



Compartment Review Presentation

Cadillac Forest Management Unit

Compartment 63108

Entry Year 2018

Acreage: 1,395

County Missaukee

Management Area: Upper Muskegon

Revision Date: 2016-06-07

Stand Examiner: Jim Malloy

Legal Description:

T21N, R6W, Sections 10, 13, 14, 15, 22, 23, 24, 27

Identified Planning Goals:

Vegetation management in the Upper Muskegon management area (MA) will provide forest products; maintain or enhance wildlife habitat; protect areas of unique threatened, endangered and special concern species; and provide for forest-based recreational uses. Timber management for this 10-year period will focus on harvesting older jack pine and balancing age class distributions of oak, aspen and red pine. Wildlife habitat management objectives include perpetuating early-successional communities for species adapted to young forests for hunting and other wildlife-related recreation. Expected trends within this 10-year planning period are the need to manage exotic species (especially Phragmites and glossy buckthorn), the need to continue to manage cover types for a balanced age-class distribution and an expected increase in recreation pressure.

Soil and topography:

Rolling hills, mostly Rubicon, Graycalm, and Montcalm sands

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

There is private land in every section of this compartment. Mostly working farms surround the state land. The University of Michigan owns large blocks of wooded land in sections 14 and 15. Lands recommended for acquisition are the two 40 acre parcels in Sec. 22 SENE, NESE. Suggest disposing of the 40-acre parcel in NWSW sec. 24.

Unique Natural Features:

Archeological, Historical, and Cultural Features:

Woodland Indian mounds, earthworks, burial sites and prehistoric sites within RMU. Letter received from State Archaeologist says timber harvest activity will not affect sites.

Special Management Designations or Considerations:

Woodland Indian mounds, earthworks, burial sites and prehistoric sites within compartment.

Watershed and Fisheries Considerations:

No streams or lakes in compartment.

Wildlife Habitat Considerations:

Maintain species diversity and manage for quality oak and aspen. Featured wildlife species are deer, ruffed grouse, and woodcock. Timber sale specifications to benefit these featured species (where applicable) will include protection of mast-bearing wildlife shrubs and ironwood, protection of standing dead snags, and creation of drumming logs (1-2 per acre) and woody debris (tops or whole trees) in aspen cuts. (Victory, 5/24/16)

Mineral Resource and Development Concerns and/or Restrictions

Surface sediments consist of ice-contact outwash sand and gravel and fine and coarse-textured tills. The glacial drift thickness varies between 400 and 800 feet. Beneath the glacial drift are the Pennsylvanian Grand River and Saginaw Formations. The Saginaw is quarried for clay/shale in other parts of the State. Gravel pits are located one mile to the east and potential is good. The compartment is located north of Prosper Field. The field has produced nearly 2 million BO from the Dundee Limestone. There are no State leases currently in the Compartment. A petroleum pipeline runs north/south along section lines 14,15,22 & 23.

Vehicle Access:

A forest road access plan is detailed on the compartment map. Identified are state and county roads as well as forest roads and trails under the jurisdiction of the DNR. Also indicated are forest roads and trails under the jurisdiction of the

DNR that are proposed for abandonment. These roads were determined to be in excess of the access needs in the area, are a threat to the resources, or are a concern environmentally.

Survey Needs:

The state land in section 10 needs to be surveyed to verify state owned boundaries and establish lines for future timber sales.

Recreational Facilities and Opportunities:

There are no designated recreational trails within this compartment. (T.N. 1/29/16)

Fire Protection:

The compartment consists of multiple hardwood stands and some scattered mixed hardwoods and pine stands along with a few stands of planted black spruce. The area has good road access for suppression equipment.

Additional Compartment Information:

The following reports from the Inventory are attached:

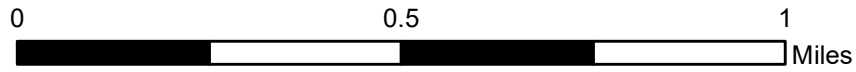
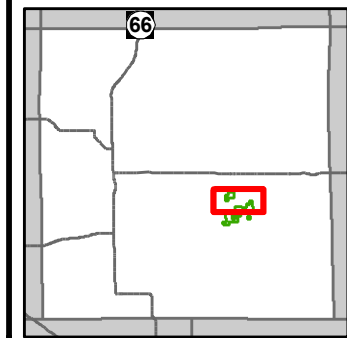
- Total Acres by Cover Type and Age Class**
- Cover Type by Harvest Method**
- Proposed Treatments – No Limiting Factors**
- Proposed Treatments – With Limiting Factors**
- Stand Details (Forested and Nonforested)**
- Dedicated and Proposed Special Conservation Areas**
- Site Condition Details**

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

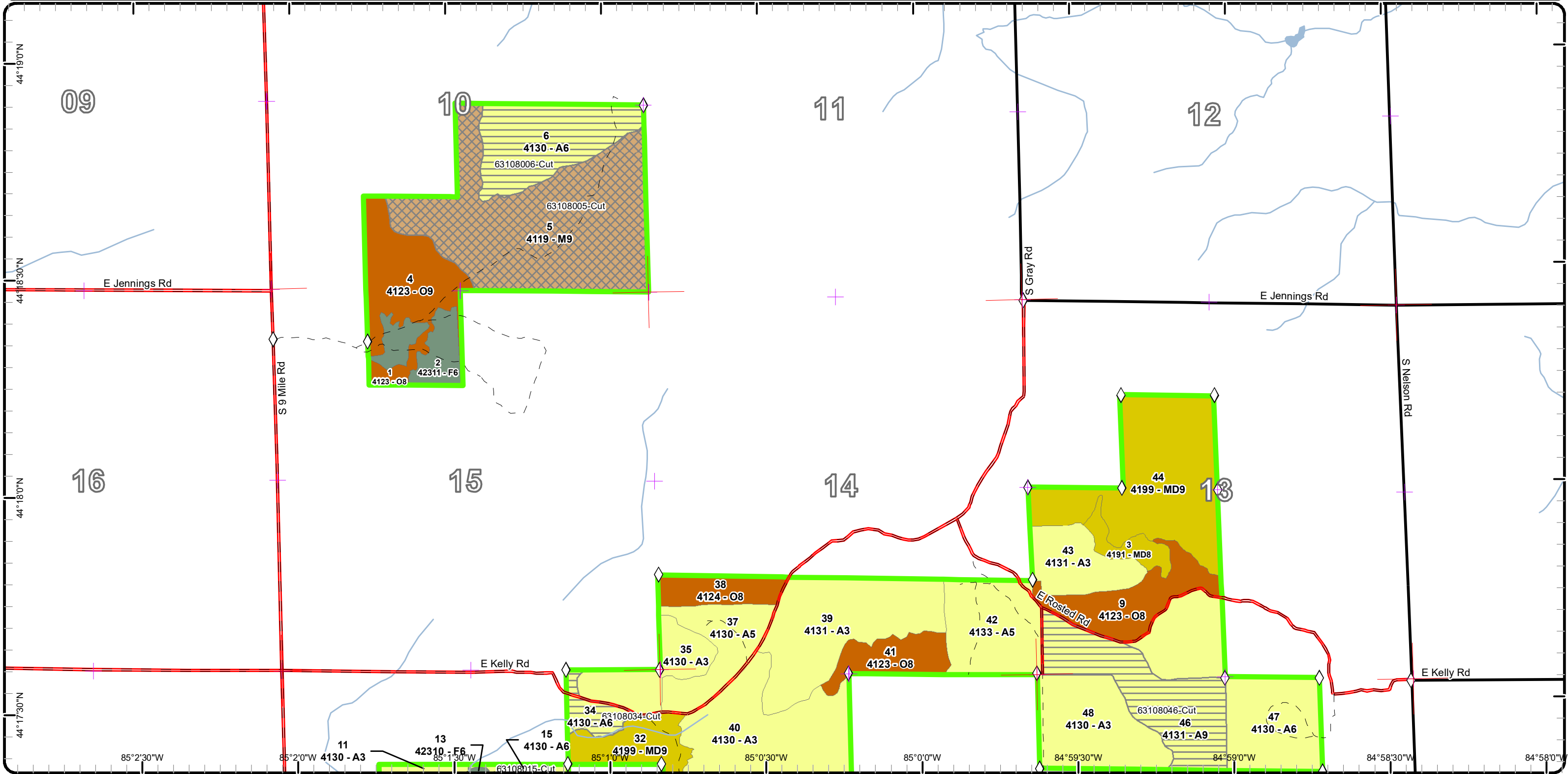
- Base feature information, stand boundaries, cover types, and numbers**
- Proposed treatments**
- Site condition boundaries**
- Details on the road access system**

Cover Type & Treatments Map

Compartment: 108
 T22N R06W
 Sec. 10, 13-15, 22-24, 27
 County: Missaukee
 Unit: Cadillac
 Mgmt Area: Upper Muskegon
 YOE: 2018
 Acres: 1395 GIS Calculated
 Examiner: Jim Malloy
 Map Revised: 6/29/2016
 Map Phase: Web-Post

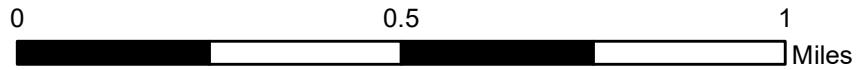


- Miris Corners
- + Remonumented Section Corners
- ◇ Field Grade GPS Corners
- Paved Roads
- County Gravel Roads
- Poor Dirt Roads
- Rivers
- Compartment Boundary
- Selection (Group, Single Tree)
- Clearcut (w/Reserves)
- 411 - Northern Hardwood
- 412 - Oak Types
- 413 - Aspen Types
- 419 - Mixed Upland Deciduous
- 423 - Other Upland Conifers
- Lakes

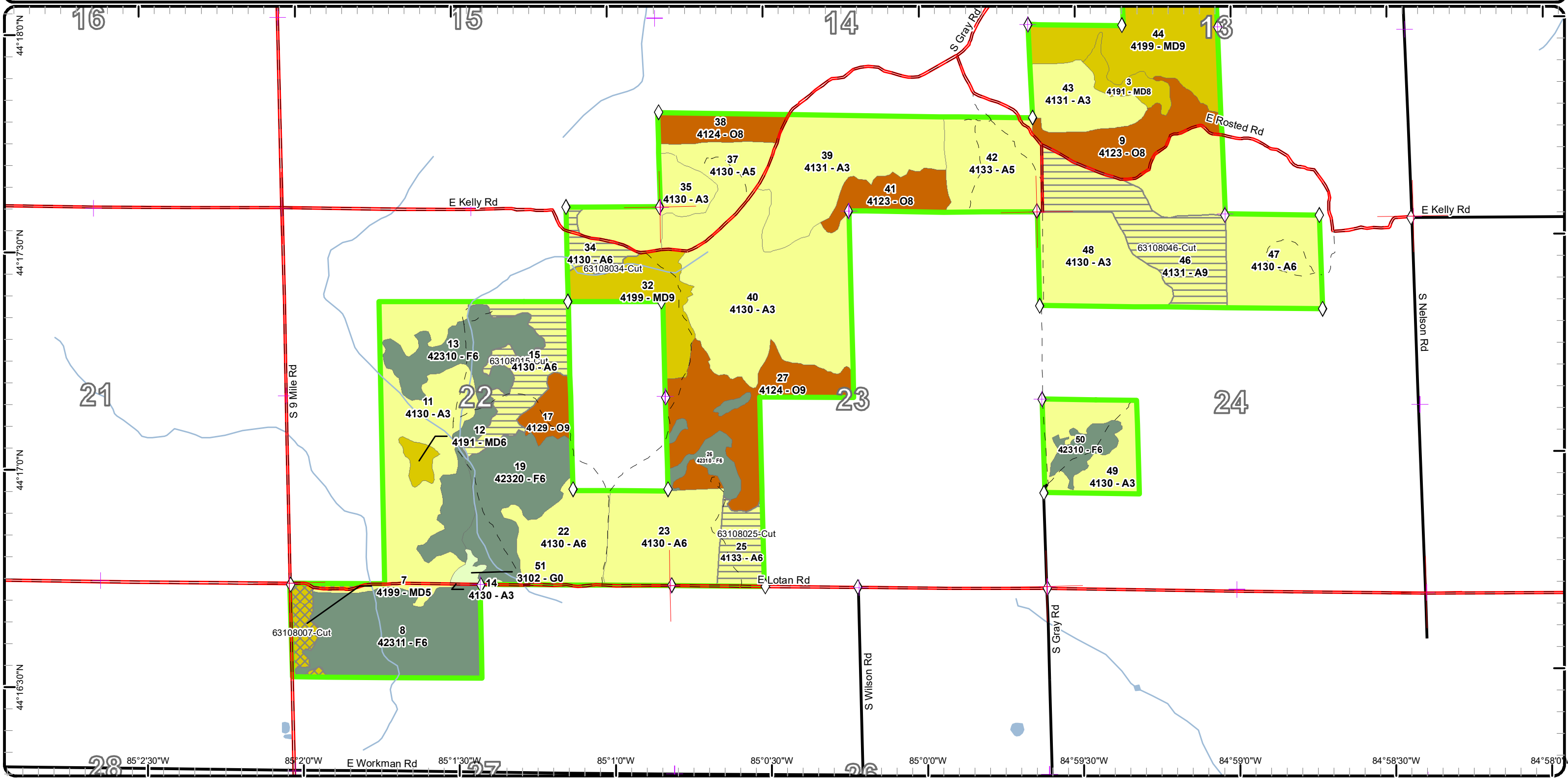


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- County Gravel Roads
- - Poor Dirt Roads
- Rivers
- Compartment Boundary
- Selection (Group, Single Tree)
- Clearcut (w/Reserves)
- 412 - Oak Types
- 413 - Aspen Types
- 419 - Mixed Upland Deciduous
- 423 - Other Upland Conifers
- 310 - Herbaceous Openland
- Lakes



Report 1 – Total Acres by Cover Type and Age Class

Cadillac Mgt. Unit
 Jim Malloy : Examiner

Compartment 108 Year of Entry 2018



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	266	130	128	29	138	54	0	0	0	0	0	0	0	0	0	0	745
Herbaceous Openland	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3
Mixed Upland Deciduous	0	0	0	0	0	0	0	15	0	10	81	0	0	0	0	0	0	30	136
Northern Hardwood	0	0	0	0	0	0	0	0	0	125	0	0	0	0	0	0	0	0	125
Oak	0	0	0	0	0	0	0	0	6	74	0	91	0	0	0	0	0	11	181
Upland Spruce/Fir	0	0	0	0	0	0	203	0	0	0	0	0	0	0	0	0	0	0	203
Total	3	0	266	130	128	29	341	69	6	209	81	91	0	0	0	0	0	41	1393



Report 2 – Treatment Summary

Cadillac Mgt. Unit

Year of Entry: 2018

Acres of Harvest

Compartment 108

Total Compartment Acres: 1,395

Commercial Harvest - 293
 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	Oversory Removal	Salvage	Other	Total Acres
Aspen	158	0	0	0	0	0	0	0	0	158
Mixed Upland Deciduous	0	10	0	0	0	0	0	0	0	10
Northern Hardwood	0	125	0	0	0	0	0	0	0	125
Total	158	135	0	0	0	0	0	0	0	293

Proposed and Next Step Treatments by Method

	Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current	293	0	0	0	0	0	0	0	0	293
Next Step	0	0	0	0	0	0	293	0	0	293
Total	293	0	0	0	0	0	293	0	0	585



Stand	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Approval Status
5	63108005-Cut	124.7	4119 - Mixed Northern Hardwoods	Sawtimber Well	85	81-110	Harvest	Single Tree Selection	411 - Northern Hardwood	Uneven-Aged	Proposal - Approval Pending Edits

Habitat Cut: No**Site Condition:**

Prescription Follow guidelines in complete marker and mark stand to a residual ba of 70. Create large openings every 4-5 acres for regen gaps.

Specs:

Next Step Monitoring, Natural Regen (Intermediate)

Treatments:

Acceptable northern hardwood, oak, and aspen.

Regen:OtherComment:

Proposed Start Date: 10/01/2017

6	63108006-Cut	47.1	4130 - Aspen	Poletimber Well	57	81-110	Harvest	Clearcut with Retention	4139 - Aspen, Mixed Deciduous	Two-Aged	Proposal - Approval Pending Edits
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Habitat Cut: No**Site Condition:**

Prescription Final harvest aspen and red maple. Encourage recruitment of northern hardwoods into stand where possible by leaving quality seed trees of various hardwood species.

Specs:

Next Step Monitoring, Natural Regen (Re-Inventry)

Treatments:

Acceptable aspen, maple, and various hardwood species.

Regen:OtherComment:

Proposed Start Date: 10/01/2017

7	63108007-Cut	10.3	4199 - Other Mixed Upland Deciduous	Poletimber Medium	65	51-80	Harvest	Group Selection	4199 - Other Mixed Upland Deciduous	Two-Aged	Proposal - Approval Pending Edits
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Habitat Cut: No**Site Condition:**

Prescription Remove all aspen, maple, and beech. Mark a few high risk oaks for removal too.

Specs:

Next Step Monitoring, Natural Regen (Re-Inventry)

Treatments:

Acceptable Oak, maple, aspen

Regen:

Other Low quality stand that could almost be a firewood type sale due to low quality and volume.

Comment:

Proposed Start Date: 10/01/2017

15	63108015-Cut	30.6	4130 - Aspen	Poletimber Well	51	51-80	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	Proposal - Approval Pending Edits
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Habitat Cut: No**Site Condition:**

Prescription Final harvest aspen and red maple. Mark a few oak to be left (~1 per acre) for mast and diversity. Cut all hardwood within stand. Retention will be in the form of a linear island within the stand.

Specs:

Next Step Monitoring, Natural Regen (Re-Inventry)

Treatments:

Acceptable Aspen, maple, and oak, scattered hardwood.

Regen:OtherComment:

Proposed Start Date: 10/01/2017



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	63108025-Cut	15.7	4133 - Aspen, Mixed Pine	Poletimber Well	56	81-110	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	Proposal - Approval Pending Edits

Habitat Cut: No**Site Condition:**

Prescription Final harvest maple and aspen. Mark pine and oak to cut to a residual BA of 20, focus on good seed quality oak and wind firm pines.

Specs:

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable aspen, maple, pine, oak

Regen:OtherComment:

Proposed Start Date: 10/01/2017

34	63108034-Cut	10.0	4130 - Aspen	Poletimber Well	56	81-110	Harvest	Clearcut	413 - Aspen	Even-Aged	Proposal - Approval Pending Edits
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Habitat Cut: No**Site Condition:**

Prescription Final harvest no retention due to small acreage.

Specs:

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Aspen, Maple

Regen:Other

Survey needed to determine private boundary.

Comment:

Proposed Start Date: 10/01/2017

46	63108046-Cut	54.2	4131 - Aspen, Oak	Sawtimber Well	63	81-110	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	Proposal - Approval Pending Edits
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Habitat Cut: No**Site Condition:**

Prescription Good oak regen throughout. Paper birch along road dividing stand, remove aspen, mark oak to cut. Do not cut or damage sugar maple and oak

Specs: regen. Retention should be linear along boundary with adjacent aspen stand that were cut during previous entries

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable aspen, oak, maple, paper birch.

Regen:OtherComment:

Proposed Start Date: 10/01/2017

**Total Treatment
Acreage Proposed: 292.6**

Report 4 – Site Conditions

Cadillac Mgt. Unit
Jim Malloy : Examiner

Compartment: 108
Year of Entry: 2018

Availability for Management

Total Acres	Acres Available	Acres Avail		Dominant Site Conditions	5B	5C	5F
		With Condition	Not Available				
746	746	1	0	Aspen		1	
3	3	0	0	Herbaceous Openland			
136	45	91	0	Mixed Upland Deciduous		91	
125	125	0	0	Northern Hardwood			
181	17	165	0	Oak	132	32	
203	0	203	0	Upland Spruce/Fir			203
1,395	936	459		Total Forested Acres	132	124	203
	67%	33%	0%	Relative Percent			

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

Site No.	Dominant Site Cond Availability	Dominant Site Condition	Acres	Other Site Condition	Other Site Condition	Other Site Condition	Other Site Condition
1	Available	5F: Evaluated for Forest Health Considerations	66	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
2	Available	5F: Evaluated for Forest Health Considerations	10	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Spruce is healthy and providing wildlife benefits.							
3	Available	5F: Evaluated for Forest Health Considerations	45	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Spruce is healthy and providing wildlife benefits.							
4	Available	5F: Evaluated for Forest Health Considerations	51	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Spruce is healthy and providing wildlife benefits.							

Report 4 – Site Conditions

Cadillac Mgt. Unit
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Compartment: 108
Year of Entry: 2018

5	Available	5F: Evaluated for Forest Health Considerations	12	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Spruce is healthy							
6	Available	5B: Maintain for regeneration purposes	56	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Stand is regenerating from previous cut. Allow oak regeneration to continue to grow into the pole class before the over story oak is removed.							
7	Available	5F: Evaluated for Forest Health Considerations	19	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Spruce is healthy and providing wildlife benefits.							
8	Available	5B: Maintain for regeneration purposes	16	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
9	Available	5B: Maintain for regeneration purposes	19	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Stand is aspen regeneration under an over story of oak.							
10	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	124	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Adjacent stands were cut during the last entry. Keep this stand around for another rotation to provide age and structural diversity for the oak in the area.							

Report 4 – Site Conditions

Cadillac Mgt. Unit
Jim Malloy : Examiner

Compartment: 108
Year of Entry: 2018

11	Available	5B: Maintain for regeneration purposes	41	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

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

Mgt. Unit

Compartment:

Year of Entry



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
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	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
1	4123 - Red Oak	Sawtimber Medium	5.9	76	1-50	Stand was harvested in last treatment period. Regeneration is starting to sprout back now. Coming back to red maple, beech, and aspen.
2	42311 - Planted Spruce, Mixed Deciduous	Poletimber Well	19.2	54	51-80	Overtopping aspen was removed from the stand during the previous entry. Spruce is growing well with no sign of spruce budworm.
3	4191 - Mixed Upland Deciduous with Conifer	Sawtimber Medium	9.6	87	51-80	Small stand on top of ridge. This stand contains a larger component of white pine than the rest of the adjacent stands.
4	4123 - Red Oak	Sawtimber Well	41.0	84	51-80	Pockets of young oak pole and sapling size.
5	4119 - Mixed Northern Hardwoods	Sawtimber Well	124.7	85	81-110	Stand is a mix of oak and lower quality northern hardwood. Beech is showing sign of beech scale and all ash is dead/dying from EAB.
6	4130 - Aspen	Poletimber Well	47.1	57	81-110	Remove all aspen, red maple, and poor formed hardwoods. Mark some oaks to cut. Stand residual BA will vary based on hardwood and oak component. Long range management goal is for a mix of oak, aspen, and northern hardwoods.
7	4199 - Other Mixed Upland Deciduous	Poletimber Medium	10.3	65	51-80	Poor quality stand along county road. Most beech within stand show signs of beech scale.
8	42311 - Planted Spruce, Mixed Deciduous	Poletimber Well	66.1	54	81-110	Overtopping aspen was removed in 1998. Stand now a mix of spruce with pockets of young aspen. Aspen is coming back well in harvested areas and along the skid trails. Spruce is healthy and shows no sign of forest health risk at this time, and is still providing cover for wildlife.
9	4123 - Red Oak	Sawtimber Medium	32.5	86	51-80	This stand was harvested in the past but no cutting record was found. Advanced regeneration of oak, beech, and maple.
11	4130 - Aspen	Sapling Well	74.7	15	Immature	Aspen was harvested in 2001. Harvest placed 8 inch diameter limit on white pine. Pole sized residual oaks. Aspen is starting to self thin. Stand also includes a small portion of larger aspen along Lotan Rd and a small area of blow down that was harvested in 2005 following a blowdown event.
12	4191 - Mixed Upland Deciduous with Conifer	Poletimber Well	5.1	62	81-110	A mix of white pine, paper birch, aspen and oak. Left as an uncut island in the large surrounding aspen clear-cut. Beech in stand is showing signs of beech scale.
13	42310 - Planted Spruce	Poletimber Well	50.7	54	141-170	Spruce stand that had overtopping aspen removed during previous entry. Stand now a complex of sapling sized aspen and pole sized spruce, with the spruce pockets surrounded by areas of young aspen. Some large aspen in the spruce areas not harvested in. Scattered red oak occur throughout the stand.
14	4130 - Aspen	Sapling Well	3.8	18	1-50	Young aspen with a few scattered white spruce



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
15	4130 - Aspen	Poletimber Well	30.6	51	51-80	Aspen stand that will require survey for harvest to establish private boundaries.
17	4129 - Mixed Oak	Sawtimber Well	10.8	85	81-110	OPIC - FMD: Stand treated by selection cut in 2001.
19	42320 - Upland Spruce	Poletimber Well	44.8	54	81-110	Represents portion of spruce stand with overtopping aspen that was not harvested during the previously.
22	4130 - Aspen	Poletimber Well	34.6	57	81-110	Aspen stand mostly poles with some logs, mixed with white pine and red maple.
23	4130 - Aspen	Poletimber Well	48.4	36	Unspecified	Stand of aspen transitioning into pole class. Scattered white pine throughout the understory with a few that have progressed into the canopy. Small amount of oak (mostly poles) and spruce in NE of stand where transition to oak stand occurs. Stand was treated by clearcut in 1980.
25	4133 - Aspen, Mixed Pine	Poletimber Well	15.7	56	81-110	Aspen stand that when harvested the lower portion of the stand will convert to oak/pine/aspen mix. Pine component is already present in southern end as white and jack pine. Some large oaks are present along with some advance regeneration. Small area of stand was part of a blow down salvage sale ~15 years ago. Now treating as a part of the larger stand. Stand borders a private farm field to the east.
26	42310 - Planted Spruce	Poletimber Well	11.8	54	51-80	Spruce stands within large oak stand. Preserve for diversity and wildlife cover.
27	4124 - Red with White Oak	Sawtimber Well	55.8	106	51-80	Stand was marked to cut during last entry. Very little oak regeneration has occurred.
32	4199 - Other Mixed Upland Deciduous	Sawtimber Well	30.0	108	81-110	Beech is showing scale and ash are dead/dying due to EAB. Multi aged with large sawtimber, poles and advanced regen. Openings created by previous harvest are being dominated by aspen regeneration. Stand slopes down toward the north with aspen below. Single stemmed oak and multi stemmed maples dominate the overstory. Bordered along south and west by private parcel.
34	4130 - Aspen	Poletimber Well	10.0	56	81-110	Aspen is mature. Final harvest stand and expand sale to the south to incorporate lower stocking areas of hardwood.
35	4130 - Aspen	Sapling Well	25.6	15	Immature	Aspen stand that was final harvested in 2001. Scattered mature oak and maple left as reserves. Aspen regen is growing well along with scattered red maple sprouts.
37	4130 - Aspen	Poletimber Medium	29.4	40	1-50	Represents portion of adjacent stand that was not harvested during the previous entry. Aspen is growing well and putting on diameter growth.



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
38	4124 - Red with White Oak	Sawtimber Medium	16.1	100	51-80	Stand was previously coded as aspen. Stand treated by selection cut during previous entry. Aspen regen coming back under an oak/northern hardwood over story.
39	4131 - Aspen, Oak	Sapling Well	64.6	13	Immature	Aspen cut that occurred in 2003. Oak was left as a reserve. Aspen starting to come back nicely.
40	4130 - Aspen	Sapling Well	101.0	23	Immature	Aspen stand starting to change from saplings into poles. Some mixed red maple saplings as well. Growing very nicely.
41	4123 - Red Oak	Sawtimber Medium	19.4	105	51-80	Stand treated during a previous entry. White pine understory coming in under residual oaks. Aspen regen in areas recently cut. Manage for oak/pine complex with potential for aspen pockets. Several large red pine monarchs left in stand.
42	4133 - Aspen, Mixed Pine	Poletimber Medium	40.0	34	1-50	Stand is a mix of aspen saplings and poles and white pine poles and sawtimber. Manage for a mixture of white pine and aspen.
43	4131 - Aspen, Oak	Sapling Well	25.5	11	1-50	Aspen stand that was harvested last entry and closed in 2005. Reserves of oak left scattered throughout the stand.
44	4199 - Other Mixed Upland Deciduous	Sawtimber Well	81.2	94	51-80	This stand represents the portion that was not harvested last entry. Hold one more YOE to allow adjacent cut to mature further.
46	4131 - Aspen, Oak	Sawtimber Well	54.2	63	81-110	Good oak regen throughout. Paper birch along road dividing stand, remove aspen, mark oak to cut. Do not cut or damage sugar maple and oak regen.
47	4130 - Aspen	Poletimber Well	40.0	34	1-50	Aspen stand with scattered maple. A few over story oaks and a beech sub-canopy. Stand is in transition. Will be pole sized on next entry.
48	4130 - Aspen	Sapling Well	71.8	14	Immature	Stand cut in 2002. Aspen with oak reserves. Aspen regen coming back well. 10-20 BA of oak left following harvest.
49	4130 - Aspen	Sapling Well	29.4	25	Immature	Represents portion of the stand which is aspen. Pipeline runs along the west edge of the stand. Aspen growing well. Good form and growth.
50	42310 - Planted Spruce	Poletimber Well	10.3	54	111-140	Represents portion of the stand which was planted to spruce in 1962. Good wildlife cover and stand diversity. Road through stand is proposed for closure halfway through stand. Spruce is doing well health wise and still providing good cover for wildlife.



Stand	Cover Type	Acres	Managed Site	General Comments:
51	3102 - Grass	3.4	No	OPIC - FMD: OI Stand Year Origin was