



Compartment Review Presentation

Gwinn Forest Management Unit

Compartment 32005

Entry Year 2023

Acreage: 1,417

County Marquette

Management Area: Dead Horse Moraines

Revision Date: 2021-08-03

Stand Examiner: Peter Holodnick

Legal Description:

T44N R23W Section 6,7,18

Identified Planning Goals:

To maintain and improve forest health and sustainability, while providing for wildlife, fisheries and recreational needs.

Soil and topography:

Mainly Cathro-Ensley mucks within lowlands and drainageways, with Shoepac Trenary silt loams, Trenary silt loams on upland moraines.

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

Primarily State with some corporate lands (Plum Creek) within and adjacent, with little urban development. Land use is mainly for timber management, wildlife, and hunting.

Unique Natural Features:

Potential for osprey, eagle, and great blue heron rookery. Potential for red shouldered hawk and goshawk. Potential for wood turtle in Werner Creek. Potential for rapids clubtail along Werner Creek where it passes through several northern hardwood stands. Potential for frigga fritillary, freija fritillary and red-disked alpine in bogs. Potential for moose and wolf. 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 Farwell's water-milfoil and alternate-leaved water-milfoil in shallow lakes.

Archeological, Historical, and Cultural Features:

None identified

Special Management Designations or Considerations:

Watershed and Fisheries Considerations:

The northern region of this compartment contains Werners Creek. Werners Creek is designated a Type 1 trout stream less than 50' width and the predicted mean July temperature is 65.8 °F (cold stream). The southcentral region of this compartment contains Deer Creek. Deer Creek is designated a Type 1 trout stream less than 50' width and the predicted mean July temperature is 64.6 °F (cold stream). 300' buffers are recommended for Werners Creek and Deer 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 005 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

Surface sediments consist of medium-textured glacial till. There is insufficient data to determine the glacial drift thickness. The Ordovician Prairie du Chien and Black River Groups subcrop below the glacial drift. These formations are quarried for stone/dolomite in other areas of the State. The nearest gravel pit is located to the south of the compartment and potential appears to be good. Abandoned iron mines are located eight miles to the west. This compartment has not been leased for metallic exploration. There is no economic oil and gas production in the UP.

Vehicle Access:

from the south - good via County Road RA, and poor dirt State roads, which have deteriorated in recent years due to several years of intensive timber harvesting on corporate lands. From the north – via Stack Grade, a poor dirt State road receiving minimal maintenance.

Survey Needs:

none at this time

Recreational Facilities and Opportunities:

Mainly hunting and trapping

Fire Protection:

Fire risk is relatively low, due to lowland cover types within, although isolated lightning strikes have the possibility of creating suppression difficulties. There are also interior red pine plantation blocks on corporate lands within sections 6 and 7.

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

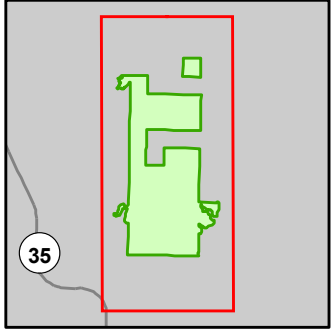


Age Class

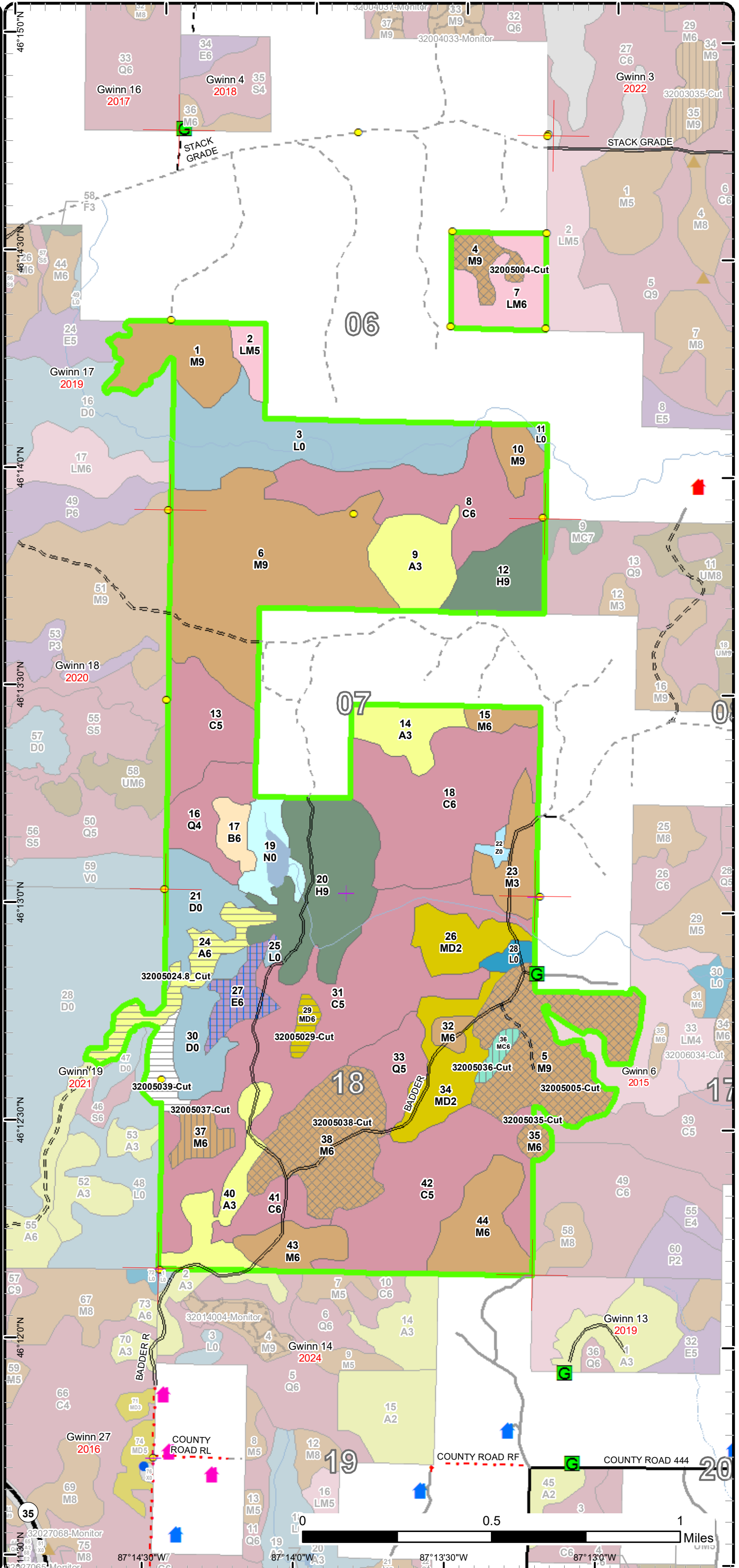
	Non-Forest	0-9	10-19	20-29	30-39	40-49	50-59	60-69	70-79	80-89	90-99	100-109	110-119	120-129	130-139	140-149	150+	Uneven-Aged	Total
Aspen	0	0	0	53	28	0	0	24	0	0	0	0	0	0	0	0	0	0	105
Cedar	0	0	0	0	0	0	0	0	0	98	143	131	66	0	0	0	0	0	438
Hemlock	0	0	0	0	0	0	0	0	0	0	0	30	0	0	0	0	0	68	98
Lowland Conifers	0	0	0	0	0	0	0	0	0	19	0	0	0	0	0	0	0	25	44
Lowland Deciduous	0	0	0	0	0	0	15	0	0	0	0	0	0	0	0	0	0	0	15
Lowland Mixed Forest	0	0	0	0	0	0	0	11	0	0	9	0	29	0	0	0	0	0	49
Lowland Shrub	88	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	88
Marsh	19	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	18
Mixed Upland Deciduous	0	0	0	0	54	0	0	0	0	5	0	0	0	0	0	0	0	0	59
Northern Hardwood	0	0	0	0	24	0	0	0	0	40	59	19	0	0	0	0	0	292	434
Paper Birch	0	0	0	0	0	0	0	0	0	9	0	0	0	0	0	0	0	0	9
Treed Bog	51	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	51
Upland Conifers	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5	5
Water	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3
Total	161	0	0	53	106	0	15	24	11	171	211	180	95	0	0	0	0	390	1416

Cover Type & Treatments Map

Compartment: 5
 T44N, R24W, Sec. 01, 13
 T44N, R23W Sec. 06, 17, 18
 County: Marquette
 Unit: Gwinn
 Mgmt Area: Dead Horse Moraines
 YOE: 2023
 Acres: 1416.9 GIS Calculated
 Examiner: Peter Holodnick
 Map Revised: 8/20/2021
 Map Phase: Review

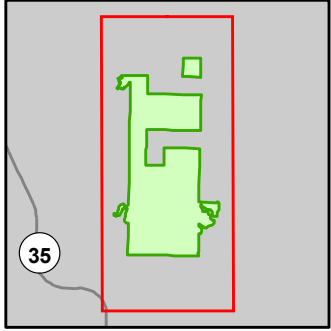


- Miris Corners
- Remonumented Section Corners
- Survey Grade Corners
- Counties
- DNR - Secondary Forest Road
- DNR - Forest Access Route
- Federal / State Highway
- Federal / State / County - Paved Road
- Federal / State - Dirt / Gravel Road
- County - Gravel Road
- Private - Paved Road
- Private - Dirt / Gravel Road
- Intermittent Stream
- Lake/Pond
- Perennial River
- Lakes and Rivers
- 🏠 Cabin
- 🏠 House
- 🏠 Structure, Seasonal Dwelling
- 🏠 Berms
- 🚪 Gate
- 🗼 Tower
- Compartment Boundary
- ▨ Selection (Group, Single Tree)
- ▨ Clearcut (w/Reserves)
- ▨ Seed Tree (w/Reserves)
- ▨ Shelter Wood (w/Reserves)
- 411 - Northern Hardwood
- 413 - Aspen Types
- 414 - Other Upland Deciduous
- 419 - Mixed Upland Deciduous
- 423 - Other Upland Conifers
- 429 - Mixed Upland Conifers
- 611 - Lowland Deciduous Forest
- 612 - Lowland Coniferous Forest
- 613 - Lowland Mixed Forest
- 500 - Water
- 622 - Lowland Shrub
- 623 - Emergent Wetland
- 629 - Mixed Non-forested Wetland

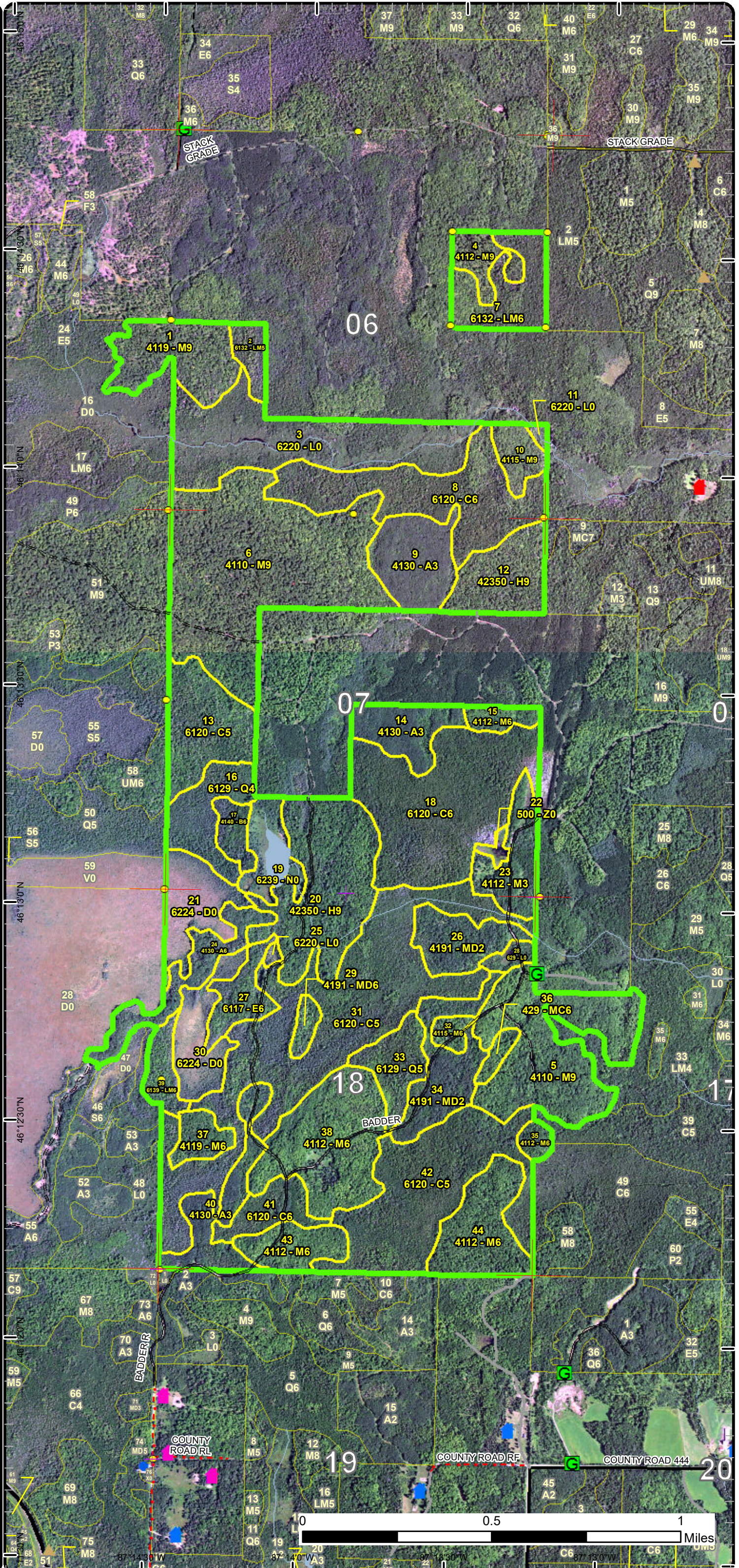


Stand Boundary Map

Compartment: 5
 T44N, R24W, Sec. 01, 13
 T44N, R23W Sec. 06, 17, 18
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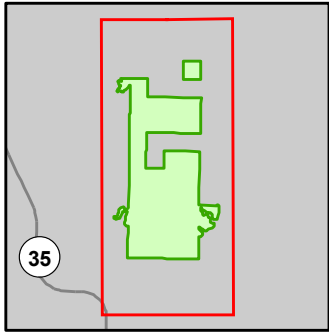


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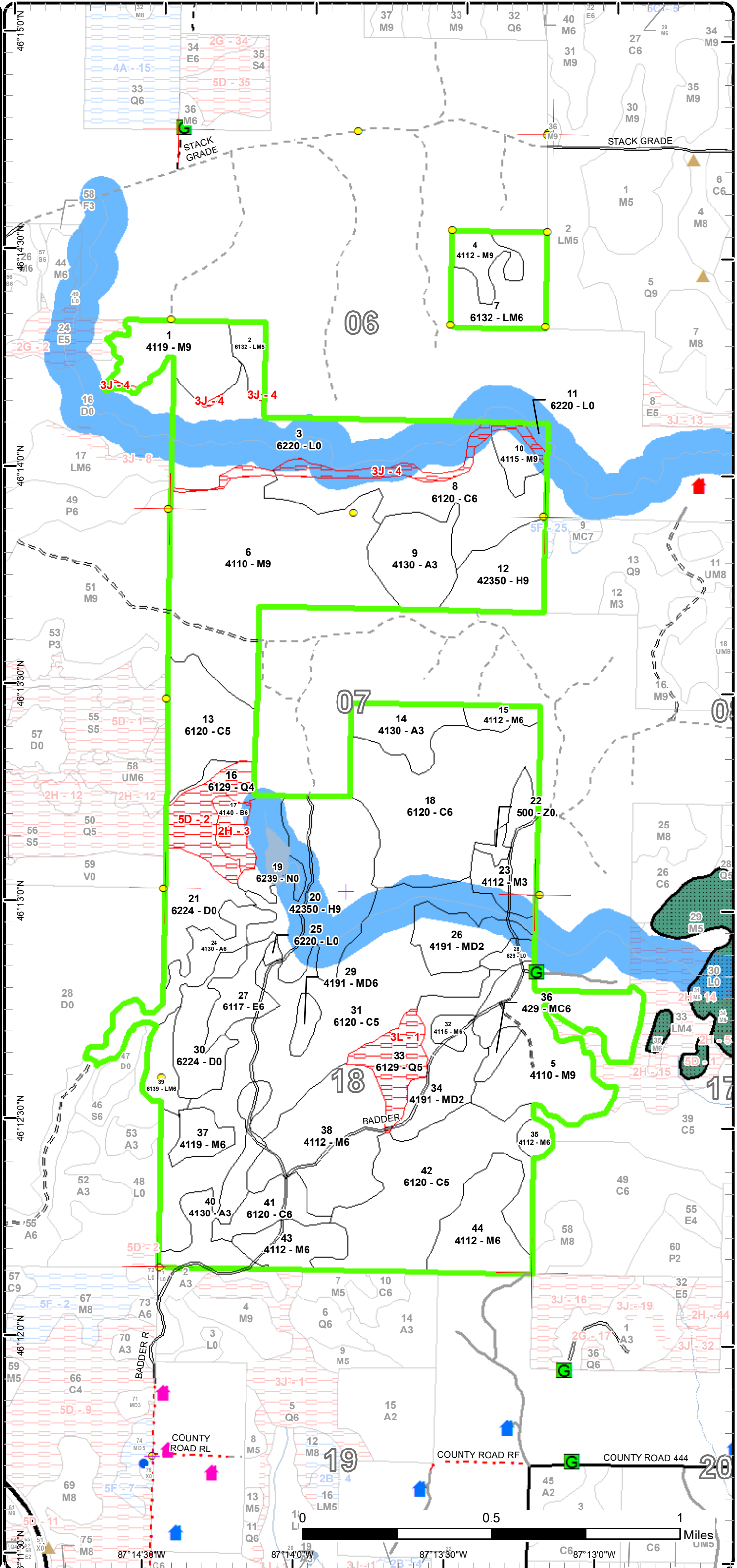


Special Conservation Areas

Compartment: 5
 T44N, R24W, Sec. 01, 13
 T44N, R23W Sec. 06, 17, 18
 County: Marquette
 Unit: Gwinn
 Mgmt Area: Dead Horse Moraines
 YOE: 2023
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- Miris Corners
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- Intermittent Stream
- Lake/Pond
- Perennial River
- Lakes and Rivers
- ▲ Cabin
- ▲ House
- ▲ Structure, Seasonal Dwelling
- ▲ Berms
- G Gate
- Tower
- Compartment Boundary
- Unavailable
- 2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)
- 3J: Water quality / BMPs (stream, river, or lake)
- 3L: Other wildlife concerns
- 5D: Unproductive Forest Land
- Stand Boundaries
- SCA
- High Priority Trout Stream Buffer
- Habitat Corridor





Report 2 – Treatment Summary

Gwinn Mgt. Unit

Year of Entry: 2023

Acres of Harvest

Compartment 5
Total Compartment Acres: 1,417

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

Cover Type by Harvest Method

	Clearcut	Selection	Patch Clearcut	Seed Tree	Shelterwood	Thinning	Overstory Removal	Salvage	Other	Total Acres
Aspen	24	0	0	0	0	0	0	0	0	24
Lowland Deciduous	0	0	0	15	0	0	0	0	0	15
Lowland Mixed Forest	11	0	0	0	0	0	0	0	0	11
Mixed Upland Deciduous	5	0	0	0	0	0	0	0	0	5
Northern Hardwood	0	151	0	0	10	0	0	0	0	161
Upland Conifers	0	0	0	0	5	0	0	0	0	5
Total	41	151	0	15	15	0	0	0	0	222

Proposed and Next Step Treatments by Method

	Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current	222	0	0	0	0	0	0	0	0	222
Next Step	0	0	0	0	0	0	222	0	0	222
Total	222	0	0	0	0	0	222	0	0	444



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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Proposed Treatments:

4	32005004-Cut	12.2	4112 - Maple, Beech, Cherry Association	Sawtimber Well	100	111-140	Harvest	Single Tree Selection	411 - Northern Hardwood	Uneven-Aged	No
<p><u>Prescription Specs:</u> Select appropriate trees for removal to reach residual target basal area of between 70 and 90 square feet. Strive to maintain existing diversity of overstory species and stand structure. No cut Hemlock, Cedar. Favor to keep Basswood, Yellow Birch, and White Ash. Leave some large Black cherry to Keep within the stand.</p> <p><u>Next Step Treatments:</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Acceptable Regen:</u> Any tree species currently in the overstory will be acceptable.</p> <p><u>Other Comment:</u> Highly recommended but not required to to cut in the winter because of wet access. This may be a good one to recommend but not require winter cut. Evaluate when setting up the sale. The stack grade is a boarder line winter road.</p> <p><u>Site Condition</u> Proposed Start Date: 10/1 /2022</p>											
5	32005005-Cut	74.7	4110 - Sugar Maple Association	Sawtimber Well	85	111-140	Harvest	Single Tree Selection	411 - Northern Hardwood	Uneven-Aged	No
<p><u>Prescription Specs:</u> Select appropriate trees for removal to reach residual target basal area of between 70 and 90 square feet. Strive to maintain existing diversity of overstory species and stand structure. No cut Hemlock, Cedar, Black Cherry, and White Pine. Favor to keep Basswood, and Yellow Birch.</p> <p><u>Next Step Treatments:</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Acceptable Regen:</u> Any tree species currently in the overstory will be acceptable.</p> <p><u>Other Comment:</u> Highly recommended but not required to to cut in the winter because of wet access. This may be a good one to recommend but not require winter cut. Evaluate when setting up the sale.</p> <p><u>Site Condition</u> Proposed Start Date: 10/1 /2022</p>											
24	32005024.8_Cut	24.3	4130 - Aspen	Poletimber Well	60	81-110	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	No
<p><u>Prescription Specs:</u> Cut all trees except Hemlock Cedar and White Pine. Leave 3-10% retention in areas that are too steep.</p> <p><u>Next Step Treatments:</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Acceptable Regen:</u> Any tree species currently in the overstory will be acceptable</p> <p><u>Other Comment:</u> Highly recommended but not required to to cut in the winter because of wet access. Evaluate when setting up the sale.</p> <p><u>Site Condition</u> Proposed Start Date: 10/1 /2022</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
27 32005027-Cut	15.4	6117 - Lowland Deciduous, Mixed Coniferous	Poletimber Well	55	Unspecified	Harvest	Seed Tree with Retention	611 - Lowland Deciduous Forest	Even-Aged	No
<p><u>Prescription</u> Cut all trees except Hemlock, Cherry, Yellow Birch, Cedar, and White Pine. Leave 3-10% retention in areas where there is pockets of cedar or wet patches. Leave some Paper Birch in retention if possible.</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> Any trees species currently in the overstory will be acceptable.</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 /2022</p>										
29 32005029-Cut	5.3	4191 - Mixed Upland Deciduous with Conifer	Poletimber Well	85	51-80	Harvest	Clearcut	4199 - Other Mixed Upland Deciduous	Even-Aged	No
<p><u>Prescription</u> Cut all but Hemlock and Cedar. No retention due to small size.</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> Any tree species currently in the overstory</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 /2022</p>										
35 32005035-Cut	4.8	4112 - Maple, Beech, Cherry Association	Poletimber Well	85	111-140	Harvest	Single Tree Selection	411 - Northern Hardwood	Uneven-Aged	No
<p><u>Prescription</u> Select appropriate trees for removal to reach residual target basal area of between 70 and 90 square feet. Strive to maintain existing diversity of overstory species and stand structure. No cut Hemlock, Cedar. Favor to keep Basswood, Black Cherry, Yellow Birch, and White Ash.</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> Any tree species currently in the overstory would be acceptable.</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 /2022</p>										

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Treatment ID	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
36	32005036-Cut	4.6	429 - Mixed Upland Conifers	Poletimber Well	85	111-140	Harvest	Shelterwood with Retention	411 - Northern Hardwood	Uneven-Aged	No
<p><u>Prescription</u> Select appropriate trees for removal to reach residual target basal area of between 40 and 60 square feet. Strive to maintain existing diversity of overstory species and stand structure. No cut Hemlock, Cedar, and any X-log size White Pine. Favor to keep Black Cherry, Yellow Birch, and smaller diameter White Pine. Retention is in the leave trees.</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> Any tree species currently in the overstory would be acceptable.</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 /2022</p>											
37	32005037-Cut	10.4	4119 - Mixed Northern Hardwoods	Poletimber Well	100	111-140	Harvest	Shelterwood with Retention	411 - Northern Hardwood	Uneven-Aged	No
<p><u>Prescription</u> Select appropriate trees for removal to reach residual target basal area of between 40 and 60 square feet. Strive to maintain existing diversity of overstory species and stand structure. No cut Hemlock, Cedar. Favor to keep Black Cherry and Yellow Birch.</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> Any tree species currently in the overstory is acceptable.</p> <p><u>Regen:</u></p> <p><u>Other</u> Highly recommended but not required to to cut in the winter because of wet access. Evaluate when setting up the sale.</p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2022</p>											
38	32005038-Cut	59.0	4112 - Maple, Beech, Cherry Association	Poletimber Well	97	111-140	Harvest	Single Tree Selection	411 - Northern Hardwood	Uneven-Aged	No
<p><u>Prescription</u> Select appropriate trees for removal to reach residual target basal area of between 70 and 90 square feet. Strive to maintain existing diversity of overstory species and stand structure. No cut Hemlock, Cedar, Black Cherry, Yellow Birch and White Pine. Favor to keep Basswood.</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> Any tree species currently in the overstory will be acceptable.</p> <p><u>Regen:</u></p> <p><u>Other</u> Highly recommended but not required to to cut in the winter because of wet access. This may be a good one to recommend but not require winter cut. Evaluate when setting up the sale.</p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2022</p>											
39	32005039-Cut	11.4	6139 - Mixed Lowland Forest	Poletimber Well	72	81-110	Harvest	Clearcut with Retention	6139 - Mixed Lowland Forest	Even-Aged	No
<p><u>Prescription</u> Cut all trees except Hemlock, Cherry, Yellow Birch, Cedar, and White Pine. Leave 3-10% retention in areas where there is pockets of cedar or wet patches.</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> Any tree species currently in the overstory will be acceptable.</p> <p><u>Regen:</u></p> <p><u>Other</u> Highly recommended but not required to to cut in the winter because of wet access. Evaluate when setting up the sale.</p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2022</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
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Total Treatment
Acreage Proposed: 222.1

Report 4 – Site Conditions

Gwinn Mgt. Unit

Compartment: 5

Peter Holodnick: Examiner

Year of Entry: 2023

Availability for Management

Total Acres	Acres Available	Acres Avail With Condition	Acres Not Available	Dominant Site Conditions	2H	3J	3L	5D
105	105	0	0	Aspen				
438	427	0	11	Cedar		11		0
98	98	0	0	Hemlock				
44	2	0	42	Lowland Conifers			19	23
15	15	0	0	Lowland Deciduous				
49	49	0	0	Lowland Mixed Forest		0		
88	88	0	0	Lowland Shrub				
19	19	0	0	Marsh				
59	59	0	0	Mixed Upland Deciduous				
434	427	0	7	Northern Hardwood		7		
9	0	0	9	Paper Birch	9			
51	51	0	0	Treed Bog				0
5	5	0	0	Upland Conifers				
3	3	0	0	Water				
1,417	1,347		70	Total Forested Acres	9	19	19	23
	95%		5%	Relative Percent				

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

Site No.	Dominant Site Cond Availability	Dominant Site Condition	Acres	Other Site Condition	Other Site Condition	Other Site Condition	Other Site Condition
1	Unavailable	3L: Other wildlife concerns	19	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
2	Unavailable	5D: Unproductive Forest Land	23	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Treed bog stand.							

Report 4 – Site Conditions

Gwinn Mgt. Unit

Compartment: 5

Peter Holodnick: Examiner

Year of Entry: 2023

3	Unavailable	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	9	Unspecified	Unspecified	Unspecified	Unspecified
<p>Comments: Silviculturally, stand is ready for treatment, but access across low bog/marsh ground would severely restrict.</p>							
4	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	19	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	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.



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1	4119 - Mixed Northern Hardwoods	Sawtimber Well	35.4	107	81-110	N/A	Recommended old growth last entry.																																																									
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3	6220 - Alder/willow	Nonstocked	79.7		Unspecified	No	Lowland stand of mainly tagalder with a few trees. Standing water, club moss, grasses/sedge. Recommended potential old growth last entry - agree.																																																									
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4	4112 - Maple, Beech, Cherry Association	Sawtimber Well	12.2	100	111-140	N/A	Stand harvested as "Stack Memorial Hardwoods" #015-13 cut Feb-March, 2014. Updated now from old field visit notes at sale closing. Lots of Cherry and lots of blow down.																																																									
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6	4110 - Sugar Maple Association	Sawtimber Well	136.8	85	81-110	N/A	"Bravo Two Block" sale # 001-93 (Units 3-7) - completed 1996. "N. Badders Road Hardwoods" #014-13 - thinned August-Dec., 2014. Rolling terrain; draws. Lower quality/lower topography at north end of stand. Canopies have not closed in yet.																																																																	
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8	6120 - Lowland Cedar	Poletimber Well	66.4	112	Unspecified	N/A	Trace amounts of balsam fir and white spruce in canopy; sub-canopy has trace of ash, yellow birch, fir and spruce.																																																																	
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9	4130 - Aspen	Sapling Well	31.1	26	Unspecified	N/A	"Bravo Two Block" #001-93 (unit 2) - cut 1994, 1995. Mix of upland and lowland grounds; lower, more open areas with balsam poplar, willow, F/S and maple.																																																																
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10	4115 - Y.Birch, Hemlock NH	Sawtimber Well	11.4	107	81-110	N/A	Isolated hardwood patch between creek and cedar swamp.																																																																
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11	6220 - Alder/willow	Nonstocked	1.7		Unspecified	No	Contains Werner Creek																																																																
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13	6120 - Lowland Cedar	Poletimber Medium	37.7	102	51-80	N/A	portion of stand treated as "McFarland Hardwoods" #007-03 (unit 7) - cut Feb, 2007 (seed tree). Mixed stand, due to treatment.																																																																
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15	4112 - Maple, Beech, Cherry Association	Poletimber Well	7.2	100	81-110	N/A	"McFarland Hardwoods" #007-03 (unit 5) - thinned August, 2006. Trace amount of hemlock and paper birch noted.																																																							
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16	6129 - Mixed Coniferous Lowland Forest	Poletimber Poor	25.0	115	Unspecified	N/A	Spruce/tamarack bog																																																							
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17	4140 - Other Upland Deciduous	Poletimber Well	9.2	86	Unspecified	N/A	Average BA=100.																																																							
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18	6120 - Lowland Cedar	Poletimber Well	93.2	107	171-200	N/A	Nice cedar stems. Trace amounts of w. spruce, hemlock, red maple, yellow birch, ash and aspen noted.																																																							
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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19 6239 - Mixed Emergent Wetland Nonstocked 18.5 Unspecified No

Sub-Canopy Species	Density	Avg. Height	Size
White Pine	Trace		Log
Red Maple	Trace		Sapling
Tamarack	Medium		Sapling
Tag Alder	Medium		Tall Shrub
Northern White Cedar	Trace		Pole
White Spruce	Trace		Pole
Black Spruce	Trace		Sapling

20 42350 - Upland Hemlock Sawtimber Well 68.4 95 81-110 N/A

part of "McFarland Hardwoods" #007-03 (unit 4 and 3?) - cut Oct, 2006 - Feb, 2007.

Canopy Species	% Cover	Size Class	DBH	Age
Red Maple	15	Pole/Log	9	
Yellow Birch	10	Log	10	
Paper Birch	2	Log/Pole	12	
White Spruce	2	Log	14	
Black Spruce	2	Pole/Sapling	6	
Northern White Cedar	2	Pole	9	
White Pine	5	Log/XLog	20	
Hemlock	62	Log/Pole	12	95

Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	Medium	5 - 10 feet	Tall Shrub
Balsam Fir	Medium	Variable	Sapling
Hemlock	Low	< 5 feet	Seeding
Blackberry/Raspberry	Medium	< 5 feet	Tall Shrub

21 6224 - Treed Bog Nonstocked 26.8 Unspecified No Bog

Sub-Canopy Species	Density	Avg. Height	Size
Tamarack	Medium		Sapling
Black Spruce	Medium		Sapling

22 500 - Water Nonstocked 2.7 Unspecified No Flooding into surrounding stand 18

Sub-Canopy Species	Density	Avg. Height	Size
Black Ash	Medium		Sapling
Tag Alder	Medium		Tall Shrub
Red Maple	Low		Sapling
Willow spp.	Medium		Tall Shrub



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																	
23	4112 - Maple, Beech, Cherry Association	Sapling Well	23.8	34	1-50	N/A	Cut 1987 - sprout-origin maple/cherry; some lowland inclusions within. Aspen/paper birch mainly along road edges.																																																	
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24	4130 - Aspen	Poletimber Well	24.3	60	81-110	N/A	Steep razorback ridge of aspen along bog edge.																																																	
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25	6220 - Alder/willow	Nonstocked	1.3		Unspecified	No	treed bog/tagalder lowland along trail																																																	
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26	4191 - Mixed Upland Deciduous with Conifer	Sapling Medium	22.7	34	51-80	N/A	Cut 1987. Aspen, maple and cherry with fir. Trace amounts of red and white pine, tamarack.																																																	
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27	6117 - Lowland Deciduous, Mixed Coniferous	Poletimber Well	15.4	55	Unspecified	N/A	The Paper birch would benefit from being cut now as it would stump sprout back.																																																	
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28	629 - Mixed non-forested wetland	Nonstocked	4.9		Unspecified	No	Dead timber/snags within																																																																																	
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32	4115 - Y.Birch, Hemlock NH	Poletimber Well	4.9	75	81-110	N/A	T. sale #002-93 (unit 3) - cut F,'93 - W,'94. Trace amounts of sugar maple, paper birch.																																																																																	
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Stand **Level 4 Cover Type** **Size Density** **Acres** **Stand Age** **BA Range** **Managed Site** **General Comments**

33 6129 - Mixed Coniferous Lowland Forest Poletimber Medium 19.4 84 51-80 N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	10	Sapling/Pole	4		Balsam Fir	High	Variable	Sapling
Yellow Birch	2	Pole/Log	5		Black Spruce	High	10 - 20 feet	Sapling
Paper Birch	2	Pole	9		Northern White Cedar	Medium	>20 feet	Sapling
Quaking Aspen	2	Pole/Log	10		White Pine	Low	Variable	Seeding
White Spruce	5	Log	12		Tag Alder	Low	5 - 10 feet	Tall Shrub
Black Spruce	5	Pole/Sapling	7		Maple (spp.)	Medium	10 - 20 feet	Sapling
Northern White Cedar	48	Pole/Sap/Log	6	84				
White Pine	11	XLog	22					
Hemlock	15	Pole/Log/Sap	8					

34 4191 - Mixed Upland Deciduous with Conifer Sapling Medium 31.0 34 51-80 N/A

Cut 1987 - mixed aspen, cherry, maple with fir. Trace amounts of white pine, tamarack.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	20	Sapling	3	34	Balsam Fir	Medium	Variable	Seeding
Quaking Aspen	30	Sapling/Pole	4	34	White Spruce	Low	Variable	Seeding
Balsam Fir	20	Sapling	2		Tag Alder	Medium	< 5 feet	Tall Shrub
Black Cherry	30	Sapling	3		Willow spp.	Low	< 5 feet	Tall Shrub

35 4112 - Maple, Beech, Cherry Association Poletimber Well 4.8 85 111-140 N/A

Small hardwood island. T. sale #003-95 "Double Blind Block" (part of Unit1) - thinned fall, 1996-98.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Sugar Maple	50	Pole/Log	8	85	Balsam Fir	Medium	5 - 10 feet	Sapling
Red Maple	40	Pole/Log	8		White Spruce	Low	< 5 feet	Seeding
Yellow Birch	8	XLog/Log	20		Hemlock	Low	10 - 20 feet	Sapling
Hemlock	2	Log	11		Maple (spp.)	Medium	< 5 feet	Seeding

36 429 - Mixed Upland Conifers Poletimber Well 4.6 85 111-140 N/A

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	20	Pole/Log	9	85	Balsam Fir	Medium	Variable	Sapling
Yellow Birch	10	Log/Pole	12					
Balsam Fir	15	Pole	6					
White Spruce	10	Log/Pole	16					
Northern White Cedar	10	Pole	9					
White Pine	10	Log/XLog	18					
Hemlock	20	Log/Pole	12					
Black Ash	5	Pole	6					



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																																													
37	4119 - Mixed Northern Hardwoods	Poletimber Well	10.4	100	111-140	N/A	"McFarland Hardwoods" #007-03 (unit 1) - cut Jan, 2007 (after numerous freezing issues). It could use another thinning. Lots of budworm damage on the fir. A shelter wood cut would provide more slash to skid on and clean up some of the defect in this stand.																																																																													
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38	4112 - Maple, Beech, Cherry Association	Poletimber Well	59.0	97	111-140	N/A	Portion cut in 1987 and also "Raish Landing Sale" #002-93 (unit 2) - cut Su/F, 1993. Heavier conifer cover around G type; hemlock patches within. For McFarland this is high quality wood.																																																																													
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42	6120 - Lowland Cedar	Poletimber Medium	82.1	88	111-140	N/A	Small sale patches within ("Deer Creek Hardwoods" # 008-03 (OI stand 41 - unit 1) - cut Feb, 2007. Some cutting also done in 1993.																																																																								
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43	4112 - Maple, Beech, Cherry Association	Poletimber Well	18.5	76	51-80	N/A	"Raish Landing Sale" #002-93 (unit 1) - cut Su, 1993.																																																																								
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
44	4112 - Maple, Beech, Cherry Association	Poletimber Well	34.9	85	81-110	N/A	Set-up under sale #002-93 (unit 4) - never cut. Re-set up as "Deer Creek Hardwoods" #008-03 (units 2,3) - cut Feb, 2007.

Canopy Species	% Cover	Size Class	DBH	Age
Sugar Maple	40	Pole/Log	8	
Red Maple	44	Log/Pole	10	85
Yellow Birch	8	Log/XLog	18	
Quaking Aspen	2	Log	14	
White Spruce	2	Log	12	
Northern White Cedar	2	Pole	9	
Hemlock	2	Pole/Log	9	

Sub-Canopy Species	Density	Avg. Height	Size
Balsam Fir	Medium	10 - 20 feet	Sapling
White Spruce	Low	Variable	Sapling
Black Cherry	Low	10 - 20 feet	Sapling
Maple (spp.)	Low	10 - 20 feet	Sapling