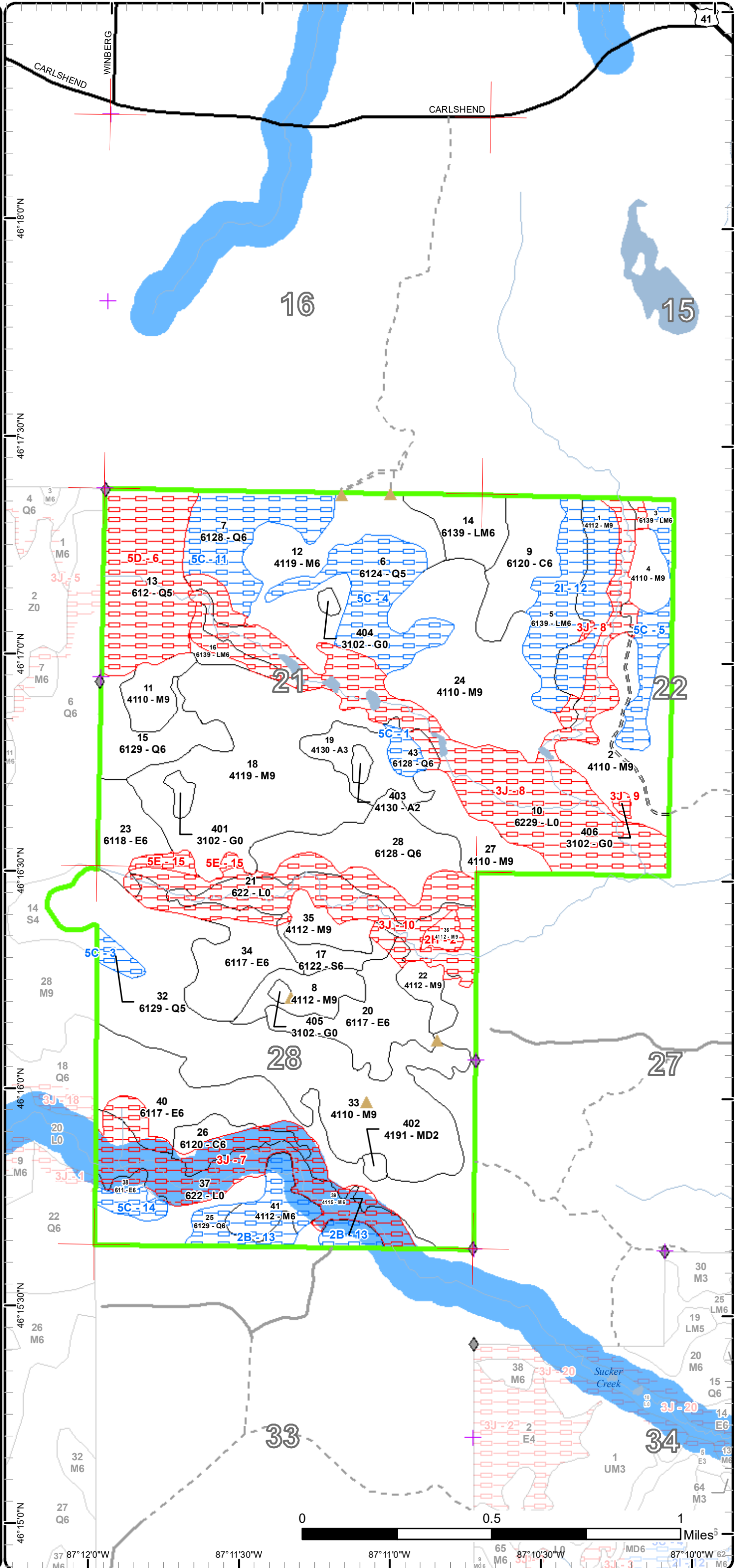


Special Conservation Areas & Site Conditions Map

Compartment: 2
 T45N, R23W, Sec. 21, 22, 28
 County: Marquette
 Unit: Gwinn
 Mgmt Area: Dead Horse Moraines
 YOE: 2021
 Acres: 1,616 GIS Calculated
 Examiner: Eric Brolin
 Map Revised: 10/15/2019
 Map Phase: Web-Post



- Miris Corners
- + Remonumented Section Corners
- ◆ Field Grade Corners
- Counties
- DNR - Forest Access Route
- Federal / State Highway
- Federal / State / County - Paved Road
- Private - Paved Road
- Private - Dirt / Gravel Road
- Intermittent Stream
- Island in Lake or River
- Lake/Pond
- Perennial River
- Lakes and Rivers All
- Berms
- Compartment Boundary
- Available w/ Constraints
- Unavailable
- 2I: Survey needed
- 5C: Delay treatment for age/size class diversity or exceptional site quality
- 2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)
- 3J: Water quality / BMPs (stream, river, or lake)
- 5D: Unproductive Forest Land
- 5E: Long-Term Retention
- Stand Boundaries
- Cold Water Streams
- Cold Water Lakes
- High Priority Trout Stream Buffer



Report 1 – Total Acres by Cover Type and Age Class



Age Class

	Non-Forest	0-9	10-19	20-29	30-39	40-49	50-59	60-69	70-79	80-89	90-99	100-109	110-119	120-129	130-139	140-149	150+	Uneven-Aged	Total
Aspen	0	0	0	24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	23
Cedar	0	0	0	0	0	0	0	0	0	33	0	17	0	0	0	0	0	0	50
Herbaceous Openland	9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	9
Lowland Conifers	0	0	0	0	0	0	68	0	0	155	17	0	58	0	0	0	0	0	298
Lowland Deciduous	0	0	0	0	0	22	118	39	0	41	10	0	0	0	0	0	0	0	230
Lowland Mixed Forest	0	0	0	0	0	0	0	66	0	25	0	0	0	0	0	0	0	0	91
Lowland Shrub	252	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	252
Lowland Spruce/Fir	0	0	0	0	0	0	0	0	0	12	0	0	0	0	0	0	0	0	12
Mixed Upland Deciduous	0	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
Northern Hardwood	0	0	0	0	0	0	0	0	0	27	597	0	25	0	0	0	0	0	648
Total	261	0	0	27	0	22	186	105	0	293	624	17	83	0	0	0	0	0	1615



Report 2 – Treatment Summary

Gwinn Mgt. Unit

Year of Entry: 2021

Acres of Harvest

Compartment 2

Total Compartment Acres: 1,616

Commercial Harvest - 398
 Harvests with Site Condition - 35
 Next Step Harvest - 25
 Habitat Cut - 25

Cover Type by Harvest Method

	Clearcut	Selection	Patch Clearcut	Seed Tree	Shelterwood	Thinning	Overstory Removal	Salvage	Other	Total Acres
Lowland Conifers	55	0	0	0	30	0	0	0	0	86
Lowland Deciduous	0	0	0	68	0	0	0	0	0	68
Lowland Mixed Forest	32	0	0	0	0	0	0	0	0	32
Lowland Spruce/Fir	9	0	0	0	0	0	0	0	0	9
Northern Hardwood	0	213	0	0	25	0	0	0	0	239
Total	96	213	0	68	55	0	0	0	0	433

Proposed and Next Step Treatments by Method

	Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current	433	0	0	0	0	0	0	0	0	433
Next Step	25	0	0	95	0	0	433	0	0	553
Total	458	0	0	95	0	0	433	0	0	986



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	32002001-Cut	25.2	4112 - Maple, Beech, Cherry Association	Sawtimber Well	116	141-170	Harvest	Shelterwood with Retention	4112 - Maple, Beech, Cherry Association	Even-Aged	Proposal

Habitat Cut: No**Site Condition:**

Prescription Perform a shelterwood harvest to establish regeneration in a currently closed canopy hardwood stand. Green tree to leave 40-60 BA of better quality trees. In combination with green trees, leave cedar, hemlock, white pine, aspen, black cherry, and yellow birch. Trees over a 24" diameter on the stump should not be cut. Favor diversity in leave trees.

Next Step Treatments: Monitoring, Natural Regen (Re-Inventory); Harvest, Overstory Removal

Acceptable Regen: maple, black cherry, hemlock, and other conifer

Other Comment: Harvest during dry or frozen conditions due to soft access and to protect the RMZ along Huber Creek tributary along the east edge.

Proposed Start Date: 10/1 /2020

5	32002006-Cut	31.6	6139 - Mixed Lowland Forest	Poletimber Well	65	111-140	Harvest	Clearcut with Retention	613 - Lowland Mixed Forest	Even-Aged	Proposal
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Habitat Cut: No**Site Condition:**

Prescription Harvest to a 2" spec. to promote mixed lowland conifer and hardwood regeneration. Include a 300' buffer on the stream to the east. Leave cedar, hemlock, and white pine. Favor yellow birch for seed and cavities.

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

Acceptable Regen: red maple, birch, cedar, spruce/fir

Other Comment: Harvest during dry or frozen conditions. Treatment line has been updated for 300' buffer.

Proposed Start Date: 10/1 /2020

11	32002011-Cut	15.6	4110 - Sugar Maple Association	Sawtimber Well	90	141-170	Harvest	Single Tree Selection	411 - Northern Hardwood	Uneven-Aged	Proposal
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Habitat Cut: No**Site Condition:**

Prescription Mark stand to 60-80 BA. Focus on removing poor quality and releasing pole sized crop trees. Remove all merchantable spruce/fir. Leave some large future snag trees for wildlife. Leave cedar and hemlock if present. Favor species diversity while marking.

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

Acceptable Regen: northern hardwoods

Other Comment: Access may require dry or frozen conditions from the south or construct a road in from the east.

Proposed Start Date: 10/1 /2020

15	32002015-Cut	30.2	6129 - Mixed Coniferous Lowland Forest	Poletimber Well	84	81-110	Harvest	Shelterwood with Retention	613 - Lowland Mixed Forest	Two-Aged	Proposal
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Habitat Cut: No**Site Condition:**

Prescription Harvest to a 2" spec. to promote lowland species. Retain the more dense patches of cedar. May remove some cedar for operability. Leave cedar, hemlock, white pine, and yellow birch.

Next Step Treatments: Monitoring, Natural Regen (Re-Inventory); Seeding, Machine Seed

Acceptable Regen: lowland conifer and hardwoods

Other Comment: Do not push lines into adjoining hardwood stands. Use caution to avoid damage on younger cedar saplings/poles. Harvest during frozen conditions.

Proposed Start Date: 10/1 /2020

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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
17 32002017-Cut	9.0	6122 - Black Spruce	Poletimber Well	86	81-110	Harvest	Clearcut with Retention	6122 - Black Spruce	Two-Aged	Proposal

Habitat Cut: No**Site Condition:**

Prescription Harvest to a 2" spec to promote black spruce regeneration. Buffer river the north 300' for stand retention and RMZ. Leave cedar, hemlock, and
Specs: white pine.

Next Step Monitoring, Natural Regen (Re-Inventory); Seeding, Machine Seed
Treatments:

Acceptable black spruce, cedar, white pine
Regen:

Other Treatment line has been updated for 300' river buffer. Harvest during dry or frozen conditions.
Comment:

Proposed Start Date: 10/1 /2021

20 32002020-Cut	37.4	6117 - Lowland Deciduous, Mixed Coniferous	Poletimber Well	60	111-140	Harvest	Seed Tree with Retention	611 - Lowland Deciduous Forest	Two-Aged	Proposal
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Habitat Cut: No**Site Condition:**

Prescription Harvest to a 2" spec to promote lowland hardwood regeneration. Green mark one yellow birch per cruise plot where possible (1 per acre) to leave
Specs: for seed. In combination with green trees, leave cedar, hemlock, and white pine. Include a 300' buffer on the stream to the north. Also exclude small patches dense to cedar (see reference line layer for approximate locations).

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

Acceptable lowland hardwood and conifer
Regen:

Other Treatment line has been updated for 300' buffer. Harvest during dry or frozen conditions.
Comment:

Proposed Start Date: 10/1 /2021

25 32002025-Cut	11.6	6129 - Mixed Coniferous Lowland Forest	Poletimber Well	90	81-110	Harvest	Clearcut with Retention	6128 - Lowland Coniferous, Mixed Deciduous	Two-Aged	Proposal
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Habitat Cut: No**Site Condition: Unknown Access**

Prescription Harvest to a 2" spec. to promote lowland species regeneration. Leave cedar, hemlock, white pine, paper birch, and yellow birch.
Specs:

Next Step Monitoring, Natural Regen (Re-Inventory); Seeding, Machine Seed
Treatments:

Acceptable lowland conifer and hardwoods
Regen:

Other Access from the south is through private and will require road work on private property. Retention may be best along the northwest border where
Comment: cedar becomes dense. North/west treatment line should skirt area where merchantable trees become too sparse. Harvest during dry or frozen conditions.

Proposed Start Date: 10/1 /2020

28 32002028-Cut	43.7	6128 - Lowland Coniferous, Mixed Deciduous	Poletimber Well	89	81-110	Harvest	Clearcut with Retention	613 - Lowland Mixed Forest	Two-Aged	Proposal
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Habitat Cut: No**Site Condition:**

Prescription Harvest to a 2" spec. to promote lowland species regeneration. Exclude large area more dense to cedar (approximately 15 acres) in the center of
Specs: this stand. Include a 300' buffer on the stream to the south. Leave cedar, hemlock, white pine, and yellow birch.

Next Step Monitoring, Natural Regen (Re-Inventory); Seeding, Machine Seed
Treatments:

Acceptable lowland conifer and hardwoods
Regen:

Other Treatment line has been updated with 300' buffer. See reference layer for approximate cedar exclusion based off of imagery and field
Comment: observations. Harvest during frozen conditions.

Proposed Start Date: 10/1 /2020

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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
33 32002033_Cut	173.9	4110 - Sugar Maple Association	Sawtimber Well	90	111-140	Harvest	Single Tree Selection	411 - Northern Hardwood	Uneven-Aged	Proposal

Habitat Cut: No**Site Condition:**

Prescription 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 with over a 24" stump diameter. Leave cedar, hemlock, aspen, black cherry, and yellow birch. Favor species diversity and different age classes while marking.

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

Acceptable northern hardwood
Regen:

Other Keep steep terrain in mind while marking.
Comment:

Proposed Start Date: 10/1 /2021

34 32002034-Cut	30.9	6117 - Lowland Deciduous, Mixed Coniferous	Poletimber Well	88	111-140	Harvest	Seed Tree with Retention	611 - Lowland Deciduous Forest	Two-Aged	Proposal
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Habitat Cut: No**Site Condition:**

Prescription Harvest to a 2" spec to promote lowland hardwood regeneration. Green mark one yellow birch per cruise plot where possible (1 per acre) to leave for seed. In combination with green trees, leave cedar, hemlock, and white pine. Also leave some black ash and yellow birch within retention. Include a 300' buffer on the stream to the north.

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

Acceptable lowland hardwood and conifer
Regen:

Other Treatment line has been updated for 300' river buffer. Harvest during dry or frozen conditions.
Comment:

Proposed Start Date: 10/1 /2021

39 32002039-Cut	6.6	4115 - Y.Birch, Hemlock NH	Poletimber Well	90	141-170	Harvest	Single Tree Selection	411 - Northern Hardwood	Uneven-Aged	Proposal
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Habitat Cut: No**Site Condition: Unknown Access**

Prescription Mark stand to 60-80 BA. Focus on improving overall stand quality. Remove all merchantable spruce/fir. Leave some large future snag trees for wildlife. Leave cedar, hemlock, white spruce, and aspen. Favor species diversity while marking especially yellow birch.

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

Acceptable northern hardwood
Regen:

Other Access from the south is through private and will require road work on private property. Harvest during dry or frozen conditions.
Comment:

Proposed Start Date: 10/1 /2020

41 32002041-Cut	17.2	4112 - Maple, Beech, Cherry Association	Poletimber Well	90	141-170	Harvest	Single Tree Selection	411 - Northern Hardwood	Uneven-Aged	Proposal
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Habitat Cut: No**Site Condition: Unknown Access**

Prescription Mark stand to 60-80 BA. Focus on improving overall stand quality. Remove all merchantable spruce/fir. Leave some large future snag trees for wildlife. Leave cedar, hemlock, white pine, aspen, and black cherry. Favor species diversity while marking.

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

Acceptable northern hardwood
Regen:

Other Access from the south is through private and will require road work on private property. Harvest during dry or frozen conditions.
Comment:

Proposed Start Date: 10/1 /2020

**Total Treatment
Acreage Proposed: 432.9**

Report 4 – Site Conditions

Gwinn Mgt. Unit
Eric Brolin : Examiner

Compartment: 2
Year of Entry: 2021

Availability for Management

Total Acres	Acres Available	Acres Avail		Dominant Site Conditions	Dominant Site Conditions						
		With Condition	Not Available		2B	5C	2H	3J	5D	5E	
23	23	0	0	Aspen							
50	39	0	10	Cedar				10			
9	7	0	2	Herbaceous Openland				2			
297	75	112	111	Lowland Conifers	12	100		38	68	6	
230	193	7	30	Lowland Deciduous		7		30			
91	57	22	13	Lowland Mixed Forest		22		13			
252	24	1	228	Lowland Shrub	1			228			
11	9	0	2	Lowland Spruce/Fir				2			
3	3	0	0	Mixed Upland Deciduous							
649	621	24	5	Northern Hardwood	24		5				
1,616	1,050	165	401	Total Forested Acres	36	129	5	322	68	6	
	65%	10%	25%	Relative Percent							

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

Site No.	Dominant Site Cond Availability	Dominant Site Condition	Acres	Other Site Condition	Other Site Condition	Other Site Condition	Other Site Condition
1	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	6	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Stand will hold good. Harvest with adjacent hardwood thinning in YOE 2031.							
2	Unavailable	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	5	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Very limited access across streams/lowlands from any direction.							

Report 4 – Site Conditions

Gwinn Mgt. Unit
Eric Brolin : Examiner

Compartment: 2
Year of Entry: 2021

3	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	5	Unspecified	Unspecified	Unspecified	Unspecified
<p>Comments: This finger is part of a larger stand and will be re-evaluated for harvest with adjoining Compartment 32003 in YOE 2022 for better access.</p>							
4	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	46	Unspecified	Unspecified	Unspecified	Unspecified
<p>Comments: Delay treatment until YOE 2031. Center portion can be harvested with adjacent stand 24 for better access. Stand will hold well until then.</p>							
5	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	22	Unspecified	Unspecified	Unspecified	Unspecified
<p>Comments: Hold until adjacent hardwood is thinned during the next inventory cycle. This stand will hold well until YOE 2031.</p>							
6	Unavailable	5D: Unproductive Forest Land	68	3J: Water quality / BMPs (stream, river, or lake)	Unspecified	Unspecified	Unspecified
<p>Comments: Sparse, unproductive land with streams within.</p>							
7	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	76	Unspecified	Unspecified	Unspecified	Unspecified
<p>Comments: RMZ and 300' river buffer where needed.</p>							
8	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	161	Unspecified	Unspecified	Unspecified	Unspecified
<p>Comments: RMZ and 300' trout stream buffer where needed.</p>							

Report 4 – Site Conditions

Gwinn Mgt. Unit
Eric Brolin : Examiner

Compartment: 2
Year of Entry: 2021

9	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	2	Unspecified	Unspecified	Unspecified	Unspecified
Comments: G0 stand falls within 300' river buffer.							
10	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	84	Unspecified	Unspecified	Unspecified	Unspecified
Comments: RMZ and 300' buffer where needed.							
11	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	43	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Stand will hold well into the future. Harvest with adjacent hardwood stand at a later date.							
13	Available	2B: Unknown if access through adjacent landowner(s) is possible	36	2E: Road needed	2I: Survey needed	Unspecified	Unspecified
Comments: Pending private permission, a road would have to be constructed across private property along an old ridge from the south for stand 25/41. Hauling will have to occur through a camp yard for access to both sections. Needs survey corners.							
14	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	7	2B: Unknown if access through adjacent landowner(s) is possible	Unspecified	Unspecified	Unspecified
Comments: May access and manage with compartment 32003 from the west in YOE 2022.							
15	Unavailable	5E: Long-Term Retention	6	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Small pieces of long term retention for stand 28.							

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	4112 - Maple, Beech, Cherry Association	Sawtimber Well	25.2	116	141-170	N/A	<p>Large poor quality red maple logs with dense patches of suppressed poles. A lower drainage cuts this stand in half. Conifers and conifer regen is more abundant along the edges and in patches. There is very little maple regeneration with the current dense canopy. Black cherry is declining rapidly. Difficult access through low ground. No cut 300' river buffer for aspen. 200 130 120 150 Average of 150 BA.</p> <p>OPIC - FMD: SCA Former potential old growth. A small island of mostly poor quality mixed red maple, sugar maple, fir and hemlock. Access is extremely limited. Retain as a special conservation area to protect the riparian values and serve as a wildlife corridor along a branch of the Dems Creek.</p>																																								
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2	4110 - Sugar Maple Association	Sawtimber Well	49.7	90	81-110	N/A	<p>Hardwood small sawlogs with scattered remnant large trees and moderate quality poles. dense maple sapling understory from thinning in 1994. Pretty solid to sugar maple with a couple areas that have more red maple especially on the lower elevation flats and transitions into lowlands. Black cherry is declining. Majority of canopy has a lot of growing room yet, not quite ready for thinning in 2019. No cut 300' river buffer for aspen. 100 100 110 100 60 100 Average of 95 BA.</p> <p>OPIC - FMD: SALE AREA CUT 1994-SALE NO. 1-91-1.02009-Fair to good quality hardwoods not quite ready for treatment.</p>																																								
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3	6139 - Mixed Lowland Forest	Poletimber Well	25.3	88	81-110	N/A	<p>Nice black spruce poles. Smaller red maple poles mixed in, especially around the edges and the northern portion of this stand.</p> <p>OPIC - FMD: SCA Former potential old growth. Retain as a special conservation area to protect the riparian values along the stream.</p>																																								
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5	6139 - Mixed Lowland Forest	Poletimber Well	34.2	65	111-140	N/A	<p>Lowland mix with pockets heavy to different species across the stand. Mainly low ground with some slight hardwood elevations. Some very large cedar scattered within. Good amount of merchantable fir in areas. Most yellow birch is very poor quality. Mixed age/size with all species.</p>																																								
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6	6124 - Lowland Spruce-Fir	Poletimber Medium	46.1	86	81-110	N/A	Diverse lowland mix. The north and south 1/3's are dense to more sapling sized lowland conifer. Mixed age/size with all species. The center 1/3 of this stand is more dense to a nice pole sized black spruce mix and can be harvested or left another cycle. Re-evaluate this stand in YOE 2031 for better access to harvest with adjacent stand 24 to gain better access.																																													
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7	6128 - Lowland Coniferous, Mixed Deciduous	Poletimber Well	48.5	116	111-140	N/A	Diverse lowland mix with wet ground. Some very large cedar scattered within. Mixed age/size with all species. Will hold well into the future.																																													
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8	4112 - Maple, Beech, Cherry Association	Sawtimber Well	18.8	90	81-110	N/A	Maple log stand, heavy to red maple. Moderate quality red maple. Dense saplings across much of the stand. Scattered large remnant wildlife trees. Average less than 100 BA. OPIC - FMD: CUT IN 1994 UNDER PERMIT 4-91-1. TRANSITIONING TO M9. Two aged stand of larger sawtimber over dense sugar maple regeneration. BA's are fairly low, running from 60 to 110 with about 90-100 being the most common. Occasional basswood and red maple.																																													
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9	6120 - Lowland Cedar	Poletimber Well	32.7	86	111-140	N/A	Small diameter cedar, very dense, with small veins and scattered black spruce within. Small sparser patches within. Some hardwood found on the edges. OPIC - FMD: Small slow growing cedar with related swamp conifers over decent cedar regen and tag alder. Quite sparse.																																													
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10	6229 - Mixed lowland shrub	Nonstocked	139.0		Immature	No	Mainly an open drainage dense to alder with patches of dense lowland sapling/pole sized trees scattered within. OPIC - FMD: SCA Proposed. Retain as special conservation area to protect the riparian values along Huber Creek. Black ash with cedar, balsam, and tag alder. Losing some of the ash to beaver flooding.																																													
11	4110 - Sugar Maple Association	Sawtimber Well	15.6	90	141-170	N/A	Appears to have not been thinned in a very long time. Dense maple poles growing in between large poor quality trees. More red maple along the edges. A bit higher elevation from the lowlands gives this stand better quality than surrounding hardwood stands. Average up to 140+ BA.																																													
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12	4119 - Mixed Northern Hardwoods	Poletimber Well	61.9	90	51-80	N/A	<p>Mix of lowland species, red maple ground with areas that are wet and/or holding water with black ash. Very dense understory of diverse saplings. Wet, saturated ground across a majority of the stand. Shelterwood performed in 1994, removed all hardwood 12"+, aspen, cedar, and all merchantable spruce/fir. Removing the overstory would damage too much advanced regeneration at this time. This stand has an open enough canopy to leave and allow the younger age class to succeed. Suggest even aged management in the future. No cut 300' river buffer for aspen.</p> <p>OPIC - FMD: Cut in 1994 under permit #002-91-01. Currently a mix of hard and soft maple with scattered cherry, hemlock, yellow birch. Much of the stand is low and wet with fir, hemlock, cedar, some black ash, but not quite an E type. Quality ranges from fair to good following low ground to high ground.</p>																																													
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13	612 - Lowland Coniferous Forest	Poletimber Medium	67.6	50	1-50	N/A	<p>Difficult access into this area. Imagery appears to be very wet ground with sparse, stunted trees and some black spruce along the adjacent compartment line to the west.</p>																																													
14	6139 - Mixed Lowland Forest	Poletimber Well	22.3	65	111-140	N/A	<p>Diverse lowland mix with wet ground. Some very large cedar scattered within. Good amount of merchantable fir across the stand. Mixed age/size with all species. Re-evaluate this stand in YOE 2031 for better access to harvest with adjacent stand 24.</p>																																													
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15	6129 - Mixed Coniferous Lowland Forest	Poletimber Well	30.2	84	81-110	N/A	<p>More fir and black ash around the edges and west border. The southern center has a strip of more black spruce with dense cedar saplings 2"-5" in the understory. Small sparse patches within containing some alder. East bubble has red maple and white pine with hemlock and black spruce saplings. OPIC - FMD: Yet another sparse Q stand in this compartment. A fair amount of small fir is in the understory.</p>																																													
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16	6139 - Mixed Lowland Forest	Poletimber Well	9.7	65	111-140	N/A	<p>Diverse lowland mix with wet ground. Some very large cedar scattered within. Good amount of merchantable fir across the stand. Mixed age/size with all species. Re-evaluate this stand in YOE 2031 for better access to harvest with adjacent stand 24.</p>																																													
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17	6122 - Black Spruce	Poletimber Well	11.5	86	81-110	N/A	Lowland stand dense to good quality black spruce. Scattered sawlog sized white pine across the stand.																																								
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18	4119 - Mixed Northern Hardwoods	Sawtimber Well	127.3	90	51-80	N/A	Harvested in 1994, treatment was to remove anything less than 10". Light BA hardwood canopy, large, very poor quality sugar maple in the center of this stand with more diversity around the outer edges. Very, very, very dense maple regen, 1"-3"+ size, good quality saplings and smaller poles. Both the north 1/3 and south 1/3 are more dominant to patches of fir and more red maple with softer ground and poorer quality maple but still dense with saplings. Marshy cattail patches in the north 1/3. A grid of old skid trails spans this stand. This stand will be held until dense saplings develop into merchantable pole sized trees and fill in the holes, 2019. No cut 300' river buffer for aspen. 70 60 70 50 Average of 65 BA, primarily very large poor quality, low forked trees with one log in them.																																								
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19	4130 - Aspen	Sapling Well	20.5	25	Immature	N/A	Good quality mixed aspen almost pole sized. Patches of hardwood regen mixed in along the edges. Wet ground within.																																								
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20	6117 - Lowland Deciduous, Mixed Coniferous	Poletimber Well	39.0	60	111-140	N/A	A diverse lowland mix. Some smaller patches are dense to cedar. Slight elevation changes within hold more red maple and hemlock. Red maple and yellow birch are poor-moderate quality. Pockets with nice size black ash. Large remnant trees are scattered within.																																								
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21	622 - Lowland Shrub	Nonstocked	41.0			No	Lowland Alder with stunted trees speckled across.																																								
<p>OPIC - FMD: SCA. Special conservation area to protect the riparian values along Dems Creek.</p>																																															



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22	4112 - Maple, Beech, Cherry Association	Sawtimber Well	9.9	90	81-110	N/A	Small maple hump surrounded by lower ground, a narrow wet drainage cuts across this stand. Dense small maple saplings in more open areas from last harvest in 2004. No-cut buffer on stream 100'. Stand is within 300' trout stream buffer, do not harvest aspen in the future to discourage aspen regeneration. 70 100 100 Average of 90 BA.																																						
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Sugar Maple	High	5 - 10 feet	Sapling																																										
23	6118 - Lowland Deciduous with Cedar	Poletimber Well	22.4	45	81-110	N/A	Very wet ground. Red maple poles with spruce/fir speckled in and small dense patches of cedar across the center. Some smaller open patches are found within. Black ash is more abundant in the south half.																																						
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24	4110 - Sugar Maple Association	Sawtimber Well	85.9	90	81-110	N/A	A mix of large maple logs, poles, and dense saplings. More solid to sugar maple in the south half, more black cherry and red maple mixed in the north. Some areas of short, steep rolling terrain found within. Larger maple has poorer quality than poles. Some small patches of dense, suppressed poles were observed within. Good advanced maple regeneration in more open patches (15' - 20' tall). A few small pockets of saplings are found within containing dense maple saplings topped by young aspen poles which were clear-cut in 1994. Re-evaluate adjacent stands 6 and 14 to harvest with this stand in YOE 2031. No cut 300' buffer for aspen. 70 80 130 60 100 Average of 90 BA.																																						
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25	6129 - Mixed Coniferous Lowland Forest	Poletimber Well	11.6	90	81-110	N/A	Diverse lowland mix with nice sized black spruce/tamarack scattered within. Scattered larger white pine across most of the stand. There is a consistent canopy of lowland conifer in the east half but is a little more sparse in the west half with more red maple saplings found in the understory.																																						
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26	6120 - Lowland Cedar	Poletimber Well	16.9	109	81-110	N/A	Wet lowland stand dense to cedar along stream.																																						
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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27	4110 - Sugar Maple Association	Sawtimber Well	26.5	80	81-110	N/A	Gentle rolling ridge. Access appears to be wet. Moderate quality hardwood poles with scattered large poorer quality logs and wildlife trees. 2' tall maple seedlings becoming established across the stand. Black ash swale cuts east/west across the south. Larger black cherry and red maple are more abundant in the south 1/3 with a bit more maple saplings. This stand had a treatment to monitor for regen to complete final shelterwood harvest, this was not a shelterwood stand, treatment was terminated. No cut 300' river buffer for aspen. 100 80 120 80 130 120 120 90 Average of 105 BA.																												
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							2009-Good quality hardwoods growing on sandy ridge. Access is somewhat restricted by a lengthy access road and steep logging conditions. Species consist of mixed hardwoods, primarily sugar maple, cherry, red maple. Occasional conifer especially along the transition zone. Within stand retention will include cherry, hemlock, cedar, white pine, as well as the residual hardwoods. Sale prep for this stand will require an extensive line running project or delay setup until a formal survey can be conducted. 2010 Survey has been completed and the limited factor has been removed. Cut 2016 winter under contract #018-11-1 "Carlshend Hardwoods"																												

28	6128 - Lowland Coniferous, Mixed Deciduous	Poletimber Well	78.7	89	81-110	N/A	Diverse mix of lowland species. Mainly pole sized with larger, older trees mixed in ranging from saplings to larger degrading trees. More of a lowland hardwood canopy around the edges with larger black ash mixed in. A large portion of the center is dense to cedar with small fir poles mixed in.																													
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32	6129 - Mixed Coniferous Lowland Forest	Poletimber Medium	5.3	93		N/A	Small poor quality conifer bog. Sparse canopy with red maple growing in holes. Some younger sapling conifer regeneration within. This small finger of a larger stand should be left for now and re-evaluated with the adjoining compartment for YOE 2022 for access.																																						
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33	4110 - Sugar Maple Association	Sawtimber Well	173.9	90	111-140	N/A	Maple log stand. Dense saplings across much of the stand. Scattered large remnant wildlife trees. More red maple along the transitions to low ground. Some areas more dominant to pole sized trees, some areas to large log sized trees. Small steeper knobs along most of the north edge, north of the main road, with better quality sugar maple. 110 150 160 130 130 150 120 Average of 135 BA.OPIC - FMD: CUT IN 1994 UNDER PERMIT 4-91-1. TRANSITIONING TO M9. Two aged stand of larger sawtimber over dense sugar maple regeneration. BA's are fairly low, running from 60 to 110 with about 90-100 being the most common. Occasional basswood and red maple.																									
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34	6117 - Lowland Deciduous, Mixed Coniferous	Poletimber Well	40.8	88	111-140	N/A	A diverse lowland mix stand. There is a higher component of yellow birch with some better quality than other surrounding lowland hardwood stands. Large remnant trees are scattered within. Black ash is good size and quality with a good component of log sized trees. OPIC - FMD: A mix of hemlock, fir, black spruce, cedar, soft maple and white birch. Low and wet.																									
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35	4112 - Maple, Beech, Cherry Association	Sawtimber Well	14.0	90	81-110	N/A	Small maple hump surrounded by lower ground. Thinned in 2004. Conifer saplings abundant in areas. No-cut buffer on stream 100'. Stand is within 300' trout stream buffer, do not harvest aspen in the future to discourage aspen regen. Average less than 100 BA. OPIC - FMD: FAIR TO POOR QUALITY H MAPLE POLES, N&E ENDS ARE LOWER WITH SOME BALSAM, SCATTERED LOGS. ACCESS FROM THE SOUTH THROUGH STAND 38. Treated in 2004 with stand 30 under permit #001-01-01.																									
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36	4112 - Maple, Beech, Cherry Association	Sawtimber Well	4.9	90	111-140	N/A	Small hardwood island patch. All inventory information was estimated from the south edge due to limited access across water. Limited access from any direction. OPIC - FMD: SCA- Former potential old growth. Small island of fari to poor quality hard maple poles with soft maple and fir. Access extremely limited. Retain as a special conservation area to protect the riparian and wildlife values along Dems Creek and to permit natural processes to occur.																									
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37	622 - Lowland Shrub	Nonstocked	72.2			No	Lowland stream corridor with alder and scattered conifers.OPIC - FMD: SCA. Special conservation area to protect the riparian values along Dems Creek.																									



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38	611 - Lowland Deciduous Forest	Poletimber Well	10.3	90	141-170	N/A	<p>Did not access this stand. Access would be from the west through the adjoining compartment. Based on surrounding stands, it is estimated to be lower/flat ground dense to red maple poles with some aspen and conifer mixed in. It may be managed with the compartment to the west (32003 YOE 2022) in the future.</p> <p>OPIC - FMD: SCA Former potential old growth. Retain this stand as a special conservation area to protect the riparian values along Dems Creek, and to enhance the wildlife corridor along the stream. The stand itself consist of poor quality hardwood poletimber with scattered sawtimber trees and hemlock. Access is extremely poor through a large wetland complex.</p>																																						
39	4115 - Y.Birch, Hemlock NH	Poletimber Well	6.6	90	141-170	N/A	<p>Very dense maple poles with scattered larger log sized trees and hilly terrain. Poor quality with some mortality within. Transitions to a lower conifer flat in the east and is more dense to hemlock and red maple poles with some cedar mixed in. Average over 140 BA.</p> <p>OPIC - FMD: SCA Former potential old growth. Retain this stand as a special conservation area to protect the riparian values along Dems Creek, and to enhance the wildlife corridor along the stream. This stand consists of fair quality hardwoods with cherry and hemlock.</p>																																						
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40	6117 - Lowland Deciduous, Mixed Coniferous	Poletimber Well	117.7	54	81-110	N/A	<p>Mixed lowland stand. Nice younger mixed hardwoods. Some patches more dense to conifers with scattered larger diameter mixed spruce. A younger age class of spruce/fir has filled in old open patches. Small humps of higher elevation are more dense to red maple. Red maple age class is a younger pole size nearing small log sized trees with decent quality. No species are showing any sign of decline. Hold until YOE 2031 to allow red maple diameter growth and more merchantable fir. Even aged harvest in future to regenerate red maple/black ash and mixed conifer.</p> <p>OPIC - FMD: SCA Former potential old growth. Retain this stand as a special conservation area to protect the riparian values along Dems Creek, and to enhance the wildlife corridor along the stream. Extremely wet inaccessible sparse swamp conifer stand.</p>																																						
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41	4112 - Maple, Beech, Cherry Association	Poletimber Well	17.2	90	141-170	N/A	<p>North and east portions are dense to red maple poles with lower, flatter ground and poorer drained soil. The west half is also dense to red maple poles but has steeper, rolling terrain and a higher percentage of log sized trees mixed in. Two separate raised ridges access this stand from the south that appear to have possibly been man made in the past. Average over 140 BA.</p> <p>OPIC - FMD: Poor quality red maple stand along a steep ridge above the creek. Access is limited through private land and swamp crossing.</p>																																						
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43	6128 - Lowland Coniferous, Mixed Deciduous	Poletimber Well	9.2	116	51-80	N/A	Dense cedar poles and black ash sapling/poles with merchantable spruce/fir and hardwoods speckled in. Many trees are barely merchantable but there is a fair amount of nice black ash and conifer. Would be hard to operate without damaging some cedar. Could harvest or hold until adjacent hardwood stand is thinned next YOE. OPIC - FMD: SCA. Special conservation area to protect the riparian values along Dems Creek. Small diameter slow growing swamp conifers with lowland hardwoods.																																	
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401	3102 - Grass	Nonstocked	3.7			No	Herbicide in 1996. Grass opening with conifer sapling/pole regen. OPIC - FMD: Grass opening.																																	
402	4191 - Mixed Upland Deciduous with Conifer	Sapling Medium	2.5	21	Immature	N/A	Cleared and seeded in 1998. Dense to aspen, maple, and conifer saplings. OPIC - FMD: Grass opening filling in with red maple seedlings and raspberry.																																	
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403	4130 - Aspen	Sapling Medium	2.7	21	Immature	N/A	Cleared and seeded in 1998. Over 50% stocked with aspen saplings in the center and black cherry around the edges. OPIC - FMD: Grass opening.																																	
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