



Compartment Review Presentation

Roscommon Forest Management Unit

Compartment 71101

Entry Year 2019

Acreage: 939

County Roscommon

Management Area: Upper Muskegon

Revision Date: 2017-07-10

Stand Examiner: Dale Ekdom

Legal Description:

T22N R2W Sections 10 and 15

Identified Planning Goals:

Vegetation management in the Upper Muskegon Management Area will provide timber 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 the next ten years 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 opportunity. Expected issues within the next decade 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:

Terrain in the compartment is primarily flat to gently rolling glacial outwash plain. Soils are primarily poorly drained Rubicon sand, Saugatuck sand, and Newton loamy sand on the upland areas and excessively poorly drained Rifle peat on the lowland areas.

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

This compartment is 100 % state land and is surrounded by equal amounts of state and private land. The private land has both year-round residences and seasonal cabins. Backus Township Park is on the west edge of the compartment. Vaundersosa Ranch (a private hunting preserve) is on the north and east sides of the compartment.

Unique Natural Features:

Osprey, bald eagle, loon, and great blue herons have been identified on adjacent lands, both state and private, and kirtlands warbler, king rail, and secretive locust have also been found in the area. Compartment also has heavy beaver activity in the drainages associated with the North Branch of Denton Creek. There is the potential for Ram's head lady's-slipper and other T & E flora in the swamp areas of the compartment. Wild pigs were reported in the compartment last YOE but no evidence was detected of their presence this YOE.

Archeological, Historical, and Cultural Features:

None known or detected during fieldwork

Special Management Designations or Considerations:

None

Watershed and Fisheries Considerations:

The North Branch of Denton Creek flows through Compartment 101. BMPs should be used for timber treatments near the stream.

Wildlife Habitat Considerations:

Maintain ecosystem diversity in the compartment via regular habitat manipulation to benefit game species such as deer, grouse, rabbits, and turkeys as well as non-game species. This compartment also may have a population of wild pigs.

Mineral Resource and Development Concerns and/or Restrictions

No sand/gravel pits are located in the area and potential appears to be limited within the compartment. The abandoned Denton Creek Field is located one mile to the south. The field produced nearly 55,000 BO from the Devonian Detroit River Formation. All of the parcels in the compartment are currently leased by Marathon. However, Marathon has indicated they are leaving the state and have begun the process of releasing all of their remaining leases that are not held by production. Oil and gas potential is considered moderate to low at this time. There is no known metallic mineral potential in this part of the state.

Vehicle Access:

Vehicle access is good to most parts of the compartment via M-55 and state forest two-tracks.

Survey Needs:

May need help from the surveyors establishing the private line by Backus Township Park due to the wet terrain.

Recreational Facilities and Opportunities:

Compartment is heavily used for deer, grouse, and rabbit hunting due to its proximity to populated areas. No other organized recreation facilities are within the compartment itself but Backus Township Park is adjacent to the west edge of the compartment. Continue forest management efforts to address resource damage areas.

Fire Protection:

This compartment has good vehicle access with short response times, and an abundance of natural fire breaks. There is also a lack of volatile fuel types. However, access and mop up may be a problem in a dry year if a fire in any of the swamps occurs.

Additional Compartment Information:**The following reports from the Inventory are attached:**

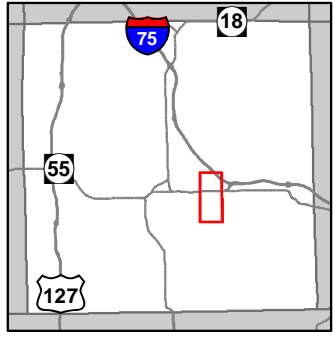
- Total Acres by Cover Type and Age Class**
- Cover Type by Harvest Method**
- Proposed Treatments – No Limiting Factors**
- Proposed Treatments – With Limiting Factors**
- Stand Details (Forested and Nonforested)**
- Dedicated and Proposed Special Conservation Areas**
- Site Condition Details**

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

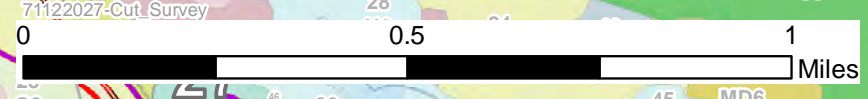
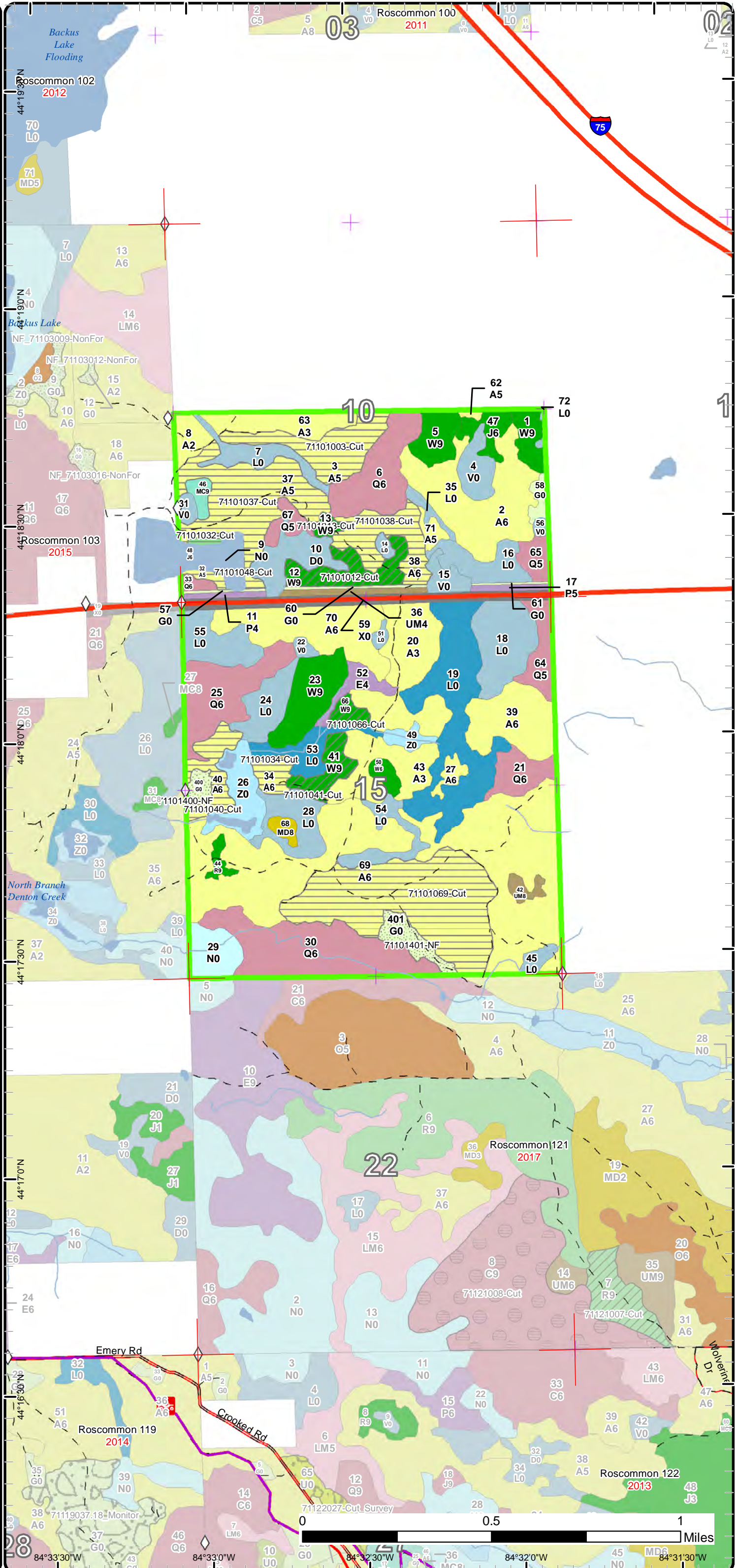
- Base feature information, stand boundaries, cover types, and numbers**
- Proposed treatments**
- Site condition boundaries**
- Details on the road access system**

Cover Type & Treatment Map

Compartment: 101
 T22N,R02W, Sec.10, 15
 County: Roscommon
 Unit: Roscommon
 Mgmt Area: Upper Muskegon
 YOE: 2019
 Acres: 938.6 GIS Calculated
 Examiner: Dale Ekdorn
 Map Revised: 8/2/2017
 Map Phase: Review



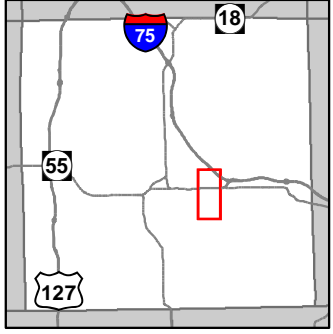
- Miris Corners
- Remonumented Section Corners
- Field Grade GPS Corners
- Counties
- ORV Routes
- Designated ATV
- Designated ORV Route
- Designated Snowmobile Trails
- Highway
- County Gravel Roads
- County Poor Dirt Roads
- Poor Dirt Roads
- Streams
- Lakes and Rivers All
- Compartment Boundary
- Clearcut (w/Reserves)
- Mowing
- Thinning (Crown, Low, Systematic)
- 413 - Aspen
- 419 - Mixed Upland Deciduous
- 421 - Planted Pines
- 422 - Natural Pines
- 429 - Mixed Upland Conifers
- 430 - Upland Mixed Forest
- 611 - Lowland Deciduous Forest
- 612 - Lowland Coniferous Forest
- 122 - Roads/Parking Lot
- 310 - Herbaceous Openland
- 500 - Water
- 622 - Lowland Shrub
- 623 - Emergent Wetland
- 629 - Mixed non-forested wetland
- Lakes



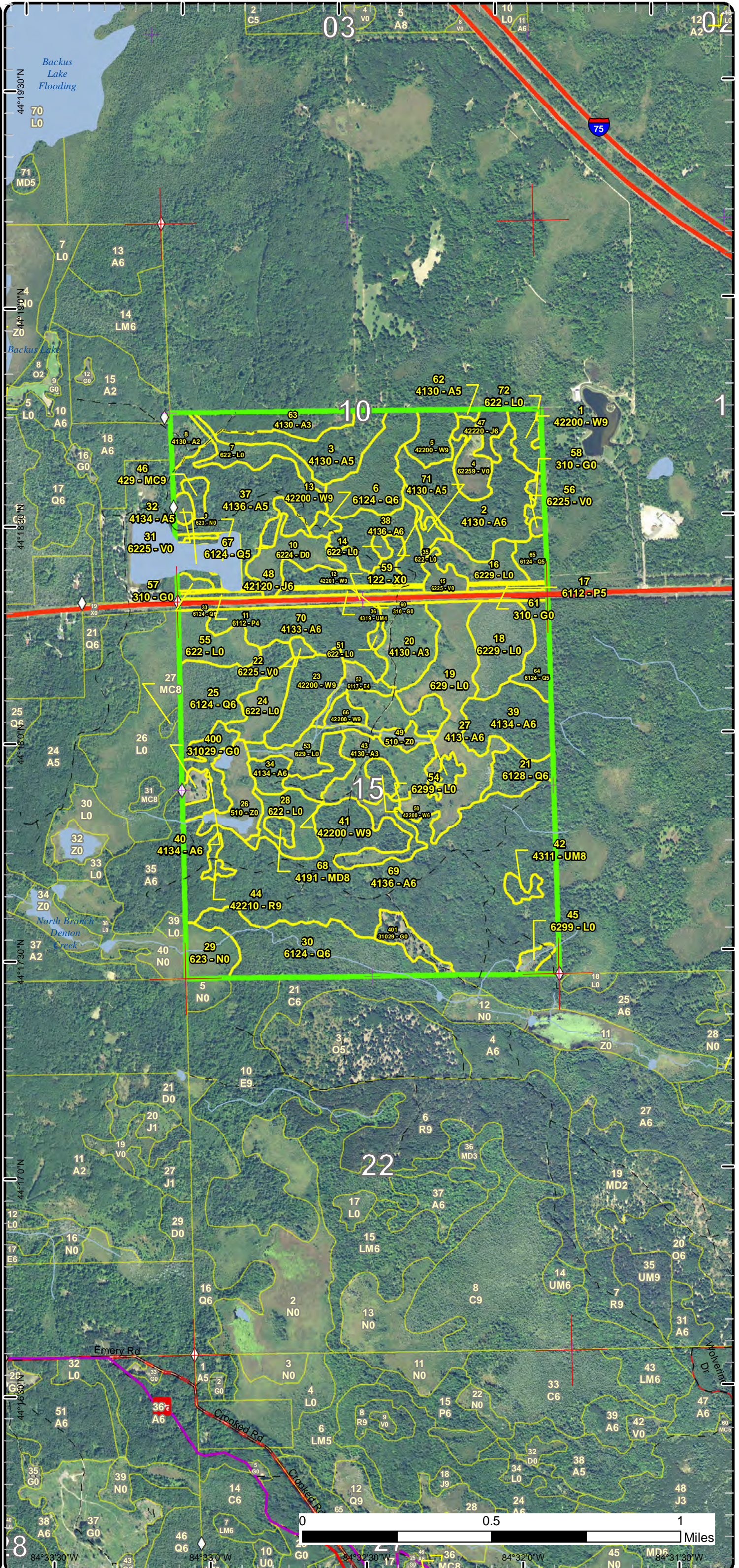
84°33'30"W 84°33'0"W 84°32'30"W 84°32'0"W 84°31'30"W

Stand Boundary Map

Compartment: 101
 T22N,R02W, Sec.10, 15
 County: Roscommon
 Unit: Roscommon
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 YOE: 2019
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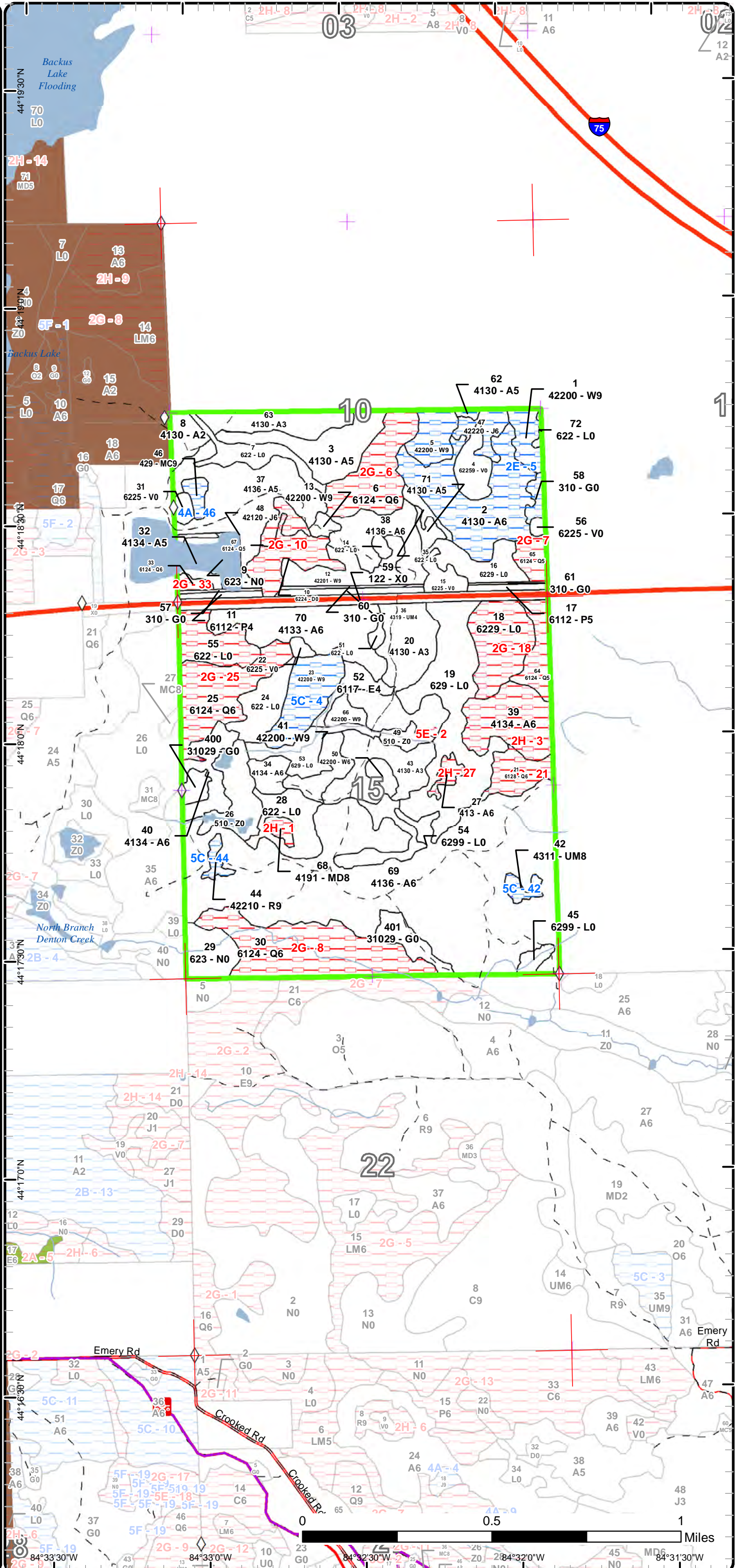
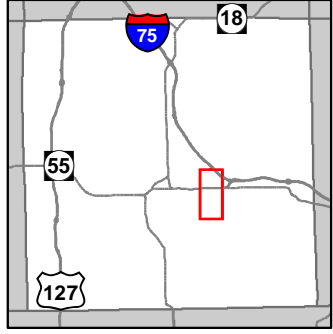


- Miris Corners
- + Remonumented Section Corners
- ◇ Field Grade GPS Corners
- Counties
- ORV Routes
- Designated ATV
- Designated ORV Route
- Designated Snowmobile Trails
- Highway
- County Gravel Roads
- County Poor Dirt Roads
- Poor Dirt Roads
- Streams
- Lakes and Rivers All
- Compartment Boundary
- Stand Boundaries
- 413 - Aspen
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Special Conservation Areas & Site Conditions Map

Compartment: 101
 T22N,R02W, Sec.10, 15
 County: Roscommon
 Unit: Roscommon
 Mgmt Area: Upper Muskegon
 YOE: 2019
 Acres: 938.6 GIS Calculated
 Examiner: Dale Ekdorn
 Map Revised: 8/2/2017
 Map Phase: Review



- Miris Corners
- Remonumented Section Corners
- Field Grade GPS Corners
- Counties
- ORV Routes
- Designated ATV
- Designated ORV Route
- Designated Snowmobile Trails
- Highway
- County Gravel Roads
- County Poor Dirt Roads
- Poor Dirt Roads
- Streams
- Lakes and Rivers All
- Compartment Boundary
- Available w/ Constraints
- Unavailable
- 2E: Road needed
- 4A: No Markets Available for these Forest Products
- 5C: Delay treatment for age/size class diversity or exceptional site quality
- 2G: Too wet (sensitive soils, does not include access issues)
- 2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)
- 5E: Long-Term Retention
- Stand Boundaries
- Verified Type 2 Old Growth
- Wildlife Management Areas

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	51	20	0	0	380	4	0	0	0	0	0	0	0	0	0	0	0	455
Bog	19	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	18
Herbaceous Openland	18	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	17
Jack Pine	0	0	0	0	0	13	0	0	0	0	0	0	0	0	0	0	0	0	13
Lowland Aspen/Balsam Poplar	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	2
Lowland Conifers	0	0	0	0	0	0	0	0	0	114	10	0	0	0	0	0	0	0	124
Lowland Deciduous	0	0	0	0	0	6	0	0	0	0	0	0	0	0	0	0	0	0	6
Lowland Shrub	156	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	156
Marsh	14	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	14
Mixed Upland Deciduous	0	0	0	0	0	0	0	0	0	3	0	0	0	0	0	0	0	0	3
Red Pine	0	0	0	0	0	0	0	0	0	3	0	0	0	0	0	0	0	0	3
Treed Bog	14	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	14
Upland Conifers	0	0	0	0	0	0	0	0	3	0	0	0	0	0	0	0	0	0	3
Upland Mixed Forest	0	0	0	0	0	4	0	0	3	0	0	0	0	0	0	0	0	0	7
Urban	17	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	17
Water	18	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	18
White Pine	0	0	0	0	0	0	0	0	30	9	27	0	0	0	0	0	0	0	66
Total	256	51	20	0	0	405	4	0	30	15	147	10	0	0	0	0	0	0	936



Report 2 – Treatment Summary

Roscommon Mgt. Unit
Year of Entry: 2019

Acres of Harvest

Compartment 101
Total Compartment Acres: 939

Commercial Harvest - 200
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	165	0	0	0	0	0	0	0	0	165
Jack Pine	6	0	0	0	0	0	0	0	0	6
White Pine	0	0	0	0	0	28	0	0	0	28
Total	171	0	0	0	0	28	0	0	0	200

Proposed and Next Step Treatments by Method

	Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current	200	0	0	0	0	0	0	11		211
Next Step	0	0	0	0	0	0	171	0	11	183
Total	200	0	0	0	0	0	171	0	22	393



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
3	71101003-Cut	20.3	4130 - Aspen	Poletimber Medium	42	Unspec ified	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	Proposal

Habitat Cut: No**Site Condition:**

Prescription final harvest for aspen management, mark up to 2 oak/pine per acre to leave for mast/diversity, mark oak in clumps of 3+ trees where feasible,
Specs: buffer wetland areas for retention where necessary for BMP's, use brush pile and drumming log spec especially along the east/south edges

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable any amount of aspen and other species

Regen:

Other areas that do not regenerate well to aspen will function as semi-open areas for wildlife habitat purposes

Comment:

Proposed Start Date: 10/01/2018

12	71101012-Cut	13.8	42201 - Natural White Pine, Mixed Deciduous	Sawtimber Well	97	171- 200	Harvest	Low Thinning	42201 - Natural White Pine, Mixed Deciduous	Even-Aged	Proposal
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Habitat Cut: No**Site Condition:**

Prescription Thin from below to 120 SF, remove hardwoods first and then thin pine to target BA

Specs:

Next Step

Treatments:

Acceptable

Regen:

Other

Comment:

Proposed Start Date: 10/01/2018

13	71101013-Cut	2.2	42200 - Natural White Pine	Sawtimber Well	87	171- 200	Harvest	Low Thinning	4220 - Natural White Pine	Even-Aged	Proposal
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Habitat Cut: No**Site Condition:**

Prescription Thin from below to 120 SF, Clean up hardwoods first and then thin pine to target BA

Specs:

Next Step

Treatments:

Acceptable

Regen:

Other

Comment:

Proposed Start Date: 10/01/2018

32	71101032-Cut	4.4	4134 - Aspen, Spruce/Fir	Poletimber Medium	52	Unspec ified	Harvest	Clearcut	413 - Aspen	Even-Aged	Proposal
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Habitat Cut: No**Site Condition:**

Prescription final harvest for aspen management, cut when dry or frozen, no retention due to small size of the stand, watch BMP's in the stand

Specs:

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable any type/amount of regeneration

Regen:

Other

Comment:

Proposed Start Date: 10/01/2018



Stand	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Approval Status
34	71101034-Cut	5.4	4134 - Aspen, Spruce/Fir	Poletimber Well	42	51-80	Harvest	Clearcut	413 - Aspen	Even-Aged	Proposal

Habitat Cut: No**Site Condition:**

Prescription final harvest for aspen management, no retention due to the small stand size, use brush pile and drumming log specs, leave oak for wildlife
Specs: mast/diversity

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

Acceptable any combination of aspen and other species to a fully stocked stand
Regen:

Other
Comment:

Proposed Start Date: 10/01/2018

37	71101037-Cut	39.2	4136 - Aspen, Mixed Conifer	Poletimber Medium	45	Unspecified	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	Proposal
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Habitat Cut: No**Site Condition:**

Prescription final harvest for aspen management, mark up to 2 pine per acre for diversity, leave all oak, leave part or all of the north and south arms for
Specs: retention, use drumming log and the brush pile spec along the wetland edges, buffer wet edges and interior wet pockets for retention and BMP's where appropriate

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

Acceptable any combination of aspen and other species to a fully stocked stand
Regen:

Other
Comment:

Proposed Start Date: 10/01/2018

38	71101038-Cut	18.3	4136 - Aspen, Mixed Conifer	Poletimber Well	45	51-80	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	Proposal
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Habitat Cut: No**Site Condition:**

Prescription final harvest for aspen management, mark up to 2 pine /AC for diversity, leave all oak for mast, line out two 1/2 acre islands along M-55 and the
Specs: forest two-track for retention, use drumming log and brush pile spec especially along the north and east edges, buffer around/along wet edges for retention/BMP's

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

Acceptable any combination of aspen and other species to a fully stocked stand
Regen:

Other
Comment:

Proposed Start Date: 10/01/2018

40	71101040-Cut	11.3	4134 - Aspen, Spruce/Fir	Poletimber Well	45	Unspecified	Harvest	Clearcut	413 - Aspen	Even-Aged	Proposal
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Habitat Cut: No**Site Condition:**

Prescription final harvest for aspen management, will need to cross 2 small drains to get to the main stand and the north 1/3 of the stand, extend cut into
Specs: compt 71103 (west and south of the grassy opening).

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

Acceptable Any combination of aspen and other species to a fully stocked stand
Regen:

Other use brush pile and drumming log spec adjacent to wetland areas, mark oak and pine especially along the grassy opening to leave for diversity
Comment: and mast. no retention due to small size of the stand, buffer wet edges for BMP's as appropriate, protect opening by cutting during snow-on conditions

Proposed Start Date: 10/01/2018



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
41	71101041-Cut	8.3	42200 - Natural White Pine	Sawtimber Well	77	111- 140	Harvest	Crown Thinning	4220 - Natural White Pine	Even-Aged	Proposal

Habitat Cut: No**Site Condition:**

Prescription crown thin by cutting all aspen/red maple and marking to cut where the pine is heavier, thin pine to 80 SF

Specs:

Next Step

Treatments:

Acceptable

Regen:

Other

Comment:

Proposed Start Date: 10/01/2018

48	71101048-Cut	6.3	42120 - Planted Jack Pine	Poletimber Well	48	Unspec ified	Harvest	Clearcut	4222 - Natural Jack Pine	Even-Aged	Proposal
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Habitat Cut: No**Site Condition:**

Prescription final harvest for jack pine management, leave tops for a seed source, cut when dry or frozen, no retention due to small size of stand, will need to

Specs: watch BMP's in this stand

Next Step

Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable

Any amount/type of regeneration

Regen:

Other

Comment:

Proposed Start Date: 10/01/2018

66	71101066-Cut	3.9	42200 - Natural White Pine	Sawtimber Well	77	111- 140	Harvest	Crown Thinning	4220 - Natural White Pine	Even-Aged	Proposal
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Habitat Cut: No**Site Condition:**

Prescription crown thin by removing A/RM and marking heavy pine areas to a residual of 80-90 SF

Specs:

Next Step

Treatments:

Acceptable

Regen:

Other

Comment:

Proposed Start Date: 10/01/2018

69	71101069-Cut	66.2	4136 - Aspen, Mixed Conifer	Poletimber Well	42	51-80	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	Proposal
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Habitat Cut: No**Site Condition:**

Prescription final harvest for aspen management, leave all oak for wildlife mast, mark up to 2 R/W pine per acre for diversity, use brush pile spec and

Specs: drumming log spec, paint out wetter areas with a buffer and use for retention

Next Step

Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable

Any combination of aspen and other species to a fully stocked stand

Regen:

Other

extend cut into 71121 for a few acres on the road loop

Comment:

Proposed Start Date: 10/01/2018



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
400	71101400-NF	3.4	31029 - Grass (OI)	Nonstocked			NonForestMgt	Mowing	310 - Herbaceous Openland		Proposal

Habitat Cut: No**Site Condition:**

Prescription Mow, cultivate, fertilize, seed as required to maintain established Wildlife Opening, Denton Creek 17.

Specs:

Next Step NonForestMgt, Mowing

Treatments:

Acceptable

Regen:

Other

Comment:

Proposed Start Date: 10/01/2018

401	71101401-NF	7.8	31029 - Grass (OI)	Nonstocked			NonForestMgt	Mowing	310 - Herbaceous Openland		Proposal
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Habitat Cut: No**Site Condition:**

Prescription Mow, cultivate, fertilize, seed as required to maintain established Wildlife Opening, Denton Creek 18.

Specs:

Next Step NonForestMgt, Mowing

Treatments:

Acceptable

Regen:

Other

Comment:

Proposed Start Date: 10/01/2018

**Total Treatment
Acreage Proposed: 210.8**

Report 4 – Site Conditions

Roscommon Mgt. Unit

Dale Ekdom : Examiner

Compartment: 101

Year of Entry: 2019

Availability for Management

Total Acres	Acres Available	Acres Avail		Dominant Site Conditions	Dominant Site Conditions					
		With Condition	Not Available		2E	4A	5C	2G	2H	5E
456	389	40	27	Aspen	40			0	26	1
18	18	0	0	Bog				0		
18	15	3	0	Herbaceous Openland	3					
13	6	6	0	Jack Pine	6					
4	4	0	0	Lowland Aspen/Balsam Poplar						
123	0	0	123	Lowland Conifers				123		
6	6	0	0	Lowland Deciduous						
156	66	0	90	Lowland Shrub				90		
14	14	0	0	Marsh						
3	0	0	3	Mixed Upland Deciduous					3	
3	0	3	0	Red Pine			3			
14	0	0	14	Treed Bog				14		
3	0	3	0	Upland Conifers		3				
7	4	3	0	Upland Mixed Forest			3			
17	17	0	0	Urban						
18	18	0	0	Water						
66	32	34	0	White Pine	16		18	0		
939	590	92	257	Total Forested Acres	66	3	23	227	29	1
	63%	10%	27%	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	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	3	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
2	Unavailable	5E: Long-Term Retention	1	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

Roscommon Mgt. Unit

Compartment: 101

Dale Ekdorn : Examiner

Year of Entry: 2019

3	Unavailable	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	23	Unspecified	Unspecified	Unspecified	Unspecified
Comments: blocked by lowland brush stand on state land to the west and conifer swamps on PVT property to the east							
4	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	18	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
5	Available	2E: Road needed	66	2B: Unknown if access through adjacent landowner(s) is possible	Unspecified	Unspecified	Unspecified
Comments:							
6	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	23	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
7	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	5	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

Roscommon Mgt. Unit

Compartment: 101

Dale Ekdor : Examiner

Year of Entry: 2019

8	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	43	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
10	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	18	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
18	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	30	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
21	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	10	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
25	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	40	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

Roscommon Mgt. Unit

Compartment: 101

Dale Ekdorn : Examiner

Year of Entry: 2019

27	Unavailable	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	3	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
33	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	2	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
42	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	3	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
44	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	3	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
46	Available	4A: No Markets Available for these Forest Products	3	4A: No Markets Available for these Forest Products	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



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	42200 - Natural White Pine	Sawtimber Well	7.0	87	171-200	nice W9 stand with mostly WP but also has some scattered RP and HW's, south end is more open with bigger trees and more encroaching hardwoods, no access w/o extensive road building due to low/wet terrain and private property
2	4130 - Aspen	Poletimber Well	39.3	42	Unspecified	upland stand but it is cut off by low/wet terrain and private property, mix of BTA and TA with other species, spots are fairly sparse, scattered area with pockets of J6, some spots heavy to either WP or BF in the under-story, hold until next YOE and cut with surrounding stands
3	4130 - Aspen	Poletimber Medium	20.3	42	Unspecified	MIX OF BTA/QA WITH SCATTERED OAK/RM, ALSO SOME PINE, east 1/4-13rd is fairly open and has less aspen and more oak and RM, consider cutting now for aspen age class balance in the compt/mgt area
5	42200 - Natural White Pine	Sawtimber Well	9.4	97	171-200	Decent W9 stand, growing well but some evidence of past weeviling with double tops, etc., fairly open understory except in a few spots where there is heavy WP saps, north end is heavier to RP (R9), recommend holding until next YOE and thinning at that time when the surrounding stands are treated, access is poor due to wet terrain and PVT property but some road building across a wet drainage would open up access to this and other stands
6	6124 - Lowland Spruce-Fir	Poletimber Well	23.3	97	51-80	Spruce/BF/Tamarack with cedar, spongy ground with standing water in spots, some higher ground but only in small pockets randomly scattered thru-out stand, spots heavy to E3 or "L"
8	4130 - Aspen	Sapling Medium	6.3	16	Immature	OPIC - FMD: most high GROUND IS A3, LOWER GROUND is more open
11	6112 - Lowland Aspen	Poletimber Poor	2.2	42	1-50	OPIC - FMD: WET ASPEN STAND BETWEEN POWERLINE R.O.W. AND M-55, BALSAM POPLAR AND T. ASPEN, SCATTERED WHITE PINE, MAINTAIN AS BUFFER FOR M-55
12	42201 - Natural White Pine, Mixed Deciduous	Sawtimber Well	13.8	97	171-200	W9 WITH SOME AREAS HEAVY TO HARDWOODS (M9), SCATTERED WET "L" AREAS ALSO,
13	42200 - Natural White Pine	Sawtimber Well	2.2	87	171-200	POCKET OF WHITE PINE Saw Logs, Thin from below to 120 SF, Clean UP hardwoods first and then thin pine to target BA
17	6112 - Lowland Aspen	Poletimber Medium	2.2	45	1-50	BALSAM POPLAR AND T. ASPEN, NARROW STRIP, MAINTAIN AS BUFFER FOR M-55, More "L" Type on the west 1/2 of the stand
20	4130 - Aspen	Sapling Well	31.0	6	Immature	CUT JAN 2011- NOW A3
21	6128 - Lowland Coniferous, Mixed Deciduous	Poletimber Well	9.9	97	51-80	wet swamp, heavily influenced by beaver activity



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
23	42200 - Natural White Pine	Sawtimber Well	17.9	77	171-200	similar to Stand #66 to the east but has heavy WP understory thru-out the stand and more HW's, parts are W9, or W6, or W3 in turn with scattered solitary aspen and small aspen clones thru-out, WP under-story is almost pole size in most spots, there are some legacy-size WP in this stand, recommend holding stand until next YOE and then thinning when the under-story is more merchantable, no access w/o some road building/stream-crossing construction thru swale to the east (Stand 52) although access might be gained thru Stand 70 to the north
25	6124 - Lowland Spruce-Fir	Poletimber Well	25.7	97	51-80	very wet swamp, some dead trees due to fluctuating water levels from beaver activity, lots of areas heavy to tag alder
27	413 - Aspen	Poletimber Well	3.0	42		No access due to terrain, island of aspen surrounded by lowland brush
30	6124 - Lowland Spruce-Fir	Poletimber Well	42.8	97	51-80	wet swamp, floodplain of N. Br. Denton Creek, very wet on the south end
32	4134 - Aspen, Spruce/Fir	Poletimber Medium	4.4	52	Unspecified	part of a barrow pit/wetland mitigation area for M-55, north end is a high dike and is not operable, south end is upland but with the water table close to the surface, west side of the stand is somewhat lower/wetter, mix of aspen/bam, red maple, white birch, and balsam fir, still fairly small yet in diameter - slow growing due to fluctuations in the water table? Cut or hold as desired
33	6124 - Lowland Spruce-Fir	Poletimber Well	2.0	97	51-80	wet swamp with fluctuating water levels, some dead trees due to fluctuations, mostly spruce-fir with scattered WP XL's, pockets of cedar and scattered swamp hardwoods, tag alder under-story, starting to stagnate but too wet and too small to do anything with treatment-wise
34	4134 - Aspen, Spruce/Fir	Poletimber Well	5.4	42	51-80	mix of BTA on the upland and TA on the lower ground, BF scattered thru-out stand and heavy in spots, has at least one wetter pothole in the interior and the N/W/S edges are wetter, aspen is still fairly small yet but it is probably worth cutting if the WP stand to the east is treated also
36	4319 - Mixed Upland Forest	Poletimber Poor	4.1	42	51-80	OPIC - FMD: ASPEN STAND BETWEEN POWERLINE R.O.W. AND M-55, BALSAM POPLAR AND T. ASPEN, SCATTERED WHITE PINE SAWLOGS AND LARGE WOLFY OAKS, MAINTAIN AS BUFFER FOR M-55
37	4136 - Aspen, Mixed Conifer	Poletimber Medium	39.2	45	Unspecified	decent mix of BTA and QA thru-out stand, north end is more sparse, slightly wetter, and heavier to conifer with scattered wet potholes of "L" and "V" , middle part is solid A6, south arm is somewhat less dense but still has aspen, consider cutting now to balance aspen age class distribution within the compt and mgt area
38	4136 - Aspen, Mixed Conifer	Poletimber Well	18.3	45	51-80	SOME WETTER AREAS WITH T.A./LOWLAND BRUSH, SCATTERED PINE AND BALSAM FIR thru-out, consider cutting now for aspen age class distribution in the compt/mgt area



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
39	4134 - Aspen, Spruce/Fir	Poletimber Well	23.0	45	Unspecified	LOTS OF SCATTERED WP & BF POLES AND SAPS, NO ACCESS DUE TO BEAVER FLOODINGS/PRIVATE PROPERTY/SWAMPS
40	4134 - Aspen, Spruce/Fir	Poletimber Well	11.3	45	Unspecified	MIX OF BTA/QA WITH SCATTERED OAK/PINE SAWLOGS AND CONIFER POLES,
41	42200 - Natural White Pine	Sawtimber Well	8.3	77	111-140	mix of small A6 clones with scattered WP interspersed with areas of W9 with scattered hardwoods, thinning by removing the hardwoods and marking pine would regenerate the aspen and keep pine on the landscape in this compartment which is heavy to aspen.
42	4311 - Pine, Aspen Mix	Sawtimber Medium	2.9	88	111-140	XL RP with some XL WP, mid-canopy of pole-size aspen/red maple, not much understory, hold and cut with surrounding aspen or use as retention next YOE
43	4130 - Aspen	Sapling Well	19.8	6	Immature	OPIC - FMD: YOUNG A6 STAND BUT WORTH CUTTING TO GET BETTER ASPEN DISTRIBUTION, WEST LINE MAY CHANGE BASED ON MERCHANTABILITY OF ASPEN WEST OF THE TWO-TRACK, MARK OAK TO LEAVE FOR MAST WHERE POSSIBLE, ANY COMBINATION OF A/O/RM TO A FULLY STOCKED STAND IS ACCEPTABLE REGENERATION - CUT JAN - MARCH 2011, DEE
44	42210 - Natural Red Pine	Sawtimber Well	2.6	97	81-110	THINNED MARCH 2011 - DEE, final harvest and re-plant, retain, or try for natural regeneration
46	429 - Mixed Upland Conifers	Sawtimber Well	3.1	88	51-80	over-story is RP SL/XL's with mid-canopy hardwoods and conifer poles, terrain is upland but with numerous lower and wetter pockets - especially the N and W edges, stand looks like it was cut at some point and they left the RP, north end is heavy to RP poles, wet pockets are heavy to BS/BF poles
47	42220 - Natural Jack Pine	Poletimber Well	6.3	40	Unspecified	J6 but somewhat sparse in a few spots, scattered hardwoods and red pine, jack pine is healthy but still fairly small and needs to grow another 10 years at least prior to final harvest
48	42120 - Planted Jack Pine	Poletimber Well	6.3	48	Unspecified	J6 planted in an old barrow pit for M-55, some indications that this might have been the old twp dump also, water table is close to the surface, jack pine starting to fall apart and thin itself out, lots of blowdown, harvest but leave tops for a seed source?
50	42200 - Natural White Pine	Poletimber Well	3.4	97	81-110	OPIC - FMD: NATURAL WHITE PINE STAND, THIN TO 120 SF BY REMOVING HARDWOODS, MAY NEED TO MARK SOME WHITE PINE FOR ACCESS - CUT JAN-MARCH 2011 - DEE
52	6117 - Lowland Deciduous, Mixed Coniferous	Poletimber Poor	5.8	42	1-50	broad drainage with RM/TA and BF, tag alder under-story, areas heavy to BF saps or standing water, flowing stream
62	4130 - Aspen	Poletimber Medium	0.9	42	Unspecified	nice aspen stand but somewhat sparse in spots, hold until next YOE and then treat with surrounding stands



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
63	4130 - Aspen	Sapling Well	14.3	16	Immature	OPIC - FMD: MOSTLY A3 EXCEPT FOR THE NORTH-EAST PORTION ALONG PRIVATE WHERE IT IS SLIGHTLY WETTER TERRAIN AND WASN'T AS WELL STOCKED WHEN CUT
64	6124 - Lowland Spruce-Fir	Poletimber Medium	9.7	107	Unspecified	heavily impacted by fluctuating water levels due to beaver activity
65	6124 - Lowland Spruce-Fir	Poletimber Medium	5.4	91	Unspecified	fluctuating water table due to heavy beaver activity, very wet most of the year
66	42200 - Natural White Pine	Sawtimber Well	3.9	77	111-140	WP L-P-X interspersed with areas heavy to BTA and scattered pine, upland but west edge falls off into a low drainage which will need a culvert/fill for trucks but could be filled with crane-mats and crossed with woods equipment, thin by removing A/RM marking to cut in areas heavy to pine
67	6124 - Lowland Spruce-Fir	Poletimber Medium	4.7	97	1-50	spruce bog with spongy soils and fairly wet, mostly spruce/fir but has scattered pine and hardwoods
68	4191 - Mixed Upland Deciduous with Conifer	Sawtimber Medium	2.7	97	51-80	WP super-canopy trees scattered thru-out, mid canopy of RM/TA and some BF poles, sub-canopy of almost pole-size RM/BF, no access as stand is an island of somewhat higher ground surrounded by low/wet terrain
69	4136 - Aspen, Mixed Conifer	Poletimber Well	186.5	42	51-80	mix of BTA and TA, parts heavy to oak/pine, wetter parts are heavy to balsam fir and other swamp conifers, scattered wet pockets/swales thru-out, look to regenerate approx. 1/3rd of this stand this YOY concentrating on the most merchantable areas
70	4133 - Aspen, Mixed Pine	Poletimber Well	30.5	42	81-110	mostly upland and BTA but some TA in the lower/wetter swales and potholes, scattered WP SL's and XL's, not much oak in this stand, parts of the understory are filling in with either BF or WP saplings, good stand to hold as it is mostly BTA
71	4130 - Aspen	Poletimber Medium	2.7	42	1-50	A6 stand in a broad drainage area, lots of small/wet pockets in the interior separated by somewhat higher ground, slow growing due to high water table



Stand	Cover Type	Acres	Managed Site	General Comments:
4	62259 - Bog (OI)	8.2	No	OPIC - FMD: OI Stand Year Origin was
7	622 - Lowland Shrub	9.9	No	OPIC - FMD: LOWLAND BRUSH WITH "Q" AND "E" TYPES ON THE EDGES, N.W. PART HAS FLOWING STREAM
9	623 - Emergent Wetland	3.3	No	Standing water and cat-tails, rimmed by 4-6 rows of planted jack pine
10	6224 - Treed Bog	13.6	No	SPRUCE BOG/WET/PARTS ARE "P"
14	622 - Lowland Shrub	1.5	No	
15	6225 - Bog	5.0	No	BOG WITH ENCROACHING SPRUCE, PINE, FIR, AND SOME H.W.'S, BEAVER ACTIVITY
16	6229 - Mixed lowland shrub	11.5	No	Stand Year Origin was 1926, fluctuating water table which is heavily impacted by beaver, parts are treed but most just has scattered trees with lowland brush
18	6229 - Mixed lowland shrub	20.8	No	LOTS OF DEAD TREES DUE TO FLUCTUATING WATER LEVELS FROM BEAVER ACTIVITY, Stand is now mostly "L"
19	629 - Mixed non-forested wetland	45.7	No	LOWLAND BRUSH TYPE GREATLY EXPANDED BY HEAVY BEAVER ACTIVITY
22	6225 - Bog	1.6	No	OPIC - FMD: OI Stand Year Origin was
24	622 - Lowland Shrub	11.9	No	lowland brush with scattered trees, parts - especially the edges where it is somewhat higher ground - are E3 or F3
26	510- Water (OI)	14.5	No	BEAVER POND WITH "L" ON EDGES
28	622 - Lowland Shrub	13.2	No	lowland shrub stand, drier parts are E3 with RM/WB and scattered BF regeneration which is 20+ feet tall
29	623 - Emergent Wetland	11.1	No	OPIC - FMD: FLOODPLAIN OF N. BRANCH OF DENTON CREEK
31	6225 - Bog	2.4	No	BOG WITH ENCROACHING SPRUCE/PINE/FIR
35	622 - Lowland Shrub	2.6	No	"L" with E3 in spots especially on the edges, broad drainage area
45	6299 - Lowland Shrub (OI)	2.9	No	



Stand	Cover Type	Acres	Managed Site	General Comments:
49	510- Water (OI)	3.6	No	BEAVER POND
51	622 - Lowland Shrub	1.4	No	Small wet pothole with tag alder
53	629 - Mixed non-forested wetland	10.6	No	BROAD DRAINAGE WITH HEAVY BEAVER ACTIVITY AND SCATTERED TREES
54	6299 - Lowland Shrub (OI)	8.8	No	BROAD DRAINAGE WITH HEAVY BEAVER ACTIVITY AND SCATTERED TREES
55	622 - Lowland Shrub	14.0	No	WET SWAMPY STAND, SOME DEAD TREES DUE TO FLUCTUATING WATER LEVELS FROM BEAVER ACTIVITY
56	6225 - Bog	1.1	No	
57	310 - Herbaceous Openland	1.0	No	POWERLINE R.O.W., parts are more wet meadow
58	310 - Herbaceous Openland	3.0	No	NON-MAINTAINED OPENING AGAINST PRIVATE PROPERTY, ENCROACHING HARDWOODS AND CONIFERS
59	122 - Road/Parking Lot	17.2	No	M-55 ROW, paved portion of road plus grassy shoulders, also contains power and pipe-line ROW
60	310 - Herbaceous Openland	1.7	No	POWERLINE R.O.W.
61	310 - Herbaceous Openland	0.8	No	POWERLINE R.O.W.
72	622 - Lowland Shrub	0.7	No	lowland brush with areas of E3, wet spongy ground with standing water in the lowest areas
400	31029 - Grass (OI)	3.4	Yes	MAINTAINED OPENING
401	31029 - Grass (OI)	7.8	Yes	MAINTAINED OPENING