

Compartment Review Presentation

Roscommon Forest Management Unit

Compartment 71013 Entry Year 2020 Acreage: 2,559

County Roscommon

Management Area: Upper Muskegon

Revision Date: 2018-07-25

Stand Examiner: Jason Lewicki

Legal Description:

T21NR04W Sections 7, 8, 17, 18.

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:

Soils on the uplands consist primarily of Graycalm-Grayling sands, Croswell sands and Rubicon sands. Soils on the lowlands consist of Tawas Lupton Mucks, Dawson Loxley Peats and Tawas leaf river mucks. Topography is generally flat to slightly rolling with the exception of the slopes adjacent to the Muskegon River.

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

The entire compartment and much of the surrounding Townships are under State ownership.

Unique Natural Features:

The Muskegon River, Wolf and Bear creek flow through the compartment.

Archeological, Historical, and Cultural Features:

One known archeological site within the compartment.

Special Management Designations or Considerations:

Areas of the compartment are part of the Muskegon River Oxbows Eastern Massasauga managed lands.

Watershed and Fisheries Considerations:

The Muskegon River, Wolf and Bear creek flow through the compartment. A small portion of Bear Creek Flooding and it's control structure are within the compartment.

Wildlife Habitat Considerations:

The compartment includes the very southern tip of the Bear Creek Flooding and Dam, maintained by Wildlife Division. Lowland conifers found in the north and east portions of the compartment provide winter thermal cover for deer and other species. Managed wildlife openings are found in the NE portion of the compartment adjacent to an aspen stand. The Muskegon River Oxbows Eastern Massasauga Managed Land lies southwest of Canoe Camp Road along the Muskegon River. A heron rookery has been documented along the east edge of the compartment and a record of a wood turtle exists in the SE compartment corner.

Mineral Resource and Development Concerns and/or Restrictions

Sections 7-8 & 17-18, T21N-R4W, Roscommon County

The nearest active sand/gravel pit is located more than four miles to the northwest, and potential for sand & gravel within the compartment appears to be limited. The nearest hydrocarbon production is several miles away, but there may be some potential from Devonian formations beneath the compartment. All of the state-owned mineral rights in the compartment are currently leased for oil & gas exploration and development. Marathon holds these leases and they have been divesting of their interests in the state. There is no known metallic mineral potential in this part of the state.

Vehicle Access:

Vehicle access is very good in this compartment due to abundant uplands and multiple county roads...

Survey Needs:

Recreational Facilities and Opportunities:

Snowmobile Trail 6/7 occurs within the compartment on County Road 402 and Barney Lake Road. Dispersed camping, deer hunting and small game hunting within the compartment occurs throughout area. The Muskegon River and low wetland areas located in the southwest corner of the compartment offers some opportunity for wildlife viewing, fishing, trapping, or waterfowl hunting. (A. 2018)

Fire Protection:

There are some higher risk pine stands in the compartment but are not large and are fragmented by other low risk timber types.

Additional Compartment Information:

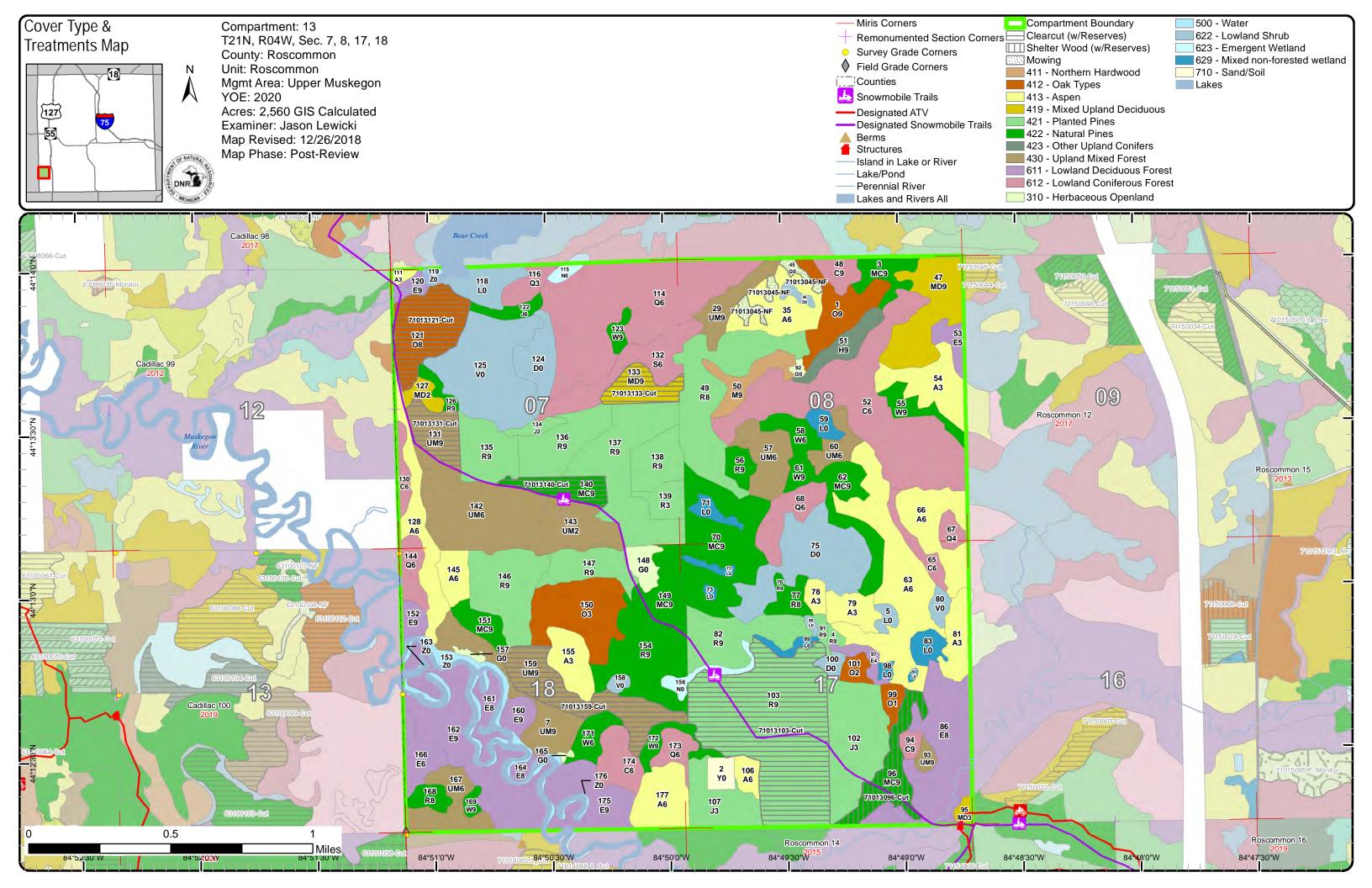
The following reports from the Inventory are attached:

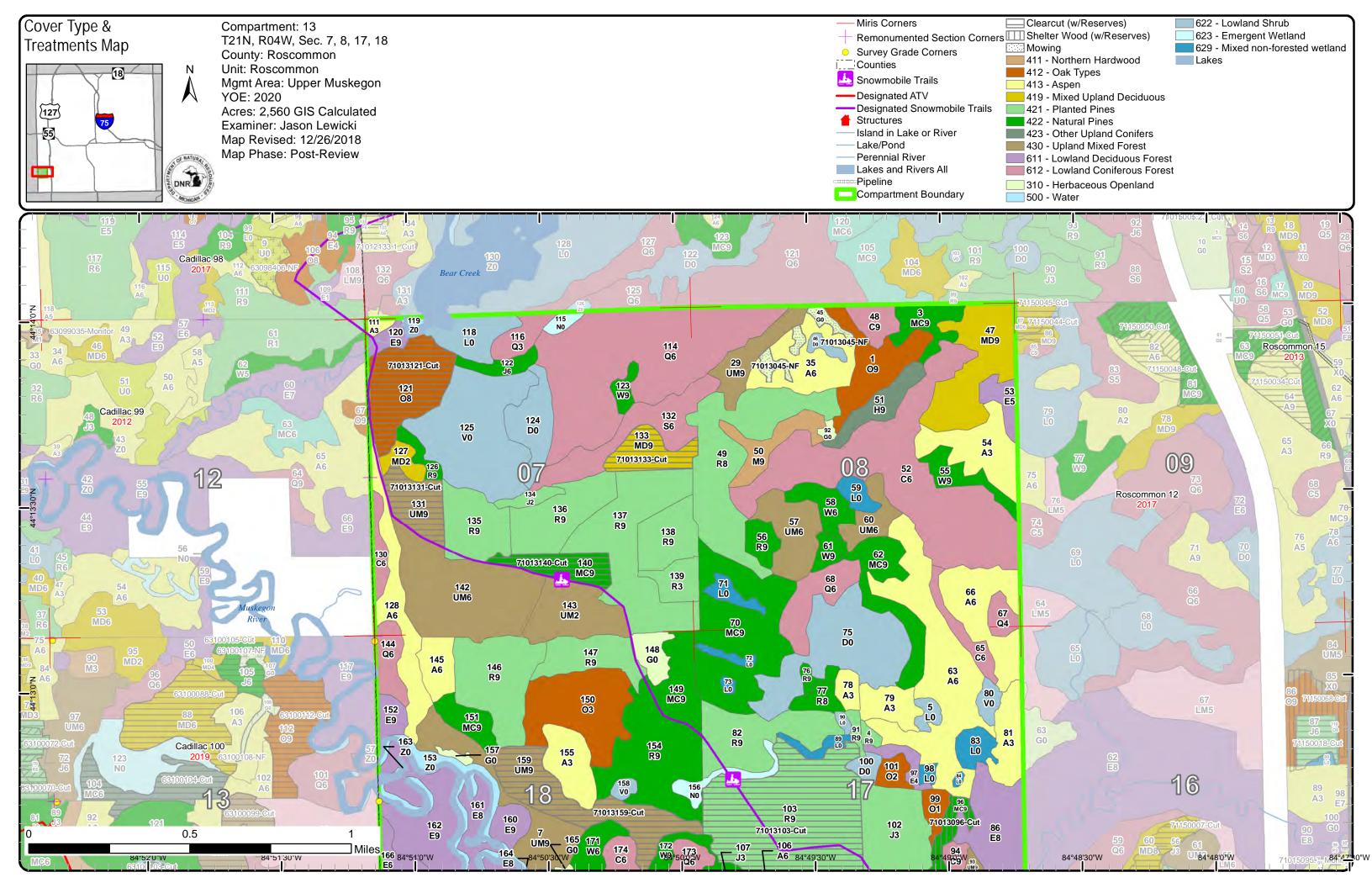
Total Acres by Cover Type and Age Class
Cover Type by Harvest Method
Proposed Treatments – No Limiting Factors
Proposed Treatments – With Limiting Factors
Stand Details (Forested and Nonforested)
Dedicated and Proposed Special Conservation Areas
Site Condition Details

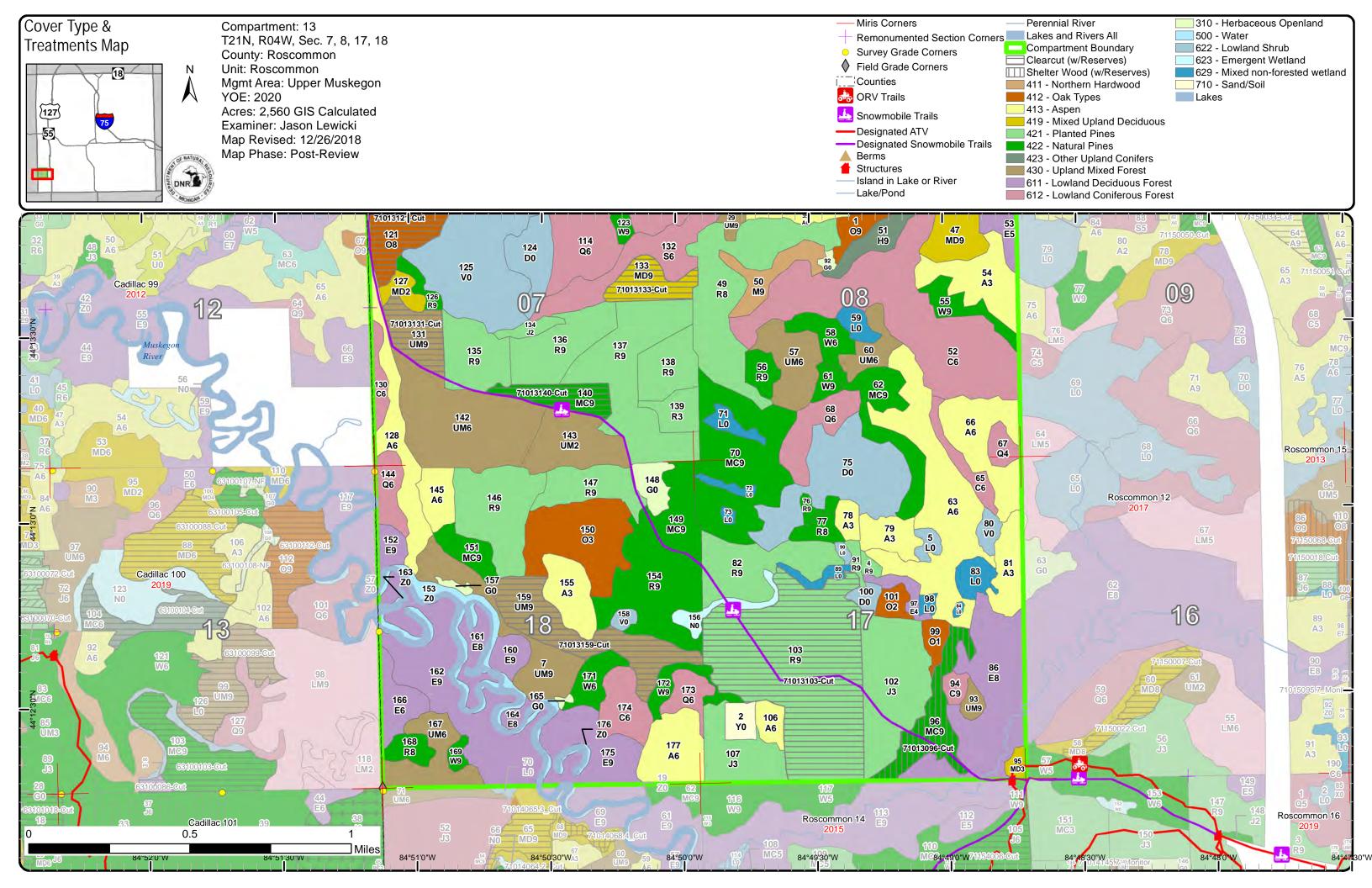
The following information is displayed, where pertinent, on the attached compartment maps:

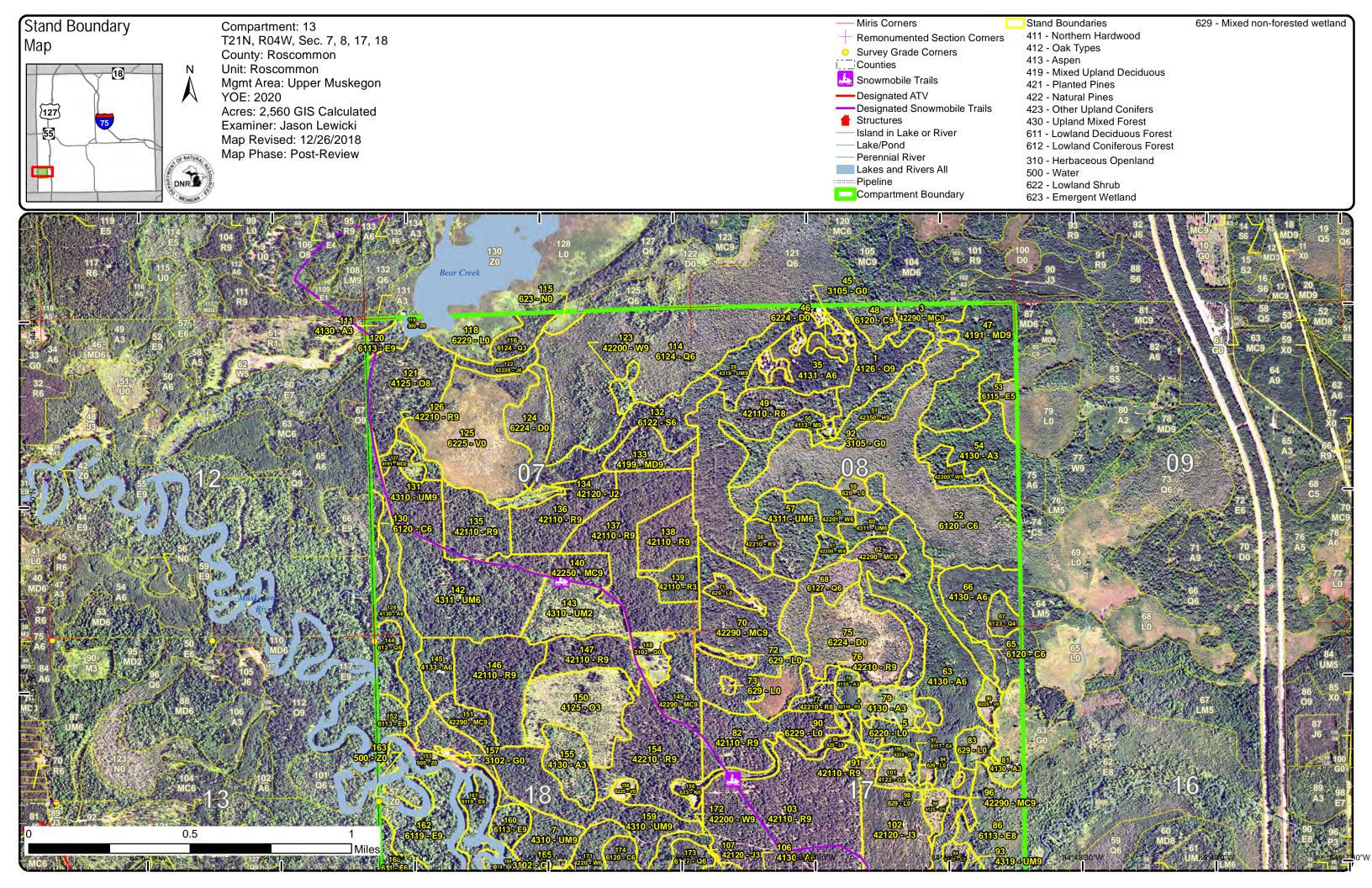
Base feature information, stand boundaries, cover types, and numbers

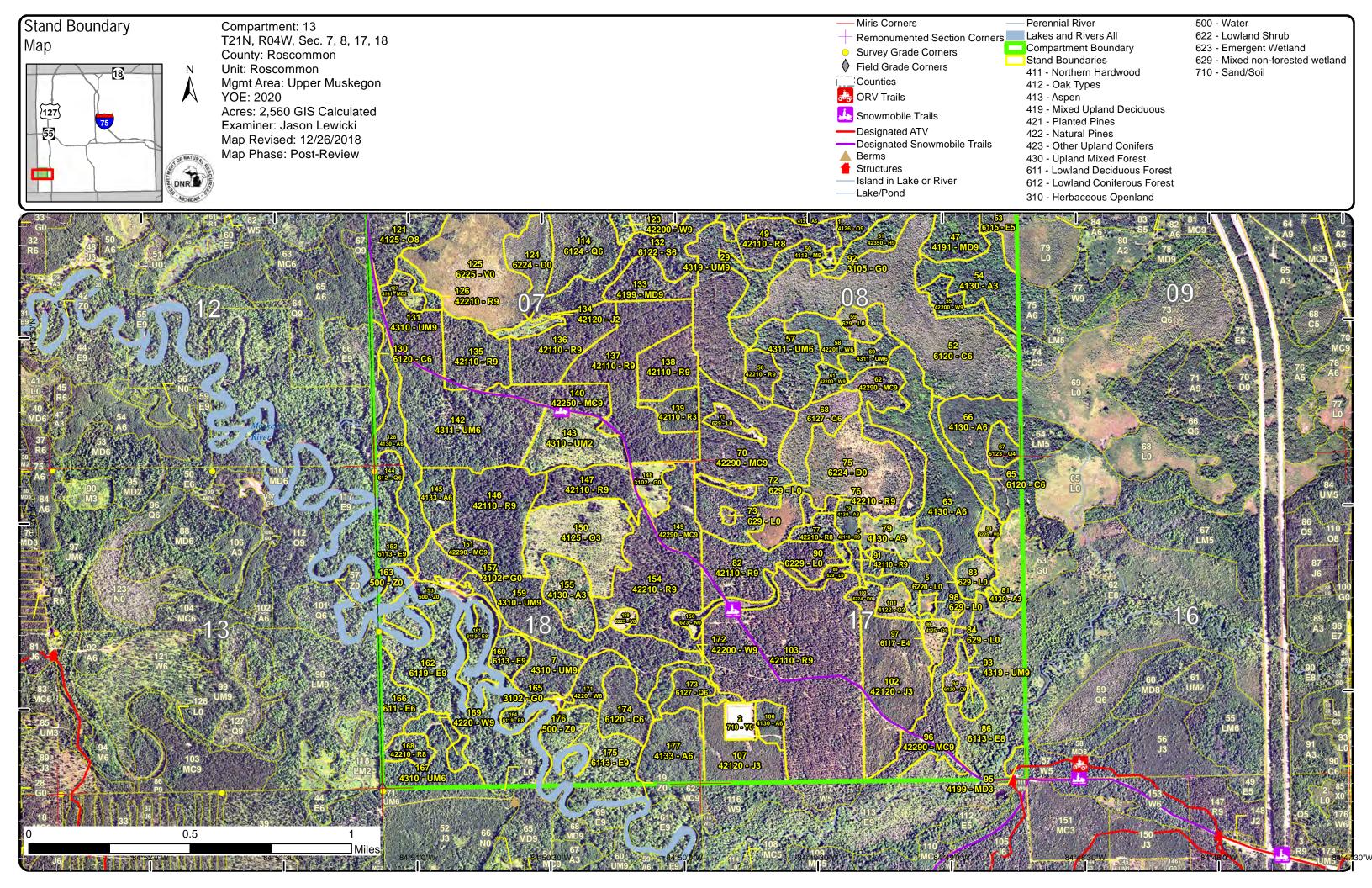
Proposed treatments
Site condition boundaries
Details on the road access system

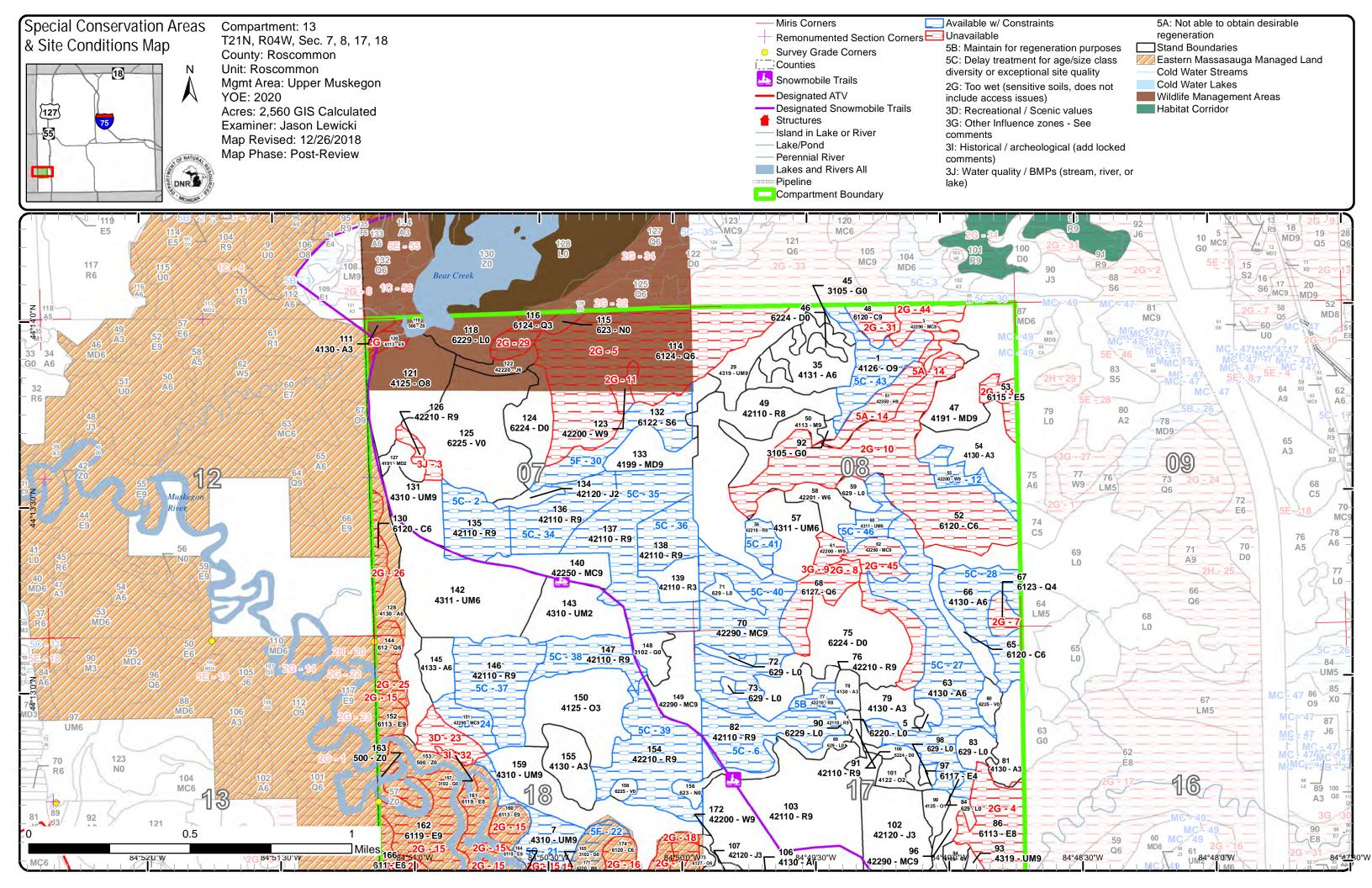


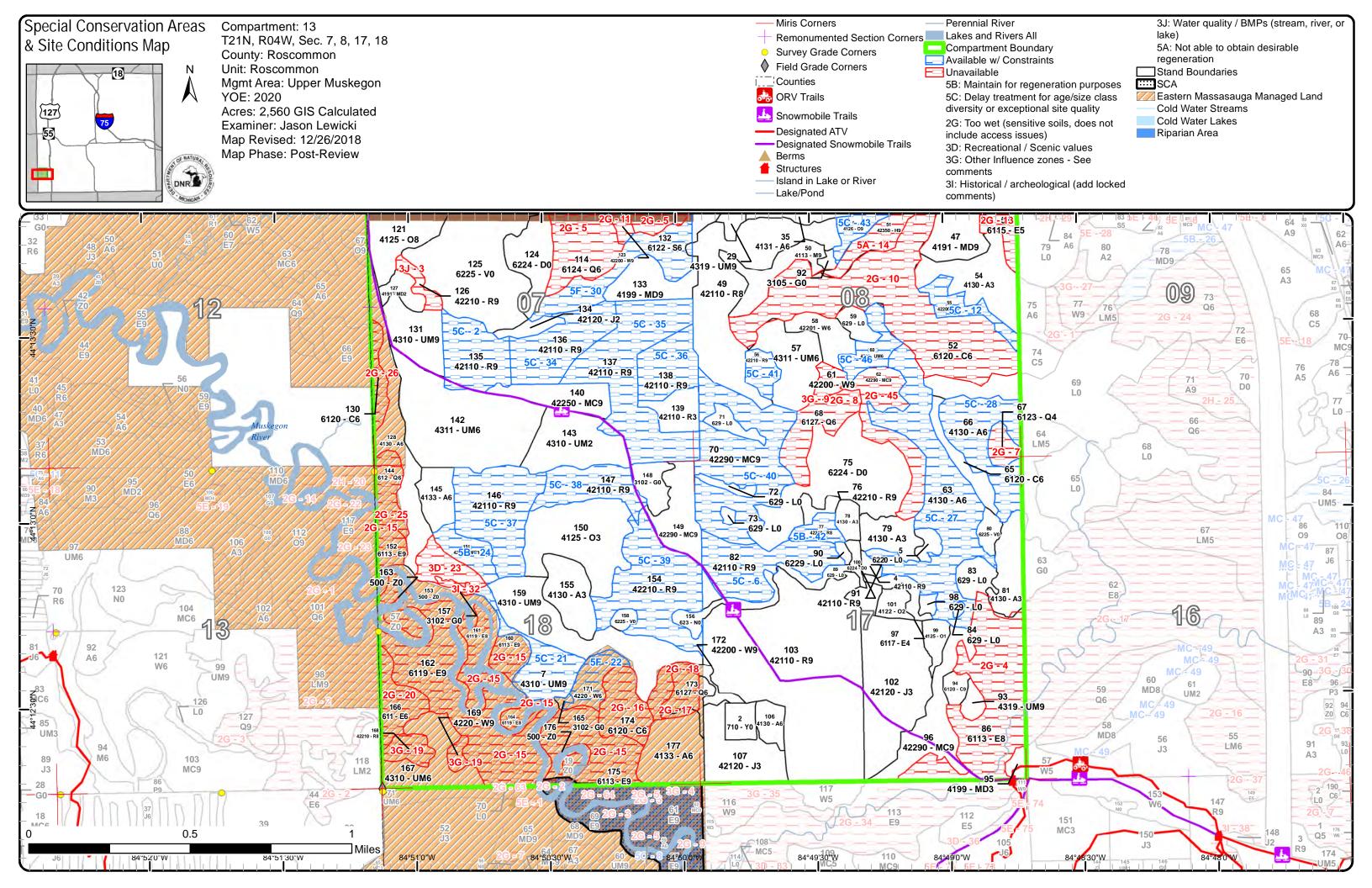












Compartment 13 Year of Entry 2020

Roscommon Mgt. Unit Jason Lewicki : Examiner

Age Class

	₽oc P	4000	3 / 2	\$ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	\$ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\	§ /\$	N. S. S.	3 / 6	\$ \ \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	,	80 80	\$ /0 <u>/</u> 0/	20, 70,	,	\$ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	S. L.	LE LE	3 Jun	A CONTRACTOR A CON
Aspen	0	32	24	35	69	26	105	0	0	0	0	0	0	0	0	0	0	0	291
Bog	74	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	73
Cedar	0	0	0	0	0	0	0	0	0	0	0	0	0	21	147	0	0	0	168
Hemlock	0	0	0	0	0	0	0	0	0	0	0	0	0	0	14	0	0	0	14
Herbaceous Openland	22	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	22
Jack Pine	0	0	5	79	0	7	0	0	0	0	0	0	0	0	0	0	0	0	91
Lowland Conifers	0	0	0	0	10	0	0	19	6	0	0	10	0	131	0	0	0	0	176
Lowland Deciduous	0	0	0	0	0	0	0	0	0	66	12	157	0	0	0	0	0	6	240
Lowland Shrub	53	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	53
Lowland Spruce/Fir	0	0	0	0	0	0	0	0	0	0	0	0	0	32	0	0	0	0	32
Marsh	12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	12
Mixed Upland Deciduous	0	0	6	3	0	0	0	0	42	0	0	0	17	0	0	0	0	0	68
Natural Mixed Pines	0	0	0	0	0	0	0	0	11	63	89	0	0	0	14	0	0	0	177
Northern Hardwood	0	0	0	0	0	0	0	16	0	0	0	0	0	0	0	0	0	0	16
Oak	0	44	12	0	0	0	0	0	0	0	40	0	0	0	27	0	0	0	123
Red Pine	0	0	0	11	0	0	0	0	4	336	182	0	0	8	0	0	0	0	541
Sand, Soil	7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	7
Treed Bog	85	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	85
Upland Mixed Forest	0	0	29	24	108	0	0	12	0	4	19	0	75	0	0	0	0	0	271
Water	43	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	42
White Pine	0	0	0	0	12	0	0	11	0	0	0	3	5	0	21	0	5	0	57
Total	296	76	76	152	199	33	105	58	63	469	342	170	97	192	223	0	5	6	2559



Report 2 – Treatment Summary

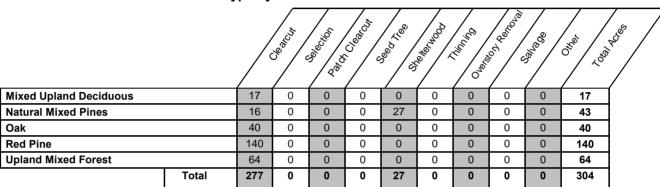
Roscommon Mgt. Unit Year of Entry: 2020

Acres of Harvest

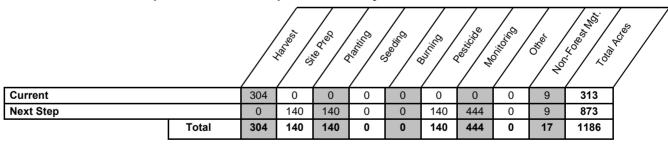
Compartment 13
Total Compartment Acres: 2,559

Commercial Harvest - 304 Harvests with Site Condition - 0 Next Step Harvest - 0 Habitat Cut - 0

Cover Type by Harvest Method



Proposed and Next Step Treatments by Method



Roscommon Mgt. Unit Report 3 -- Treatments Compartment: 13 S Year of Entry: 2020 t а **Treatment Treatment Treatment Cover Type** Acres Stand Size Stand BA Age **Approval** n Name CoverType Density Age Range Type Method Objective Structure **Status** d 71013045-NF 3105 - Mixed NonForestMgt 310 -Draft Field 45 8.5 Nonstocked Mowing **Upland Herbaceous** Herbaceous Boundary Openland **Habitat Cut: No Site Condition:** Prescription Mow, cultivate, fertilize, seed as required to maintain established Wildlife Opening, Headquarters Field 3. Specs: Next Step NonForestMat, Mowing Treatments: <u>Acceptable</u> Regen: Other Comment Proposed Start Date: 10/1 /2019 27 2 42290 - Natural 82 81-110 Draft Field 71013096-Cut Sawtimber Harvest Shelterwood 4221 - Natural Two-Aged Mixed Pine Well Red Pine Boundary **Habitat Cut: No Site Condition:** Prescription Remove jack pine and oak unless they serve as a cavity or other wildlife tree. Remove poor formed and suppressed red and white pine. Favor Specs: leaving white pine. Target residual at 30 - 50 BA. Leave some brush piles along edges to encourage Snowshoe hare use. Protect understory during harvest. Regeneration should be a mix of white pine and oak with some red and jack possible. Snowmobile trail runs through the stand along the county road. Protect with the appropriate specs. Monitoring, Natural Regen (Re-Inventory) Next Step **Treatments:** Acceptable Any mix of pine species and oak at a fully stocked levels Regen: Other Comment: **Proposed Start Date:** 10/1 /2019 42110 - Planted 4211 - Planted Draft Field 103 71013103-Cut 140.1 Sawtimber 97 111-Harvest Clearcut with Even-Aged Red Pine Well 140 Retention Red Pine Boundary **Habitat Cut: No Site Condition:** Prescription Clear-cut and establish a red pine plantation. Use all tools possible to insure a successful and free growing plantation. Site prep stand before trenching would be preferable. Leave a buffer strip on the north end of stand along bog edge for retention. Snowmobile trail runs through the stand along the county road. Protect with the appropriate specs. SitePrep, Trenching; Pesticide, (Inactive)Skidder/Mechanical; Planting, Initial Plant; Monitoring, Artificial Regen(1yr); Monitoring, Artificial Next Step Treatments: Regen(3yr)

Specs:

Acceptable Free growing red pine at fully stocked levels.

Regen:

Other 4 2 2 Follow Eastern Massasauga rattlesnake guidelines for harvesting timber with exception of herbicide site prep being acceptable, require chipping

of tops on sale for site prep Comment:

Proposed Start Date: 10/1 /2019

121 71013121-Cut 40.4 4125 - Black, N. Pin Sawtimber Even-Aged 98 1-50 Harvest Clearcut with 4139 - Aspen, Draft Field Oak Medium Retention Mixed

Boundary Deciduous

Habitat Cut: No Site Condition:

Prescription Cut all oak over 4". Leave pine component for structure and aesthetics. Leave an island or two as retention. Protect sub canopy in specs but Specs: expect damage. Snowmobile trail runs along its west border. Protect with appropriate specs.

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Aspen, mixed hardwoods and pine at fully stocked levels.

Regen:

Other Use camping area at north end for retention, evaluate this area for dead oak and possibly cut dead oak out of the camping area.

Comment:

Proposed Start Date: 10/1 /2019

Roscommon Mgt. Unit Report 3 -- Treatments Compartment: 13 s Year of Entry: 2020 t а **Treatment** Stand **Treatment Treatment Cover Type** Acres Stand Size BA Age **Approval** n Name CoverType Density Age Range Type Method Objective Structure **Status** d 131 71013131-Cut 4310 - Pine, Oak Sawtimber 4131 - Aspen, Draft Field 19.4 98 81-110 Harvest Clearcut with Even-Aged Mix Well Retention Oak Boundary **Site Condition: Habitat Cut: No** Prescription Clearcut stand with a 2"spec. Leave jack pine tops scattered about to encourage seed regeneration. Leave 1-2 red or white pine per acre for seed source and structure. Leave an island of oak and a buffer on the north bog edge as retention. Snowmobile trail is southern boundary. Specs: Protect as needed. Use drumming log spec on this stand. Next Step Monitoring, Natural Regen (Re-Inventory) **Treatments:** Acceptable Aspen, oak and pine at fully stocked levels. Stand will convert to mostly aspen regeneration. Regen: Other Comment: **Proposed Start Date:** 10/1 /2019 16.8 4199 - Other Mixed 413 - Aspen 133 71013133-Cut Sawtimber 110 81-110 Clearcut with Draft Field Harvest Even-Aged **Upland Deciduous** Well Retention Boundary **Habitat Cut: No** Site Condition: Prescription Clearcut with 2" spec. Leave 3-5 brush piles and apply drumming log spec. Use a few small islands of oak and pine for retention. Specs: Monitoring, Natural Regen (Re-Inventory) Next Step

Treatments:

Acceptable Aspen and mixed hardwoods at fully stocked levels.

Regen:

Other Comment:

Proposed Start Date: 10/1 /2019

Draft Field 140 71013140-Cut 16.2 42250 - Pine, Oak Sawtimber 88 81-110 Clearcut with 4122 - Oak, Pine Even-Aged Harvest Retention Boundary

Habitat Cut: No Site Condition:

Prescription Clear cut stand leaving oak and pine 5" and under. Leave any jack pine tops scattered about to encourage seed regeneration. Protect the sub Specs: canopy oak and pine but expect damage. Leave 1-3 larger oak and pine for mast, aesthetics and retention. Use snowmobile trail protection

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Any mix of oak, white pine, red pine and jack pine at fully stocked levels.

Regen:

Other Comment:

Proposed Start Date: 10/1 /2019

159 71013159-Cut 4310 - Pine, Oak Sawtimber 110 81-110 Clearcut with 4121 - Oak, Even-Aged Draft Field Harvest Mix \/\ell Retention Aspen Boundary

Habitat Cut: No Site Condition:

Prescription Clearcut stand and manage for a mix of aspen and oak. Many areas should completely fill in with aspen. Save 1-3 red or white pine per acre for Specs: diversity and seed source. Leave 1-2 islands of oak for retention. Follow Eastern Massasauga rattlesnake guidelines for harvesting timber.

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Oak, aspen and mixed pines at fully stocked levels.

Regen:

Other Comment:

Proposed Start Date: 10/1 /2019

Total Treatment Acreage Proposed:

312.7

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
Comments				

Roscommon Mgt. Unit Compartment: 13
Year of Entry 2020



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.

Conservation Area	on Type	Description	HCVA = High Conservation Value Area SCA = Special Conservation Area
SCA	Cold Water Lake	A coldwater lake has temperature and dissolved oxy stocked trout populations and those of other coldwat conditions for coldwater fishes may occur in Michiga groundwater inflows, or are located in colder (northe Director's action and designated as trout resources by	ter fish species to persist from year to year. Suitable n lakes if they are relatively deep, have substantial rn) areas of the state. Such lakes are established by
SCA	Cold Water Stream	A coldwater stream has temperature and dissolved of stocked trout populations and those of other coldwat year to year. Coldwater streams in Michigan typically contributions of groundwater to their stream flows. S designated as trout resources by Fisheries Order 21	ter fish species (e.g., slimy sculpin) to persist from y provide these conditions due to substantial uch streams are established by Director's action and

s t	Roscommon	Mgt. Unit		Report 7	– Forested	Stands Compartment: 13 Year of Entry: 2020
a n d	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
1	4126 - White, Black, N. Pin Oak	Sawtimber Well	26.6	135	81-110	Stand of primarily white oak and white pine. Scattered black/pin oak, maple and aspen. Good site for White pine and white oak.
3	42290 - Natural Mixed Pine	Sawtimber Well	14.0	135	111-140	
4	42110 - Planted Red Pine	Sawtimber Well	2.2	97	111-140	Planted to red pine and jack pine in 1921. Hardwoods were removed in the past. Aspen and oak in sub canopy.
7	4310 - Pine, Oak Mix	Sawtimber Well	31.3	110	81-110	Old low quality oak stand mixed with red and white pine. Some scattered big tooth aspen. Oak and aspen are in decline and are experiencing mortality. White pine in multiple age classes in the canopy.
29	4319 - Mixed Upland Forest	Sawtimber Well	16.9	38	51-80	
35	4131 - Aspen, Oak	Poletimber Well	26.9	38	51-80	Poor quality aspen mixed with oak and pine surrounding a managed opening.
47	4191 - Mixed Upland Deciduous with Conifer	Sawtimber Well	42.3	75	81-110	Very mixed stand with multiple aged classes in the canopy. Some pockets of 6-8" aspen. Scattered older oak and aspen. Some large, old red and white pine scattered about and along swamp edges. White pine poles developing In the sub canopy.
48	6120 - Lowland Cedar	Sawtimber Well	9.4	133	Unspecified	Heavy dead and down. Part of a larger stand in the compartment to the north.
49	42110 - Planted Red Pine	Sawtimber Medium	64.1	82	111-140	Detroit News Plantation that was established and supplemented in 1934, 1936, and 1938. It was originally heavier to white pine, but thinning in 2003 favored red pine. Subcanopy of mostly oak and white pine. North end contains some red maple and aspen.
50	4113 - R.Maple, Conifer	Sawtimber Well	15.6	63	81-110	
51	42350 - Upland Hemlock	Sawtimber Well	14.2	133	141-170	Slightly upland ridge along swamp edge. Large supercanopy white pine.
52	6120 - Lowland Cedar	Poletimber Well	119.8	133	Unspecified	Looks like everything but cedar may have been cut in portions of this stand during the 60's
53	6115 - Lowland Ash	Poletimber Medium	8.2	98	Unspecified	
54	4130 - Aspen	Sapling Well	28.3	24	Unspecified	
55	42200 - Natural White Pine	Sawtimber Well	11.2	135	141-170	Excellent quality natural white pine and red pine along swamp edge. Thinned in 1994. Understory is mixed with white pine and red maple stump sprouts.

s t	Roscommor	n Mgt. Unit		Report 7	- Forested	Stands Compartment: 13 Year of Entry: 2020
a n d	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
56	42210 - Natural Red Pine	Sawtimber Well	7.7	84	111-140	Scattered old natural monarchs. Portions are probably plantation. Areas of over mature aspen. Stand would probably convert to aspen if clearcut. Small acreage. Harvest if other stands in area are being treated also.
57	4311 - Pine, Aspen Mix	Poletimber Well	23.8	37	1-50	Mixed stand. Two-aged. Scattered white pine and red pine was left within this cut when it was done in the 80's. Wait until aspen has more merchantable before harvesting again.
58	42201 - Natural White Pine, Mixed Deciduous	Poletimber Well	11.5	37	1-50	Hummocky ground. Heavier to aspen on south end.
60	4311 - Pine, Aspen Mix	Poletimber Well	12.0	63	1-50	Part of the large aspen stand, but had enough white pine component to call it a seperate stand.
61	42200 - Natural White Pine	Sawtimber Well	5.4	158	171-200	Mixed pine stand. Some pockets of large diameter white pine
62	42290 - Natural Mixed Pine	Sawtimber Well	25.1	98	81-110	Natural mixed pine stand. Some legacy red pine present. Especially on north end. Area north of narrows where stand is wet and dominated by white pine poles and small logs. Area on south end heavier to jack pine.
63	4130 - Aspen	Poletimber Well	71.9	54	Unspecified	Stand of primarily quaking aspen mixed with balsam fir. Could use some more time to obtain volume before harvesting. More white pine on west side.
65	6120 - Lowland Cedar	Poletimber Well	9.3	120	111-140	Thin corridor of cedar mixed with white pine.
66	4130 - Aspen	Poletimber Well	33.4	54	51-80	Mixed aspen stand with balsam fir. Primarily quaking.
67	6123 - Lowland Fir	Poletimber Poor	6.2	75		
68	6127 - Lowland Pine	Poletimber Well	19.4	63	51-80	Lowland white pine. Bog pine
70	42290 - Natural Mixed Pine	Sawtimber Well	63.7	91	111-140	Multiple ages and size classes of all canopy species. Old fire scarred monarchs 125yrs, Log red pine, white pine, and some jack pine 90 yrs, Log jack pine 65 yrs, and pole white pine and jack pine around 40 yrs. There is an old plow line on the ridge around the bog. Most jack pine is on south and west sides. Some of the low valleys would cause operability issues if harvested.
76	42210 - Natural Red Pine	Sawtimber Well	3.6	75	81-110	Small stand that lies along a ridge above a bog. Solid natural red pine on east side
77	42210 - Natural Red Pine	Sawtimber Medium	6.4	85	1-50	Sapling stand with heavy supercanopy of red pine and white
78	4130 - Aspen	Sapling Well	5.3	14	Immature	

S t				Report 7	– Forested	Stands Compartment: 13 Year of Entry: 2020
a n d	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
79	4130 - Aspen	Sapling Well	12.9	5	Immature	cut early summer2013.
81	4130 - Aspen	Sapling Well	16.8	5	Immature	Cut early summer 2013
82	42110 - Planted Red Pine	Sawtimber Well	36.9	97	81-110	Nice quality red pine stand with white pine that has been thinned in the past. Pin oak and white pine in understory. Some scattered red and jack pine saplings present also.
86	6113 - Lowland Maple	Sawtimber Medium	66.1	82	51-80	
91	42110 - Planted Red Pine	Sawtimber Well	2.7	97	111-140	Planted to red pine and jack pine in 1921. Hardwoods were removed in the past. Aspen and oak in sub canopy.
93	4319 - Mixed Upland Forest	Sawtimber Well	3.9	85	51-80	Large white pine with thick subcanopy of pine and fir. Transitions to red maple to the east.
94	6120 - Lowland Cedar	Sawtimber Well	4.2	128	51-80	
95	4199 - Other Mixed Upland Deciduous	Sapling Well	3.4	25	Immature	
96	42290 - Natural Mixed Pine	Sawtimber Well	27.2	82	81-110	Mixed pine stand with oak. Pin oak and jack pine are overmature and are experiencing mortality. Some mixed pine and oak in the subcanopy. Balsam fir along east side.
97	6117 - Lowland Deciduous, Mixed Coniferous	Poletimber Poor	5.9	73	Unspecified	Skinny lowland stand with broken canopy.
99	4125 - Black, N. Pin Oak	Sapling Poor	5.9	14	Immature	Harvested in 2003 and then burned in the Canoe Camps Fire in 2004.
101	4122 - Oak, Pine	Sapling Medium	5.8	15	Immature	
102	42120 - Planted Jack Pine	Sapling Well	52.7	25	Immature	
103	42110 - Planted Red Pine	Sawtimber Well	140.1	97	111-140	Planted to red pine and jack pine in 1921 among scattered red pine monarchs. Jack pine and oak was spec cut in 1992. Thinned in August/September 2013 to average of 105 SF of RP and 5 SF of WP
106	4130 - Aspen	Poletimber Well	6.9	27	Immature	Jack pine planted through regnerating aspen
107	42120 - Planted Jack Pine	Sapling Well	25.9	25	Immature	Linear marsh included. Aspen and cherry mixed in along the south line.

S t	Roscommon	Mgt. Unit		Report 7	– Forested	Stands Compartment: 13 Year of Entry: 2020
a n d	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
111	4130 - Aspen	Sapling Well	2.4	8	Immature	
114	6124 - Lowland Spruce- Fir	Poletimber Well	119.3	120	81-110	
116	6124 - Lowland Spruce- Fir	Sapling Well	10.0	36	Unspecified	
120	6113 - Lowland Maple	Sawtimber Well	5.4	105	51-80	
121	4125 - Black, N. Pin Oak	Sawtimber Medium	40.4	98	1-50	Stand was shelterwood cut in 2012. Remaining oak are in decline. Sub canopy consists of aspen, white pine and some oak. Some open areas have aspen saplings as canopy.
122	42220 - Natural Jack Pine	Poletimber Well	6.9	45	51-80	Narrow ridge of jack pine mixed with black spruce and some white pine. Most of the white pine is on east side.
123	42200 - Natural White Pine	Sawtimber Well	4.6	115	141-170	
126	42210 - Natural Red Pine	Sawtimber Well	5.0	85	81-110	Buffer between clear cut and bog.
127	4191 - Mixed Upland Deciduous with Conifer	Sapling Medium	6.3	16	Immature	Partially failed red pine plantation. Clones of aspen and scattered jack pine, cherry and oak.
128	4130 - Aspen	Poletimber Well	29.8	37	51-80	Nice stand of big tooth aspen mixed with conifers. Harvest next entry with stand to the east.
130	6120 - Lowland Cedar	Poletimber Well	7.9	125	81-110	
131	4310 - Pine, Oak Mix	Sawtimber Well	19.4	98	81-110	Stand of old pin/black oak mixed with pine and aspen. Oak is overmature and in decline. Aspen I primarily in the pole timber class but there are some older scattered ones as well. Scattered jack pine.
132	6122 - Black Spruce	Poletimber Well	32.2	120	81-110	Upland red pine that quickly transitions to lowland conifers
133	4199 - Other Mixed Upland Deciduous	Sawtimber Well	16.8	110	81-110	Large old pin/black oak stand with younger age class of aspen. Aspen is primarily 6-10". Good sub canopy of white pine and a few oak.
134	42120 - Planted Jack Pine	Sapling Medium	4.8	16	Immature	Partial failed red pine plantation. Lots of competition from jack pine volunteers. Some small bogs on west side.
135	42110 - Planted Red Pine	Sawtimber Well	26.4	80	81-110	Thinned in 2011. Nice red and white pine site. White pine and oak in sub canopy.

S t	Roscommon	Mgt. Unit		Report 7	- Forested	Stands Compartment: 13 Year of Entry: 2020
a n d	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
136	42110 - Planted Red Pine	Sawtimber Well	30.6	80	111-140	Red pine stand with oak, white pine and some aspen mixed in.
137	42110 - Planted Red Pine	Sawtimber Well	61.5	80	141-170	Nice pine site. Both red and white pine showing good form and growth. More white pine on south 1\2. White pine and some areas of oak in sub canopy. Could possibly thin stand. If thinned sub canopy hardwoods would become heavy and hard to control later on when stand is clearcut and replanted to red pine.
138	42110 - Planted Red Pine	Sawtimber Well	20.6	80	81-110	Thinned in 2000 and again in 2011. Advanced sub canopy of oak
139	42110 - Planted Red Pine	Sapling Well	10.9	25	Immature	
140	42250 - Pine, Oak	Sawtimber Well	16.2	88	81-110	Red pine, oak and jack pine stand. Advanced subcanopy of red pine, white pine and oak.
142	4311 - Pine, Aspen Mix	Poletimber Well	66.9	37	1-50	Mixed pine and aspen stand. Scattered red and white pine sawtimber with younger aspen and oak. More jack pine on se corner. More big tooth aspen on west and north sides. Allow quaking aspen and oak to put on more growth before harvesting.
143	4310 - Pine, Oak Mix	Sapling Medium	28.6	17	Immature	Burned in 2004 canoe camps fire.
144	612 - Lowland Coniferous Forest	Poletimber Well	12.1	125	111-140	
145	4133 - Aspen, Mixed Pine	Poletimber Well	11.9	37	51-80	Poor quality quaking aspen stand mixed with pine. Some big tooth on north end.
146	42110 - Planted Red Pine	Sawtimber Well	41.7	80	111-140	Heavy oak subcanopy. Stand has been thinned in the past. More aspen on west side.
147	42110 - Planted Red Pine	Sawtimber Well	21.6	80	81-110	Stand burned in 2004 canoe camps fires. decent advanced oak subcanopy.
149	42290 - Natural Mixed Pine	Sawtimber Well	19.6	80	81-110	Natural red and white pine stand with pockets of younger poletimber size jack pine. A few small wet meadows within stand.
150	4125 - Black, N. Pin Oak	Sapling Well	43.8	7	Immature	
151	42290 - Natural Mixed Pine	Sawtimber Well	11.0	74	1-50	Stand was shelterwood cut in 2013.
152	6113 - Lowland Maple	Sawtimber Well	7.5	100	51-80	

s t	Roscommon Mgt. Unit			Report 7	- Forested	Stands Compartment: 13 Year of Entry: 2020
a n d	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
154	42210 - Natural Red Pine	Sawtimber Well	50.8	80	81-110	Red pine sawtimber stand with pockets of jack pine pole timber. Stand under burned in the 2004 canoe camps wildfire. Give stand another 10 years or so until jack pine acquires more volume before harvesting.
155	4130 - Aspen	Sapling Well	18.8	14	Immature	STAND BURNED IN SPRING 2004 CANOE CAMPS FIRE, ORIGINALLY CUT IN 1992
159	4310 - Pine, Oak Mix	Sawtimber Well	44.1	110	81-110	Old low quality oak stand mixed with red and white pine. Some scattered big tooth aspen. Oak and aspen are in decline and are experiencing mortality. White pine in multiple age classes in the canopy.
160	6113 - Lowland Maple	Sawtimber Well	8.4	100	51-80	
161	6119 - Mixed Lowland Deciduous Forest	Sawtimber Medium	12.2	105	1-50	Red maple and swamp white oak
162	6119 - Mixed Lowland Deciduous Forest	Sawtimber Well	74.4	105	1-50	Red maple and swamp white oak.
164	6119 - Mixed Lowland Deciduous Forest	Sawtimber Medium	4.0	94	1-50	Red maple and swamp whit oak
166	611 - Lowland Deciduous Forest	Poletimber Well	14.9	100	111-140	
167	4310 - Pine, Oak Mix	Poletimber Well	23.7	27	Immature	More jack pine and drier on south end. Some wet swales within stand.
168	42210 - Natural Red Pine	Sawtimber Medium	7.5	126	111-140	
169	4220 - Natural White Pine	Sawtimber Well	3.1	100	51-80	
171	4220 - Natural White Pine	Poletimber Well	11.4	63	51-80	
172	42200 - Natural White Pine	Sawtimber Well	9.7	139	51-80	Small stand of large diameter white pine. Stand has had a treatment in the past and some of the maple and pine regeneration are reaching the canopy in gap areas.
173	6127 - Lowland Pine	Poletimber Well	9.9	100	81-110	
174	6120 - Lowland Cedar	Poletimber Well	17.9	134	81-110	
175	6113 - Lowland Maple	Sawtimber Well	33.9	100	81-110	Lowland hardwoods surrounding Muskegon River.

S t	Roscommor		Report 7	– Forested	Stands Compartment: 13 Year of Entry: 2020	DNR DNR	
a n d	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:	MICHIGAN
177	4133 - Aspen, Mixed Pine	Poletimber Well	25.6	43	51-80	Aspen stand with scattered mature red pine, white p	nine and oak.

Compartment: 13 Year of Entry: 2020



Stand	Cover Type	Acres	Managed Site	General Comments:
2	710 - Sand, Soil	6.9	No	
5	6220 - Alder/willow	4.0	No	
45	3105 - Mixed Upland Herbaceous	8.5	Yes	
46	6224 - Treed Bog	3.1	No	
59	629 - Mixed non-forested wetland	5.7	No	
71	629 - Mixed non-forested wetland	5.5	No	
72	629 - Mixed non-forested wetland	3.0	No	
73	629 - Mixed non-forested wetland	1.3	No	
75	6224 - Treed Bog	57.3	No	
80	6225 - Bog	4.8	No	
83	629 - Mixed non-forested wetland	8.0	No	
84	629 - Mixed non-forested wetland	0.8	No	
89	629 - Mixed non-forested wetland	4.5	No	
90	6229 - Mixed lowland shrub	1.4	No	Mixed alder and cattail
92	3105 - Mixed Upland Herbaceous	1.6	No	Old oil well site.
98	629 - Mixed non-forested wetland	2.0	No	
100	6224 - Treed Bog	4.4	No	
115	623 - Emergent Wetland	3.4	No	
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Compartment: 13 Year of Entry: 2020



Stand	Cover Type	Acres	Managed Site	General Comments:
118	6229 - Mixed lowland shrub	16.9	No	OPIC - FMD: OI Stand Year Origin was
119	500 - Water	4.1	No	
124	6224 - Treed Bog	20.1	No	OPIC - FMD: OI Stand Year Origin was
125	6225 - Bog	65.8	No	
148	3102 - Grass	9.2		Trenched in 2013; Planted to red pine in 2015 with two small retention pockets. Third year regeneration check done in the spring 2018 and everything was good. No need for further action.
153	500 - Water	28.8	No	OPIC - FMD: MUSKEGON RIVER AND OXBOWS
156	623 - Emergent Wetland	8.1	No	
157	3102 - Grass	1.7	No	
158	6225 - Bog	2.7	No	burned in 2004
163	500 - Water	6.6	No	MUSKEGON RIVER OXBOW
165	3102 - Grass	0.9	No	OPIC - FMD: CAMPING AREAS ALONG MUSKEGON RIVER, SCATTERED TREES
176	500 - Water	3.0	No	Oxbow