



**ROSCOMMON FOREST MANAGEMENT UNIT
COMPARTMENT REVIEW PRESENTATION**

COMPARTMENT # 196 ENTRY YEAR: 2013

Compartment Acreage: 2103 County: Ogemaw

Revision Date: 06-29-2011

Stand Examiner: Ben Wiese

Legal Description: T24N R02E sections 26, 27, 28, 33, and 34

Management Area: Ogemaw Hills

Management Goals: Provide for sustainable ecosystem based management. Maintain healthy and diverse forested stands for wildlife, recreation and the production of forest products. Continued surface use for gas and oil wells. Commercial timber harvests to thin overstocked red pine and oak stands.

Soil and Topography: Surface soils are sand and include Graycalm, Rubicon, Klacking, Mancelona, Menominee, Crowell and Montcalm. The topography is hilly.

Ownership Patterns, Development, and Land Use in and Around the Compartment: The compartment is bordered by state owned land and private parcels. There are numerous gas and oil wells and their associated flow lines. The Breitburn gas plant is located within this compartment.

Unique, Natural Features: None noted.

Archeological, Historical, and Cultural Features: None noted.

Special Management Designations or Considerations: None noted

Watershed and Fisheries Considerations: None noted.

Wildlife Habitat Considerations: Deer, grouse, turkey, bear, birds.

Mineral Resource and Development Concerns and/or Restrictions: Surface sediments consist of ice-contact and glacial outwash sand and gravel and postglacial alluvium. The glacial drift thickness varies between 400 and 600 feet. Beneath the glacial drift are the Mississippian Marshall Sandstone and Coldwater Shale. The Marshall has been used as a building stone. Most of the nearby gravel pits are associated with upland areas and potential appears to be good. The main Rose City Field is located in the west half of the compartment. The three fields have produced over 9.3 million BO and 9.9 Bcf gas from the Devonian Richfield Formation and are in secondary recovery operations currently. The main field also produces from

the Prairie du Chien, and has produced over 31 Bcf gas and 200,000 BO. All of the State land is currently leased for oil and gas development.

Vehicle Access: There is good access throughout the compartment, the many forest roads, and snowmobile trails.

Survey Needs: None at this time

Recreational Facilities and Opportunities: Opportunities include hunting, snowmobiling and ORV operating.

Fire Protection: Mostly mixed upland hardwood cover types.

Additional Compartment Information:

- **The following 5 reports from the Inventory System:**
 - ◆ **Cover Type by Age Class**
 - ◆ **Cover Type by Management Objective**
 - ◆ **Compartment Volume Summary**
 - ◆ **Proposed Treatments – No Limiting Factors**
 - ◆ **Proposed Treatments – With Limiting Factors**

- **The following information is displayed, where pertinent, on the attached compartment maps:**
 - ◆ **Base feature information, stand numbers, cover types**
 - ◆ **Proposed treatments**
 - ◆ **Proposed road access system**
 - ◆ **Suggested potential old growth**

Cover Type & Treatment Map

Compartment 196
 T24N, R02E, Sec. 26-28, 33-34
 County: Ogemaw
 Unit: Roscommon
 YOE: 2013
 Acres: 2,063 GIS Calculated
 Stand Examiner: Ben Wiese
 Map Revised: 8/15/2011
 Map Phase: Pre-Review

Stand #
 23
 (412)0 - A7
 Level 3 OI
 Level 4 Code
 Cover Type Code

Legend

Miris Corners	MCCCT Trails
Paved Roads	ORV Trails
County Gravel Roads	Ski Trails
Poor Dirt Roads	Snowmobile Trails
Culverts	MCCCT Trail
Intermittent Stream/Drain	ORV Trail
Stream	Ski Trail
Power	Snowmobile Trail
Lakes and Rivers	State Forest Land
Treatments	
Thinning (Crown, Low, Systematic)	

Forest Stands

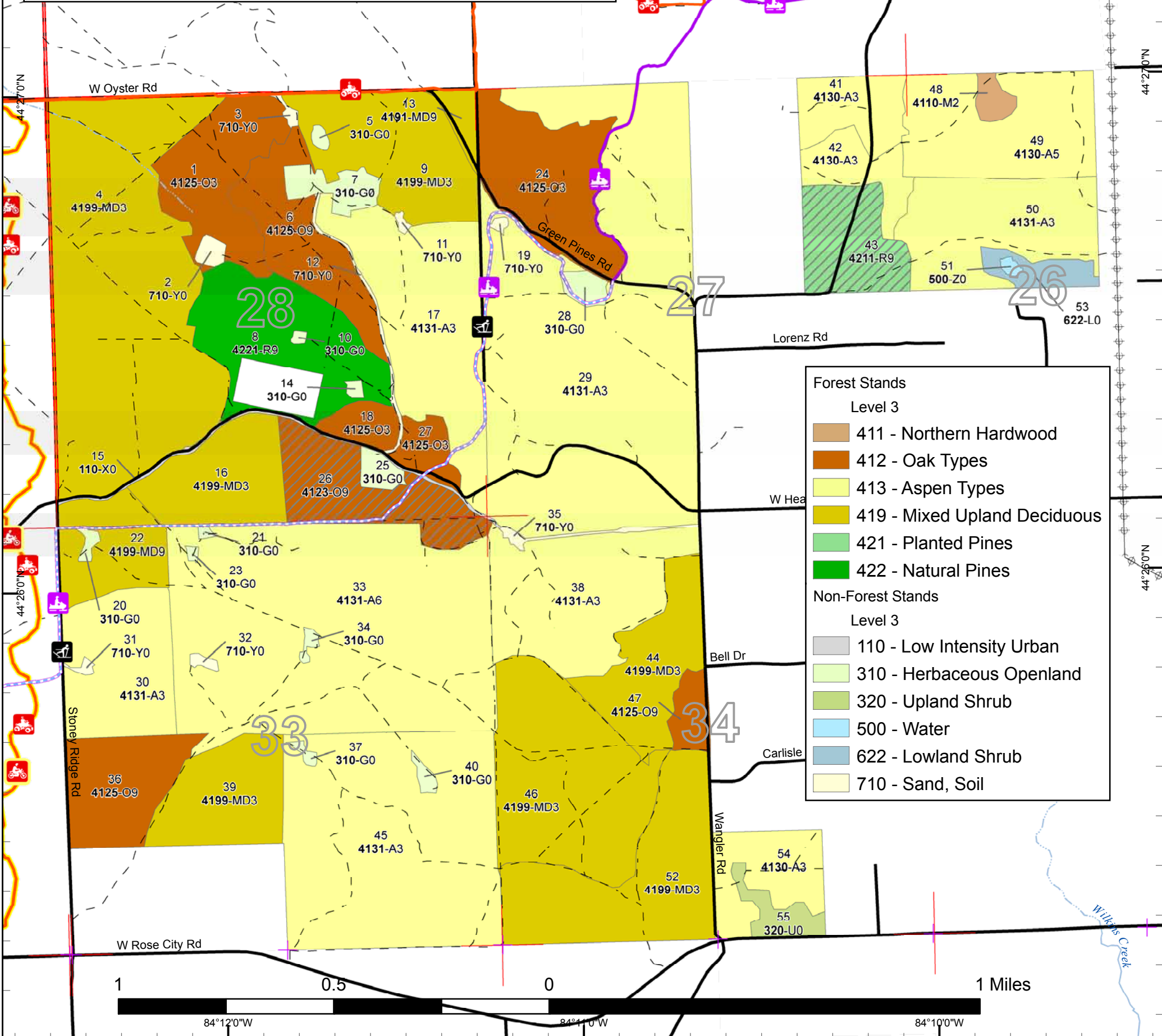
Level 3

- 411 - Northern Hardwood
- 412 - Oak Types
- 413 - Aspen Types
- 419 - Mixed Upland Deciduous
- 421 - Planted Pines
- 422 - Natural Pines

Non-Forest Stands

Level 3

- 110 - Low Intensity Urban
- 310 - Herbaceous Openland
- 320 - Upland Shrub
- 500 - Water
- 622 - Lowland Shrub
- 710 - Sand, Soil



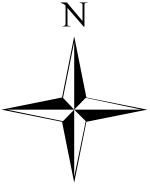
84°12'0"W

84°11'0"W

84°10'0"W

Dedicated & Proposed Special Conservation Area Map

Compartment 196
 T24N, R02E, Sec. 26-28, 33-34
 County: Ogemaw
 Unit: Roscommon
 YOE: 2013
 Acres: 2,063 GIS Calculated
 Stand Examiner: Ben Wiese
 Map Revised: 8/15/2011
 Map Phase: Pre-Review



Stand #
 23
Stocking Density
 (412)0 - A7
 Level 3 OI
 Level 4 Code
Cover Type Code

Legend		Forest Stands	Non-Forest Stands
—	Miris Corners	Level 3	Level 3
+	Remonumented Section Corners	411 - Northern Hardwood	110 - Low Intensity Urban
■	High Conservation Value Areas	412 - Oak Types	310 - Herbaceous Openland
■	Kirtland Warbler Habitat	413 - Aspen Types	320 - Upland Shrub
□	Stand Boundaries	419 - Mixed Upland Deciduous	500 - Water
		421 - Planted Pines	622 - Lowland Shrub
		422 - Natural Pines	710 - Sand, Soil

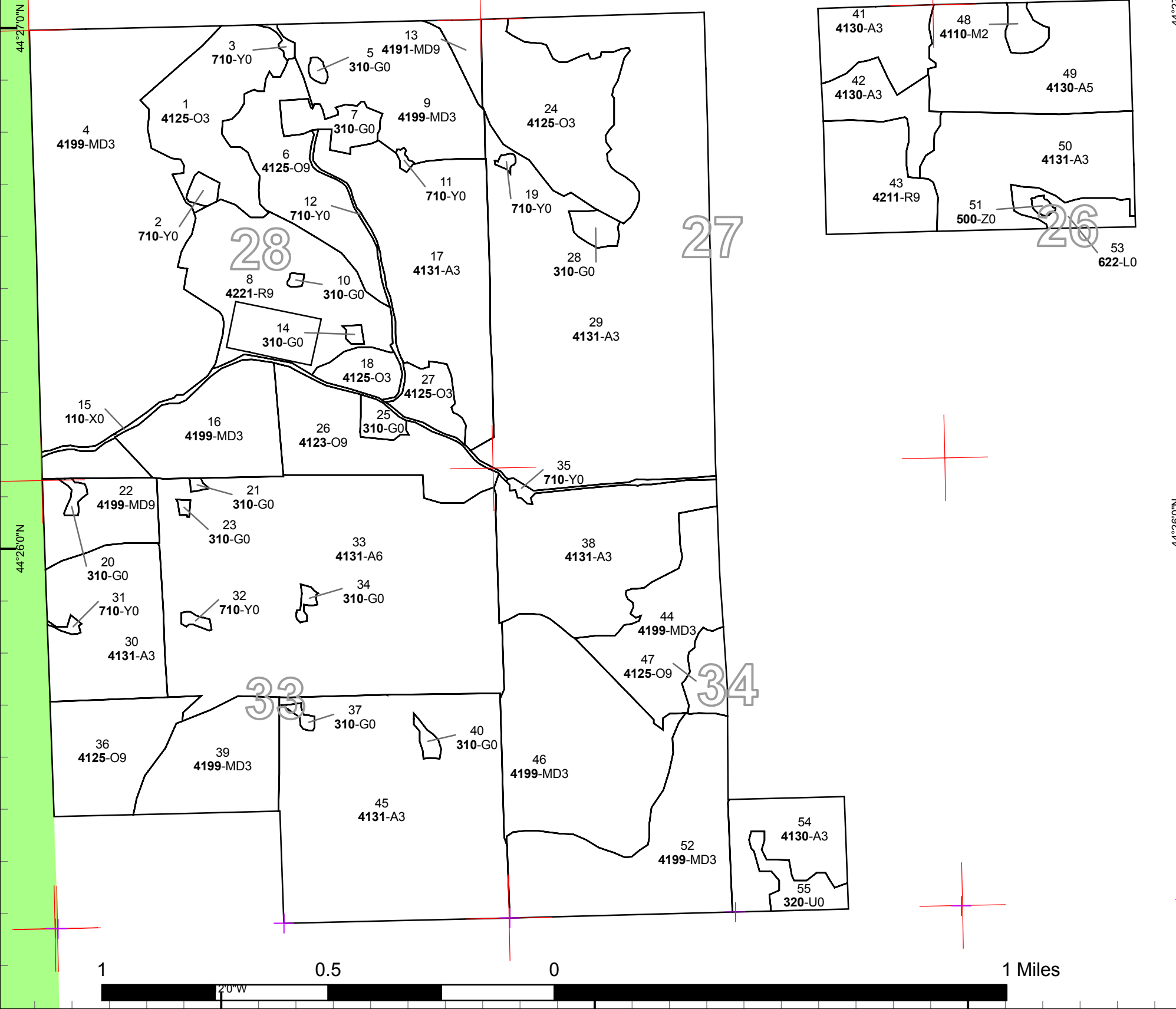


Table 1 – Total Acres by Cover Type and Age Class



	Age Class														Total	
	Non-Forested	1-9	10-19	20-29	30-39	40-49	50-59	60-69	70-79	80-89	90-99	100-109	110-119	120 +		Unretn Age
Aspen	0	141	574	53	289	0	0	0	0	0	0	0	0	0	0	1057
Herbaceous Openland	29	0	0	0	0	0	0	0	0	0	0	0	0	0	0	29
Lowland Shrub	10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	10
Mixed Upland Deciduous	0	319	177	58	0	0	0	7	0	0	0	0	0	24	0	585
Northern Hardwood	0	5	0	0	0	0	0	0	0	0	0	0	0	0	0	5
Oak	0	57	46	10	0	11	0	0	0	54	79	0	0	0	0	256
Red Pine	0	0	0	0	0	58	0	0	34	0	0	0	0	0	0	92
Sand, Soil	13	0	0	0	0	0	0	0	0	0	0	0	0	0	0	13
Upland Shrub	10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	10
Urban	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6
Water	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
Total	68	522	797	121	289	69	0	7	34	54	79	0	0	24	0	2063



Table 2 – Proposed Treatment Summaries

Roscommon Mgt. Unit
Year of Entry 2013

Compartment 196
Total Compartment Acres: 2063

Acres by Treatment Type

Commercial Harvest - 78	Site Prep - 0	Tree Planting - 0	Prescribed Burn - 0	Other - 0
Habitat Cut - 0	Opening Maintenance - 0	Tree Seeding - 0	Pesticide - 0	

Cover Type by Harvest Method

	<i>Clearcut</i>	<i>Selection</i>	<i>Seed Tree</i>	<i>Shelterwood</i>	<i>Thinning</i>	<i>Other - Specify</i>	<i>Total Acres</i>
Oak	0	0	0	0	44	0	44
Red Pine	0	0	0	0	34	0	34
Total	0	0	0	0	78	0	78

**Table 3 -- Treatments Prescribed
with No Limiting Factor**

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	Treatment Name	Acres	Stage1 CoverType	Size Density	Stand Age	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
26	71196026-Cut	43.8	4123 - Red Oak	High Density Log	82	Harvest	Low Thinning	4123 - Red Oak	Cmpt. Review Proposal

Prescription: Thin to 80-90 basal area. Leave best formed healthiest trees. Encourage growth of the red maple poles. Open canopy to get sun to forest floor
Specs: to promote growth of oak saplings.

Other Comments: Snomobile trail runs through stand add appropriate protection specs.

Next Steps:

43	71196043-Cut	34.0	42110 - Planted Red Pine	High Density Log	62	Harvest	Low Thinning	42110 - Planted Red Pine	Cmpt. Review Proposal
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Prescription: Thin from below to 80-100 BA. Promote the growth of sawlogs and utility poles.
Specs:

Other Comments:

Next Steps:

**Total Treatment
Acreage Proposed: 77.8**

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Treatment Name	Acres	Stage1 CoverType	Size Density	Stand Age	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
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Prescription
Specs:

Other
Comment:

Next
Steps:

Limiting Factor and No
Treatment Reason

**Total Treatment
Acreage Proposed: 0**

**Out of YOE -- Treatments
Prescribed with No Limiting Factor**

Year of Entry: 2013



Treatment Name	Acres	Stage1 CoverType	Size Density	Stand Age	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
71048_OutOfY OE_1-Cut	2.2				Harvest	Low Thinning	42111 - Planted Red Pine, Mixed Deciduous	Cmpt. Review Proposal
<p><u>Prescription</u> thin to 120 SF by concentrating on improving the quality of the stand, no retention other than residual RP, save areas heavy to oak understory <u>Specs:</u> where possible</p> <p><u>Other</u> cut with stand to the west in 71046 <u>Comments:</u></p> <p><u>Next</u> manage for utility poles next YOE <u>Steps:</u></p>								
71048_OutOfY OE-Cut	4.0			0	Harvest	Clearcut with Reserves	4131 - Aspen, Oak	Cmpt. Review Proposal
<p><u>Prescription</u> final harvest for aspen mgmt., mark oak SL to leave for wildlife mast, mark R/W pine SL for diversity, no retention other than marked leave <u>Specs:</u> trees, address green-up concerns on the east side of this stand if still a problem, dormant season cut to promote vigorous sprouting of the older aspen in the stand, any regeneration to a fully stocked stand is acceptable, trench and plant RP if regeneration fails</p> <p><u>Other</u> cut with stand to the west in 71046 <u>Comments:</u></p> <p><u>Next</u> <u>Steps:</u></p>								
71118_OutOfY OE-Cut	6.6			0	Harvest	Clearcut with Reserves	4131 - Aspen, Oak	Cmpt. Review Proposal
<p><u>Prescription</u> final harvest for aspen mgmt. mark or leave all oak for diversity/retention/visuals. buffer low marshy ground on southwest. leave out any wetter <u>Specs:</u> areas in the north part of the stand for BMP reasons. leave out areas with heavy R/W pine component for diversity/retention/visuals. Any regeneration of aspen/oak/pine to a fully stocked stand is acceptable. regeneration alternative is to plant red pine if stand is not fully stocked but this is unlikely.</p> <p><u>Other</u> treat with stand to the west in 71117, add proper protection specs to ensure trail status open to snowmobiles during hauling <u>Comments:</u></p> <p><u>Next</u> <u>Steps:</u></p>								
71165_OutOfY OE-Cut	5.1				Harvest	Low Thinning	42260 - Natural Pine, Mixed Deciduous	Cmpt. Review Proposal
<p><u>Prescription</u> thin to 90-120 SF/Acre so as to enhance old growth/bio-diversity characteristics <u>Specs:</u></p> <p><u>Other</u> stand has a dense A/RM understory which will need to be addressed with appropriate sale specs, save W3 understory where possible, treat <u>Comments:</u> stand to the west in 71163 when this stand is treated (same stand)</p> <p><u>Next</u> <u>Steps:</u></p>								
Total Treatment Acreage Proposed:	17.9							

Stand	Roscommon Mgt. Unit		5 – Forested Stands			Compartment: 196	General Comments:
	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Year of Entry: 2013	
1	4125 - Black, N. Pin Oak	High Density Sapling	46.0	17			Stand was clearcut in 1994. Oak with some red maple and black cherry.
4	4199 - Other Mixed Upland Deciduous	High Density Sapling	197.9	5			Stand was clearcut in 2005. Regeneration is mixed upland deciduous. Oak and aspen in concentrations creates variability in the canopy.
6	4125 - Black, N. Pin Oak	High Density Log	40.0	92	81-110		Stand was harvested in 1996 by removing all merchantable red maple and aspen. Nice red oak, healthy trees, good logs. Red maple understory dense in places, many stump sprouts.
8	42211 - Natural Red Pine, Mixed Deciduous	High Density Log	58.2	45	81-110		Natural red pine, mixed upland stand. The red pine is mostly open grown with large crowns and relatively short boles. Red maple poles, mainly stump sprouts. Scattered super canopy red pine.
9	4199 - Other Mixed Upland Deciduous	High Density Sapling	58.0	25			Stand was clearcut in the mid 1980's. Mixed upland. Canopy species not evenly distribute, more oak to the west and more open to the east.
13	4191 - Mixed Upland Deciduous with Conifer	High Density Log	6.6	67	81-110		Mixed upland stand located on steep slope. Majority of conifer located in the north part.
16	4199 - Other Mixed Upland Deciduous	High Density Sapling	42.3	17			Stand was regenerated in 1994 is now upland mix. More oak and cherry to the west. East side is higher elevation, quality of red maple and oak improves.
17	4131 - Aspen, Oak	High Density Sapling	85.8	6			Stand was clearcut in 2005. Upland mix with aspen as the main canopy species.
18	4125 - Black, N. Pin Oak	High Density Sapling	9.8	20			
22	4199 - Other Mixed Upland Deciduous	High Density Log	24.3	130	81-110		Mixed upland, oak and aspen stand. A ridge runs east to west through the central part of the stand. The trees are poorer quality to the east. There is more witch hazel on the south side. Pockets of red pine saplings. White oak seedlings are throughout the understory, in some locations very dense. It looks as if the red maple was cut about 25 years ago. There is trace jack pine and white pine to the west and bigtooth aspen seedlings at random.
24	4125 - Black, N. Pin Oak	High Density Sapling	57.2	6			Stand was clearcut in 2005, canopy is mostly oak with a mix of upland deciduous species. Logging slash is present but almost decayed.
26	4123 - Red Oak	High Density Log	43.8	82	111-140		Nice red oak stand. Grade oak both single and double stems. Appears that aspen and red maple were removed 30-40 years ago.
27	4125 - Black, N. Pin Oak	High Density Sapling	10.8	40	51-80		Poor quality oak. Oak and red maple seedlings becoming established in the understory.



Stand	Roscommon Mgt. Unit		5 – Forested Stands			Compartment: 196	General Comments:
	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Year of Entry: 2013	
29	4131 - Aspen, Oak	High Density Sapling	262.5	17			Stand is made of several stands that were clearcut between 1994 and 1996. They have regenerated to a mix of aspen, oak, red maple, and black cherry. There are understory oak red maple and witch hazel seedlings that are less than three feet tall.
30	4131 - Aspen, Oak	High Density Sapling	53.4	26			Stand was clearcut in 1985. Cover type is mostly aspen and oak saplings. Stand is healthy.
33	4131 - Aspen, Oak	High Density Pole	224.4	38	81-110		Aspen and mixed upland, scattered super canopy black oak, red oak and white oak.
36	4125 - Black, N. Pin Oak	High Density Log	39.1	98	51-80		Stand is mixed upland deciduous, the quality of the black oak/red oak ranges from poor to good. Oak regen is present the seedlings are of various height. Scattered red pine saplings and poles. Pockets of bigtooth aspen. Illegal ATV trail in stand.
38	4131 - Aspen, Oak	High Density Sapling	75.5	17			Stand was clearcut in 1994.
39	4199 - Other Mixed Upland Deciduous	High Density Sapling	41.3	17			Stand was regenerated in 1994. Old drilling platform in north part of stand.
41	4130 - Aspen	High Density Sapling	24.0	6			Stand was clearcut in 2005. Scattered patches with no regeneration, good for diversity. Scattered jack pine regen in pockets. Single stem oak seedlings less than 3 feet tall.
42	4130 - Aspen	High Density Sapling	19.3	17			Stand was clearcut in 1994. Aspen with mixed upland deciduous.
43	42110 - Planted Red Pine	High Density Log	34.0	71	111-140		Quality red pine on a good site. Stand has been thinned difficult to tell when or by what method. Stand was prescribed in 1993 to remove merchantable species other than red pine and oak. Beech seedlings present in the understory. Subcanopy dense in paces.
44	4199 - Other Mixed Upland Deciduous	High Density Sapling	43.6	6			Stand was regenerated in 2005. Currently upland mix of oak, aspen, cherry and red maple.
45	4131 - Aspen, Oak	High Density Sapling	155.0	17			Stand was regenerated in 1994, currently mixed upland deciduous. Just entering pole class.
46	4199 - Other Mixed Upland Deciduous	High Density Sapling	93.5	17			Stand was regenerated in 1994.
47	4125 - Black, N. Pin Oak	High Density Log	9.7	85	111-140		Nice stand, may be the only one in the compartment that has not been managed. Nice red oak. Trace white ash co-dominants and seedlings.
48	4110 - Sugar Maple Association	Medium Density	4.9	6			Stand was clearcut in 2005. Small pond in central part of stand. Regen is mostly cherry, with oak and maple seedlings that are less than three feet tall and don't meet inventory standards. Very low density of autumn olive present.



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Roscommon Mgt. Unit

5 – Forested Stands

Compartment: 196
Year of Entry: 2013

	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
49	4130 - Aspen	Medium Density Pole	64.3	34	141-170	Stand is even aged aspen. Small scattered wet pockets with alder. Trace oak in the canopy.
50	4131 - Aspen, Oak	High Density Sapling	61.9	17		Stand was clearcut 17 years ago, mixed upland with good regen. Small stand of pole and log size red maple, bigtooth aspen, beech, oak and birch trees along power lines.
52	4199 - Other Mixed Upland Deciduous	High Density Sapling	77.0	6		Final harvest in 2005, currently mixed upland deciduous.
54	4130 - Aspen	High Density Sapling	31.2	7		Stand regenerated in 2004. Aspen mixed deciduous.



Stand	Cover Type	Acres	Managed Site	Management Priority (Objective)	General Comments:
2	710 - Sand, Soil	2.4	No	Unspecified	Gas well pad, operations not yet started.
3	710 - Sand, Soil	1.1	No	Unspecified	Well pad.
5	3102 - Grass	1.1	No	Unspecified	Bowl-frost pocket.
7	3102 - Grass	10.4	No	Unspecified	Gas well pad not yet active.
10	3102 - Grass	0.6	No	Unspecified	Active oil well. Jack pine and cherry saplings present.
11	710 - Sand, Soil	0.7	No	Unspecified	Active oil well.
12	710 - Sand, Soil	3.0	No	Unspecified	Road
14	3102 - Grass	0.9	No	Unspecified	Scattered jp, oak, red pine saplings and pole sized.
15	11 - Low Intensity Urban	5.7	No	Unspecified	Road, sand and gravel.
19	710 - Sand, Soil	0.7	No	Unspecified	Well pad.
20	3102 - Grass	1.6	No	Unspecified	Scattered black cherry and red pine.
21	3102 - Grass	0.6	No	Unspecified	
23	3102 - Grass	0.6	No	Unspecified	Inactive well site.
25	3102 - Grass	4.6	No	Unspecified	well pad.
28	3102 - Grass	4.4	Yes	Low (NonForested)	Active gas well.
31	710 - Sand, Soil	0.8	No	Unspecified	Active oil well site.
32	710 - Sand, Soil	1.1	No	Unspecified	Active oil well.
34	3102 - Grass	1.2	No	Unspecified	Inactive oil well.



Stand	Cover Type	Acres	Managed Site	Management Priority (Objective)	General Comments:
35	710 - Sand, Soil	2.8	No	Unspecified	Former well pad. RDR site
37	3102 - Grass	1.1	No	Unspecified	Old well site, well is gone. Cover is grass and knapweed.
40	3102 - Grass	1.8	No	Unspecified	Inactive well. Cover is grass and knapweed.
51	50 - Water	1.0	No	Unspecified	Small beaver pond.
53	6220 - Alder/willow	10.0	No	Unspecified	Old beaver flooding.
55	3202 - Autumn Olive/Honeysuckle	9.7	No	Unspecified	Mostly open grass, some warm season. Autumn olive is established and becoming more so. Several large open holes, appear to be old borrow pits.



7 – 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.

Stand	SCA Type	SCA Name	Acres	Comments
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8 – DEDICATED CONSERVATION AREA DETAILS

* This is a list of Dedicated Biodiversity Areas for this compartment along with a 1/4 mile buffer surrounding the compartment. Refer to Dedicated Conservation Area Map for areas that the below listed Conservation Areas are located.

ERA = Ecological Reference Area
 HCVA = High Conservation Value Area
 SCA = Special Conservation Area

Conservation Area	Type	Description
HCVA	Designated Critical Habitat	Critical habitat areas are established via a consultative and cooperative process between the DNR and the U.S. Fish and Wildlife service for the recovery of threatened and endangered species, as governed by Part 365, Endangered Species Protection, of the Natural Resources and Environmental Protection Act, 1994 PA 451, and the Federal Endangered Species Act of 1973. This is an active program, with proposed species plans in various stages of review. As of now only two exist, Kirtland Warbler Habitat and Piping Plover Habitat.