



Compartment Review Presentation

Grayling Forest Management Unit

Compartment 72207

Entry Year 2017

Acreage: 1,880

County Crawford

Management Area: Grayling Ice Contact

Revision Date: 2015-10-12

Stand Examiner: Patrick Mohney

Legal Description:

T27N R4W Sections 10, 11, 12, 13 and 14

Identified Planning Goals:

The emphasis of management shall be on retaining and enhancing the natural beauty and biological diversity of the area, and enhancing wildlife habitat for both hunting and wildlife observation purposes while maintaining forest health, productivity, sustainability, species and structural diversity while providing for multiple use and visual management.

Soil and topography:

Predominately Rubicon sands, with Grayling sands confined to the southeast quarter of section 13. Topography is mainly flat to rolling, with a few steeper hills in Section 13.

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

This compartment is comprised of large acreage in private ownership in sections 10 and 11. The remaining compartment consists of contiguous state ownership except for a few private parcels located in along U.S. 27. Stand 15 is a narrow strip surrounded by private. It is proposed this parcel (stand 15) be nominated for disposal. The New York Central railroad passes through section 11.

Unique Natural Features:

Within section 13 there are a few stands of natural red and white pine trees which stands which appear to have been by-passed during the logging era.

Archeological, Historical, and Cultural Features:

Historic logging and farm activity is evidenced by old railroad grades and apple orchards.

Special Management Designations or Considerations:

Stands 49, 58 should be managed for large diameter trees.

Watershed and Fisheries Considerations:

The AuSable River, a designated natural river, passes through section 11, but all frontages are privately owned.

Wildlife Habitat Considerations:

With its diverse mix of pine, oak and aspen cover types, this compartment supports a variety of wildlife species including hare, grouse, turkey and deer.

Mineral Resource and Development Concerns and/or Restrictions

Surface sediments consist of ice-contact outwash and glacial outwash sand and gravel and postglacial alluvium. The glacial drift thickness varies between 400 and 600 feet. Beneath the glacial drift are the Coldwater Shale and Marshall Sandstone. The Marshall was previously used as a building stone. Gravel pits are not located in the area, but potential is good on the upland areas. The compartment is leased for oil and gas development.

Vehicle Access:

Access to sections 10, 11, and 12 in the compartment is adequate from the county and state highway roads, of Batterson, Howes Lake, Sandy Tr., Pratt, and U.S.-27. Section 13 has limited access, with only a few sandy two-tracks and snowmobile trail. The snowmobile trail serves as access for some private parcels to the north of the compartment providing private conflict with management of the snowmobile trail. Note: No legal access easement has been requested by private property owners to date.

Survey Needs:

None at this time.

Recreational Facilities and Opportunities:

The snowmobile trail number "7" runs through sections 12 and 13. Also the shore to shore riding/hiking trail runs along the north boundary of the compartment. The AuSable River passes through section 11, but all frontages are privately owned. In addition dispersed recreational use occurs throughout compartment. One primary use of the area is hunting, due to the excellent wildlife habitat in the vicinity.

Fire Protection:

Current road system is adequate, and no timber conversion is needed.

Additional Compartment Information:

Due to the compartment's high recreational potential, there are many opportunities for educational and visual management.

The following reports from the Inventory are attached:

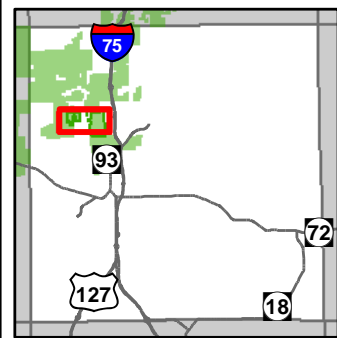
- Total Acres by Cover Type and Age Class**
- Cover Type by Harvest Method**
- Proposed Treatments – No Limiting Factors**
- Proposed Treatments – With Limiting Factors**
- Stand Details (Forested and Nonforested)**
- Dedicated and Proposed Special Conservation Areas**
- Site Condition Details**

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

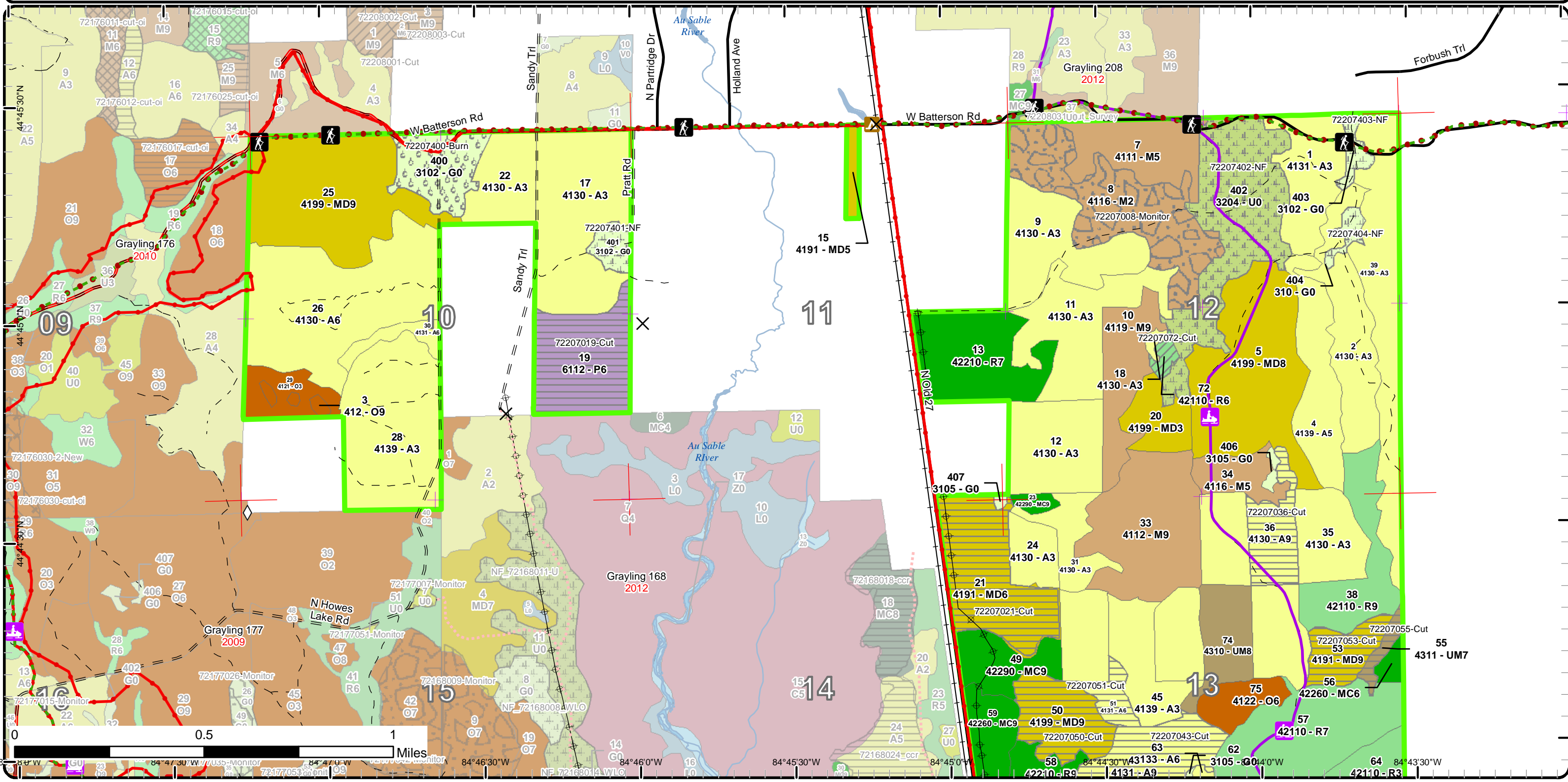
- Base feature information, stand boundaries, cover types, and numbers**
- Proposed treatments**
- Site condition boundaries**
- Details on the road access system**

Cover Type & Treatments Map

Compartment: 207
 T27N R04W 10-15
 County: Crawford
 Unit: Grayling
 Mgmt Area: Grayling Ice Contact
 YOE: 2017
 Acres: 1879 GIS Calculated
 Examiner: Patrick Mohney
 Map Revised: 5/17/2016
 Map Phase: Post-Review

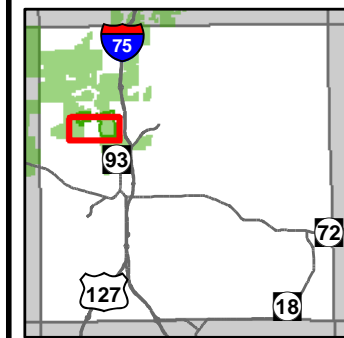


- Miris Corners
- + Remonumented Section Corners
- ◇ Field Grade GPS Corners
- X Gate
- ▲ Campground
- ▲ Hiking Trails
- ▲ Horse Trails
- ▲ Snowmobile Trails
- - - Designated Hiking Trails
- Designated Equestrian Trails
- ORV License & Trail Permit
- Designated ATV
- Designated ORV Routes
- Designated Snowmobile Trails
- Paved Roads
- County Gravel Roads
- Gravel Roads
- Poor Dirt Roads
- Closed Roads
- Railroads
- Rivers
- Powerline
- Compartment Boundary
- Clearcut (w/Reserves)
- Other Treatment - See Comments
- Prescribed Burn
- Regeneration Survey
- Thinning (Crown, Low, Systematic)
- 411 - Northern Hardwood
- 412 - Oak Types
- 413 - Aspen
- 419 - Mixed Upland Deciduous
- 421 - Planted Pines
- 422 - Natural Pines
- 430 - Upland Mixed Fores
- 611 - Lowland Deciduous Forest
- 310 - Herbaceous Openland
- 320 - Upland Shrub
- Lakes

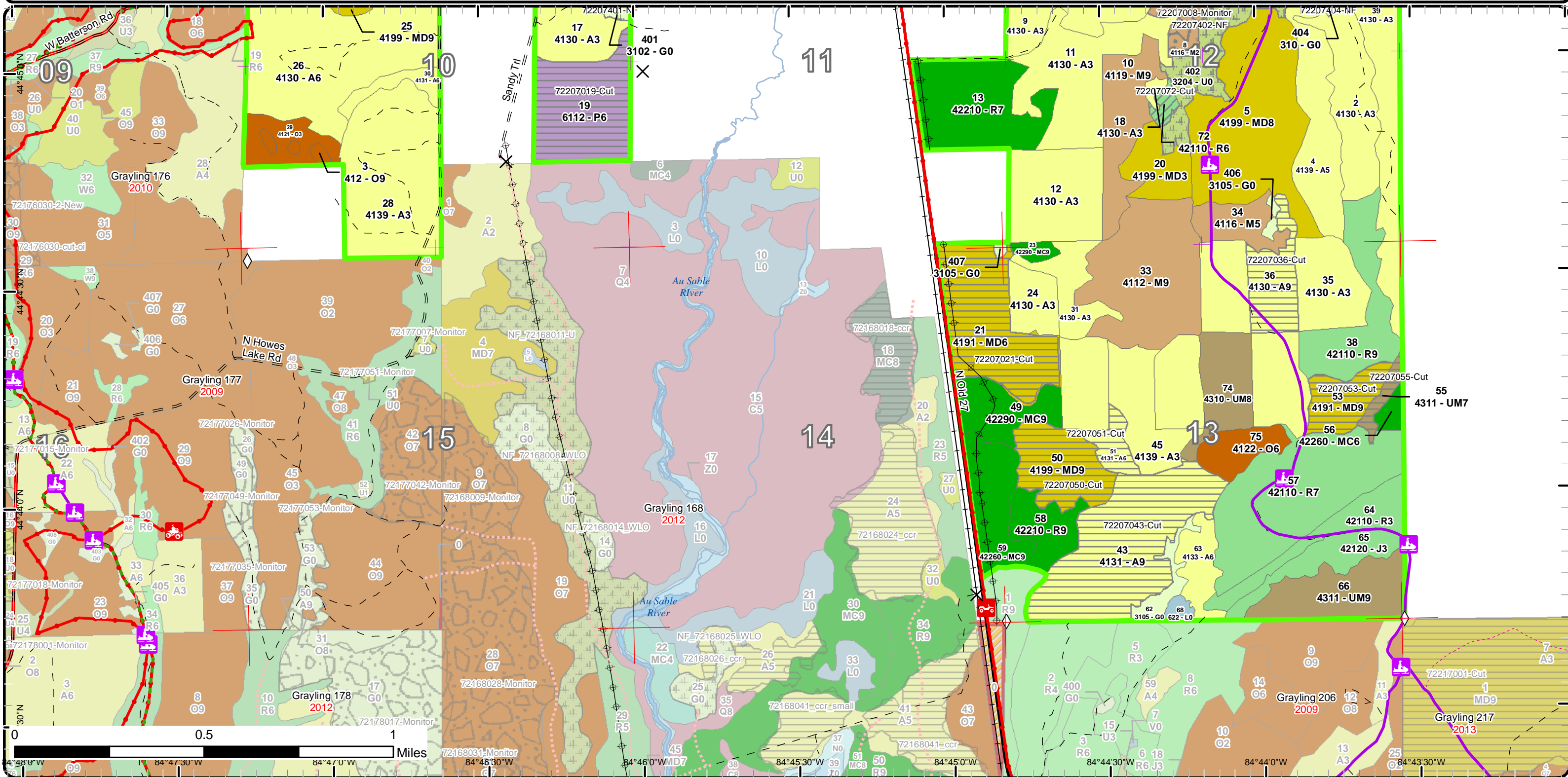


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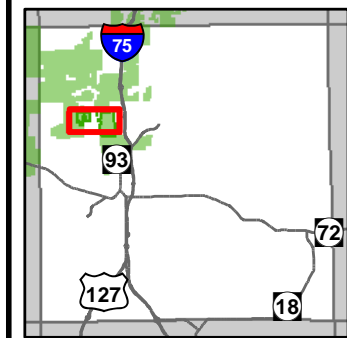


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- - Poor Dirt Roads
- Trail (Non-Recreation)
- Closed Roads
- Railroads
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- ▭ 320 - Upland Shrub
- ▭ 622 - Lowland Shrub
- ▭ Lakes

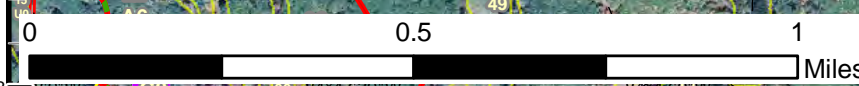
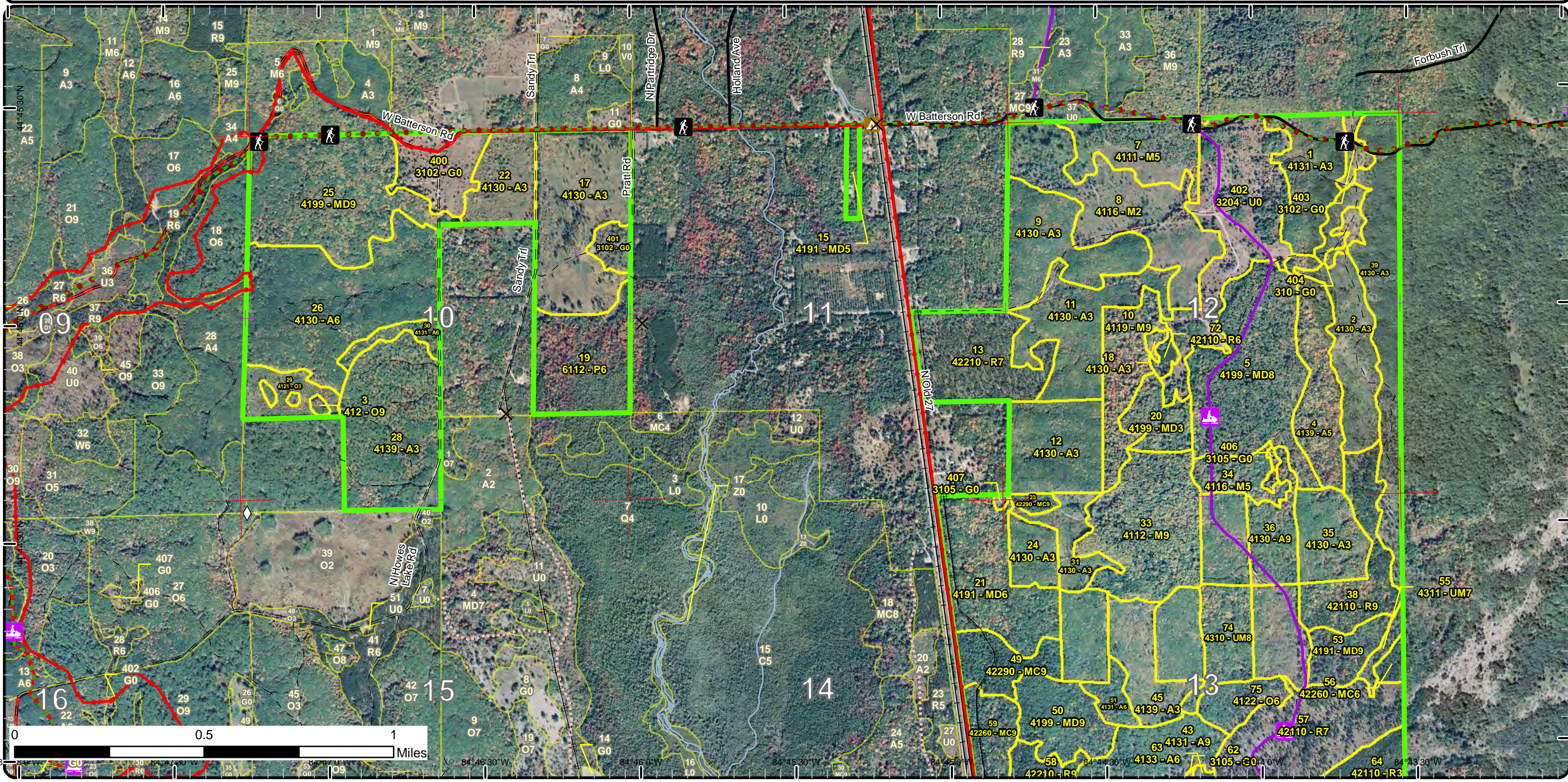


Stand Boundary Map

Compartment: 207
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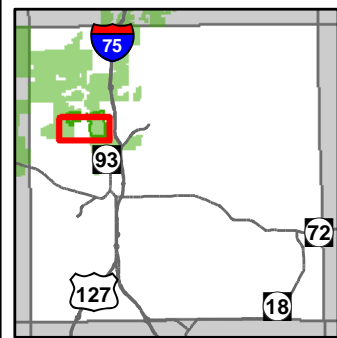
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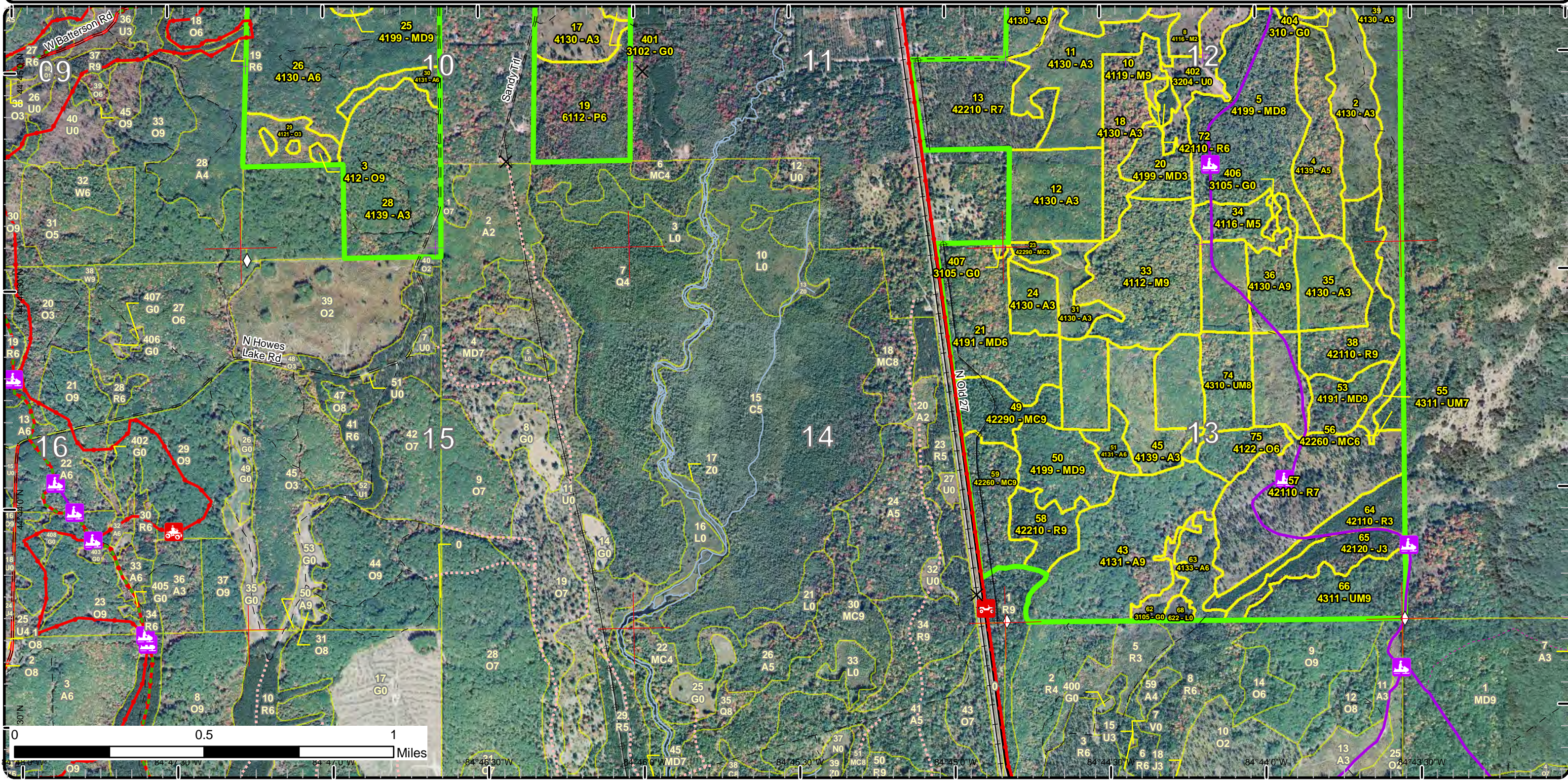
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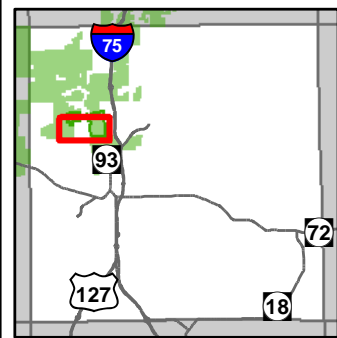


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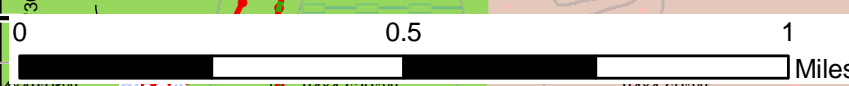
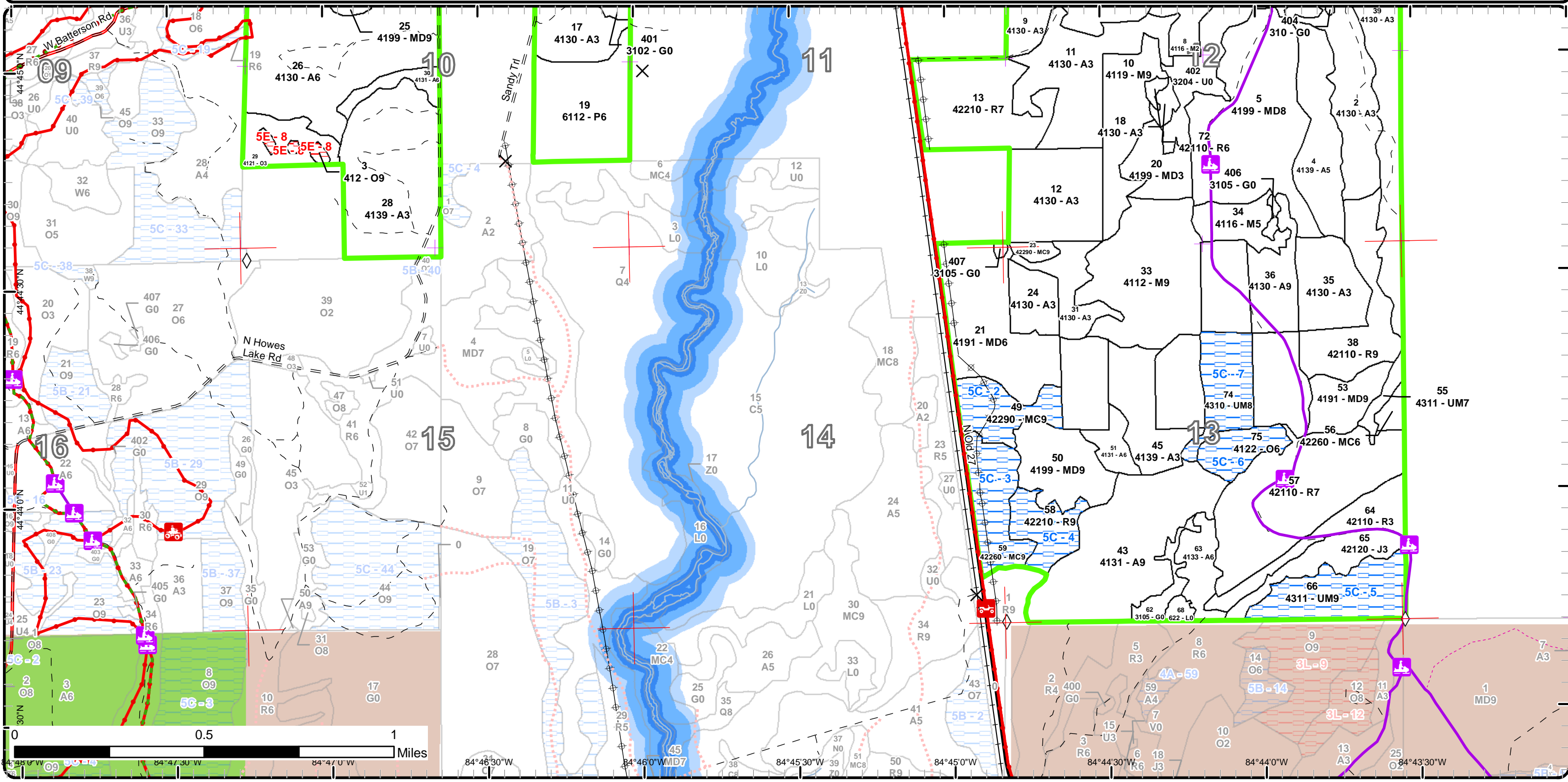


Special Conservation Areas & Site Conditions Map

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| <ul style="list-style-type: none"> — Miris Corners + Remonumented Section Corners ◇ Field Grade GPS Corners X Gate ORV Trails ORV Routes Snowmobile Trails Designated Hiking Trails Designated Equestrian Trails ORV License & Trail Permit Designated ATV Designated ORV Routes | <ul style="list-style-type: none"> — Designated Snowmobile Trails — Paved Roads — County Gravel Roads — Gravel Roads — Poor Dirt Roads — Trail (Non-Recreation) — Closed Roads — Railroads — Rivers — Powerline — Compartment Boundary — SCA — SCA Removal — Available w/ Constraints — Unavailable | <ul style="list-style-type: none"> 5C: Delay treatment for age/size class diversity or exceptional site quality 5E: Long-Term Retention □ Stand Boundaries Special Conservation Areas Natural Rivers Vegetative Buffer Natural Rivers Zoning District Kirtland Warbler Habitat Cold Water Streams High Priority Trout Stream Buffer Research, Development, and Military Lands |
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84°43'30"W 84°44'00"W 84°44'30"W 84°45'00"W 84°45'30"W 84°46'00"W 84°46'30"W 84°47'00"W

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	137	49	367	41	109	8	0	104	0	0	0	0	0	0	0	0	36	851
Herbaceous Openland	53	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	53
Jack Pine	0	0	0	19	0	0	0	0	0	0	0	0	0	0	0	0	0	0	19
Lowland Aspen/Balsam Poplar	0	0	0	0	0	0	0	45	0	0	0	0	0	0	0	0	0	0	45
Lowland Shrub	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	17	0	0	0	0	0	51	0	0	0	0	0	0	214	282
Natural Mixed Pines	0	0	0	0	0	0	0	0	34	0	0	0	20	0	0	0	0	0	54
Northern Hardwood	0	67	0	0	0	0	0	15	93	0	0	0	0	0	0	0	0	33	208
Oak	0	16	0	0	0	0	0	0	0	0	17	0	0	0	0	0	0	0	33
Red Pine	0	0	0	21	0	3	0	0	156	18	0	0	0	0	0	0	0	0	198
Upland Mixed Forest	0	0	0	0	0	0	0	0	38	0	24	0	0	0	0	0	0	0	62
Upland Shrub	72	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	72
Total	128	220	49	407	58	112	8	60	425	18	92	0	20	0	0	0	0	283	1880



Report 2 – Treatment Summary

Grayling Mgt. Unit

Year of Entry: 2017

Acres of Harvest

Compartment 207

Total Compartment Acres: 1,880

Commercial Harvest - 255
 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	104	0	0	0	0	0	0	0	0	104
Lowland Aspen/Balsam Poplar	45	0	0	0	0	0	0	0	0	45
Mixed Upland Deciduous	97	0	0	0	0	0	0	0	0	97
Red Pine	0	0	0	0	3	0	0	0	0	3
Upland Mixed Forest	5	0	0	0	0	0	0	0	0	5
Total	251	0	0	0	3	0	0	0	0	255

Proposed and Next Step Treatments by Method

	Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current	255	0	0	0	26	0	278	0	89	648
Next Step	0	0	0	0	0	0	277	0	89	367
Total	255	0	0	0	26	0	555	0	179	1015



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
8	72207008-Monitor	66.6	4116 - Mixed N. Hardwood - Aspen	Sapling Medium	3	Immature	Monitoring	Natural Regen (Re-Inventory)	4199 - Other Mixed Upland Deciduous	Uneven-Aged	Proposal - Approval Pending Edits

Habitat Cut: No

Site Condition:

Prescription regen survey, stand has heavy beech regen in understory, re-assess next YO
Specs:

Next Step
Treatments:

Acceptable aspen, oak, maple, beech
Regen:

Other Old next step comments:
Comment:

Proposed Start Date: 10/1 /2016

17	72207017-Monitor	68.4	4130 - Aspen	Sapling Well	2	Immature	Monitoring	Natural Regen (Re-Inventory)	413 - Aspen	Even-Aged	Proposal - Approval Pending Edits
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Habitat Cut: No

Site Condition:

Prescription regen survey
Specs:

Next Step
Treatments:

Acceptable aspen
Regen:

Other Old next step comments:
Comment:

Proposed Start Date: 10/1 /2016

19	72207019-Cut	45.2	6112 - Lowland Aspen	Poletimber Well	61	81-110	Harvest	Clearcut with Retention	6112 - Lowland Aspen	Even-Aged	Proposal - Approval Pending Edits
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Habitat Cut: No

Site Condition:

Prescription Final harvest stand. Leave large diameter Red Pine (24"+) Leave retention in island form. Access off of pratt rd. make sure that we use the
Specs: portion on state land, not on private land.

Next Step
Treatments:

Acceptable Acceptable regeneration includes aspen, maple, oak, birch, fir, pine.
Regen:

Other Old next step comments:
Comment:

Proposed Start Date: 10/1 /2016

21	72207021-Cut	51.4	4191 - Mixed Upland Deciduous with Conifer	Poletimber Well	66	81-110	Harvest	Clearcut with Retention	4199 - Other Mixed Upland Deciduous	Even-Aged	Proposal - Approval Pending Edits
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Habitat Cut: No

Site Condition:

Prescription Final harvest stand, use island retention for visual. Let stand regenerate naturally.
Specs:

Next Step
Treatments:

Acceptable Aspen, maple, balsam, pine.
Regen:

Other Old next step comments:
Comment:

Proposed Start Date: 10/1 /2016



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
22	72207022-Monitor	25.3	4130 - Aspen	Sapling Well	4	Immature	Monitoring	Natural Regen (Re-Inventory)	413 - Aspen	Even-Aged	Proposal - Approval Pending Edits

Habitat Cut: No

Site Condition:

Prescription regen survey

Specs:

Next Step

Treatments:

Acceptable aspen, red maple

Regen:

Other Old next step comments:

Comment:

Proposed Start Date: 10/1 /2016

31	72207031-Monitor	16.8	4130 - Aspen	Sapling Well	7	Immature	Monitoring	Natural Regen (Re-Inventory)	413 - Aspen	Even-Aged	Proposal - Approval Pending Edits
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Habitat Cut: No

Site Condition:

Prescription regen survey

Specs:

Next Step

Treatments:

Acceptable aspen

Regen:

Other Old next step comments:

Comment:

Proposed Start Date: 10/1 /2016

36	72207036-Cut	20.8	4130 - Aspen	Sawtimber Well	79	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 stand, use island retention. Let stand regenerate naturally. Drumming log spec. Trail spec.

Specs:

Next Step

Treatments:

Acceptable Aspen, red maple.

Regen:

Other Old next step comments:

Comment:

Proposed Start Date: 10/1 /2016

43	72207043-Cut	75.0	4131 - Aspen, Oak	Sawtimber Well	78	81-110	Harvest	Clearcut with Retention	4319 - Mixed Upland Forest	Even-Aged	Proposal - Approval Pending Edits
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Habitat Cut: No

Site Condition:

Prescription Final harvest stand. Leave retention in islands. Let stand regenerate naturally. Use drumming log spec.

Specs:

Next Step

Treatments:

Acceptable Oak, aspen, maple is acceptable regen.

Regen:

Other Old next step comments:

Comment:

Proposed Start Date: 10/1 /2016



Stand	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Approval Status
45	72207045-Monitor	26.4	4139 - Aspen, Mixed Deciduous	Sapling Well	7	Immature	Monitoring	Natural Regen (Re-Inventory)	413 - Aspen	Even-Aged	Proposal - Approval Pending Edits

Habitat Cut: No **Site Condition:**

Prescription regen survey

Specs:

Next Step

Treatments:

Acceptable aspen

Regen:

Other Old next step comments:

Comment:

Proposed Start Date: 10/1 /2016

50	72207050-Cut	29.0	4199 - Other Mixed Upland Deciduous	Sawtimber Well	93	81-110	Harvest	Clearcut with Retention	412 - Oak Types	Even-Aged	Proposal - Approval Pending Edits
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Habitat Cut: No **Site Condition:**

Prescription Final harvest stand. Place retention in islands. Use drumming log spec. Let stand regenerate naturally.

Specs:

Next Step

Treatments:

Acceptable Oak, aspen, maple

Regen:

Other Old next step comments:

Comment:

Proposed Start Date: 10/1 /2016

51	72207051-Cut	8.5	4131 - Aspen, Oak	Poletimber Well	75	81-110	Harvest	Clearcut with Retention	4199 - Other Mixed Upland Deciduous	Even-Aged	Proposal - Approval Pending Edits
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Habitat Cut: No **Site Condition:**

Prescription Final harvest stand. Leave island retention. Use drumming log spec.

Specs:

Next Step

Treatments:

Acceptable Aspen, oak, maple, beech

Regen:

Other Old next step comments:

Comment:

Proposed Start Date: 10/1 /2016

53	72207053-Cut	16.7	4191 - Mixed Upland Deciduous with Conifer	Sawtimber Well	91	81-110	Harvest	Clearcut with Retention	412 - Oak Types	Even-Aged	Proposal - Approval Pending Edits
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Habitat Cut: No **Site Condition:**

Prescription Final harvest stand, leave island form retention. Let stand regenerate naturally. Trail spec.

Specs:

Next Step

Treatments:

Acceptable Oak, aspen

Regen:

Other Old next step comments:

Comment:

Proposed Start Date: 10/1 /2016



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
55	72207055-Cut	4.9	4311 - Pine, Aspen Mix	Sawtimber Poor	71	1-50	Harvest	Clearcut	4319 - Mixed Upland Forest	Even-Aged	Proposal - Approval Pending Edits

Habitat Cut: No

Site Condition:

Prescription final harvest stand, leave no retention due to small acreage and wanting to maximize regen. Use drumming log spec.

Specs:

Next Step

Treatments:

Acceptable aspen, oak, pine

Regen:

Other Old next step comments:

Comment:

Proposed Start Date: 10/1 /2016

57	72207057- Monitor	74.4	42110 - Planted Red Pine	Sawtimber Poor	77	1-50	Monitoring	Natural Regen (Re-Inventory)	4319 - Mixed Upland Forest	Even-Aged	Proposal - Approval Pending Edits
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Habitat Cut: No

Site Condition:

Prescription regen survey

Specs:

Next Step

Treatments:

Acceptable oak, aspen, pine maple

Regen:

Other Old next step comments:

Comment:

Proposed Start Date: 10/1 /2016

72	72207072-Cut	3.3	42110 - Planted Red Pine	Poletimber Well	40	171- 200	Harvest	Systematic Thinning	4211 - Planted Red Pine	Even-Aged	Proposal - Approval Pending Edits
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Habitat Cut: No

Site Condition:

Prescription 3rd row thin.

Specs:

Next Step

Treatments:

Acceptable

Regen:

Other Old next step comments:

Comment:

Proposed Start Date: 10/1 /2016

400	72207400- Burn	26.0	3102 - Grass	Nonstocked			Unspec ified	Burn	Opening	31022 - Warm Season Grass	Proposal - Approval Pending Edits
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Habitat Cut: No

Site Condition:

Prescription Rx burn to set back spotted knapweed and woody species and promote prairie species such as warm season grasses and wildflowers.

Specs:

Next Step

Treatments:

Acceptable

Regen:

Other Old next step comments:

Comment:

Proposed Start Date: 10/1 /2015



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
401	72207401-NF	7.4	3102 - Grass	Nonstocked		Unspec ified	NonForestMgt	Other - Specify	310 - Herbaceous Openland		Proposal - Approval Pending Edits

Habitat Cut: No

Site Condition:

Prescription Periodic opening maintenance, as needed, that may include disking, fertilizing, food plot seeding, no-till prairie grass drill seeding, mowing, Specs: brushing, tree and shrub planting, Rx burning and herbicide application.

Next Step
Treatments:

Acceptable
Regen:

Other Old next step comments:
Comment:

Proposed Start Date: 10/1 /2016

402	72207402-NF	72.1	3204 - Mast Producing Shrub	Nonstocked		Unspec ified	NonForestMgt	Other - Specify	310 - Herbaceous Openland		Proposal - Approval Pending Edits
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Habitat Cut: No

Site Condition:

Prescription Periodic opening maintenance, as needed, that may include disking, fertilizing, food plot seeding, no-till prairie grass drill seeding, mowing, Specs: brushing, tree and shrub planting, Rx burning and herbicide application.

Next Step
Treatments:

Acceptable
Regen:

Other Old next step comments:
Comment:

Proposed Start Date: 10/1 /2016

403	72207403-NF	5.8	3102 - Grass	Nonstocked		Unspec ified	NonForestMgt	Other - Specify	310 - Herbaceous Openland		Proposal - Approval Pending Edits
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Habitat Cut: No

Site Condition:

Prescription Periodic opening maintenance, as needed, that may include disking, fertilizing, food plot seeding, no-till prairie grass drill seeding, mowing, Specs: brushing, tree and shrub planting, Rx burning and herbicide application.

Next Step
Treatments:

Acceptable
Regen:

Other Old next step comments:
Comment:

Proposed Start Date: 10/1 /2016

404	72207404-NF	4.2	310 - Herbaceous Openland	Nonstocked		Unspec ified	NonForestMgt	Other - Specify	310 - Herbaceous Openland		Proposal - Approval Pending Edits
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Habitat Cut: No

Site Condition:

Prescription Periodic opening maintenance, as needed, that may include disking, fertilizing, food plot seeding, no-till prairie grass drill seeding, mowing, Specs: brushing, tree and shrub planting, Rx burning and herbicide application.

Next Step
Treatments:

Acceptable
Regen:

Other Old next step comments:
Comment:

Proposed Start Date: 10/1 /2016

Total Treatment Acreage Proposed: 648.2

Report 5 – Site Conditions

Grayling Mgt. Unit
Patrick Mohney : Examiner

Compartment: 207
Year of Entry: 2017

Availability for Management

Total Acres	Acres Available	Acres Avail		Dominant Site Conditions	5C	1A	5E
		With Condition	Not Available				
850	850	0	0	Aspen			
53	53	0	0	Herbaceous Openland			
19	19	0	0	Jack Pine			
45	45	0	0	Lowland Aspen/Balsam Poplar			
3	3	0	0	Lowland Shrub			
282	276	0	5	Mixed Upland Deciduous		5	
55	8	47	0	Natural Mixed Pines	47		
208	208	0	0	Northern Hardwood			
33	16	14	3	Oak	14		3
198	180	18	0	Red Pine	18		
62	5	57	0	Upland Mixed Forest	57		
72	72	0	0	Upland Shrub			
1,880	1,736	135	8	Total Forested Acres	135	5	3
	92%	7%	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	Unavailable	1A: Federal/State/Local Law	5	Unspecified	Unspecified	Unspecified	Unspecified
Comments: House in trespass, parcel is slated for disposal.							
2	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	20	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 5 – Site Conditions

Grayling Mgt. Unit

Compartment: 207

Patrick Mohney : Examiner

Year of Entry: 2017

3	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	27	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
4	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	18	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
5	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	33	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
6	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	14	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
7	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	24	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
8	Unavailable	5E: Long-Term Retention	3	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Mgt. Unit

Compartment: #Type!

Year of Entry:



Report 6 – 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
Comments				



Report 7 – 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	Research and Military Areas	These areas provide facilities and lands specifically dedicated for research, or other purposes. They include the 5,847 acre Forest Fire Experiment Station, the 12,000 acre Houghton Lake Wildlife Research Area, the Beaver Islands Archipelago Wildlife Research Area (that includes most of Garden Island, all of High and Hog Islands, all state owned land on Beaver, South Fox and North Fox Islands), the Cusino Wildlife Research Area, the 3,000 acre Hunt Creek Fisheries Research Station, the 125 acre Wyman Nursery, and over 144,000 acres of Military Lands.
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.
HCVA	Natural Rivers	There are two Natural Rivers datasets which are derived from spatial buffers set from an established and approved distance from the river centerlines. The Natural Rivers Zoning District is a 400 foot buffer for most Natural Rivers. The Vegetative Buffer ranges from 25 to 100 feet. To view specific Zoning Districts and Vegetative Buffers for each Natural River see the table located on the I:\Documentation\GDSE data folder.
ERA	Ecological Reference Areas	Ecological Reference Areas (ERAs) are high quality examples of natural communities that have been identified as Element Occurrences (EOs) by the Michigan Natural Features Inventory (MNFI) within the context of their natural community classification system. Element Occurrences with viability ranks of A (Excellent) or B (Good) and a Global (G) or State (S) element (rarity) ranking of endangered (1), threatened (2), or rare (3) serve as an initial base of ERAs. They may be located upon any ownership in the State. The system is comprised of individual or associations of natural community types that are managed for restoration and maintenance of natural ecological processes and values. The public may submit recommendations for lands as ERAs using the DNR Conservation Area Recommendation Form.



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
1	4131 - Aspen, Oak	Sapling Well	32.8	25	Immature	Final harvested 1990. Regen look healthy and growing nicely.
2	4130 - Aspen	Sapling Well	40.7	35	Unspecified	Stand has variable quality, stems are not real tall for their age. Access is good to the stand. some open areas in the stand that are not filling in. OPIC - FMD: Final harvested 79-80. Regen looks healthy and growing nicely. 1978 and improvement cut was done, all aspen was cut completed 1980.
3	412 - Oak Types	Sawtimber Well	2.8	93	51-80	Retention islands left from previous harvest.
4	4139 - Aspen, Mixed Deciduous	Poletimber Medium	36.0	37	51-80	Stand is doing well. Aspen is merchantable sized. Stand is still managing well. Some open areas. OPIC - FMD: OPEN GROWN MAPLE AND BEECH, SOME POOR ASPEN. 1978 and improvement cut was done, all aspen was cut. Scattered A3 pockets from prior harvesting. Solomon seal, star flower, dewberry, wild lily of the valley, bracken fern. Terrain rolling with a nice mix of understory species. Leave and re-check next YOE. Diameter ranges most from 6-9 inches, with a few very large red maple (16").
5	4199 - Other Mixed Upland Deciduous	Sawtimber Medium	80.8	77	51-80	Stand was treated due to BBD. It appears that Oak and Sugar Maple were left. BA is right around 60 sq ft. Oak quality is good, canopy has gaps that are starting to fill in. Most stems are log sized. Smaller gaps seem to be keeping the beech regen under control in most places. Time will tell how it reacts in the future. OPIC - FMD: Leaf matter not decomposing, found solomon's seal, star flower. Sugar maple over beech in the ground cover. Flat terrain. Nice stand could use a little room in the crown. Snowmobile trail runs through the stand. A few large dia. Oak adjacent to trail. Took SI in Beech tree height 130', age 72, off the chart in a good way. 2010 update: beech scale found a quarter-mile to the northwest in stands 73 & 8 on 11-1-10. Approved at 11-3-10 Compt Review (2012 YOE review): thin with BBD guidelines. Take into consideration rec trail protection when designing specs. UPDATE: Harvested under contract 72-003-11-01, Compt 207 & 208 BBD.
7	4111 - S.Maple, Hard Mast Association	Poletimber Medium	33.5	78	1-50	Extremely dense beech regen understory. Horse trail is on the north side of the stand. Previous comments cover most of the stand detail. OPIC - FMD: All aspen was cut 78-80. 25-30" beech, rolling terrain. Ground cover mostly beech with heavy sugar maple seedling in areas. 2010 update: beech scale found in 2010. Forest health specialists reviewed site. Proposed for OYOE BBD harvest. Approved at 11-3-10 Compt Review (2012 YOE review): thin with BBD guidelines. Take into consideration rec trail protection when designing specs.. Update: Sale harvested under contract 72-003-11-01 Compt 207 & 208 BBD.



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
8	4116 - Mixed N. Hardwood - Aspen	Sapling Medium	66.6	3	Immature	Stand was cut under contract as described below. WLD Planted 400 oak seedlings. I briefly looked for survival, did not locate any. OPIC - FMD: 2010 update: beech scale found November 1, 2010. Proposed for OYOE BBD harvest. Approved at 11-3-10 Compt Review (2012 YOE review): Final harvest with standard retention.CUT NEXT TIME RED MAPLE AND BEECH LOTS OF LIMBS SOME OPEN AREAS. Only inventoried the north half, planned on swinging through the south portion of the stand on the way back to the truck this did not happen. Terrain has a northwest slope with a few steep hills. Some large dia red oak in the northwest corner. Aspen showing heavy heart rot. Ground cover consist of beech, oak, maple, star flower, mostly leaves, some maple leaf viburnum. Prescription applied in tsale 72-011-11-01, 7/2/12. May 2014 update: approx. 400 oak saplings were hand planted in sparser areas of the stand (upper third of slope and hilltop) under FTP W72-751 to off-set mast production losses in the beech.
9	4130 - Aspen	Sapling Well	43.9	26	Immature	Stand is fully stocked, lots of red maple, some oak. Quality is decent. OPIC - FMD: Stand final harvested 1987-88. Aspen and red maple sprouts. Stand looks healthy. Found suvey marker (pin# MEM31600). Old SI.
10	4119 - Mixed Northern Hardwoods	Sawtimber Well	29.9	77	81-110	Mixed hardwood stand. Quality is fair. Very dense understory, heavy beech regen. Mixed aspen mostly along edges of the stand. OPIC - FMD: This is a variable stand of northern hardwoods. The edges of the stand have quite a bit of aspen mixed but still should be managed for hardwoods. The state aquired this property 1998, but prior to our aquirement all of the aspen was harvested. The stand is responding but we need to wait untill next YOE and re-evaulate. This stand is not top notch stuff but it has potential. Some areas are spotty while others are more of a true northern hardwoods, with scattered red pine super canpy and no oak regen.
11	4130 - Aspen	Sapling Well	47.3	17	Immature	Aspen is coming back nicely. Decent quality. Small strip of hemlock along the access road in the stand. 15-20 trees. OPIC - FMD: THE PINE AND MAPLE ALONG TRAIL ROAD INTO PRIVATE MARKED WITH GREEN PAINT WAS LEFT. Stand final harvested 1998, growing nicely, rolling terrain with some steep hills.
12	4130 - Aspen	Sapling Well	39.0	27	Immature	Decent aspen regen. Approaching merchantability in some spots. Do nothing at this time. OPIC - FMD: Stand final harvested 1988. Looks healthy over all. A few pockets of hypoxylon.
13	42210 - Natural Red Pine	Sawtimber Poor	46.5	70	51-80	Log sized RP. Does not look like a plantation, and could not find any documentation to support that. Quality of RP is nice. There was a damage study done in this stand from the previous sale. Stand was also part of an external audit. OPIC - FMD: Stand cut in 2010 under sale contract 720440701 "Allis Chalmers Red Pine". More white pine in the east and northeast part of stand. A non designated bicycle trail has been created through the stand. Should do a marked thinning reduce Total BA to 90.



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
15	4191 - Mixed Upland Deciduous with Conifer	Poletimber Medium	5.4	90	51-80	Stand has a house in trespass. Entered into the database and specialist was notified. Parcel is slated for disposal. No further data collected. OPIC - FMD: RSL(SLS26466). Possible trespass east edge, no markers on the west boundary. Two survey markers on edge see map. RECOMMEND TO DISPOSE OF THIS LOT
17	4130 - Aspen	Sapling Well	68.4	2	Immature	OPIC - FMD: A variance was requested on February 14, 2011 to treat stand OYOE because of heavily infected with hypoxylon and ceratocystis fungal disease. Variance approved 3-7-11. Final harvest leaving all pine and maple, include retention islands of aspen as requested by wildlife. Limit harvesting activity to September 1st to March 31st to avoid nutrient depletion in the root system. For visual management and help control snowdrifts leave 20 - 30 feet wide strips along all roads. Old Notes: SOME OPEN AREAS. Blueberry, sweet fern, sedge. Red pine pocket. Understory in a mix of (A3, A2, U2, U3). 1966 all aspen and red maple was harvested. Harvested fall of 2013 under contract # 72-036-11-01. High rainfall amounts during this period.
18	4130 - Aspen	Sapling Well	1.8	18	Immature	Young aspen stand. Decent quality. Has a decent sized opening/road in the middle of it, but nothing around the aspen was of similar type to add it to. OPIC - FMD: Stand was aquired in 1998. All aspen was harvested prior to the state ownership. Aspen regen, some oak seedlings mostly a mix of TA & BA.
19	6112 - Lowland Aspen	Poletimber Well	45.2	61	81-110	Stand has some areas that are low and wet. Has mostly upland species on the site. Stand is very dense, aspen is looking bad, age is getting up there. Access is fair to the stand. OPIC - FMD: TWO N&W CUT STRIPS L2P2 CUT IN 1966. Wet area, bracken fern, grass, dewberry, and tag alder. Found a few oak seedling along cedar edge. Survey Marker (FJA PS 21265)
20	4199 - Other Mixed Upland Deciduous	Sapling Well	16.8	33	Immature	Hardwood regenerated stand. Fully stocked. Quality is fair. Access is challenging, some steep hills around the stand. Nice mixed stand. Age was difficult to determine, best guess/ring count I got was 33. OPIC - FMD: State aquired the land 1998. All aspen was harvested prior to state ownership. Used adjcent stand's SI.
21	4191 - Mixed Upland Deciduous with Conifer	Poletimber Well	52.6	66	81-110	Quality varies throughout the stand. Very dense in areas. Some heavy regen in pockets where aspen has fallen down. Aspen is getting old and coming down in areas. OPIC - FMD: White pine 4-5" dia. Healthy paper brich. Oak, balsam, and lots of red maple in the ground cover. Leave for now. Stand is adjacent to old U.S.-27 and private campground to the north.



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
22	4130 - Aspen	Sapling Well	25.3	4	Immature	<p>Stand is growing well, fully stocked. Decided to keep it a separate stand from the stand across the road (Stand 17) just due to the road dividing them and 2 years difference in stand origin. Quality seems decent so far. Do nothing at this time.</p> <p>OPIC - FMD: Diameter ranges between 5-9 inches. Bracken fern, blackberry, and grass are the main ground cover. Good serviceberry shrubs, White pine stumps. Some frost damage to the TA aspen. A pocket of Btaspen along Batterson road. 2010 update: Proposed for OYOE harvest. Approved at 11-3-10 Compt Review (2012 YOE review): Final harvest with standard retention, leave white pine. Post-harvest update: cut in Nov 2011 (72-013-11-01) by T.I. Forest Products; aspen the only designated cut species, all else left (mostly RM & WP) in addition to boundary-excluded retention bordering the county roads.</p>
23	42290 - Natural Mixed Pine	Sawtimber Well	3.4	70	111-140	<p>Interesting pine stand. has some nice tall, straight pine in it.</p> <p>OPIC - FMD: Star flower, lady slipper. Steep valley, no red pine regen.</p>
24	4130 - Aspen	Sapling Well	14.1	25	Immature	<p>Aspen regen, decent quality, stand seems to be growing well.</p> <p>OPIC - FMD: Stand harvested early 90's.</p>
25	4199 - Other Mixed Upland Deciduous	Sawtimber Well	80.4	73	111-140	<p>Stand is made up of a nice mix of species. Some very large diameter stems which are not represented in the species composition. Quality is decent. Some steep terrain. Aspen is getting old. Shore to Shore trail passes along north side of the stand.</p> <p>OPIC - FMD: SOME AREAS RUN HEAVY TO OAK OR WHITE BIRCH. Scattered large dia red oak trees (20-24"). Ground cover consists of the overstory species mostly (sugar maple, beech and ironwood). Hilly and rolling terrain, with a thick M3 understory 3-5" dia. Need to wait on more YOE, would do a lot of damage to the regen at this time.</p>
26	4130 - Aspen	Poletimber Well	94.3	42	81-110	<p>Aspen is merchantable, and decent quality. Age is 42. Red maple is decent quality</p> <p>OPIC - FMD: TWO INCHES AND OVER RESIDUAL CUT IN 1973. Bracken fern, grass, beech seedlings, oak and cherry brush. Maple leaf viburnum, big leaf aster, lots of beech stump sprouts. Used old SI.</p>
28	4139 - Aspen, Mixed Deciduous	Sapling Well	70.8	28	Immature	<p>Aspen/oak/rm regen. Stand is fully stocked. quality is decent. most of the roads that were used have been blocked at some point and are now becoming overgrown. The larger oak that was left during the previous harvest is starting to show its age in places. OPIC - FMD: Bracken fern, dewberry, maple leaf viburnum. 1967 and the aspen was harvested, 1987 all trees larger than 2" not marked with paint were harvested. A little over 10 BA of oak was left.</p>



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
29	4121 - Oak, Aspen	Sapling Well	15.9	9	Immature	<p>Missed this stand during inventory. From the evidence I have been able to gather, the stand was not burned as prescribed and that it is likely a mix of aspen, red maple and oak regeneration.</p> <p>OPIC - FMD: Bracken fern, blueberry, service berry, sarsaparilla and witch hazel. A few nice pockets of BTA. Rolling terrain. Found some leaf rollers. Should think hard about removing the aspen, and hitting the oak hard. Will need to follow up with a burn within three years. If we are unable to complete prescribed burn within three years of harvest, then will accept whatever natural regeneration occurs on site. Do a final harvest but leave islands ranging in different sizes, about 1/5 of the acres should be left. Because red maple is a prolific seed producer and readily re-sprouts after cutting and therefore, will not easily be displaced from the stand once it is established. Fire may be the best method to control competition. If we do nothing red maple and white pine will largely displace the less shade tolerant red pine, aspen, and oak on this sites. Natural regeneration will consist of a mix of aspen, oak and red maple. **Stand was harvested under contract # 72-011-07-02 during winter of 06/07. Sale Name-Private Access Oak, cut by AJD FP. FTP for prescribed burn submitted to Craig Farrer on 7/18/07.</p>
30	4131 - Aspen, Oak	Poletimber Well	7.8	55	51-80	<p>Aspen/RM stand with some larger diameter oaks cattered in. It was previously listed as an O9, due to species break down it is now called an aspen stand. Oak is into the 90's for age, and aspen is old as well.</p> <p>OPIC - FMD: Bracken fern, grass, and witch hazel. Oak and red maple regen. 1967 all the aspen was harvested, 1987 all trees larger than 2" not marked with paint were harvested. Stand follows a small ridge. Still a PARVHa.</p>
31	4130 - Aspen	Sapling Well	16.8	7	Immature	<p>Aspen regen, stand is fully stocked. Growing well. OPIC - FMD: Nice stand of mature aspen, heart rot starting to show. A small pocket of hardwood in mid of stand. Star flower, and found a small hemlock with some oak seedlings. Northern hardwood regen under a mature aspen stand. Eastern edge of this stand transitions into the M6 stand and the true type line would be subject to change depending on what our management philosophy will determine when the stand I put up. Stand harvested in 2008 under tsale contract #720070701.</p>
33	4112 - Maple, Beech, Cherry Association	Sawtimber Well	63.5	75	51-80	<p>Decent hardwood stand. History is listed below. Lots of beech left on site. It seems to be ok for now, could have potential for BBD. OPIC - FMD: (UPDATE)Sale #720280801 thinned winter 2010/11(UPDATE). This is a variable stand of northern hardwoods. The edges of the stand has quite a bit of aspen mixed in but still should be managed for hardwoods. The north end was thinned for firewood back in 1986 but only a small amount was removed. This stand is not top notch stuff but it has potential. Some areas are spotty while others are more of a true northern hardwoods. Aspen has some heart rot, also there are scattered red pine super canpy but no oak regen. Beech regen is very good averaging 5' in height with very little sugar maple above ground cover. Tripped over an old wire fence.</p>



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
34	4116 - Mixed N. Hardwood - Aspen	Poletimber Medium	15.0	68	51-80	<p>Stand of mixed hardwood. Quality is decent. Aspen is varyign in sizes throughout the stand. Some very large RM stems, not represented in the species makeup.</p> <p>OPIC - FMD: OPEN GROWN MAPLE AND BEECH, SOME POOR ASPEN. 1978 and improvement cut was done, all aspen was cut. Scattered A3 pockets from pior harvesting. Solomon seal, star flower, dewberry, wild lily of the valley, bracken fern. Terrain rolling with a nice mix of understory species. Leave and re-check next YOE. Diameter ranges most from 6-9 inches, with a few very large red maple (16").</p>
35	4130 - Aspen	Sapling Well	105.9	27	Immature	<p>Decent regen, approaching merchantable size in some areas. Snowmobile trail passes through stand. Do nothing at this time. OPIC - FMD: Bracken fern main ground cover. Some of the oak sprout staying up with the aspen , with lots of red maple sprouts.. Good regn some hypoxylon, but over all healthy stand. Final harvested 1988. Old SI.</p>
36	4130 - Aspen	Sawtimber Well	20.8	79	51-80	<p>Aspen is decent quality in some areas. Quite large diameter in some spots.</p> <p>OPIC - FMD: Bracken fern, winter green, star flower and a few oak seedling with some service and witch hazel a few red pine seedling and sapling east half. Heart rot developing in the aspen. Nice stand of mature aspen. The north end has quite a lot of hardwoods mixed in but it should all be managed for aspen.</p>
38	42110 - Planted Red Pine	Sawtimber Well	35.0	77	81-110	<p>Stand is approaching log sized, stand needs to finish self pruning, growth is still ok. Starting to slow.</p> <p>OPIC - FMD: Blueberry, bracken fern, big leaf aster and a small open about mid-way through stand. Some oak seedling in the ground cover. Stand has some super canpy red pine, and woodpeckers. The stand lies on a east facing slope. The pine is of very good quality.</p>
39	4130 - Aspen	Sapling Well	60.3	24	Immature	<p>Decent quality aspen in some areas of the stand. Other areas is fairly low quality. Some hills in stand, nothing inoperable. Do nothing at this time.</p> <p>OPIC - FMD: Primarily a stand of vary low quality aspen sapplings. The density varies throughout from open areas to clones of A2. All throughout there are scattered old mature red pine. This is a dry site and would do better in pine.</p>
43	4131 - Aspen, Oak	Sawtimber Well	75.0	78	81-110	<p>Stand was treated in 1997 as stated below. Stand has some regen in the understory. Overstory quality is decent. Oak is getting old and could be regenerated. Access is difficult to this stand. There was a road in from the south but it has since grown over so that it is impassible. Could be re-opened for harvest activities.</p> <p>OPIC - FMD: Star-flower, winte green, blueberry, and lots of heart rot in the aspen. Pocket of Paper Birch looking healthy. Also I did not find any aspen regen. Stand was harvest 1997, with the specification to cut all oak marked with orange paint, and all aspen, pine, birch, and maple trees. Natural regeneration is the main goal in this stand, need to wait until next YOE and re-evaluate the regeneration/management objective</p>



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
45	4139 - Aspen, Mixed Deciduous	Sapling Well	26.4	7	Immature	<p>Sapling sized stand. Fully stocked. Quality is decent so far.</p> <p>OPIC - FMD: Tall aspen. Understory is mostly beech and red maple. Kotar= solomon's seal, star flower and witch hazel. Red maple waiting. After harvesting allow natural regeneration to take place. Should regen heavily to aspen with some red maple and other species. Will accept what ever come back. Heart rot developing. Stand harvested in 2008 under tsale contract #720070701.</p>
49	42290 - Natural Mixed Pine	Sawtimber Well	20.4	111	111-140	<p>It was mentioned previously that this stand be considered for an SCA. I have found no additional info on this. It is a nice large diameter good quality pine stand. Understory is filling in nicely. Quality is also decent in the understory.</p> <p>OPIC - FMD: Stand was thinned during 1986. The understory filled in quite heavily with maple and aspen sprouts. This is a beautiful stand and should be maintained for large diameter trees. Special management area potential. Stands 49, 59, and 60: discussed how we did not want treatment right now but felt that these stands should be classified as an SCA under the objective that they are mature natural red and white pine stands that we want to continue to manage as mature natural stands (big tree management). May some day need to perform treatments to discourage red maple in parts of stands. Getting good natural pine and oak reproduction now. Can allow manual removal (i.e: cleaning and weeding) of red maple along road and trail for visual management if desired. Stands may make a good site for future ski and hiking trail development. We need to develop guidelines for this type of SCA and also want to classify other stands as similar SCA's with similar objectives across the unit (ie: Dyer Red Pine).</p>
50	4199 - Other Mixed Upland Deciduous	Sawtimber Well	29.0	93	81-110	<p>Nice quality oak, but getting old. Hardwood is decent too. Pretty much all log sized. Some hilly terrain in the stand.</p> <p>OPIC - FMD: This is a unique stand that occupies both a west facing slope as well as the ridge top. Kotar-witch hazel, bracken fern, star flower, and maple leaf viburnum. The oak is pretty nice overall and there is some northern hardwoods mixed in. Stuff on the slope is slightly lower quality than up on the flats.</p>
51	4131 - Aspen, Oak	Poletimber Well	8.5	75	81-110	<p>Varying quality in the stand. Sizes also vary. Age is old. Would be good aspen regen and ideal for drumming logs due to mast producing species.</p> <p>OPIC - FMD: Witch hazel, star flower, service berry, some oak seedlings in the ground cover. Stand is on a south/southwest slope and the aspen is in poor shape mostly, a few nice stems (few). Sparse vegetation in the ground cover in places. This stand is distinctly different from the adjacent aspen stands. The trees are shorter and of poor form. Also there is a lot of red pine mixed all throughout. Stand has a fairly abundant understory of hazel.</p>
53	4191 - Mixed Upland Deciduous with Conifer	Sawtimber Well	16.7	91	81-110	<p>Stand has some nice oak throughout, both red and white. Age is into the 90's. Aspen is variable. Some pine mixed in as well.</p> <p>OPIC - FMD: Found old not from 1984 which say to harvest everything but the red pine and oak. I did not find any sale proposal but something was cut. Understory is a mix of red maple and cherry brush.</p>



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
55	4311 - Pine, Aspen Mix	Sawtimber Poor	4.9	71	1-50	Poor quality JP and aspen. Old age. OPIC - FMD: patches of Jack pine and open area with grass/sedge, sweet fern and cherry brush. (Blackberry, sweetfern, dewberry)
56	42260 - Natural Pine, Mixed Deciduous	Poletimber Well	4.2	77	81-110	I missed this stand somehow during the inventory phase. Does not sound like a treatment is needed at this time. If I make it back out there, I will collect data for the stand and update. OPIC - FMD: Stand was planted 1938 to a mix of jack pine and red pine. Obviously the jack did better at first but most of the jack pine is dead now and the red pine is still going.
57	42110 - Planted Red Pine	Sawtimber Poor	74.4	77	1-50	Harvest details are below. RP is nice quality, fairly evenly spaced throughout the stand. Dense regen in the understory in some areas. OPIC - FMD: Stand was planted 1938 to a mix of jack pine and red pine. Bracken fern, sedge and blueberry is the main ground cover. Recommend harvesting all jack pine leave red pine which has a nice mix of age and size class (some super canpy and on) let natural regen take place will except a mix of species. Small pocket of TA north edge with some red pjne mixed in. Will accept low stocking of jack pine, red pine, oak and aspen. If stocking is not adquate by the next YOE then recommend machine planting to a mix of red and jack pine. Leave jack pine tops for seed source. Stand harvested under tsale contract #720070701 in 2008.
58	42210 - Natural Red Pine	Sawtimber Well	17.6	88	111-140	Pine and oak are decent quality. Some RP throughout stand, not a significant amount. The pine ages vary throughout but not enough to make management different. It should all be treated as the same stand. OPIC - FMD: This is a native stand of red pine and a little bit of oak. Pine is of varying ages but in general is all of nice quality.
59	42260 - Natural Pine, Mixed Deciduous	Sawtimber Well	26.6	71	81-110	Interesting stand. Some very large diameter pine in here that is not represented on the species make up (22-24" dbh). It was mentioned previously that it could be considered for an SCA, large tree management. I see no further documentation saying that was accomplished. It is a nice stand, quality is decent. regen underneath overstory is good. OPIC - FMD: Sarsaparilla, witch hazel, maple leaf viburnum, and white pine regen. Red maple regen is above the white pine regen. This stand is of somewhat poorer quality than the stand to the north, but there are a few scattered good quality stems. This would most likely regenerate well if cut. What stands out the most in this stand are the very large diameter red pine (22'+DBH). Stands 49, 59, and 60: discussed how we did not want treatment right now but felt that these stands should be classified as an SCA under the objective that they are mature natural red and white pine stands that we want to continue to manage as mature natural stands (big tree management). May some day need to perform treatments to discourage red maple in parts of stands. Getting good natural pine and oak reproduction now. Can allow manual removal (i.e: cleaning and weeding) of red maple along road and trail for visual management if desired. Stands may make a good site for future ski and hiking trail development. We need to develop guidelines for this type of SCA and also want to classify other stands as similar SCA's with similar objectives across the unit (ie: Dyer Red Pine).



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
63	4133 - Aspen, Mixed Pine	Poletimber Well	14.4	46	1-50	<p>Aspen is not in great condition. Pine is doing well. Let stand go a bit longer and see how it holds up. Some aspen will drop out but the pine will hang in there and should do well.</p> <p>OPIC - FMD: Fairly young stand of scattered aspen clones of mixed ages with some red and jack . In general they are small dia.</p>
64	42110 - Planted Red Pine	Sapling Well	20.9	24	Immature	<p>Dense plantation. Seems to be growing well. Not much else coming in beneath the RP. Do nothing.</p> <p>OPIC - FMD: Stand was cut in 1987 and replanted in 1991. The trees are well established and re putting on good growth. Stand appears to be very healthy. Mostly blueberry in ground cover, but some sweet fern scattered about. A couple of residual red pine stand out. Snowmobile trail runs along the south boundary of this stand.</p>
65	42120 - Planted Jack Pine	Sapling Well	19.0	28	Immature	<p>Stand was cut in 1987 and replanted bu prtion of the area was too steep blus tere was some volunteer regeneration stand filling in slowly looks healthy. Mostly blueberry in ground cover, but some sweet fern scattered about. Some red pine along snowmobile. Snowmobile trail runs along the north boundary of this stand. There is a nice mix of regeneration taking place.</p>
66	4311 - Pine, Aspen Mix	Sawtimber Well	33.1	77	111-140	<p>Mixed stand. Some nice large diameter red pine throughout. Most of the pine is pole sized but some larger diameters which tend to skew the sizing of the stand. Aspen is decent quality. Do nothing at this time. OPIC - FMD: Stand was selectively cut in 1991 out of YOE. Took out everythiny but the oak and red pine poles and small logs. Stand was heavier to jack pine. Stand was planted along the sides and valey of two hills.</p>
72	42110 - Planted Red Pine	Poletimber Well	3.3	40	171-200	<p>Stand is pretty small, but nothing around it comes even close to its cover type. Canopy is completely enclosed, trees are nearly completely self pruned. Top 20% of tree is canopy, the rest of the bole is clean. Rows are somewhat erratic.</p> <p>OPIC - FMD: Red pine lantation not completely self pruned. Part of the private land which the state purchased in 1998.</p>
74	4310 - Pine, Oak Mix	Sawtimber Medium	23.9	95	51-80	<p>I missed visiting this stand and the stand to the south during the inventory phase. I am going on previous inventory data. Judging by the other stands in the area. It should hold. I will try and get back out and collect data for these stands.</p> <p>OPIC - FMD: South slope, MIMs plot blue trees lots of witch hazel. Aspen, red maple and some oak was cut. Lots of RM stumps sprouts. Heavy oak seedling few more than knee high. Great mixed of natural regen (M2, A2, O2, W1, R1). Very nice oak stand leave for wildlife, and visul needs.</p>
75	4122 - Oak, Pine	Poletimber Well	13.8	93	51-80	<p>I missed visiting this stand and the stand to the north during the inventory phase. I am going on previous inventory data. Judging by the other stands in the area. It should hold. I will try and get back out and collect data for these stands.</p> <p>OPIC - FMD: This stand could have been treated when the adjacent stand was treated (#43). It is of lower quality than the adjacent stand. Threes are generally large and wolfy. Allso there is a quite a bit of red pine mixed in.</p>



Stand	Cover Type	Acres	Managed Site	General Comments:
62	3105 - Mixed Upland Herbaceous	7.5	No	Some aspen and cherry creeping in along the edges. OPIC - FMD: St.John wort, sweet fern, sedge, spotted knapweed, buerry, dewberry, and wild rose. Has been heavily disturbed.
68	622 - Lowland Shrub	2.7	No	Leather leaf bog with a few scattered trees mostly Trembling aspen and red pine.
400	3102 - Grass	26.0	No	Grassy mostly with a few clumps fo cherry. Orange hawkweek, goats beard, aster, strawberry, little blue stem, and some sweet fern on the edge of stand 22.
401	3102 - Grass	7.4	No	Opening with a road through the center. Mostly cherry clumps in the stand. WLD may end up maintaining. OPIC - FMD: Grassy mostly with a few clumps fo cherry. Aster, strawberry, little blue stem, and some sweet fern on the edge.
402	3204 - Mast Producing Shrub	72.1	No	Apple trees are in pretty bad shape. White pine, cherry, some red maple, evenly dispersed. OPIC - FMD: Old apple orchard the trees are in bad shape few have any apples. Need to prune trees. Clumps fo young aspen scattered about. A few clumps fo cherry with some grassmm aster, strawberry, and little blue stem..
403	3102 - Grass	5.8	No	Cherry brush is scattered in pockets throughout the stand. OPIC - FMD: Open are with cherry brush, grass and bracken fern.
404	310 - Herbaceous Openland	4.2	No	OPIC - FMD: Open are with cherry brush, grass and bracken fern.
406	3105 - Mixed Upland Herbaceous	1.7	No	OPIC - FMD: Open are with cherry brush, grass and bracken fern.
407	3105 - Mixed Upland Herbaceous	0.8	No	OPIC - FMD: Old borrow pit filling with Knapweed, some grass. Also found a gps control point #3 for the survey done along the private.