



Compartment Review Presentation

Roscommon Forest Management Unit

Compartment 71028

Entry Year 2017

Acreage: 831

County Roscommon

Management Area: Upper Muskegon

Revision Date: 2015-08-05

Stand Examiner: Dale Ekdom

Legal Description:

T24N R4W Sections 27 and 34

Identified Planning Goals:

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

Soil and topography:

Terrain is flat in the south portion of the compartment and the north portion is gently rolling hills. Soils in the uplands are Grayling and Roselawn sand with some Rubicon sand. Lowlands are composed of Rifle peat.

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

Compartment is a fairly consolidated block of state land and is 3/4's surrounded by state land. Approximately 400 acres of the two sections is in private landholdings. Private parcels range in size from 15 acres to as small as one acre and consist of both seasonal and permanent residences. The compartment is bisected north to south by US-127.

Unique Natural Features:

Hill's Thistle has been identified in the compartment and Calypso orchid is in the area.

Archeological, Historical, and Cultural Features:

None known or detected during fieldwork

Special Management Designations or Considerations:

Deadstream Swamp National Natural Landmark is directly to the west of this compartment and the compartment does contain un-dedicated portions of the Deadstream Swamp.

Watershed and Fisheries Considerations:

The compartment contains a walleye rearing pond in the southwest quarter of section 27.

Wildlife Habitat Considerations:

Maintain ecosystem diversity in the compartment via habitat manipulation to benefit both game and non-game species.

Mineral Resource and Development Concerns and/or Restrictions

Surface sediments consist of peat and muck and glacial outwash sand and gravel. The glacial drift thickness varies between 200 and 600 feet. Beneath the glacial drift is the Mississippian Michigan Formation. The Michigan is quarried for gypsum in other areas of the state. Most of the good gravel pits are associated with upland areas. There are gravel pits one mile to the east in section 23, 24, and 25, and potential appears to be good in upland areas. East Norwich Field is located about three miles to the northwest and Enterprise Field is just over three miles to the southwest. Both fields have produced oil and gas from the Devonian Richfield Member. They are in secondary recovery operations currently. All of the State land in the compartment is currently under lease for oil and gas exploration and development.

Vehicle Access:

Vehicle access to this compartment is excellent via mostly County road but there are several seasonal County Roads and a few forest roads also.. Access to the walleye rearing pond is controlled with a gate.

Survey Needs:

None known at this time.

Recreational Facilities and Opportunities:

There is a designated Snowmobile / ORV trailhead parking lot in the adjacent compartment to the West, as well as an MDOT commuter lot East of US-127. Dispersed recreational within the compartment occurs throughout the parcel for hiking, bird watching, berry / mushroom picking. Beyond the safety zone of roads hunters utilize the compartment for deer, rabbit, and other game species.

Fire Protection:

This compartment has little in the way of hazardous fuels and has good access for fire suppression forces.

Additional Compartment Information:

Proposed treatments include 86 acres of final harvests in aspen and oak, 31 acres of red pine thinnings, and 7 acres of opening maintenance.

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:

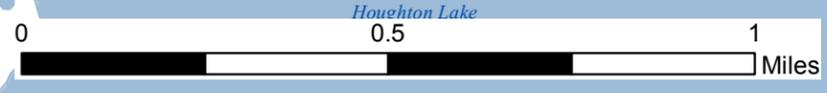
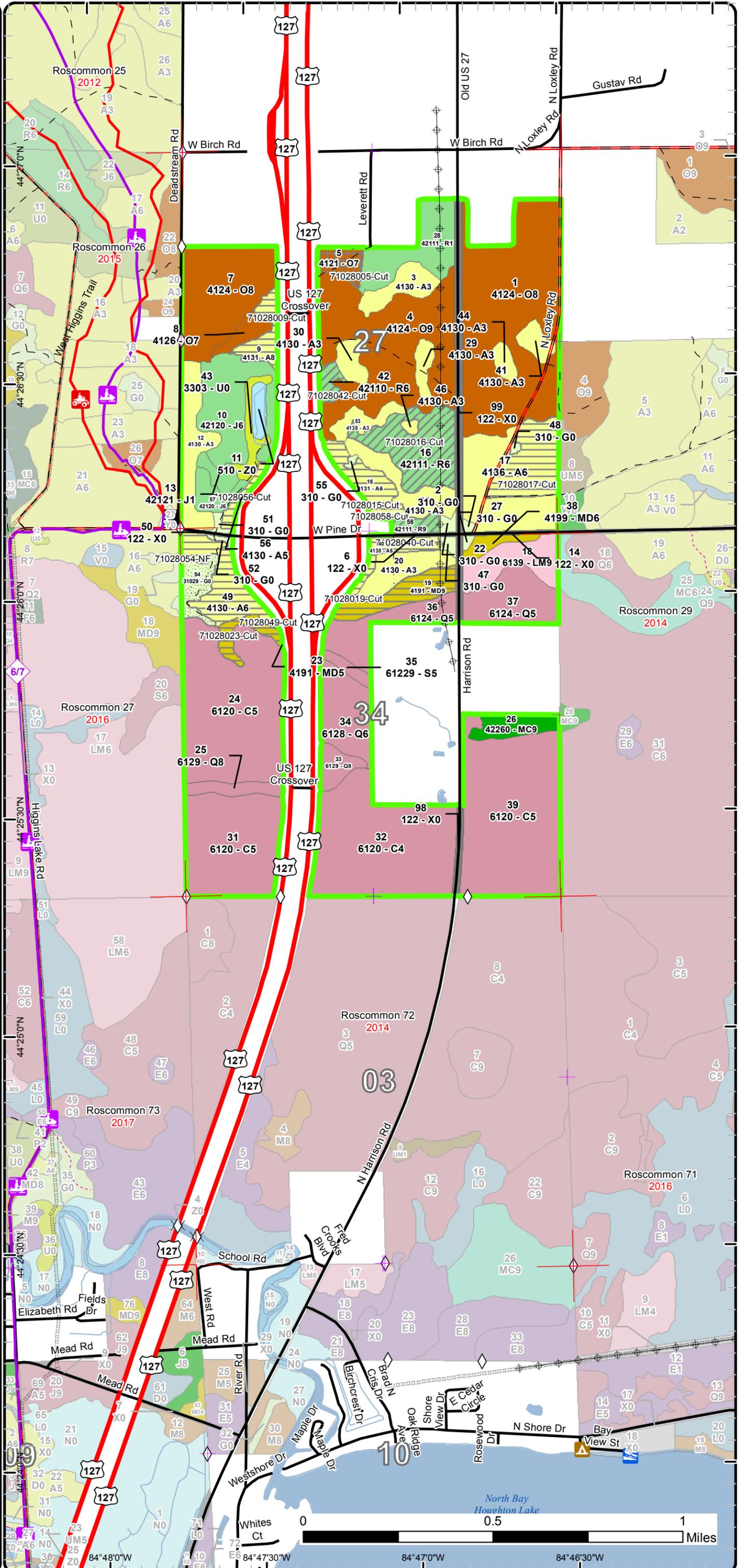
- Base feature information, stand boundaries, cover types, and numbers**
- Proposed treatments**
- Site condition boundaries**
- Details on the road access system**

Cover Type & Treatments

Compartment: 28
 T24N R04W 27, 34
 County: Roscommon
 Unit: Roscommon
 Mgmt Area: Upper Muskegon
 YOE: 2017
 Acres: 831 GIS Calculated
 Examiner: Dale Ekdorn
 Map Revised: 8/7/2015
 Map Phase: Pre-Review



- ✚ Remonumented Section Corner
- ◇ Field Grade GPS Corners
- Miris Corners
- Highway
- Paved Roads
- County Gravel Roads
- Poor Dirt Roads
- County Poor Dirt Roads
- Trail (Non-Recreation)
- Bridges
- 🚤 Boating Access Site
- 🏕️ Campground
- P Parking Lot
- 🛵 ORV Trails
- 🏂 Snowmobile Trails
- Designated ATV
- Designated Snowmobile Trails
- Rivers
- Lakes
- Pipeline
- Powerline
- Treatments
- Clearcut (w/Reserves)
- Mowing
- Thinning (Crown, Low, Systematic)
- Seed Tree (w/Reserves)
- Forest Covertype
- 412 - Oak Types
- 413 - Aspen
- 419 - Mixed Upland Deciduous
- 421 - Planted Pines
- 422 - Natural Pines
- 612 - Lowland Coniferous Forest
- 613 - Lowland Mixed Forest
- Non-Forest Covertype
- 122 - Roads/Parking Lot
- 310 - Herbaceous Openland
- 330 - Low Density Trees
- 500 - Water



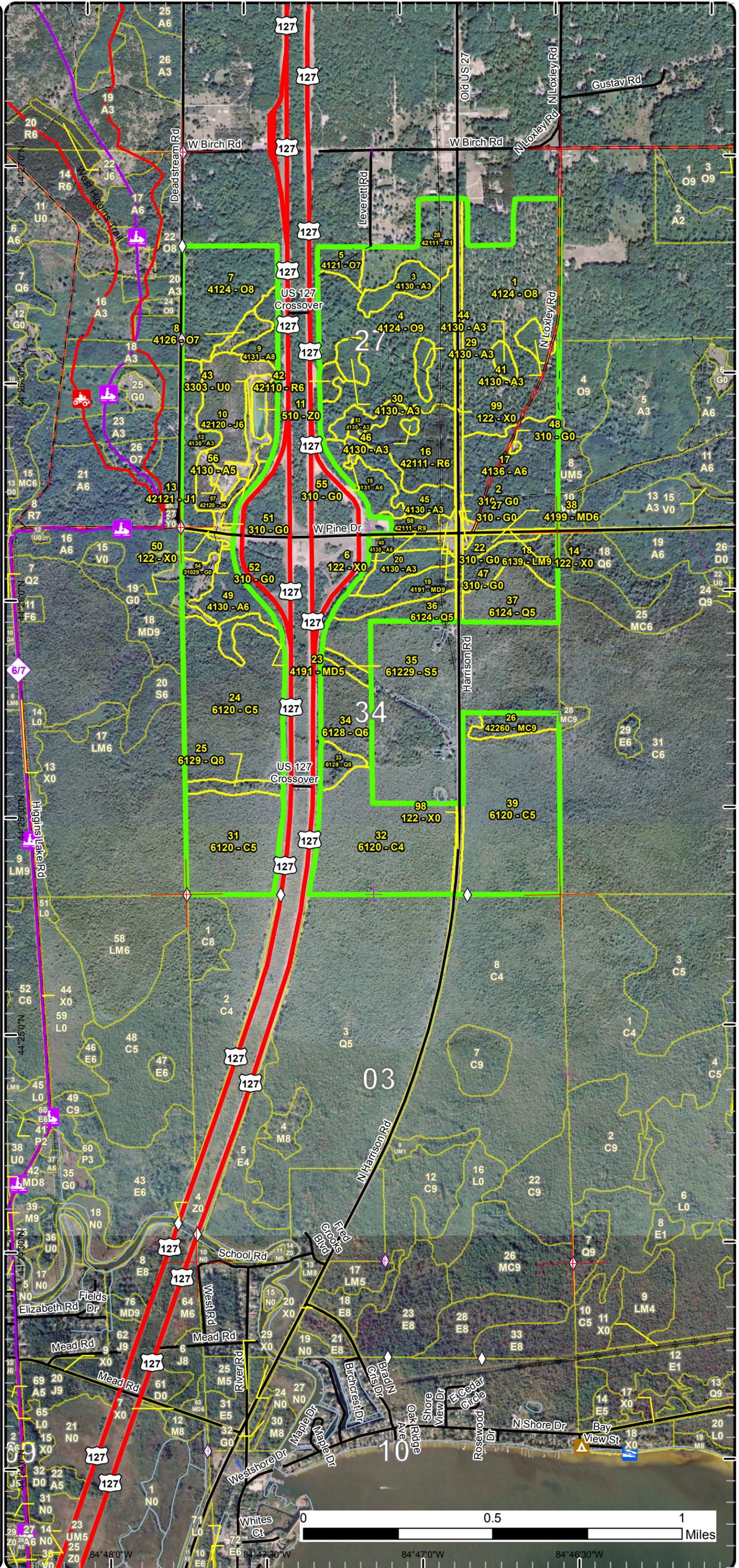
84°48'0"W 84°47'30"W 84°46'30"W

Stand Boundary Map

Compartment: 28
 T24N R04W 27, 34
 County: Roscommon
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- Remonumented Section Corner
- Field Grade GPS Corners
- Miris Corners
- Highway
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Special Conservation Areas & Site Conditions Map

Compartment: 28
 T24N R04W 27, 34
 County: Roscommon
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- Remonumented Section Corner
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- Highway
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- County Poor Dirt Roads
- Trail (Non-Recreation)
- Bridges
- Boating Access Site
- Campground
- Parking Lot
- ORV Trails
- Snowmobile Trails
- Designated ATV
- Designated Snowmobile Trails**
- Designated Snowmobile Trails
- Rivers
- Pipeline
- Powerline
- Stand Boundaries
- Site Condition**
- Available w/ Constraints
- Unavailable

Available Factors W/ Constraints

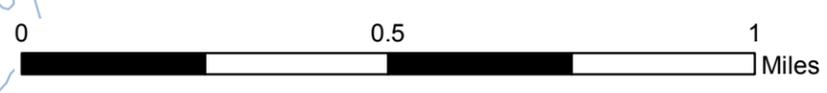
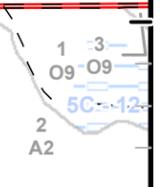
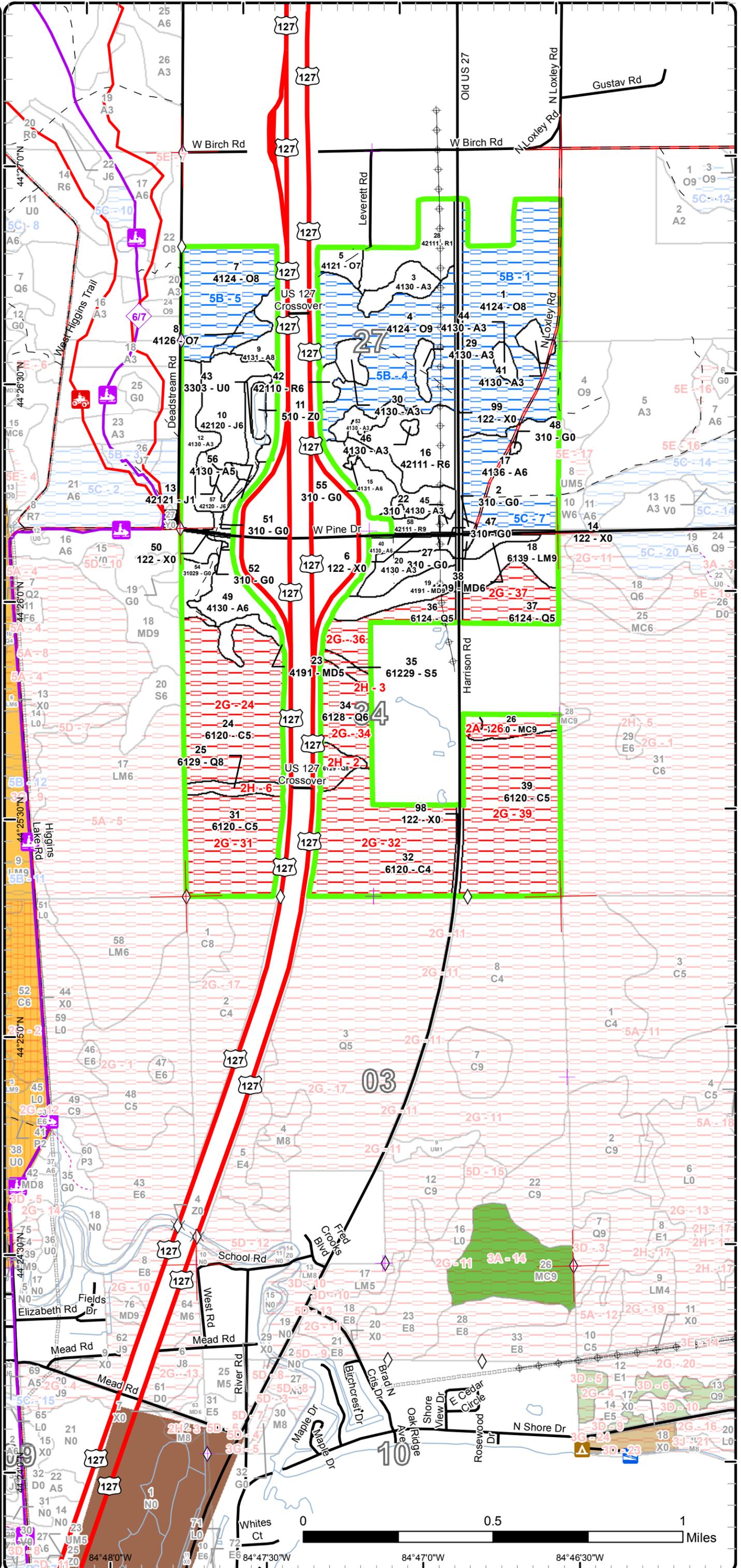
- 5B: Maintain for regeneration purposes
- 5C: Delay treatment for age/size class diversity or exceptional site quality

Unavailable Factors

- 2A: Adjacent landowner denied access
- 2G: Too wet (sensitive soils, does not include access issues)
- 2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)

Special Conservation Areas

- Non-Dedicated Natural Areas and National Natural Landmarks
- Verified Type 1 Old Growth
- Wildlife Management Areas
- State Forest Campground
- Recreational/Scenic Value Area



84°48'0"W 84°47'0"W 84°46'30"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	0	46	23	0	80	0	0	0	0	7	0	0	0	0	0	0	0	156
Cedar	0	0	0	0	0	0	0	0	0	0	0	0	244	0	0	0	0	0	244
Herbaceous Openland	13	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	13
Jack Pine	0	0	0	0	0	9	26	0	0	0	0	0	0	0	0	0	0	0	35
Low-Density Trees	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6
Lowland Conifers	0	0	0	0	0	0	0	0	0	11	0	54	0	0	0	0	0	0	65
Lowland Mixed Forest	0	0	0	0	0	0	0	14	0	0	0	0	0	0	0	0	0	0	14
Lowland Spruce/Fir	0	0	0	0	0	0	0	0	3	0	0	0	0	0	0	0	0	0	3
Mixed Upland Deciduous	0	0	0	0	0	4	0	0	0	5	12	0	0	0	0	0	0	0	21
Natural Mixed Pines	0	0	0	0	0	0	0	0	0	0	0	8	0	0	0	0	0	0	8
Oak	0	0	0	0	0	0	0	0	0	192	0	0	0	0	0	0	0	0	192
Red Pine	0	19	0	0	0	0	31	0	0	0	0	0	0	0	0	0	0	0	50
Urban	20	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	20
Water	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3
Total	42	19	46	23	0	93	57	0	14	8	222	0	306	0	0	0	0	0	830



Report 2 – Treatment Summary

Roscommon Mgt. Unit
Year of Entry: 2017

Acres of Harvest

Compartment 28
Total Compartment Acres: 831

Commercial Harvest - 117
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	63	0	0	0	0	0	0	0	0	63
Mixed Upland Deciduous	18	0	0	0	0	0	0	0	0	18
Oak	0	0	0	6	0	0	0	0	0	6
Red Pine	0	0	0	0	0	31	0	0	0	31
Total	80	0	0	6	0	31	0	0	0	117

Proposed and Next Step Treatments by Method

	Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current	117	0	0	0	0	0	0	7	0	124
Next Step	0	0	0	0	0	86	0	7	0	93
Total	117	0	0	0	0	86	0	14	0	217



St 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
5	71028005-Cut	5.8	4121 - Oak, Aspen	Sawtimber Poor	95	1-50	Harvest	Seed Tree	4121 - Oak, Aspen	Even-Aged	Proposal

Habitat Cut: No**Site Condition:**

Prescription seed tree by marking up to 20 SF of large crowned oaks, especially WO, for a seed source, concentrate on marking oaks where aspen is scarce,
Specs: leave scattered red/white pine; residual oaks will also provide visual on the subdivision and US-127; no retention other than residual oaks due to the age and small size of the stand

Next Step
Treatments:

Acceptable Any combination of hardwoods and conifers to a fully stocked stand, plant red pine if a fully stocked stand does not result
Regen:

Other Old next step comments:
Comment:

Proposed Start Date: 10/1 /2016

9	71028009-Cut	7.5	4131 - Aspen, Oak	Sawtimber Medium	95	111- 140	Harvest	Clearcut	413 - Aspen	Even-Aged	Proposal
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Habitat Cut: No**Site Condition:**

Prescription final harvest and manage for aspen, leave all oak or mark oak to leave for mast and visual on US-127, dormant season cut, expand into St. #7
Specs: where possible, no retention of aspen due to age and desire to expand aspen into surrounding stands, access will be on an overgrown 2T thru St#7, landing will be on the edge of St #7,

Next Step
Treatments:

Acceptable any combination of hardwoods to a fully stocked stand, plant red pine if aspen regeneration fails
Regen:

Other Old next step comments:
Comment:

Proposed Start Date: 10/1 /2016

15	71028015-Cut	10.4	4131 - Aspen, Oak	Poletimber Well	45	Unspec ified	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	Proposal
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Habitat Cut: No**Site Condition:**

Prescription final harvest stand for aspen management and thin pocket of R6 to 120 SF/Acre, leave pockets/islands of O7O3 for retention, leave up to 1 SL
Specs: oak per acre for visual and wildlife mast, leave all un-marked R/W pine also for diversity and visual, harvest during snow-on conditions to limit damage to old twp. dump

Next Step
Treatments:

Acceptable any combination of hardwoods to a fully stocked stand
Regen:

Other use drumming log spec Old next step comments:
Comment:

Proposed Start Date: 10/1 /2016

16	71028016-Cut	24.4	42111 - Planted Red Pine, Mixed Deciduous	Poletimber Well	50	141- 170	Harvest	Low Thinning	4211 - Planted Red Pine	Even-Aged	Proposal
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Habitat Cut: No**Site Condition:**

Prescription low thinning to improve the quality of the stand, target BA is 120 SF/Acre, treatment acres will probably be less than stand acres as larger areas
Specs: of hardwood regeneration and areas with low BA in red pine should be excluded when the treatment boundary is established - approve this at CR

Next Step
Treatments:

Acceptable
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
17	71028017-Cut	18.6	4136 - Aspen, Mixed Conifer	Poletimber Well	49	Unspec ified	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	Proposal

Habitat Cut: No**Site Condition:**

Prescription cutting all or part of the stand to regenerate aspen but leave all oak and R/W pine for visual on the CR 104/Old 27 intersection, for within stand
Specs: diversity, and for wildlife mast, cut part east of Loxley Road and north of forest two-track, leave up to two 1/2-1 acre islands for retention

Next Step
Treatments:

Acceptable any combination of hardwoods and conifers to a fully stocked stand
Regen:

Other use drumming log spec Old next step comments:
Comment:

Proposed Start Date: 10/1 /2016

19	71028019-Cut	12.5	4191 - Mixed Upland Deciduous with Conifer	Sawtimber Well	95	111- 140	Harvest	Clearcut with Retention	4199 - Other Mixed Upland Deciduous	Even-Aged	Proposal
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Habitat Cut: No**Site Condition:**

Prescription CC with reserves, paint out wettest areas for BMP's, leave part between power-line ROW and Old 27 for retention and visuals, mark some of the
Specs: oak or leave all oak for mast, also leave R/W pine for diversity

Next Step
Treatments:

Acceptable acceptable regeneration is any combination of hardwoods and conifers to a fully stocked stand, seed/plant jack pine if not fully stocked
Regen:

Other Old next step comments:
Comment:

Proposed Start Date: 10/1 /2016

23	71028023-Cut	5.1	4191 - Mixed Upland Deciduous with Conifer	Poletimber Medium	85	1-50	Harvest	Clearcut with Retention	4199 - Other Mixed Upland Deciduous	Even-Aged	Proposal
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Habitat Cut: No**Site Condition:**

Prescription final harvest as much of this stand as possible given terrain and leave SL oak and all R/W pine, manage for a mix of oak and conifer, buffer any
Specs: wet pockets or leave them out of the sale for retention

Next Step
Treatments:

Acceptable any combination of hardwoods and conifers to a fully stocked stand, plant/seed jack pine if natural regeneration does not result in a fully
Regen: stocked stand

Other Old next step comments:
Comment:

Proposed Start Date: 10/1 /2016

40	71028040-Cut	6.1	4130 - Aspen	Poletimber Well	49	1-50	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	Proposal
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Habitat Cut: No**Site Condition:**

Prescription final harvest and leave oak for visuals and mast, leave part or all of the SW arm for retention and visuals
Specs:

Next Step
Treatments:

Acceptable acceptable regeneration is any combination of HW's to a fully stocked stand
Regen:

Other Use drumming log spec 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
42	71028042-Cut	3.2	42110 - Planted Red Pine	Poletimber Well	50	171- 200	Harvest	Low Thinning	4211 - Planted Red Pine	Even-Aged	Proposal

Habitat Cut: No**Site Condition:**

Prescription Low thinning to improve the quality of the stand, target BA is 120 SF/Acre, may need to open up a few more rows in spots
Specs:

Next Step
Treatments:

Acceptable
Regen:

Other Old next step comments:
Comment:

Proposed Start Date: 10/1 /2016

49	71028049-Cut	17.0	4130 - Aspen	Poletimber Well	49	81-110	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	Proposal
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Habitat Cut: No**Site Condition:**

Prescription Final harvest for aspen but leave all oak or mark oak to leave for visual/mast, leave a retention island in the NE corner of the stand where the 2T
Specs: goes back to the "G", leave a buffer or a few islands on edge of grassy opening for retention also, leave out any pockets that are heavy to oak for diversity and mast

Next Step
Treatments:

Acceptable acceptable regeneration is any combination of hardwoods to a fully stocked stand,
Regen:

Other Use drumming log spec Old next step comments:
Comment:

Proposed Start Date: 10/1 /2016

54	71028054-NF	6.8	31029 - Grass (OI)	Nonstocked		Unspec ified	NonForestMgt	Mowing	310 - Herbaceous Openland		Proposal
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Habitat Cut: Yes**Site Condition:**

Prescription Mow, cultivate, fertilize, seed as required to maintain established Wildlife Opening, Dead Stream Field 4
Specs:

Next Step
Treatments:

Acceptable
Regen:

Other Old next step comments:
Comment:

Proposed Start Date: 10/1 /2016

56	71028056-Cut	3.1	4130 - Aspen	Poletimber Medium	49	51-80	Harvest	Clearcut	413 - Aspen	Even-Aged	Proposal
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Habitat Cut: No**Site Condition:**

Prescription Leave all oak for visual on the exit ramp and for wildlife mast, no retention other than the oak due to the size and shape of the stand, leave a
Specs: small buffer on CR 104 so vehicles don't just drive around the gate

Next Step
Treatments:

Acceptable any combination of hardwoods to a fully stocked stand
Regen:

Other Old next step comments:
Comment:

Proposed Start Date: 10/1 /2016



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Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Approval Status
58 71028058-Cut	3.7	42111 - Planted Red Pine, Mixed Deciduous	Sawtimber Well	50	141-170	Harvest	Low Thinning	4211 - Planted Red Pine	Even-Aged	Proposal

Habitat Cut: No

Site Condition:

Prescription thin to improve the quality of the stand, target BA is 120 SF/acre
Specs:

Next Step
Treatments:

Acceptable
Regen:

Other Old next step comments:
Comment:

Proposed Start Date: 10/1 /2016

Total Treatment Acreage Proposed: 124.2

Report 5 – Site Conditions

Roscommon Mgt. Unit

Dale Ekdom : Examiner

Compartment: 28

Year of Entry: 2017

Availability for Management

Total Acres	Acres Available	Acres Avail		Dominant Site Conditions	Dominant Site Conditions					
		With Condition	Not Available		5B	5C	2A	2G	2H	
156	132	24	0	Aspen		24				
244	0	0	244	Cedar			1	242		
13	13	0	0	Herbaceous Openland				0		
35	35	0	0	Jack Pine						
6	6	0	0	Low-Density Trees						
65	0	0	65	Lowland Conifers				54	11	
14	14	0	0	Lowland Mixed Forest						
3	0	0	3	Lowland Spruce/Fir						3
21	21	0	0	Mixed Upland Deciduous						
8	0	0	8	Natural Mixed Pines			8			
192	6	186	0	Oak	186					
51	51	0	0	Red Pine						
20	20	0	0	Urban						
3	3	0	0	Water						
831	302	210	319	Total Forested Acres	186	24	9	296	14	
	36%	25%	38%	Relative Percent						

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

Site No.	Dominant Site Cond Availability	Dominant Site Condition	Acres	Other Site Condition	Other Site Condition	Other Site Condition	Other Site Condition
1	Available	5B: Maintain for regeneration purposes	83	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
2	Unavailable	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	6	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 5 – Site Conditions

Roscommon Mgt. Unit

Compartment: 28

Dale Ekdor : Examiner

Year of Entry: 2017

3	Unavailable	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	3	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
4	Available	5B: Maintain for regeneration purposes	62	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
5	Available	5B: Maintain for regeneration purposes	41	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
6	Unavailable	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	6	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:							
24	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	67	5A: Not able to obtain desirable regeneration	3H: Deer Wintering Areas	Unspecified	Unspecified
Comments:							

Report 5 – Site Conditions

Roscommon Mgt. Unit

Dale Ekdor : Examiner

Compartment: 28

Year of Entry: 2017

26	Unavailable	2A: Adjacent landowner denied access	9	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	Unspecified	Unspecified	Unspecified
Comments:							
31	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	43	3H: Deer Wintering Areas	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	5A: Not able to obtain desirable regeneration	Unspecified
Comments:							
32	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	63	4A: No Markets Available for these Forest Products	Unspecified	Unspecified	Unspecified
Comments:							
34	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	18	4A: No Markets Available for these Forest Products	Unspecified	Unspecified	Unspecified
Comments:							
36	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	16	4A: No Markets Available for these Forest Products	Unspecified	Unspecified	Unspecified
Comments:							
37	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	20	4A: No Markets Available for these Forest Products	Unspecified	Unspecified	Unspecified
Comments:							

Report 5 – Site Conditions

Roscommon Mgt. Unit

Dale Ekdorn : Examiner

Compartment: 28

Year of Entry: 2017

39	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	70	4A: No Markets Available for these Forest Products	3H: Deer Wintering Areas	Unspecified	Unspecified
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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
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	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
1	4124 - Red with White Oak	Sawtimber Medium	83.4	95	51-80	Stand thinned/shelterwood cut in 2001, mostly red oak SL's with white oak SL's and aspen, red maple, and oak saplings in the understory, understory consists of fairly open areas in amongst areas of A3 or O3, open areas are slowly filling in with oak seedlings, a few portions are heavy to white pine poles, oak saplings and seedlings are both stump sprout and seed origin, oak quality decreases from north to south, hold any treatments until next YOE due to the amount of cutting in the compartment in aspen and red pine
3	4130 - Aspen	Sapling Well	8.6	27	Immature	cut and regenerated in 1988, growing well
4	4124 - Red with White Oak	Sawtimber Well	61.9	99	81-110	Stand thinned/shelterwood cut in 2001, very variable stand in terms of basal area and crown closure, parts have a fairly sparse understory and other spots are dense O3, A3, or M3, several spots with W3 understory also and WP saplings/poles are scattered thru-out the stand, recommend deferring treatment in this stand until next YOE due to the large amount of cutting in the compartment for aspen and red pine
5	4121 - Oak, Aspen	Sawtimber Poor	5.8	95	1-50	Large wolfy mature oaks with BTA, RM, and oak poles of better quality, largest oaks are mostly cull but a good source of oak mast, stand is 2 aged going to all aged in spots, may need a survey to establish north line, should be cut now to regenerate aspen, red maple, and oak
7	4124 - Red with White Oak	Sawtimber Medium	36.2	95	51-80	Stand was thinned in 2001 by removing aspen, now varies in stocking with some areas O7 and other areas O9, oak is mix of red oak, white oak, and black/hybrid oak and decent quality, stand has a good understory of oak/aspen/red maple saplings and seedlings and some of the red maple in the understory are almost pole-size, recommend holding stand until next YOE as all species and sizes are growing well, removing over-story will damage too much of understory
8	4126 - White, Black, N. Pin Oak	Sawtimber Poor	4.5	95	1-50	Open grown stand with some aspen inclusions near expressway, filling in with oak saplings in the more open spots, low volume/value for any sale, oak is poor quality RO and WO.
9	4131 - Aspen, Oak	Sawtimber Medium	7.5	95	111-140	Oak SL's mixed with aspen poles and logs, final harvest and manage for aspen, leave all oak or mark oak to leave for mast and visual on US-127, dormant season cut, expand into St. #7 where possible, no retention of aspen due to age and desire to expand aspen into surrounding stands, access will be on an overgrown 2T thru St#7, landing will be on the edge of St #7, plant red pine if aspen regeneration fails
10	42120 - Planted Jack Pine	Poletimber Well	26.3	53	Unspecified	Jack pine planted on spoils from/in old barrow pit, very slow growing and a lot of the stand is barely merchantable due to the dense spacing, little to no understory due to this very dense planting pattern, although stand edges where there is an adjacent acorn source have oak seedlings/saplings starting in the understory, scattered hardwoods / red pine poles also, recommend holding 10 years to let JP get more diameter growth
12	4130 - Aspen	Sapling Well	15.7	18	Immature	Stand was cut in 1997 and left all oak, now A3 with scattered oak SL



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
13	42121 - Planted Jack Pine, Mixed Deciduous	Sapling Poor	3.8	46	Unspecified	Jack pine planted in 1969 in old barrow pit for US-127, parts may be natural regeneration also, very slow growing trees, possibly problems with the water table or extremely poor/sandy soil or wildfire in the recent past
15	4131 - Aspen, Oak	Poletimber Well	10.4	45	Unspecified	Stand has OLD LYON TOWNSHIP DUMP, mostly TA/BTA poles with scattered oak sawlogs, most of the stand is just reaching sawlog size, several pockets of O7O3 with scattered aspen poles on east edge, small pocket of R6 along freeway fence which has 170-200 SF, final harvest stand for aspen management and thin pocket of R6, leave pockets/islands of O7O3 for retention, leave SL oak for visual and wildlife mast, leave all un-marked R/W pine also for diversity and visual, harvest during snow-on conditions to limit damage to old twp. dump
16	42111 - Planted Red Pine, Mixed Deciduous	Poletimber Well	24.4	50	141-170	stand is planted RP with inclusions/pockets of aspen/hardwood regeneration from last thinning in 2000 which removed every 3rd row in the red pine areas and all aspen and red maple thru-out the stand; stocking varies in red pine with some spots not worth thing as basal area is still too low; consider thinning again from below to improve stand quality even though thinning may damage some hardwood regeneration.
17	4136 - Aspen, Mixed Conifer	Poletimber Well	43.0	49	Unspecified	Multiple age class of trees within the stand due to past cutting practices, scattered aspen coming into boltwood size, oldest/largest aspen is declining and mostly cull, very good single stem oak in spots, Some of the oak is very thrifty 9" diameter stock and are good crop trees to be taken into consideration. Some nice den and mast trees present also, SE and SW corners are heavy to white pine, recommend cutting all or part of the stand to regenerate aspen but leave all oak and R/W pine for visual on the CR 104/Old 27 intersection, for within stand diversity, and for wildlife mast, cut part east of Loxley Road and north of forest two-track
18	6139 - Mixed Lowland Forest	Sawtimber Well	14.1	75	141-170	OPIC - FMD: Stand is a transition type from swamp conifer to Hardwoods; not much volume to consider in this stand; scattered sawlog of white pines and hemlock is present too; stand is about 60 years with larger overstory trees much older. G. Taurence 11/04
19	4191 - Mixed Upland Deciduous with Conifer	Sawtimber Well	12.5	95	111-140	Stand is a transition zone between conifer swamp to the south and A3 to the north, at one time it was a fairly equal mix of aspen-red maple-oak but aspen and also the balsam fir are falling apart fast, stand is probably operable if dry or frozen, consider final harvesting this stand
20	4130 - Aspen	Sapling Well	10.4	18	Immature	Stand cut in 1997 and regenerated to A3, some pole-size oak was left when cut, stand includes a small buffer left for retention on the east edge along Old 27
23	4191 - Mixed Upland Deciduous with Conifer	Poletimber Medium	5.1	85	1-50	Transition zone between swamp to the south and aspen to the north, south arm is lower and wetter with heavy red maple saplings/poles and tag alder with scattered black spruce and balsam fir, north part is more upland with oak and conifers, final harvest as much of this stand as possible given terrain and leave SL oak and all R/W pine, manage for a mix of oak and conifer, buffer any wet pockets for retention, plant/seed jack pine if natural regeneration does not result in a fully stocked stand



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
24	6120 - Lowland Cedar	Poletimber Medium	66.5	115	1-50	Wet cedar swamp, poor quality, poor to no access, lots of deer and other wildlife sign
25	6129 - Mixed Coniferous Lowland Forest	Sawtimber Medium	5.5	95	81-110	WP XL's with cedar and other swamp hardwoods underneath, marginally higher than adjacent stands but no to poor access
26	42260 - Natural Pine, Mixed Deciduous	Sawtimber Well	7.7	115	81-110	Island of R/W pine with some hardwoods surrounded by swamp and PVT property, no access due to small strip of private property east of Old 27
28	42111 - Planted Red Pine, Mixed Deciduous	Sapling Poor	19.2	5	Immature	Cut 2009 and planted to RP in 2010, all WO was left when cut, stand is just into the forested category due to the abundance of hardwoods plus the planted pine, should be fully stocked next YOY
29	4130 - Aspen	Sapling Well	3.8	27	Immature	Cut and regenerated in 1988, growing well
30	4130 - Aspen	Sapling Well	4.9	27	Immature	Cut and regenerated in 1988, growing well with some spots approaching pole-size
31	6120 - Lowland Cedar	Poletimber Medium	42.6	115	1-50	wet cedar swamp, poor quality and no to poor access, lots of deer and other wildlife sign
32	6120 - Lowland Cedar	Poletimber Poor	63.0	115	1-50	very wet and slow growing, very poor quality, lots of dead ceda in most of stand but some spots have cedar saplings starting
33	6129 - Mixed Coniferous Lowland Forest	Sawtimber Medium	5.6	95	81-110	WP XL's with cedar ant swamp hardwoods underneath, marginally higher than adjacent stands but no to poor access
34	6128 - Lowland Coniferous, Mixed Deciduous	Poletimber Well	18.1	115	81-110	wet cedar swamp, poor quality and no/poor access, lots of deer and other wildlife sign
35	61229 - Black Spruce (OI)	Poletimber Medium	2.8	85	1-50	mix of swamp conifers with some lowland HW's mixed in, slightly higher ground than stands to the north and south, some tag alder pockets also which wee too small to map
36	6124 - Lowland Spruce- Fir	Poletimber Medium	16.3	115	1-50	very wet and slow growing, very poor quality, poor access due to terrain, tag alder throughout stand in the understory, heavy tag alder and balsam fir in the gaps
37	6124 - Lowland Spruce- Fir	Poletimber Medium	19.5	115	1-50	Very wet and slow growing, very poor quality, tag alder throught most of the understory, heavy tag alder and balsam fir in the gaps



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
38	4199 - Other Mixed Upland Deciduous	Poletimber Well	3.8	49	81-110	Transition zone between lowland swamp conifer/HW's and upland hardwoods, aspen falling out of this stand which is becoming an upland mixed stand with red maple/oak and scattered conifers, lots of wildlife sign/activity, good stand to leave for wildlife and for visuals on the Old 27/CR 104 corners. OIPC - FMD: Multiple age class of trees within the stand due to past cutting practices; scattered aspen coming into boltwood size; wait another 10 ybefor considering treatment; very good single stem oak in spots; please save oak next cutting entry. I observed decadent aspen in the older age class, but these were trees that were left behind in the 1970's and are mostly cull. Some of the oak is very thrifty 9" diameter stock and are good crop trees to be taken into consideration. Some nice den and mast trees present. G. Taurence 11/04
39	6120 - Lowland Cedar	Poletimber Medium	71.4	115	1-50	very wet and slow growing, very poor quality, lots of dead ceda in most of stand but some spots have cedar saplings starting
40	4130 - Aspen	Poletimber Well	6.1	49	1-50	Decent A6 with some older aspen mixed in that is declining, some decent oak in this stand also, consider final harvesting but saving all oak or marking oak to leave for visual and wildlife mast. OPIC - FMD: Scattered older aspen and oak left over from 1966 cutting.
41	4130 - Aspen	Sapling Well	4.3	14	Immature	Stand was harvested spring of 2001 with the surrounding oak stand
42	42110 - Planted Red Pine	Poletimber Well	3.2	50	171-200	stand thinned in 2001 when surrounding oak was treated, removed every 3rd row, stand just reaching log size with a heavy hardwood understory in spots, needs to be thinned again, may need to open up some more rows in spots
44	4130 - Aspen	Sapling Well	3.0	14	Immature	Stand was harvested spring of 2001 with the surrounding oak stand
45	4130 - Aspen	Sapling Well	11.9	15	Immature	Aspen regeneration from shelter-wood cut in 2000, some spots are O7M2O2 while other spots are solid A3, stocking is low in red pine except for a few very small pockets of R6, aspen is a large component of this stand, save some red pine trees along Old U.S. 27 for visual when stand is treated at some future YOE
46	4130 - Aspen	Sapling Well	0.9	15	Immature	Nice A3 clone surrounded by R6
49	4130 - Aspen	Poletimber Well	17.0	49	81-110	aspen stand with mix of BTA and TA and scattered oak XL's as well as oak P/L's, BTA doing well but TA starting to fall apart, pockets of the stand are very heavy to oak poles and SL's
53	4130 - Aspen	Sapling Well	5.5	27	Immature	cut and regenerated in 1988, growing well

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Roscommon Mgt. Unit

Report 8 – Forested Stands

Compartment: 28
Year of Entry: 2017

	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
56	4130 - Aspen	Poletimber Medium	3.1	49	51-80	Stand was left as buffer for US-127 last YOE, should be cut now and regenerated to aspen, oldst/largest aspen is declining, ;eave all oak for visual on the exit ramp and for wildlife mast, no retention other than the oak due to the size and shape of the stand, leave a small buffer on CR 104 so vehicles don't just drive around the gate
57	42120 - Planted Jack Pine	Poletimber Well	5.3	49	1-50	BORROW PIT FROM U.S. 27 CONSTRUCTION, PLANTED IN 1966, very slow growing and no understory due to very dense planting pattern, also has scattered HW's and RP
58	42111 - Planted Red Pine, Mixed Deciduous	Sawtimber Well	3.7	50	141-170	Decent quality but short RP poles and logs with Inclusions of aspen regeneration openings from last cutting in 2000, stocking varies in red pine, west arm did not get 3rd row thinned last YOE, consider for another thinning to improve stand quality.



Stand	Cover Type	Acres	Managed Site	General Comments:
2	310 - Herbaceous Openland	0.6	No	clear vision area on Old 27/CR 104 intersection
6	122 - Road/Parking Lot	1.4	No	CR 104 ROW.
11	510- Water (OI)	3.5	No	: BORROW PIT FROM U.S. 27 / CR 104 Interchange CONSTRUCTION, used on and off by Fisheries Division as a rearing pond.
14	122 - Road/Parking Lot	1.7	No	CR 104 ROW
22	310 - Herbaceous Openland	1.2	No	clear vision area on Old 27/CR 104 intersection, has scattered RP poles
27	310 - Herbaceous Openland	0.5	No	clear vision area on Old 27/CR 104 intersection
43	3303 - Mixed Low Density Trees	5.5	No	OPIC - FMD: BORROW PIT FROM U.S. 27 CONSTRUCTION.
47	310 - Herbaceous Openland	1.2	No	clear vision area on Old 27/CR 104 intersection
48	310 - Herbaceous Openland	0.5	No	small grassy opening
50	122 - Road/Parking Lot	0.8	No	CR 104 ROW
51	310 - Herbaceous Openland	1.1	No	Grassy opening alongside CR 104, scattered conifers and hardwoods
52	310 - Herbaceous Openland	0.8	No	OPIC - FMD: Scattered overstory of large sawlog oak. G.t 11/04
54	31029 - Grass (OI)	6.8	Yes	MAINTAINED WILDLIFE OPENING. scattered hardwoods and a few small A6 clones .
55	310 - Herbaceous Openland	0.5	No	small grassy opening with scattered trees
98	122 - Road/Parking Lot	2.9	No	Old 27 ROW
99	122 - Road/Parking Lot	13.6	No	Old 27 ROW