



Compartment Review Presentation

Gwinn Forest Management Unit

Compartment 32010

Entry Year 2021

Acreage: 1,472

County Marquette

Management Area: Dead Horse Moraines

Revision Date: 2019-07-25

Stand Examiner: Peter Holodnick

Legal Description:

T44N R23W Sections 23, 26, 35

Identified Planning Goals:

For the 2011 entry year we are proposing thinning the hardwood between Deer and Deadhorse creeks. This would include stands 25, 28, 37 and 46. We will need a portable bridge from either the north, along with a culvert, or from the south through private land. Another possibility would be from the east, building a road through a couple hundred yards of wetland. We would retain representatives of all species in these thinnings, plus retain old legacy trees and other trees important to wildlife. An adequate stream buffer would be included near all streams.

Soil and topography:

shoepac-trenary silt loam, shoepac-reade complex, cathro-ensley complex, charlevoix-ensley complex. Flat to rolling topography.

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

Private hunting camps north and in section 26. Also SW of compartment is private and blocks good vehicle access there, although we have had access for logging through there in the past.

Unique Natural Features:

There is a large boulder in stand 30 with Canada Yew growing on top, out of the reach of heavy browsing. This boulder is a likely refuge for this once common plant, since it is quite rare within several miles of this boulder.

Archeological, Historical, and Cultural Features:

Special Conservation Areas are the stands associated with the riparian zones along the creeks. Stands 7,15,18,21,22,26,29,45,47,48.

Special Management Designations or Considerations:

Watershed and Fisheries Considerations:

The northeastern region of this compartment contains Spring Creek which serves as a tributary to Deer Creek. Spring Creek is designated a Type 1 trout stream less than 50' width. A 300' buffer is recommended for Spring 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. The central region of this compartment contains Deer Creek which serves as a tributary to Werners Creek (Whitefish River watershed). Deer Creek is designated a Type 1 trout stream less than 50' width. A 300' buffer is recommended for 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. The southern region of this compartment contains Deadhorse Creek which serves as a tributary to the Rapid River (Rapid River watershed). Deadhorse Creek is designated a Type 1 trout stream less than 50' width. A 300' buffer is recommended for Deadhorse 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 010 is found within the Dead Horse Moraines Management Area; on Ground Moraines in southeastern Marquette, southwestern Alger, and northwestern Delta Counties. The dominant Natural Communities are poor conifer swamps, mesic northern forests, and dry northern forests. Major forest cover types include Northern Hardwood, Aspen, and Mixed Lowland Conifer. This management area contains a large proportion of hardwood forest which regenerates well partly due to the heavier snow cover and lower deer numbers than the southern portion of this Management Area.

The most significant wildlife management issues in the management area are: mast (hard and soft); mature forest (upland deciduous, especially aspen and mixed forest with little understory); coarse woody debris, early successional forest, and deer wintering complexes.

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

Mineral Resource and Development Concerns and/or Restrictions

Vehicle Access:

Good vehicle access in section 23 and 26 north of N. Br. Deer creek. No vehicle access south of N. Br. Deer creek and north of Deer creek main branch. Deadhorse creek area access is through private land or east from Deadhorse Creek Road behind a DNR gate. We will need a portable bridge and road upgrades to access the proposed timber sales in this compartment.

Survey Needs:

Need the corners on the east side of the private land in section 26.

Recreational Facilities and Opportunities:

Typical forest recreation, no developed recreational facilities.

Fire Protection:

Fire frequency is low in this compartment. Due to the extensive wetlands and hardwoods, fire intensity would be quite low. Vehicle access for fire equipment would be poor in at least half the compartment.

Additional Compartment Information:

¾ The following 5 reports from the Operations Inventory System (OIPC) are attached: ♦ Cover Type by Age Class ♦ Cover Type by Management Objective ♦ Compartment Volume Summary ♦ Proposed Treatments – No Limiting Factors ♦ Proposed Treatments – With Limiting Factors

¾ The following information is displayed, where pertinent, on the attached compartment maps: ♦ Base feature information, stand numbers, cover types ♦ Proposed treatments ♦ Proposed road access system ♦ Suggested potential old growth

The following reports from the Inventory are attached:

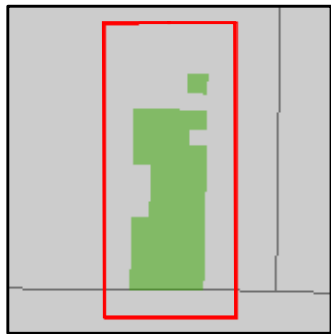
Total Acres by Cover Type and Age Class
Cover Type by Harvest Method
Proposed Treatments – No Limiting Factors
Proposed Treatments – With Limiting Factors
Stand Details (Forested and Nonforested)
Dedicated and Proposed Special Conservation Areas
Site Condition Details

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

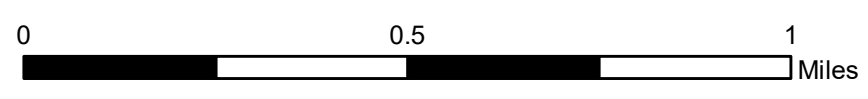
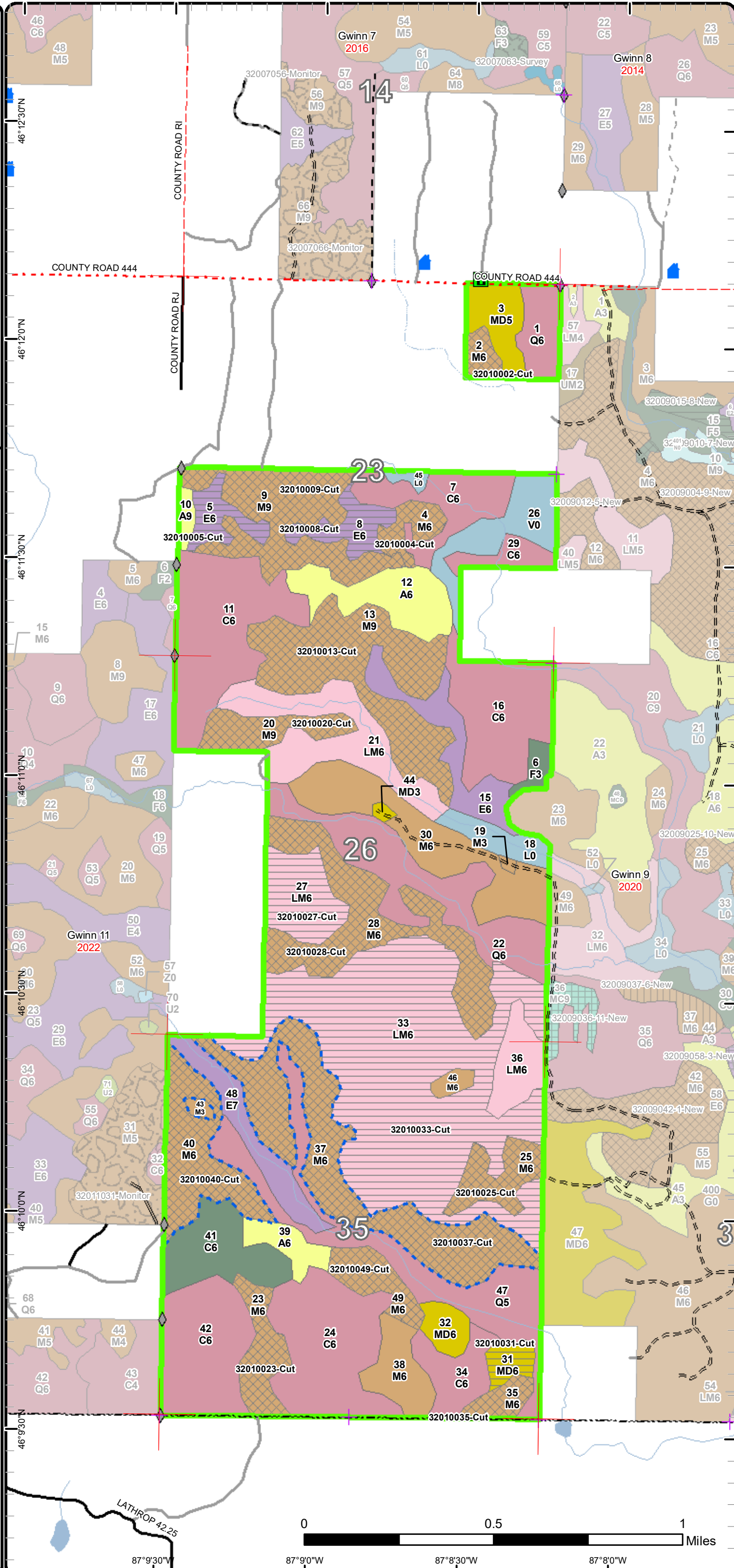
Base feature information, stand boundaries, cover types, and numbers
Proposed treatments
Site condition boundaries
Details on the road access system

Cover Type & Treatments Map

Compartment: 10
 T44N, R23W, Sec. 23, 26, 35
 County: Marquette
 Unit: Gwinn
 Mgmt Area: Dead Horse Moraines
 YOE: 2021
 Acres: 1,472 GIS Calculated
 Examiner: Peter Holodnick
 Map Revised: 8/19/2019
 Map Phase: Web-Post



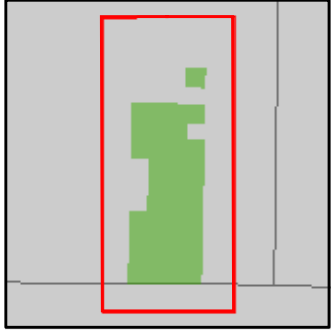
- Miris Corners
- + Remonumented Section Corners
- ◆ Field Grade Corners
- Counties
- DNR - Secondary Forest Road
- DNR - Forest Access Route
- Federal / State / County - Paved Road
- Federal / State - Dirt / Gravel Road
- County - Gravel Road
- County - Dirt Road (Seasonal)
- Private - Paved Road
- Private - Dirt / Gravel Road
- Intermittent Stream
- Lake/Pond
- Perennial River
- Lakes and Rivers All
- House
- G Gate
- Structures
- Compartment Boundary
- Treatments with Site Conditions
- Selection (Group, Single Tree)
- Clearcut (w/Reserves)
- 411 - Northern Hardwood
- 413 - Aspen Types
- 419 - Mixed Upland Deciduous
- 423 - Other Upland Conifers
- 611 - Lowland Deciduous Forest
- 612 - Lowland Coniferous Forest
- 613 - Lowland Mixed Forest
- 622 - Lowland Shrub
- Lakes



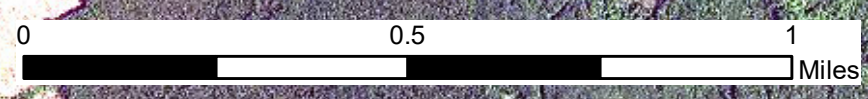
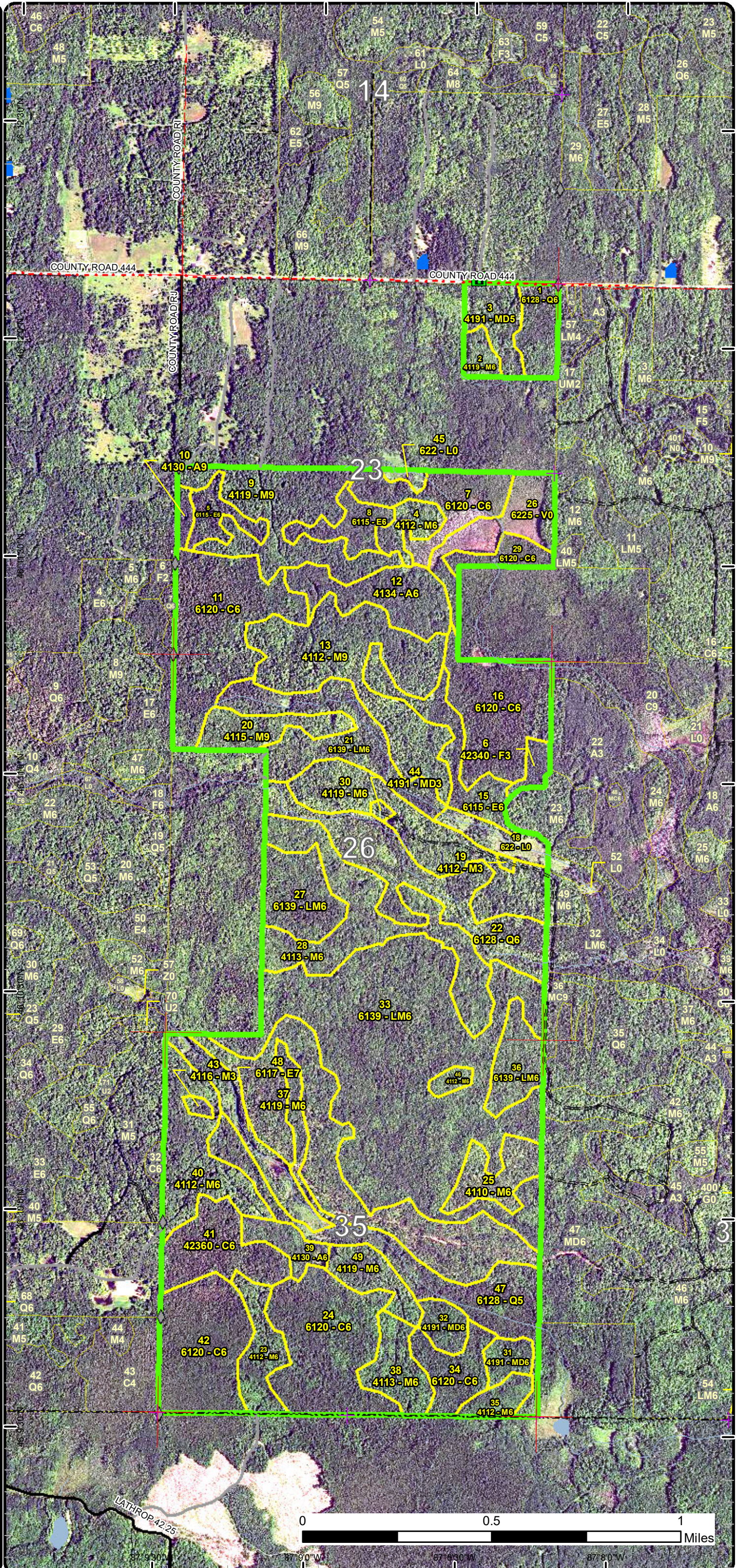
87°9'30"W 87°9'0"W 87°8'30"W 87°8'0"W

Stand Boundary Map

Compartment: 10
 T44N, R23W, Sec. 23, 26, 35
 County: Marquette
 Unit: Gwinn
 Mgmt Area: Dead Horse Moraines
 YOE: 2021
 Acres: 1,472 GIS Calculated
 Examiner: Peter Holodnick
 Map Revised: 8/19/2019
 Map Phase: Web-Post



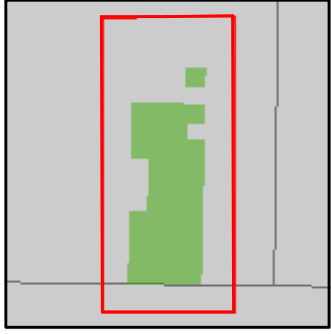
- Miris Corners
- + Remonumented Section Corners
- ◆ Field Grade Corners
- Counties
- DNR - Secondary Forest Road
- DNR - Forest Access Route
- Federal / State / County - Paved Road
- Federal / State - Dirt / Gravel Road
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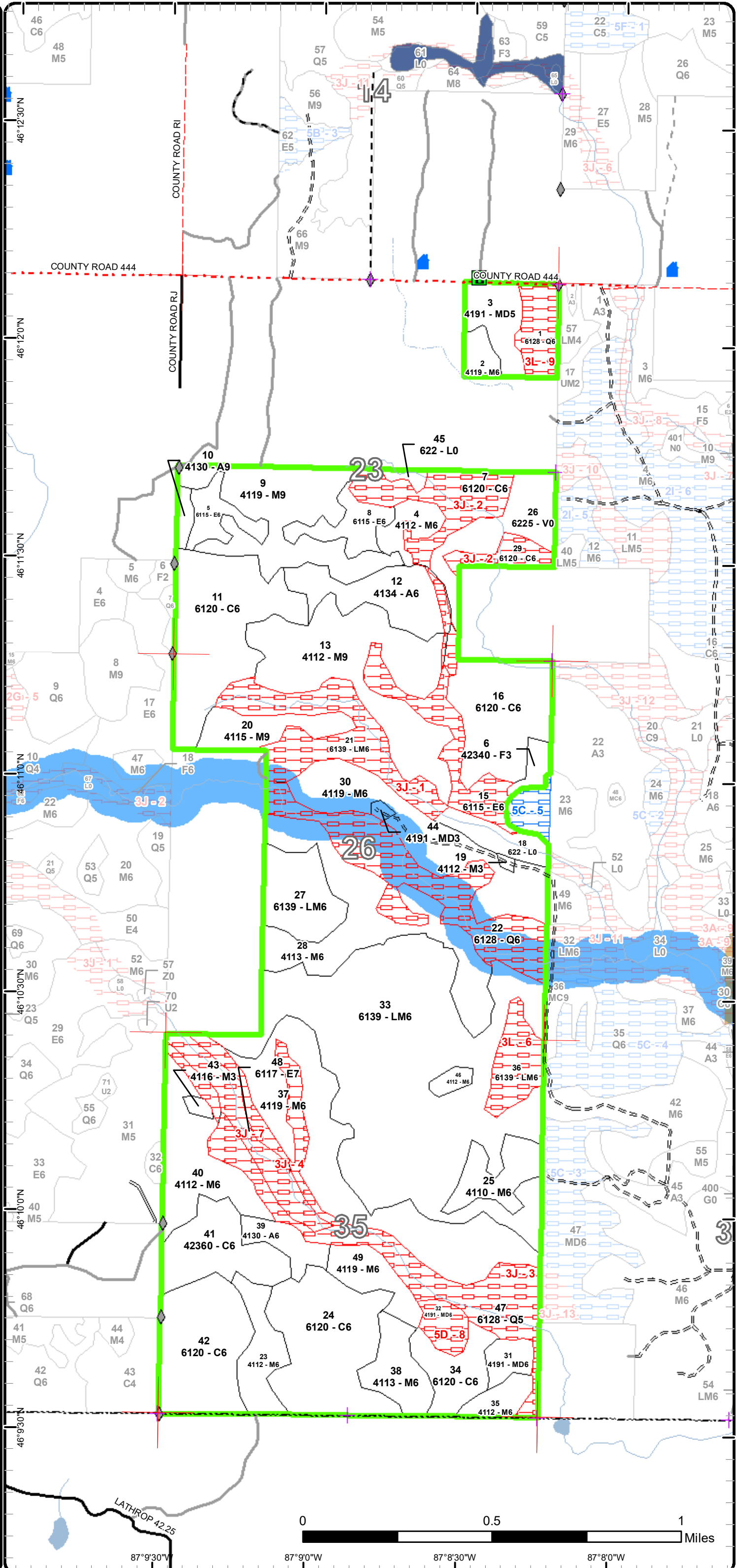
87° 9' 30" W 87° 9' 0" W 87° 8' 30" W 87° 8' 0" W

Special Conservation Areas & Site Conditions Map

Compartment: 10
 T44N, R23W, Sec. 23, 26, 35
 County: Marquette
 Unit: Gwinn
 Mgmt Area: Dead Horse Moraines
 YOE: 2021
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- Miris Corners
- + Remonumented Section Corners
- ◆ Field Grade Corners
- Counties
- DNR - Secondary Forest Road
- DNR - Forest Access Route
- Federal / State / County - Paved Road
- Federal / State - Dirt / Gravel Road
- County - Gravel Road
- County - Dirt Road (Seasonal)
- Private - Paved Road
- Private - Dirt / Gravel Road
- Intermittent Stream
- Lake/Pond
- Perennial River
- Lakes and Rivers All
- House
- Gate
- Structures
- Compartment Boundary
- Available w/ Constraints
- Unavailable
- 5C: Delay treatment for age/size class diversity or exceptional site quality
- 3J: Water quality / BMPs (stream, river, or lake)
- 3L: Other wildlife concerns
- 5D: Unproductive Forest Land
- Stand Boundaries
- Cold Water Streams
- High Priority Trout Stream Buffer
- Spring or Seep





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	12	4	31	0	0	0	0	0	0	0	0	0	0	0	0	47
Bog	27	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	27
Cedar	0	0	0	0	0	0	0	0	98	128	40	20	32	0	0	0	0	0	318
Lowland Conifers	0	0	0	0	0	0	0	0	59	79	0	0	0	0	0	0	0	0	138
Lowland Deciduous	0	0	0	0	0	0	0	0	26	26	0	0	23	0	0	0	0	0	75
Lowland Mixed Forest	0	0	0	0	0	0	0	0	47	0	0	0	259	0	0	0	0	0	305
Lowland Shrub	15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	15
Mixed Upland Deciduous	0	0	0	1	0	0	0	0	0	17	0	0	0	0	0	0	0	17	35
Northern Hardwood	0	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	501	504
Upland Spruce/Fir	0	0	0	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6
Total	42	0	0	22	4	31	0	0	230	250	40	20	314	0	0	0	0	518	1470



Report 2 – Treatment Summary

Gwinn Mgt. Unit

Year of Entry: 2021

Acres of Harvest

Compartment 10

Total Compartment Acres: 1,472

Commercial Harvest - 553
 Harvests with Site Condition - 129
 Next Step Harvest - 0
 Habitat Cut - 0

Cover Type by Harvest Method

	Clearcut	Selection	Patch Clearcut	Seed Tree	Shelterwood	Thinning	Overstory Removal	Salvage	Other	Total Acres
Lowland Deciduous	26	0	0	0	0	0	0	0	0	26
Lowland Mixed Forest	241	0	0	0	0	0	0	0	0	241
Mixed Upland Deciduous	8	0	0	0	0	0	0	0	0	8
Northern Hardwood	0	407	0	0	0	0	0	0	0	407
Total	275	407	0	0	0	0	0	0	0	682

Proposed and Next Step Treatments by Method

	Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current	682	0	0	0	0	0	0	0	0	682
Next Step	0	0	0	0	0	0	682	0	0	682
Total	682	0	0	0	0	0	682	0	0	1365



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
2	32010002-Cut	6.6	4119 - Mixed Northern Hardwoods	Poletimber Well	85	81-110	Harvest	Single Tree Selection	411 - Northern Hardwood	Uneven- Aged	Proposal

Habitat Cut: No**Site Condition:**

Prescription 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 Yellow Birch. Favor Basswood to keep. This is a winter cut only sale due to wet access.

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

Acceptable Any tree species currently in the overstory would be acceptable.
Regen:

Other
Comment:

Proposed Start Date: 10/1 /2020

4	32010004-Cut	10.4	4112 - Maple, Beech, Cherry Association	Poletimber Well	85	111- 140	Harvest	Single Tree Selection	411 - Northern Hardwood	Uneven- Aged	Proposal
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Habitat Cut: No**Site Condition:**

Prescription 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 Ash. This is a winter cut only sale due to wet access.

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

Acceptable Any tree species currently in the overstory would be acceptable.
Regen:

Other
Comment:

Proposed Start Date: 10/1 /2020

5	32010005-Cut	12.0	6115 - Lowland Ash	Poletimber Well	79	81-110	Harvest	Clearcut with Retention	611 - Lowland Deciduous Forest	Even-Aged	Proposal
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Habitat Cut: No**Site Condition:**

Prescription Cut all trees except Hemlock, Cherry, Yellow Birch and Cedar. Leave 3-10% retention in areas where there is pockets of cedar or wet patches.
Specs: Cut in the winter only.

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

Acceptable Any tree species currently in the overstory will be acceptable.
Regen:

Other Retention should include some Black Ash-seeds of black ash are used by game birds, songbirds and small animals.
Comment:

Proposed Start Date: 10/1 /2020

8	32010008-Cut	14.4	6115 - Lowland Ash	Poletimber Well	79	81-110	Harvest	Clearcut with Retention	611 - Lowland Deciduous Forest	Even-Aged	Proposal
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Habitat Cut: No**Site Condition:**

Prescription Cut all trees except Hemlock, Cherry, Yellow Birch and Cedar. Leave 3-10% retention in areas where there is pockets of cedar or wet patches.
Specs: Cut in the winter only.

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

Acceptable Any tree species currently in the overstory will be acceptable.
Regen:

Other Retention should include some Black Ash - seeds of black ash are used by game birds, songbirds and small animals.
Comment:

Proposed Start Date: 10/1 /2020



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
9	32010009-Cut	56.6	4119 - Mixed Northern Hardwoods	Sawtimber Well	85	141- 170	Harvest	Single Tree Selection	411 - Northern Hardwood	Uneven- Aged	Proposal

Habitat Cut: No**Site Condition:**

Prescription 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, White Ash or trees larger than 24" diameter on the stump. This is a winter cut only sale due to wet access.

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Any tree species currently in the overstory would be acceptable

Regen:

Other

Comment:

Proposed Start Date: 10/1 /2020

13	32010013-Cut	78.0	4112 - Maple, Beech, Cherry Association	Sawtimber Well	85	111- 140	Harvest	Single Tree Selection	411 - Northern Hardwood	Uneven- Aged	Proposal
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Habitat Cut: No**Site Condition:**

Prescription 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, White Ash to keep in the stand. Also Favor Basswood to keep. This is a winter cut only sale due to wet access.

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Any tree species currently in the overstory would be acceptable.

Regen:

Other

Favor basswood- good for cavity nesters, pollinators and seed production for small mammals.

Comment:

Proposed Start Date: 10/1 /2020

20	32010020-Cut	18.8	4115 - Y.Birch, Hemlock NH	Sawtimber Well	85	81-110	Harvest	Single Tree Selection	411 - Northern Hardwood	Uneven- Aged	Proposal
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Habitat Cut: No**Site Condition:**

Prescription 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, Basswood to keep in the stand. This is a winter cut only sale due to wet access.

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Any tree species currently in the overstory will be acceptable.

Regen:

Other

Retain Basswood its good for cavity nesters, pollinators, and seed production for small mammals.

Comment:

Proposed Start Date: 10/1 /2020

23	32010023-Cut	19.6	4112 - Maple, Beech, Cherry Association	Poletimber Well	85	111- 140	Harvest	Single Tree Selection	411 - Northern Hardwood	Uneven- Aged	Proposal
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Habitat Cut: No**Site Condition:**

Prescription 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 Yellow Birch. Also Favor Paper birch to keep. This can be cut in a dry summer or winter.

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Any tree species currently in the overstory would be acceptable

Regen:

Other

Paper Birch is good for cavity nesters and pileated woodpecker.

Comment:

Proposed Start Date: 10/1 /2020



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
25	32010025-Cut	18.8	4110 - Sugar Maple Association	Poletimber Well	85	81-110	Harvest	Single Tree Selection	411 - Northern Hardwood	Uneven- Aged	Proposal
Habitat Cut: No			Site Condition:								
<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, and Yellow Birch and White Ash. This is a winter cut only sale due to wet access.											
<u>Specs:</u>											
<u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)											
<u>Treatments:</u>											
<u>Acceptable</u> Any tree Species currently in the overstory is acceptable.											
<u>Regen:</u>											
<u>Other</u> White ash is a important snag tree if they do die because they persist in the environment and mast crop.											
<u>Comment:</u>											
<u>Proposed Start Date:</u> 10/1 /2020											
27	32010027-Cut	26.3	6139 - Mixed Lowland Forest	Poletimber Well	116	51-80	Harvest	Clearcut with Retention	6139 - Mixed Lowland Forest	Even-Aged	Proposal
Habitat Cut: No			Site Condition:								
<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. Cut in the winter only.											
<u>Specs:</u>											
<u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)											
<u>Treatments:</u>											
<u>Acceptable</u> Any Tree species currently in the overstory will be acceptable.											
<u>Regen:</u>											
<u>Other</u> White Pine is good for wildlife cover and black bear refuge trees.											
<u>Comment:</u>											
<u>Proposed Start Date:</u> 10/1 /2020											
28	32010028-Cut	62.6	4113 - R.Maple, Conifer	Poletimber Well	90	111- 140	Harvest	Single Tree Selection	411 - Northern Hardwood	Uneven- Aged	Proposal
Habitat Cut: No			Site Condition:								
<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, and Yellow Birch. Also favor black Ash to keep. This is a winter cut only sale due to wet access.											
<u>Specs:</u>											
<u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)											
<u>Treatments:</u>											
<u>Acceptable</u> Any tree species currently in the overstory will be acceptable											
<u>Regen:</u>											
<u>Other</u> Black Ash seeds are used by game birds, songbirds and small mammals.											
<u>Comment:</u>											
<u>Proposed Start Date:</u> 10/1 /2020											
31	32010031-Cut	8.0	4191 - Mixed Upland Deciduous with Conifer	Poletimber Well	80	111- 140	Harvest	Clearcut	411 - Northern Hardwood	Even-Aged	Proposal
Habitat Cut: No			Site Condition:								
<u>Prescription</u> Cut all trees but Cedar, Hemlock, Yellow Birch and White Pine. Include some Black Ash in your Red Lined trees for retention. This stand will have to be cut in the winter due to wet Access.											
<u>Specs:</u>											
<u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)											
<u>Treatments:</u>											
<u>Acceptable</u> Any tree species currently in the overstory would be acceptable.											
<u>Regen:</u>											
<u>Other</u>											
<u>Comment:</u>											
<u>Proposed Start Date:</u> 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 32010033-Cut	214.6	6139 - Mixed Lowland Forest	Poletimber Well	110	81-110	Harvest	Clearcut with Retention	613 - Lowland Mixed Forest	Even-Aged	Proposal

Habitat Cut: No**Site Condition:**

Prescription 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. Cut in the winter only.

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

Acceptable Any tree species currently in the overstory will be acceptable.
Regen:

Other White pine is good for wildlife cover and black bear refuge trees.
Comment:

Proposed Start Date: 10/1 /2020

35 32010035-Cut	8.9	4112 - Maple, Beech, Cherry Association	Poletimber Well	85	141-170	Harvest	Single Tree Selection	411 - Northern Hardwood	Uneven-Aged	Proposal
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Habitat Cut: No**Site Condition:**

Prescription 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 to keep in the stand. This Winter cut only because of deer wintering range.

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

Acceptable Any Tree species currently in the overstory would be acceptable.
Regen:

Other
Comment:

Proposed Start Date: 10/1 /2020

37 32010037-Cut	88.0	4119 - Mixed Northern Hardwoods	Poletimber Well	85	111-140	Harvest	Single Tree Selection	411 - Northern Hardwood	Uneven-Aged	Proposal
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Habitat Cut: No**Site Condition: BMPs**

Prescription 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. This is a winter cut only sale due to wet access.

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

Acceptable Any tree species currently in the overstory would be acceptable.
Regen:

Other There is old orange paint currently in the stand. Try to refresh the old paint when marking.
Comment:

Proposed Start Date: 10/1 /2020

40 32010040-Cut	41.4	4112 - Maple, Beech, Cherry Association	Poletimber Well	85	111-140	Harvest	Single Tree Selection	411 - Northern Hardwood	Uneven-Aged	Proposal
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Habitat Cut: No**Site Condition: BMPs**

Prescription 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 and Basswood. Favor Black Cherry to keep in the stand. This Winter cut only because of deer wintering range.

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

Acceptable Any tree species in the overstory would be acceptable.
Regen:

Other Basswood is good for cavity nesters, pollinators and seed production for small mammals.
Comment:

Proposed Start Date: 10/1 /2020



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
49	32010049-Cut	16.1	4119 - Mixed Northern Hardwoods	Poletimber Well	85	111- 140	Harvest	Single Tree Selection	411 - Northern Hardwood	Uneven- Aged	Proposal

Habitat Cut: No**Site Condition:**

Prescription 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 Yellow Birch to keep in the stand. This is a winter cut only sale due to wet access.

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Any tree species currently in the overstory is acceptable

Regen:

Other Yellow birch is good for nest trees and is an important food source for many winter birds as well as ruffed grouse.

Comment:

Proposed Start Date: 10/1 /2020

**Total Treatment
Acreage Proposed: 701.1**

Report 4 – Site Conditions

Gwinn Mgt. Unit
Peter Holodnick : Examiner

Compartment: 10
Year of Entry: 2021

Availability for Management

Total Acres	Acres Available	Acres Avail With Condition	Acres Not Available		Dominant Site Conditions			
					5C	3J	3L	5D
47	44	0	2	Aspen		2		
27	27	0	0	Bog		0		
318	276	0	43	Cedar		43		
138	0	0	138	Lowland Conifers	0	122	16	
75	26	0	49	Lowland Deciduous		49		
306	241	0	65	Lowland Mixed Forest	0	46	18	
15	15	0	0	Lowland Shrub				
36	27	0	9	Mixed Upland Deciduous				9
504	492	0	13	Northern Hardwood		13		
6	6	0	0	Upland Spruce/Fir				
1,472	1,153	0	319	Total Forested Acres	0	275	34	9
	78%	0%	22%	Relative Percent				

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

Site No.	Dominant Site Cond Availability	Dominant Site Condition	Acres	Other Site Condition	Other Site Condition	Other Site Condition	Other Site Condition
1	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	131	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
2	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	46	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
3	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	76	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

Gwinn Mgt. Unit

Peter Holodnick : Examiner

Compartment: 10

Year of Entry: 2021

4	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	0	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
5	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	9	Unspecified	Unspecified	Unspecified	Unspecified
Comments: manage this stand with stand 23 in adjacent comp.							
6	Unavailable	3L: Other wildlife concerns	18	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Lots of large cedar and Hemlock							
7	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	23	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
8	Unavailable	5D: Unproductive Forest Land	9	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
9	Unavailable	3L: Other wildlife concerns	16	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Lots of Cedar and it will be hard to operate without cutting.							

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	6128 - Lowland Coniferous, Mixed Deciduous	Poletimber Well	16.0	84	51-80	N/A	Mix of E and Q mostly Q. Some F. Small trees. Patches of cedar and also pure black ash areas. All low and wet, some sparse areas but mostly fully stocked.																									
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Black Ash	25	Pole/Log	8																													
2	4119 - Mixed Northern Hardwoods	Poletimber Well	6.6	85	81-110	N/A	Good quality stand about 3-4 acres with some medium quality included. Thinned 1990 .																									
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3	4191 - Mixed Upland Deciduous with Conifer	Poletimber Medium	17.1	85	51-80	N/A	Diameter and species removal cut under permit # 5-91-1. Stand objective is to favor and regenerate fir. Right now a mix of M and E in the overstory. Good regeneration of ash, maple and sp/fir up to 2" dbh. Patches of hemlock left. Hardwood on the upland hummocks, though stand is mostly low. Hardwood not great timber quality.																									
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4	4112 - Maple, Beech, Cherry Association	Poletimber Well	10.4	85	111-140	N/A	Cut 1986. Cut 2006 by Eckart(Vetort). Permit #32-002-01-01 3/2006 Request to Harvest/Treat stands outside YOE for underplanting FTP # W32-654 - Signed by all Divisions and on file in CMPT 10. Regen 3' browsed but looks like it may make it. Good quality hardwood stand. Mostly sugar maple.																									
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5	6115 - Lowland Ash	Poletimber Well	12.0	79	81-110	N/A	Patches of cedar. Mostly ash, black and green. Some spruce. Diverse mix of Q,C and E. Low, wet but larger than average trees. Some gaps and sparse areas. Fingers of high ground with M.																									
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6	42340 - Upland Spruce/Fir	Sapling Well	5.7	28	Immature	N/A	stand cut with compartment to the east about 1991. Mostly F3 in this part of the stand. 10' tall average, well-stocked. Some aspen more toward center in main part of stand. Red maple sprouts and tamarack,spruce, white pine present as well.																									
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																														
7	6120 - Lowland Cedar	Poletimber Well	30.2	92	51-80	N/A	SCA. Heavy to Cedar with ash understory, Stream, Some spruce and fir everywhere. Blowdown areas. Fades to Q5 or Q4 E2 away into lower interior. Some L along stream north. Areas flooded with tree dieback. Put in biodiversity maintenance to protect riparian values.																														
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8	6115 - Lowland Ash	Poletimber Well	14.4	79	81-110	N/A	Patches of cedar. Mostly ash, black and green. Some spruce. Diverse mix of Q,C and E. Low, wet but larger than average trees. Some gaps and sparse areas. Fingers of high ground with M.																														
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9	4119 - Mixed Northern Hardwoods	Sawtimber Well	56.6	85	141-170	N/A	Thinned 1985, thinned 2001-2006 by Eckart (Vetort) permit #32-002-01-01 3/2006 Request to Harvest/Treat stands outside YOE for underplanting FTP # W32-654 - Signed by all Divisions and on file in CMPT 10. Good regeneration in gaps 3-6' tall. Some browsing, not bad. M8M6 stand good quality. 1986 regen. cohort 2" dbh. Green ash in swales.																														
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10	4130 - Aspen	Sawtimber Well	3.9	34	111-140	N/A																															
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11	6120 - Lowland Cedar	Poletimber Well	65.9	88	111-140	N/A	Mix of E and Q. More E in swales between hardwood areas and Q interior. Patches of cedar. Smaller trees interior. Larger and more mixed on hardwood edge. Mostly and E stand. Mix of green and black ash.																														
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12	4134 - Aspen, Spruce/Fir	Poletimber Well	31.2	40	111-140	N/A	hardwood understory and some sugar maple 1 stick. Some residual sugar maple.																														
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15	6115 - Lowland Ash	Poletimber Well	25.6	83	51-80	N/A	E6E5 mostly green ash in some areas. Patches of cedar. Mostly small trees. Some sugar maple on hummocks. Dieback, dead tops in ash. Scattered larger spruce and yellow birch. Open blowdown areas. Put in biodiversity maintenance to protect riparian values and allow natural processes to occur.																																						
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16	6120 - Lowland Cedar	Poletimber Well	48.3	78	81-110	N/A	Mostly small trees, mainly cedar north with more white birch, ash and fir to south. Mostly a young, small tree stand. Looks partially cutover maybe 30-40 years ago. Small thick fir in understory south. Some high ground south and could be classed a fir or w. birch stand. Overall though mostly Q.																																						
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18	622 - Lowland Shrub	Nonstocked	12.3		Unspecified	No	SCA. Drained beaver ponds. Dead standing timber stubs. Mostly low vegetation. Put in biodiversity maintenance to protect riparian values of stream and adjacent areas.																																						
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19	4112 - Maple, Beech, Cherry Association	Sapling Well	0.9	25	Immature	N/A	Cut for wildlife opening 1994. Mostly red maple sprout origin. Also sp/fir, w. pine, sugar maple, tamarack, balsam poplar. Well-stocked with trees 1-2" dbh.																																						
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20	4115 - Y.Birch, Hemlock NH	Sawtimber Well	18.8	85	81-110	N/A	Good quality small sawlog stand.Good regeneration 6' tall in gaps. Mostly red maple with some basswood, sugar maple and other species. Was not harvested in 2006 with other sale due to stream crossing and lower BA here. Was harvested in 1980's.																																						
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21	6139 - Mixed Lowland Forest	Poletimber Well	46.5	79	51-80	N/A	A bridge will have to get put in in order to get wood out of the north part of this comp. Stream buffer and put in biodiversity maintenance to protect riparian values. Mostly ash over spruce and cedar. Sparse small trees. Some ash dieback due to flooding. Past beaver activity. Scattered patches of cedar. Some upland included with sugar maple. Gaps with lowland brush.																																			
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22	6128 - Lowland Coniferous, Mixed Deciduous	Poletimber Well	58.7	79	51-80	N/A	Stream buffer and put in biodiversity maintenance to protect riparian values. Mostly ash over spruce and cedar. Sparse small trees. Some ash dieback due to flooding. Past beaver activity. Scattered patches of cedar. Some upland included with sugar maple. Gaps with lowland brush.																																			
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23	4112 - Maple, Beech, Cherry Association	Poletimber Well	19.6	85	111-140	N/A	Mostly red maple thinned 1992 Ok quality, not the best. Regen is mostly red maple sprouts and fir.																																			
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24	6120 - Lowland Cedar	Poletimber Well	62.2	83	51-80	N/A	lowland conifers with some ash and other hardwoods mixed. Mostly cedar in patches and scattered throughout. A mixed stand with areas of E type.																																			
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25	4110 - Sugar Maple Association	Poletimber Well	18.8	85	81-110	N/A	Mostly good quality. Good timber potential most areas. Heavy to red maple, sugar on higher ground. Areas of ash swale or vernal areas. Obliterate any new roads created - use seasonal restrictions. ***Under contract #014-10-1 "Deadhorse Creek Hardwoods".																																			
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26	6225 - Bog	Nonstocked	27.2		Unspecified	No	SCA. Marsh grass and drained beaver pond. Some lowland brush. Put in biodiversity maintenance to protect riparian values of the stream and associated area.																																			
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27	6139 - Mixed Lowland Forest	Poletimber Well	26.3	116	51-80	N/A	Mix of E,Q,M & H. Lower elevation wet soil. Smaller ash mixed with larger spruce, cedar, hemlock, yellow birch and maple. Low timber value.																																													
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28	4113 - R.Maple, Conifer	Poletimber Well	62.6	90	111-140	N/A	Need bridge from north or swamp freezing from east. Obliterate any new roads created - use seasonal restrictions. Decent quality in spots. Good timber potential. Mix of red and sugar maple., big yellow birch. Most large trees defective but good wildlife value. Patches of hemlock.																																													
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29	6120 - Lowland Cedar	Poletimber Well	10.1	92	51-80	N/A	SCA. Heavy to Cedar with ash understory, Stream, Blowdown areas. Fades to Q5 or Q4 E2 away into lower interior. Some L along stream north. Areas flooded with tree dieback. Put in biodiversity maintenance to protect riparian values.																																													
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30	4119 - Mixed Northern Hardwoods	Poletimber Well	52.6	90	81-110	N/A	Cut 1992 by RLR. Gaps with M3 10' tall well-stocked regeneration. Still not ready for another thinning. Still crown room and gaps. SE some areas could be thinned but most of stand not ready. Mostly good quality stand. One interesting thing here: A flat-topped boulder 5' tall and 8'x10' covered with Yew. This is the only Yew within miles, a plant which once covered the forest floor throughout the area. This boulder then is an important refuge for this plant.																																													
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31	4191 - Mixed Upland Deciduous with Conifer	Poletimber Well	8.0	80	111-140	N/A	Mix of aspen and other species. Cedar throughout. Lower P or E type.																																													
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32	4191 - Mixed Upland Deciduous with Conifer	Poletimber Well	9.3	80	81-110	N/A	Mix of aspen and other species, Would make a better sale when adjacent hardwood is cut again. Not much aspen here to make a good clearcut. Probably have to manage as more of an even aged stand. Cedar throughout. Lower P or E type. Big trees scattered but most trees 8". Wait until the BA gets bigger and cut it.																																													
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33	6139 - Mixed Lowland Forest	Poletimber Well	214.6	110	81-110	N/A	Mix of E,C,Q,M. Cedar patches. Ash is small, in old gaps. Lower soil type. Hemlock, large spruce and y. birch. McFarland mixed zone.																																													
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34	6120 - Lowland Cedar	Poletimber Well	19.9	100	81-110	N/A	Mostly Q or C type but some E type. Thick cedar fades down to small ash and cedar with lower BA. Low BA away from high ground. Too much Cedar to manage.																																													
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35	4112 - Maple, Beech, Cherry Association	Poletimber Well	8.9	85	141-170	N/A	Some very large yellow birch. Mostly red maple good quality timber potential. Small stand upland, tough access. Thin with stand 31.																																													
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36	6139 - Mixed Lowland Forest	Poletimber Well	18.2	115	51-80	N/A	Mix of E and Q. Some dieback on ash due to water table fluctuation. Most areas adequately stocked but sparse 3-8" dbh. Low wet stand.																																													
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37	4119 - Mixed Northern Hardwoods	Poletimber Well	88.0	85	111-140	N/A	Good quality potential, lots of poor timber here now. Good wildlife trees. Heavy to red maple some areas with sugar on the higher elevations. Need survey. Need bridge or swamp crossing from east - obliterate any new roads created - use seasonal restrictions. Areas of ash swale and vernal areas. Also small stream. Long snowplow for winter job. ***Under contract #014-10-1 "Deadhorse Creek Hardwoods". Some old orange paint.																									
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38	4113 - R.Maple, Conifer	Poletimber Well	19.2	85	51-80	N/A	Cut 1993 good north, poor and sparse red maple south M5M4. Good regeneration 10-15' tall. Parts of stand are low.																									
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39	4130 - Aspen	Poletimber Well	11.6	25	Immature	N/A	Cut 1994 # 009-91-01.A3 well-stocked mostly with a few F2 or M2 areas. Diverse stand. Also w. birch and conifer.																									
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40	4112 - Maple, Beech, Cherry Association	Poletimber Well	41.4	85	111-140	N/A	stand cut 1994. Good quality most areas. SW is the best stocked area.																									
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41	42360 - Upland Cedar	Poletimber Well	32.3	114	111-140	N/A	Mix of lowland species, mostly low ground but not real low. Patches of cedar scattered. Gaps with ash small and L.																									
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42	6120 - Lowland Cedar	Poletimber Well	49.4	70	51-80	N/A	small trees, well stocked 1-2 stick ash with some cedar mixed.																									
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43	4116 - Mixed N. Hardwood - Aspen	Sapling Well	2.0	24	Immature	N/A	cut for a grass opening semi-open in spots but most well-stocked mostly sugar 10' 1"-2"dbh. Some cherry, fir and other spp.																									
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44	4191 - Mixed Upland Deciduous with Conifer	Sapling Well	1.4	24	Immature	N/A	Old open area, possible old landing. Filled in with mix of Balsam poplar, plus maple,w.pine,fir. Patch of Large white pine just east of stand. Well-stocked 1-2"dbh.																																								
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45	622 - Lowland Shrub	Nonstocked	2.6		Unspecified	No	OPIC - FMD: SCA. alder. Old beaver activity. Put in biodiversity maintenance to protect riparian values of stream and surrounding area.																																								
46	4112 - Maple, Beech, Cherry Association	Poletimber Well	3.8	100	111-140	N/A	Good quality potential, lots of poor timber here now. Good wildlife trees. Heavy to red maple some areas with sugar on the higher elevations. Need survey. Need bridge or swamp crossing from east. Areas of ash swale and vernal areas. Also small stream. Long snowplow for winter job. Small island probably not worth getting to for harvest.																																								
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47	6128 - Lowland Coniferous, Mixed Deciduous	Poletimber Medium	63.4	87	51-80	N/A	SCA. mostly Q heavy to cedar but some M,H,E. Areas of sparse or no trees due to beaver activity. Deadhorse creek Stream buffer put in biodiversity maintenance to protect riparian values of stream area..																																								
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48	6117 - Lowland Deciduous, Mixed Coniferous	Sawtimber Poor	23.3	114	Unspecified	N/A	SCA. alder. Old beaver activity. Put in biodiversity maintenance to protect riparian values of stream deadhorse creek buffer and surrounding area. Dead ash and sparse trees, mostly drained beaver area. Stream Buffer.																																								
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																				
49	4119 - Mixed Northern Hardwoods	Poletimber Well	16.1	85	111-140	N/A	Cut 1993 good north, poor and sparse red maple south M5M4. Good regeneration 10-15' tall. Parts of stand are low.																				
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