



Compartment Review Presentation

Gwinn Forest Management Unit

Compartment 32025

Entry Year 2023

Acreage: 1,197

County Marquette

Management Area: Dead Horse Moraines

Revision Date: 2021-08-03

Stand Examiner: John Hamel

Legal Description:

T44N R24W Section 20, 29, 32

Identified Planning Goals:

To maintain and improve biological diversity, forest health and sustainability, considering timber, wildlife, fisheries and recreational needs.

Soil and topography:

Mainly Carbondale-Tawas lowlands with Shoepac-Trenary, Shoepac-Ensley on upland moraines. Small amount of AuGres-Deford muck (stands 4, 5) and Croswell sand (stand 6) on outwash plains.

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

Mainly State ownership with block of private land off Parker Spur. Land use is mainly for timber, wildlife and hunting.

Unique Natural Features:

Potential for round-leaved orchis, calypso, ram's head lady's slipper, marsh grass-of-Parnassass, and limestone oak fern in Cedar Swamps. Potential for auricled tway-blade, western dock, and linear-leaved gentian along riparian areas. Potential for osprey, eagle, and great blue heron rookery. Potential for red-shouldered hawk and goshawk. Potential for wood turtle. Potential for moose and wolf.

Archeological, Historical, and Cultural Features:

None identified

Special Management Designations or Considerations:

None identified

Watershed and Fisheries Considerations:

This compartment contains three sections including a northern, central, and southern section. The northern section of this compartment contains Sawmill Creek. Sawmill Creek is a designated Trout 1 trout stream less than 50' width and the predicted mean July temperature is 64.8 °F (cold stream). The central section of this compartment contains Mud Creek. Mud Creek is designated a Type 1 trout stream less than 50' width and the predicted mean July temperature is 65.7 °F (cold stream). The southern section of this compartment does not contain any waterbodies. 300' buffers are recommended for Sawmill Creek and Mud 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 025 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

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. Bedrock limestone/dolomite may be near the surface in the compartment. However, much of the compartment is covered by wetlands, which would inhibit surface mining. The compartment is more than three miles southeast of historic iron ore production, 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:

Limited by gated private access via Parker Spur to the north of Mud Creek, and poor dirt road access via the Swampbuck Road to the south.

Survey Needs:

Additional survey work will be needed in this compartment.

Recreational Facilities and Opportunities:

Hunter Walking Trails and dispersed hunting opportunities

Fire Protection:

Fire risk is relatively low, due to lowland cover types, although lightning strikes could cause potential suppression difficulties.

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

Gwinn Mgt. Unit
John Hamel : Examiner

Compartment 25 Year of Entry 2023

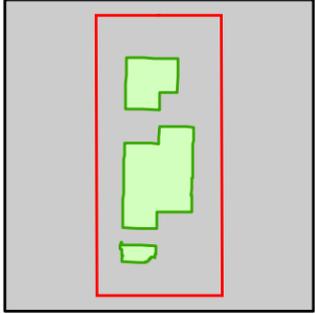


Age Class

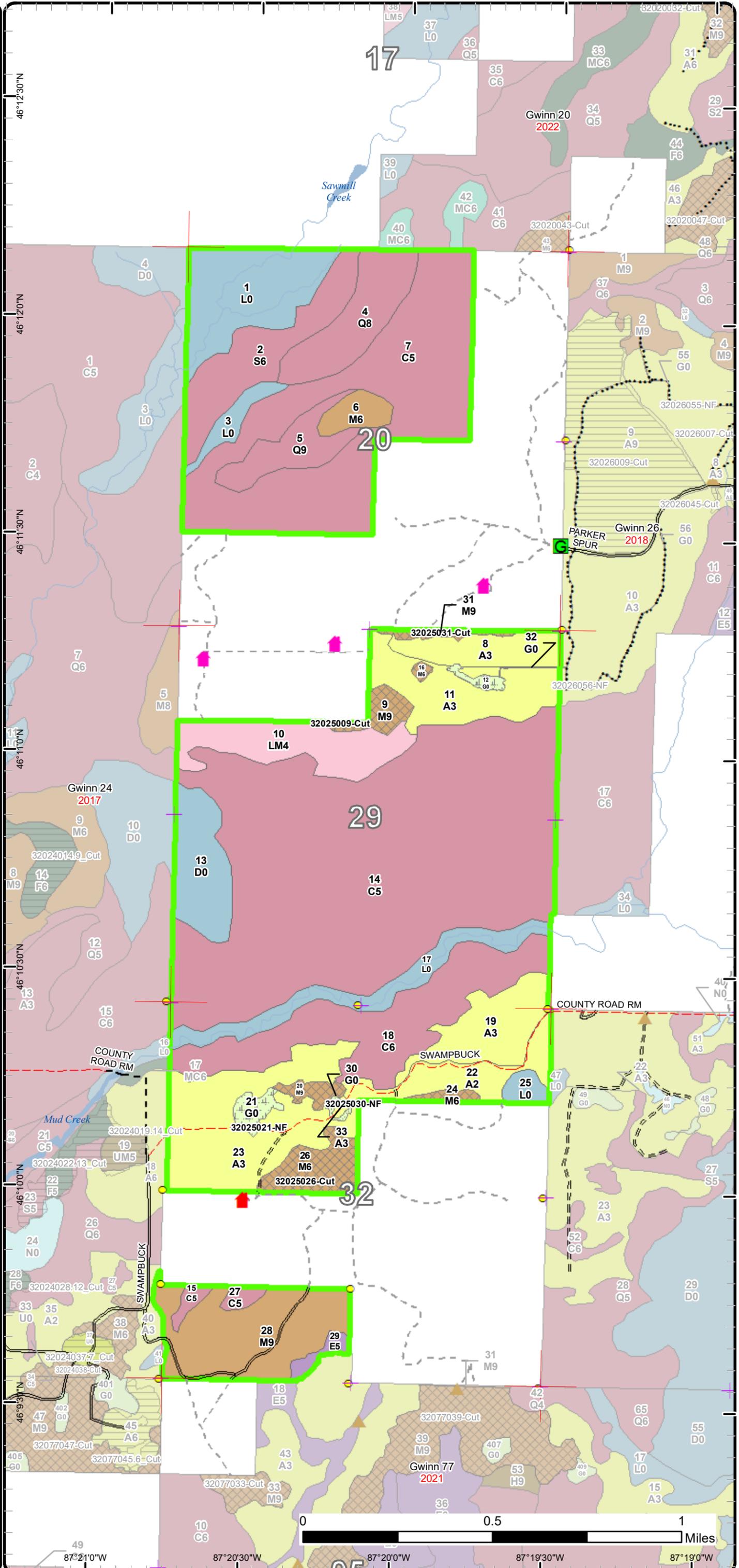
	Non-Forest	0-9	10-19	20-29	30-39	40-49	50-59	60-69	70-79	80-89	90-99	100-109	110-119	120-129	130-139	140-149	150+	Uneven-Aged	Total
Aspen	0	25	22	74	76	0	0	0	0	0	0	0	0	0	0	0	0	0	197
Cedar	0	0	0	0	0	0	0	0	150	0	448	0	0	0	0	0	0	0	598
Herbaceous Openland	9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	9
Lowland Conifers	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	58	58
Lowland Deciduous	0	0	0	0	0	0	0	0	0	0	5	0	0	0	0	0	0	0	5
Lowland Mixed Forest	0	0	0	41	0	0	0	0	0	0	0	0	0	0	0	0	0	0	41
Lowland Shrub	98	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	98
Lowland Spruce/Fir	0	0	0	0	0	0	0	0	0	0	43	0	0	0	0	0	0	0	43
Northern Hardwood	0	0	0	0	0	0	0	0	0	63	32	0	0	0	0	0	0	19	114
Treed Bog	33	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	33
Total	140	25	22	115	76	0	0	0	150	63	528	0	0	0	0	0	0	77	1196

Cover Type & Treatments Map

Compartment: 25
 T44N, R24W, Sec. 20, 29, 32
 County: Marquette
 Unit: Gwinn
 Mgmt Area: Dead Horse Moraines
 YOE: 2023
 Acres: 1196.9 GIS Calculated
 Examiner: John Hamel
 Map Revised: 8/20/2021
 Map Phase: Review

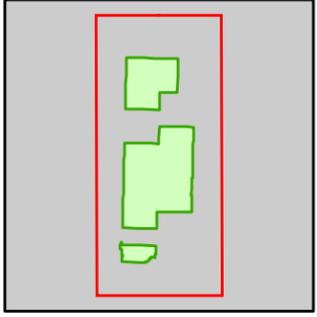


- Miris Corners
- Remonumented Section Corners
- Survey Grade Corners
- Counties
- DNR - Secondary Forest Road
- DNR - Forest Access Route
- Federal / State - Dirt / Gravel Road
- County - Dirt Road (Seasonal)
- Private - Dirt / Gravel Road
- ... DNR - Management Access
- Lake/Pond
- Perennial River
- Lakes and Rivers
- ▲ Cabin
- ▲ Structure, Seasonal Dwelling
- ▲ Berms
- Gate
- Compartment Boundary
- Other Treatment - See Comments
- Selection (Group, Single Tree)
- Mowing
- 411 - Northern Hardwood
- 413 - Aspen Types
- 611 - Lowland Deciduous Forest
- 612 - Lowland Coniferous Forest
- 613 - Lowland Mixed Forest
- 310 - Herbaceous Openland
- 622 - Lowland Shrub

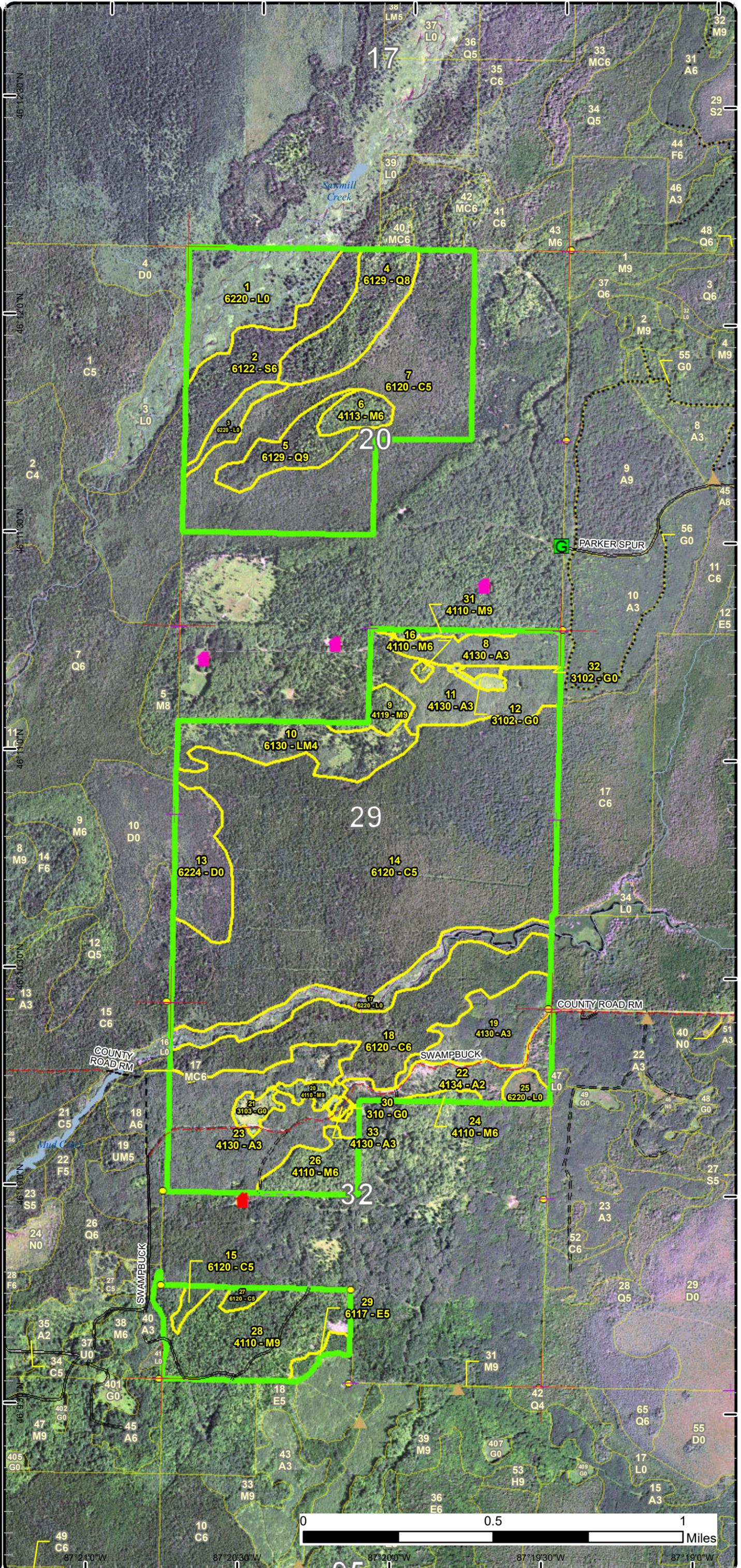


Stand Boundary Map

Compartment: 25
 T44N, R24W, Sec. 20, 29, 32
 County: Marquette
 Unit: Gwinn
 Mgmt Area: Dead Horse Moraines
 YOE: 2023
 Acres: 1196.9 GIS Calculated
 Examiner: John Hamel
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 Map Phase: Review

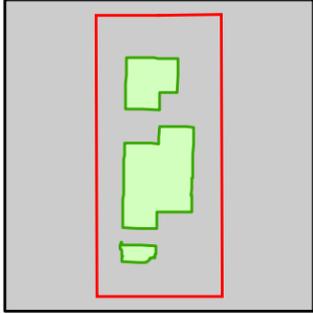


- Miris Corners
- + Remonumented Section Corners
- Survey Grade Corners
- Counties
- DNR - Secondary Forest Road
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- Federal / State - Dirt / Gravel Road
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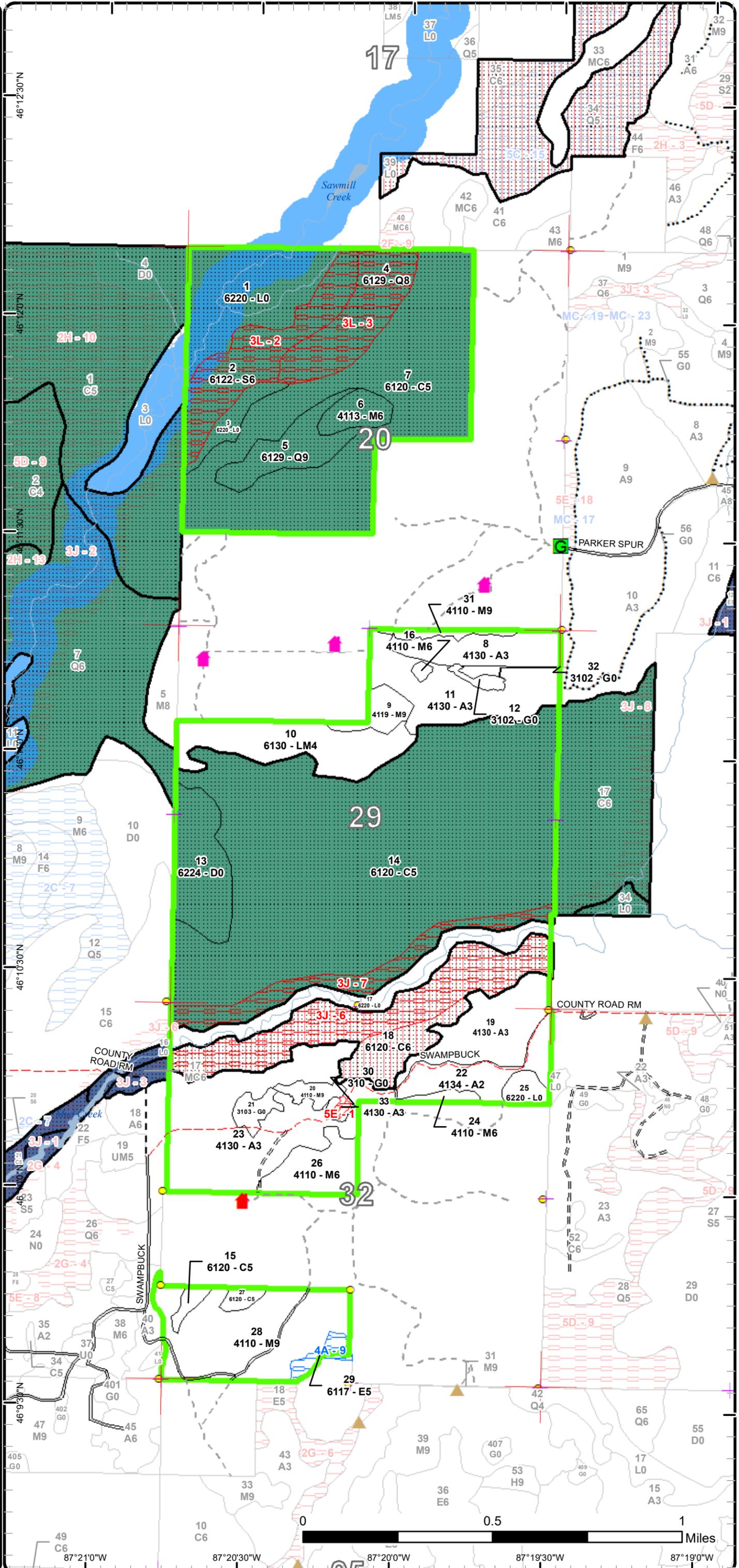


Special Conservation Areas

Compartment: 25
T44N, R24W, Sec. 20, 29, 32
County: Marquette
Unit: Gwinn
Mgmt Area: Dead Horse Moraines
YOE: 2023
Acres: 1196.9 GIS Calculated
Examiner: John Hamel
Map Revised: 8/20/2021
Map Phase: Review



- Miris Corners
- Remonumented Section Corners
- Survey Grade Corners
- - - Counties
- DNR - Secondary Forest Road
- DNR - Forest Access Route
- - - Federal / State - Dirt / Gravel Road
- - - County - Dirt Road (Seasonal)
- - - Private - Dirt / Gravel Road
- ... DNR - Management Access
- Lake/Pond
- Perennial River
- Lakes and Rivers
- ▲ Cabin
- ▲ Structure, Seasonal Dwelling
- ▲ Berms
- G Gate
- Compartment Boundary
- Available w/ Constraints
- 4A: No Markets Available for these Forest Products
- Unavailable
- 3J: Water quality / BMPs (stream, river, or lake)
- 3L: Other wildlife concerns
- 5E: Long-Term Retention
- Stand Boundaries
- SCA
- Cold Water Streams
- Cold Water Lakes
- High Priority Trout Stream Buffer
- Spring or Seep
- Habitat Corridor
- Other SCA (No Category Assigned)





Report 2 – Treatment Summary

Gwinn Mgt. Unit

Year of Entry: 2023

Acres of Harvest

Compartment 25
Total Compartment Acres: 1,197

Commercial Harvest - 42
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
Northern Hardwood		0	42	0	0	0	0	0	0	0	42
	Total	0	42	0	0	0	0	0	0	0	42

Proposed and Next Step Treatments by Method

		Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current		42	0	0	0	0	0	0	9		51
Next Step		0	0	0	0	0	42	0	0		42
	Total	42	0	0	0	0	42	0	9		92



Stand Name	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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Proposed Treatments:

9	32025009-Cut	8.5	4119 - Mixed Northern Hardwoods	Sawtimber Well	100	111-140	Harvest	Single Tree Selection	411 - Northern Hardwood	Uneven-Aged	No
<p><u>Prescription</u> Selectively mark hardwoods, using marking guidelines, managing for best tree in place. Target basal area 70-90. Create canopy gaps where appropriate to establish regeneration and maintain stand diversity. Leave obvious wildlife trees. Retain all Hemlock and Cedar.</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></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2022</p>											
12	32025012-NF	2.6	3102 - Grass	Nonstocked		Unspecified	NonForestMgt	Other - Specify	310 - Herbaceous Openland		No
<p><u>Prescription</u> Plant scattered native/non-GMO mast producing trees/shrubs as appropriate and cover crops in herbaceous openings according to local site conditions to promote forage for specified wildlife species. Hand/mechanical removal of brush/vegetation from the opening will be used to maintain the openings and hunter walking trails--current and future; disking, mowing, cultipacking, pesticide application may be used as necessary to accomplish wildlife goals. Partial completion reports will be completed annually for the duration this FTP is valid, describing completed work.</p> <p><u>Specs:</u></p> <p><u>Next Step</u></p> <p><u>Treatments:</u></p> <p><u>Acceptable Regen:</u> Site to be maintained as opening.</p> <p><u>Other Comment:</u> Site to be maintained as opening. If adjacent stands are to be harvested, please consult with Wildlife Technician Caleb Eckloff for practices to maintain the opening. Examples include roller-chopping, herbicide, minimum harvest spec., use of the opening as a decking area, etc. to clear encroaching vegetation. There is a hunter walking trail within the stand. It is to be managed apart from the bulk of the forested stand. As such, the walking trail alone will be managed as described in the Prescription Specifications. Post timber harvest of any adjacent stands, if the hunter walking trail is utilized by harvest equipment, it is asked that the purchaser/harvester clear debris and level the trail for WLD staff or designee to plant a cover crop.</p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2022</p>											
16	32025016-Cut	1.2	4110 - Sugar Maple Association	Poletimber Well	100	111-140	Harvest	Single Tree Selection	411 - Northern Hardwood	Uneven-Aged	No
<p><u>Prescription</u> Selectively mark hardwoods, using marking guidelines, managing for best tree in place. Target basal area 70-90. Create canopy gaps where appropriate to establish regeneration and maintain stand diversity. Leave obvious wildlife trees. Retain all Hemlock and Cedar.</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></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2022</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
	20 32025020-Cut	5.1	4110 - Sugar Maple Association	Sawtimber Well	98	141-170	Harvest	Single Tree Selection	411 - Northern Hardwood	Uneven-Aged	No
	<p><u>Prescription</u> Selectively mark hardwoods, using marking guidelines, managing for best tree in place. Target basal area 70-90. Create canopy gaps where appropriate to establish regeneration and maintain stand diversity. Leave obvious wildlife trees. Retain all Hemlock and Cedar. Look to improve stand diversity to increase wildlife value. Favor Basswood (6%) – Cavity nesters, pollinators and seed production for small mammals.</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 Hardwoods</p> <p><u>Regen:</u></p> <p><u>Other</u></p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p>Proposed Start Date: 10/1 /2022</p>										
	21 32025021-NF	5.6	3103 - Rubus-Fern	Nonstocked		Unspecified	NonForestMgt	Other - Specify	310 - Herbaceous Openland		No
	<p><u>Prescription</u> Plant scattered native/non-GMO mast producing trees/shrubs as appropriate and cover crops in herbaceous openings according to local site conditions to promote forage for specified wildlife species. Hand/mechanical removal of brush/vegetation from the opening will be used to maintain the openings and hunter walking trails--current and future; disking, mowing, cultipacking, pesticide application may be used as necessary to accomplish wildlife goals. Partial completion reports will be completed annually for the duration this FTP is valid, describing completed work.</p> <p><u>Specs:</u></p> <p><u>Next Step</u></p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> Site to be maintained as opening.</p> <p><u>Regen:</u></p> <p><u>Other</u> Site to be maintained as opening. If adjacent stands are to be harvested, please consult with Wildlife Technician Caleb Eckloff for practices to maintain the opening. Examples include roller-chopping, herbicide, minimum harvest spec., use of the opening as a decking area, etc. to clear encroaching vegetation.</p> <p><u>Comment:</u> There is a hunter walking trail within the stand. It is to be managed apart from the bulk of the forested stand. As such, the walking trail alone will be managed as described in the Prescription Specifications. Post timber harvest of any adjacent stands, if the hunter walking trail is utilized by harvest equipment, it is asked that the purchaser/harvester clear debris and level the trail for WLD staff or designee to plant a cover crop.</p> <p><u>Site Condition</u></p> <p>Proposed Start Date: 10/1 /2022</p>										
	24 32025024-Cut	3.3	4110 - Sugar Maple Association	Poletimber Well	100	111-140	Harvest	Single Tree Selection	411 - Northern Hardwood	Uneven-Aged	No
	<p><u>Prescription</u> Selectively mark hardwoods, using marking guidelines, managing for best tree in place. Target basal area 70-90. Create canopy gaps where appropriate to establish regeneration and maintain stand diversity. Leave obvious wildlife trees. Retain all Hemlock and Cedar. Look to improve stand diversity to increase wildlife value. Favor Basswood - Cavity nesters, pollinators and seed production for small mammals.</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>Proposed Start Date: 10/1 /2022</p>										



Standard

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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26	32025026-Cut	19.3	4110 - Sugar Maple Association	Poletimber Well	100	141-170	Harvest	Single Tree Selection	411 - Northern Hardwood	Uneven-Aged	No
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Prescription Selectively mark hardwoods, using marking guidelines, managing for best tree in place. Target basal area 70-90. Create canopy gaps where appropriate to establish regeneration and maintain stand diversity. Leave obvious wildlife trees. Retain all Hemlock and Cedar.

Specs:

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Northern Hardwood

Regen:

Other

Comment:

Site Condition

Proposed Start Date: 10/1 /2022

30	32025030-NF	1.1	310 - Herbaceous Openland	Nonstocked	0	Unspecified	NonForestMgt	Mowing	310 - Herbaceous Openland		No
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Prescription Plant scattered native/non-GMO mast producing trees/shrubs as appropriate and cover crops in herbaceous openings according to local site conditions to promote forage for specified wildlife species. Hand/mechanical removal of brush/vegetation from the opening will be used to maintain the openings and hunter walking trails--current and future; disking, mowing, cultipacking, pesticide application may be used as necessary to accomplish wildlife goals. Partial completion reports will be completed annually for the duration this FTP is valid, describing completed work.

Specs:

Next Step

Treatments:

Acceptable Site to be maintained as opening.

Regen:

Other Site to be maintained as opening. If adjacent stands are to be harvested, please consult with Wildlife Technician Caleb Eckloff for practices to maintain the opening. Examples include roller-chopping, herbicide, minimum harvest spec., use of the opening as a decking area, etc. to clear encroaching vegetation.

Comment: There is a hunter walking trail within the stand. It is to be managed apart from the bulk of the forested stand. As such, the walking trail alone will be managed as described in the Prescription Specifications. Post timber harvest of any adjacent stands, if the hunter walking trail is utilized by harvest equipment, it is asked that the purchaser/harvester clear debris and level the trail for WLD staff or designee to plant a cover crop.

Site Condition

Proposed Start Date: 10/1 /2022

31	32025031-Cut	4.1	4110 - Sugar Maple Association	Sawtimber Well	100	111-140	Harvest	Single Tree Selection	411 - Northern Hardwood	Uneven-Aged	No
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Prescription Selectively mark hardwoods, using marking guidelines, managing for best tree in place. Target basal area 70-90. Create canopy gaps where appropriate to establish regeneration and maintain stand diversity. Leave obvious wildlife trees. Retain all Hemlock, Cedar, and White

Specs: Ash. Look to improve stand diversity to increase wildlife value. Favor Basswood - Cavity nesters, pollinators and seed production for small mammals. Note - Trees over 24" diameter on the stump should not be cut.

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Northern Hardwoods

Regen:

Other

Comment:

Site Condition

Proposed Start Date: 10/1 /2022

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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
32 32025032-NF	0.1	3102 - Grass	Nonstocked	0	Unspecified	NonForestMgt	Mowing	310 - Herbaceous Openland		No
<p><u>Prescription Specs:</u> Plant scattered native/non-GMO mast producing trees/shrubs as appropriate and cover crops in herbaceous openings according to local site conditions to promote forage for specified wildlife species. Hand/mechanical removal of brush/vegetation from the opening will be used to maintain the openings and hunter walking trails--current and future; disking, mowing, cultipacking, pesticide application may be used as necessary to accomplish wildlife goals. Partial completion reports will be completed annually for the duration this FTP is valid, describing completed work.</p> <p><u>Next Step Treatments:</u></p> <p><u>Acceptable Regen:</u> Site to be maintained as opening.</p> <p><u>Other Comment:</u> Site to be maintained as opening. If adjacent stands are to be harvested, please consult with Wildlife Technician Caleb Eckloff for practices to maintain the opening. Examples include roller-chopping, herbicide, minimum harvest spec., use of the opening as a decking area, etc. to clear encroaching vegetation. There is a hunter walking trail within the stand. It is to be managed apart from the bulk of the forested stand. As such, the walking trail alone will be managed as described in the Prescription Specifications. Post timber harvest of any adjacent stands, if the hunter walking trail is utilized by harvest equipment, it is asked that the purchaser/harvester clear debris and level the trail for WLD staff or designee to plant a cover crop.</p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2022</p>										

**Total Treatment
Acreage Proposed: 50.9**

Report 4 – Site Conditions

Gwinn Mgt. Unit
John Hamel : Examiner

Compartment: 25
Year of Entry: 2023

Availability for Management

Total Acres	Acres Available	Acres Avail		Dominant Site Conditions				
		With Condition	Not Available		4A	3J	3L	5E
198	197	0	1	Aspen				1
598	505	0	93	Cedar		93		
9	9	0	0	Herbaceous Openland				
22	22	0	0	Lowland Conifers				
5	0	4	0	Lowland Deciduous	4			
41	41	0	0	Lowland Mixed Forest				
98	98	0	0	Lowland Shrub			0	
43	0	0	43	Lowland Spruce/Fir			43	
115	115	0	0	Northern Hardwood	0			
33	33	0	0	Treed Bog				
1,162	1,020	4	137	Total Forested Acres	4	93	43	1
	88%	0%	12%	Relative Percent				

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

Site No.	Dominant Site Cond Availability	Dominant Site Condition	Acres	Other Site Condition	Other Site Condition	Other Site Condition	Other Site Condition
1	Unavailable	5E: Long-Term Retention	1	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
2	Unavailable	3L: Other wildlife concerns	43	3J: Water quality / BMPs (stream, river, or lake)	Unspecified	Unspecified	Unspecified
Comments: SCA - wildlife travel corridor. Maintain large closed canopy conifer for snow intercept and thermal protection. Provide forest structure in the form of standing and dead and down coarse woody debris.							
3	Unavailable	3L: Other wildlife concerns	36	3J: Water quality / BMPs (stream, river, or lake)	Unspecified	Unspecified	Unspecified
Comments: wildlife travel corridor. Maintain large closed canopy conifer for snow intercept and thermal protection. Provide forest structure in the form of standing and dead and down coarse woody debris							

Report 4 – Site Conditions

Gwinn Mgt. Unit
John Hamel : Examiner

Compartment: 25
Year of Entry: 2023

6	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	63	Unspecified	Unspecified	Unspecified	Unspecified
<p>Comments: SCA - Riparian and wildlife corridor along Mud Creek. Maintain sufficient zone to protect watershed integrity. Maintain large closed canopy conifer for snow intercept and thermal protection. Provide forest structure in the form of standing and dead and down coarse woody debris.</p>							
7	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	30	Unspecified	Unspecified	Unspecified	Unspecified
<p>Comments:</p>							
9	Available	4A: No Markets Available for these Forest Products	5	Unspecified	Unspecified	Unspecified	Unspecified
<p>Comments:</p>							

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 Lake	A coldwater lake has temperature and dissolved oxygen conditions that allow naturally-reproduced or stocked trout populations and those of other coldwater fish species to persist from year to year. Suitable conditions for coldwater fishes may occur in Michigan lakes if they are relatively deep, have substantial groundwater inflows, or are located in colder (northern) areas of the state. Such lakes are established by Director's action and designated as trout resources by Fisheries Order 200.
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	6220 - Alder/willow	Nonstocked	52.8		Unspecified	No	Contains Sawmill Creek																																																																
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2	6122 - Black Spruce	Poletimber Well	43.0	100	81-110	N/A	Mix of black spruce and cedar, with trace amounts of white pine and paper birch noted. Lab tea, sphagnum ground cover.																																																																
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4	6129 - Mixed Coniferous Lowland Forest	Sawtimber Medium	35.8	130	111-140	N/A	Nearly pure hemlock rises/knobs (13" - 20" dbh), with surrounding lowland areas transitioning from interior black spruce bog with occasional white pine and cedar to white pine, paper birch, red maple with thick balsam fir understory as topography changes. Larger paper birch is dying out. Ground cover of lab tea, sphagnum, snowberry noted. Most of older balsam fir that was within stand is dead/down (from budworm) - thick saplings now.																																																																
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6	4113 - R.Maple, Conifer	Poletimber Well	10.0	100	81-110	N/A	Access is limited on three sides by a ridge of hemlock, spruce, creating a "bowl" of red maple within surrounding cedar swamp. Old red maple, yellow birch "legacy" trees (18" + dbh) with some large white spruce present also (25" dbh measured); otherwise, mainly stand is red maple poles. Ground cover of club moss. Understory with thicker F3 (edges) and/or M3 (50 BA site).																																																								
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7	6120 - Lowland Cedar	Poletimber Medium	149.8	85	51-80	N/A	Variable stocked cedar stand. Lots of standing water, grasses within. North end of stand contains small rise of red maple/paper birch with thick BF understory. Blowdown spruce/fir within (budworm).																																																								
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8	4130 - Aspen	Sapling Well	22.2	15	Unspecified	N/A	T. sale #012-03 "Spur End Aspen" - cut Su, 2005																																																								
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9	4119 - Mixed Northern Hardwoods	Sawtimber Well	8.5	100	111-140	N/A	T. sale #003-93 (unit 6) "Red Top Block" - cut Su, 1994. Main access through private lands. No regeneration noted last entry cycle; little to none noted this entry, except for ironwood. Heavy defects to stems; numerous large diameter "legacy" trees and snags within.																																																								
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10	6130 - Fir, Aspen, Maple	Poletimber Poor	41.1	24	Unspecified	N/A	T. sale #003-93 "Red Top Block" - cut 1994-1996; F patches with A/P clumps/clones. Residual F/S within.																																																			
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11	4130 - Aspen	Sapling Well	41.3	24	Unspecified	N/A	Small inclusion of M within (with heavy BF understory). Scattered lowland pockets - lowland aspen/ash regeneration(10' hts, <=1" dbh). T. sale #003-93 "Red Top Block" - cut 1995,1996.																																																			
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12	3102 - Grass	Nonstocked	2.6		Unspecified	Managed Opening	Managed opening with mast producing trees/shrubs planted around the perimeter.																																																			
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13	6224 - Treed Bog	Nonstocked	32.7		Unspecified	No	low productive black spruce swamp (S4/S2-3)																																																			
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14	6120 - Lowland Cedar	Poletimber Medium	358.9	104	81-110	N/A	Little to no understory present.																																																			
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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15	6120 - Lowland Cedar	Poletimber Medium	3.4	105	Unspecified	N/A	Not much understory regeneration; lots of deer sign (droppings, bedding, trails). Fair amounts of blowdown.
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	4	Pole	8		Black Spruce	Low	5 - 10 feet	Seeding
Yellow Birch	2	Pole/Log	9		Black Ash	Low	10 - 20 feet	Sapling
Paper Birch	2	Pole/Log	9					
Balsam Fir	5	Pole	6					
Black Spruce	5	Pole	5					
Northern White Cedar	78	Log/Pole	10	105				
Black Ash	4	Pole	6					

16	4110 - Sugar Maple Association	Poletimber Well	1.2	100	111-140	N/A	Small stand coded as an inclusion last inventory
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Sugar Maple	80	Log/Pole	10	100	Balsam Fir	High	>20 feet	Sapling
Balsam Fir	20	Pole	9					

17	6220 - Alder/willow	Nonstocked	30.8		Unspecified	No	edges with cedar, spruce
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Sub-Canopy Species	Density	Avg. Height	Size
Tag Alder	Full		Tall Shrub

18	6120 - Lowland Cedar	Poletimber Well	82.2	105	Unspecified	N/A	primarily cedar with some slightly higher grounds containing birch, aspen, trace blk cherry
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Paper Birch	6	Pole	9		Balsam Fir	Medium	Variable	Sapling
Quaking Aspen	2	Log	12		Black Spruce	Medium	5 - 10 feet	Seeding
Balsam Poplar	2	Log	10		Tag Alder	Low	< 5 feet	Tall Shrub
Balsam Fir	15	Sapling/Pole	6					
Black Spruce	15	Sapling/Pole	6					
Northern White Cedar	60	Pole	9	105				

19	4130 - Aspen	Sapling Well	32.9	24	Unspecified	N/A	wet areas within stand. Trace amounts of spruce, cedar. T. sale #004-93 "Swampbuck 32 Block" (units 1,2) - cut fall, 1995 through January, 1996.
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Yellow Birch	2	Sapling	2		Balsam Fir	Low	Variable	Sapling
Paper Birch	2	Sapling	2		White Spruce	Low	Variable	Sapling
Quaking Aspen	84	Sapling	2	24				
Balsam Poplar	10	Sapling	2					
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																			
20	4110 - Sugar Maple Association	Sawtimber Well	5.1	98	141-170	N/A	Trace amounts of red maple, elm and paper birch. T. sale # 004-93 "Swampbuck 32 Block" (unit 5) - thinned fall, 1996.																																			
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21	3103 - Rubus-Fern	Nonstocked	5.6		Unspecified	No																																				
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22	4134 - Aspen, Spruce/Fir	Sapling Medium	25.3	6	Immature	N/A																																				
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23	4130 - Aspen	Sapling Well	75.3	31	Unspecified	N/A	T. sale # 002-87 "Swampbuck Aspen" (Unit 1,2) - cut 1989, and "Swampbuck 32 Block" #04-93 (Unit 4) - cut fall, 1996, NE portion of stand is sale #004-93 and includes small G areas which are filling in.																																			
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24	4110 - Sugar Maple Association	Poletimber Well	3.3	100	111-140	N/A	T. sale #004-93 "Swampbuck 32 Block" (Unit 3) - cut fall, 1996. Little regeneration.																																			
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26	4110 - Sugar Maple Association	Poletimber Well	19.3	100	141-170	N/A	Highly defective log trees - cavities, multi-forked tops, broken tops, cankers. Girdling noted on some of the basswood tops and sugar maple base. Trace amounts of red maple, black cherry and quaking aspen. T. sale #004-93 "Swampbuck 32 Block" (unit 6) - cut fall, 1996																																																
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27	6120 - Lowland Cedar	Poletimber Medium	3.5	105	Unspecified	N/A	Not much understory regeneration; lots of deer sign (droppings, bedding, trails). Fair amounts of blowdown.																																																
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28	4110 - Sugar Maple Association	Sawtimber Well	62.9	95	81-110	N/A	Trace amount of cedar, hemlock, paper birch within stand, as well as small aspen patch cut. Lots of deer sign - trails, bedding sites, browse on regeneration. SE corner of stand drops into more of a lowland hardwood type (RM, YB, ash) with some regeneration present T. sale # 005-93 "Swampbuck Hardwood Block" - thinned 1995-96. Also "Swampbuck Steeler" sale #017-13 - thinned September, 2015. SE lowland corner (~3-4 acres) was excluded from cut.																																																
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29	6117 - Lowland Deciduous, Mixed Coniferous	Poletimber Medium	4.7	100	51-80	N/A	Transition stand between upland hardwoods and aspen knob. Wet, intermittent drainage area. Ash, maple regeneration browsed.																																																
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30	310 - Herbaceous Openland	Nonstocked	1.1	0	Unspecified	Managed Opening																																																	
31	4110 - Sugar Maple Association	Sawtimber Well	4.1	100	111-140	N/A	Small buffer left adjacent private land.																																																
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32	3102 - Grass	Nonstocked	0.1	0	Unspecified	Managed Opening	Historic hunter walking trail cleared and cultivated in 2018, and annually cultivated.																																																



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33	4130 - Aspen	Sapling Well	1.0	31	Unspecified	N/A	T. sale # 002-87 "Swampbuck Aspen" (Unit 1,2) - cut 1989, and "Swampbuck 32 Block" #04-93 (Unit 4) - cut fall, 1996, NE portion of stand is sale #004-93 and includes small G areas which are filling in.																																					
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