



Roscommon Forest Management Unit
Compartment Review Presentation
Compartment #92 **Entry Year: 2013**
Compartment Acreage: 1349 **County: Roscommon**

Revision Date: 6/28/2011

Stand Examiner: S. Anderson

Legal Description: T23N R1W Sections 23 - 26

Identified Planning Goals: Kirtland's Warbler Management Unit

Management Goals: Maintain current age and species diversity in a range of early and late successional ecosystems as specified by the Kirtlands Warbler Management Plan (KWMP) and the St. Helen Motorsport Area plan.

Soil and Topography: Terrain in the compartment is primarily flat in the northern half of the compartment and gently rolling in the southern half of the compartment. Soils are primarily Grayling or Graycalm sands with smaller amounts of Rubicon and Croswell sands and Au Gres-Deford sandy-loams.

Ownership Patterns, Development, and Land Use in and Around the Compartment: Compartment consists of a large solid block of state land with small sub-divided parcels to the southwest, west and northwest (Town of St. Helen). The adjacent land to the northeast, east, and southeast of the compartment is state land.

Unique, Natural Features: No kirtlands warblers are recorded as currently nesting in the compartment.

Archeological, Historical, and Cultural Features: None recorded or found during fieldwork.

Special Management Designations or Considerations: Most of the state land in this compartment is in Kirtlands Warbler Management Blocks 109 and 111.

Watershed and Fisheries Considerations: Lake St. Helen is approximately 1 mile to the northwest.

Wildlife Habitat Considerations: Maintain as much ecosystem diversity in the compartment as possible given constraints imposed by the KWMP and the St. Helen Motorsport Area Plan to benefit game species such as deer as well as non-game species.

Mineral Resource and Development Concerns and/or Restrictions: Surface sediments consist of glacial outwash sand and gravel and postglacial alluvium. The glacial drift thickness varies between 400 and 600 feet. Beneath the glacial drift is the Mississippian Michigan Formation. The Michigan is quarried for gypsum elsewhere in the State. Most of the nearby gravel pits are associated with upland areas. The nearest gravel pit is located just over one mile to the southwest and potential is thought to be limited. St. Helen Field lies five miles to the north. The field has produced over 8.7 million BO and 14.7 Bcf gas from the Devonian Richfield

Formation. It is in secondary recovery operations currently. None of the State land is currently leased in the compartment.

Vehicle Access: Vehicle access to both the exterior and the interior of the compartment is good via county roads, seasonal county roads, forest roads, and recreational trails. Compartment has many illegal ORV trails due to the close proximity to residential areas and the recreation trails/motorsport area in the compartment.

Survey Needs: None needed at this time.

Recreational Facilities and Opportunities: Portions of the St. Helen Snowmobile Trail, St. Helen ORV Loops, the MCCCT Trail, and MTM Trail are found within the compartment. Section 25 is the northern portion of the St. Helen Motorsport Area and the St. Helen ORV Trailhead/parking lot is located in the northeast part of Section 25.

Fire Protection: This compartment has an abundance of jack pine cover types of mostly younger ages and is in the Zone 3 fire dispatch area. The wildland-urban interface in this compartment is very high due to proximity to St. Helen and the many legal and illegal recreational trails. Remnants of a number of small and a few large jack pine fires can still be found on the landscape.

Additional Compartment Information: Proposed treatments in the compartment include 126 acres of final harvests/seed tree cuts in jack pine-oak and jack pine-red pine-oak cover types.

- **The following reports from the Inventory are attached:**
 - ◆ **Total Acres by Cover Type and Age Class**
 - ◆ **Proposed Treatment Summary**
 - ◆ **Proposed Treatments – No Limiting Factors**
 - ◆ **Proposed Treatments – With Limiting Factors**
 - ◆ **Stand Details (Forested and Nonforested)**
 - ◆ **Dedicated and Proposed Special Conservation Areas**

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

Cover Type & Treatment Map

Stand #
23
(4120) - A7
 Level 3 OI
 Level 4 Code
Cover Type Code

Compartment 92
 T23N, R01W, Sec. 24-26
 County: Roscommon
 Unit: Roscommon
 YOE: 2013
 Acres: 1,368 GIS Calculated
 Stand Examiner: Steve Anderson
 Map Revised: 8/15/2011
 Map Phase: Pre-Review

24
 26 25

Legend

- Paved Roads
- County Gravel Roads
- Gravel Roads
- Poor Dirt Roads
- County Poor Dirt Roads
- Closed Roads
- Railroads
- Intermittent Stream/Drain
- Stream
- Lakes and Rivers
- MCCCT Trails
- ORV Trails
- ORV Routes
- Snowmobile Trails
- MCCCT Trail
- ORV Route
- ORV Trail
- Snowmobile Trail
- State Forest Land

Treatments

- Clearcut (w/Reserves, Patch/Strip)

Forest Stands

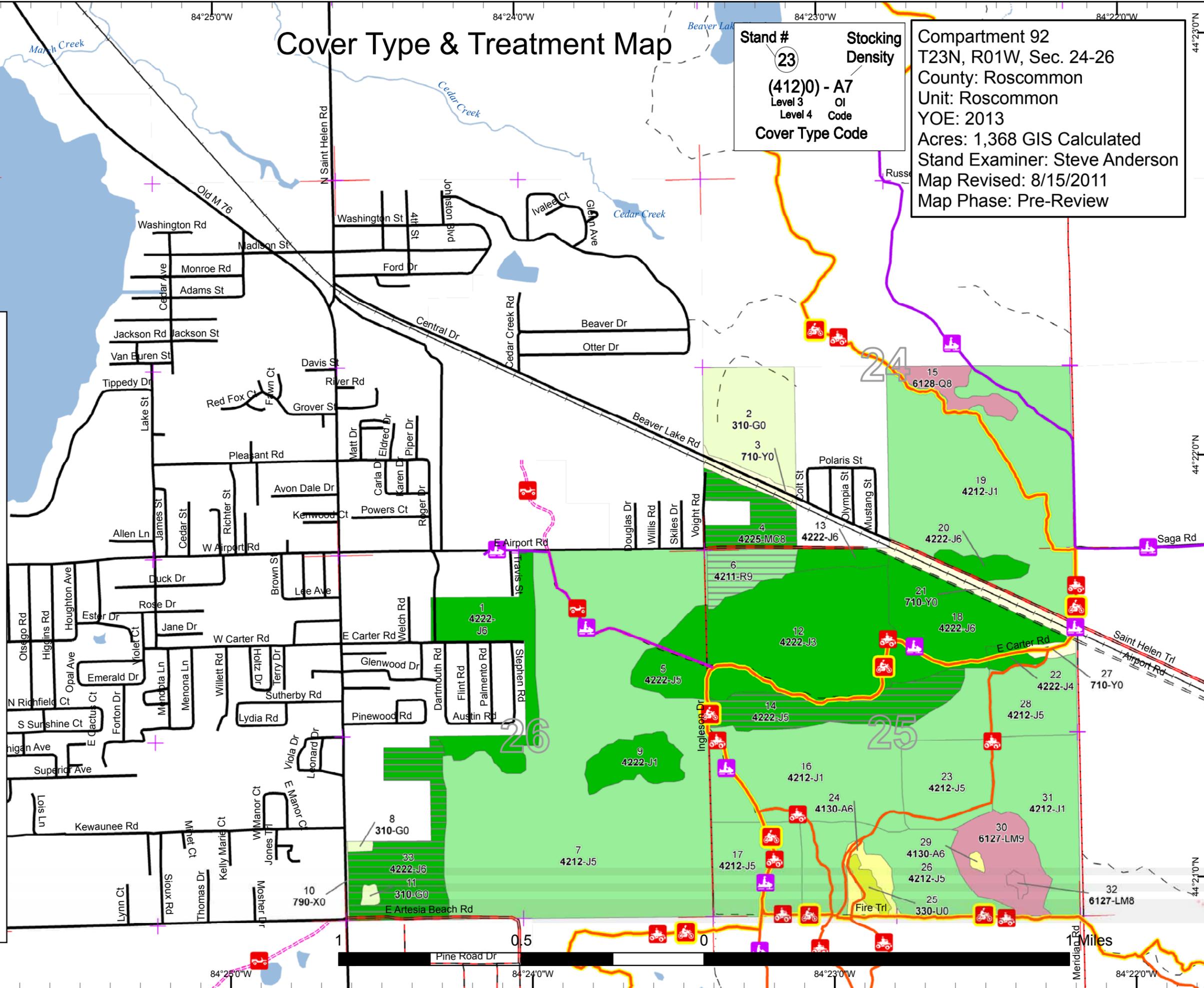
Level 3

- 413 - Aspen Types
- 421 - Planted Pines
- 422 - Natural Pines
- 612 - Lowland Coniferous Forest

Non-Forest Stands

Level 3

- 310 - Herbaceous Openland
- 330 - Low-Density Trees
- 710 - Sand, Soil
- 790 - Other Bare/Sparsely Vegetated



Stand Boundary Map

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

Compartment 92
 T23N, R01W, Sec. 24-26
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24
26 25

Legend

- Miris Corners
- Paved Roads
- County Gravel Roads
- Gravel Roads
- Poor Dirt Roads
- County Poor Dirt Roads
- Closed Roads
- Railroads
- Intermittent Stream/Drain
- Stream
- MCCCT Trails
- ORV Routes
- ORV Trails
- Snowmobile Trails
- MCCCT Trail
- ORV Route
- ORV Trail
- Snowmobile Trail
- Stand Boundaries

Forest Stands

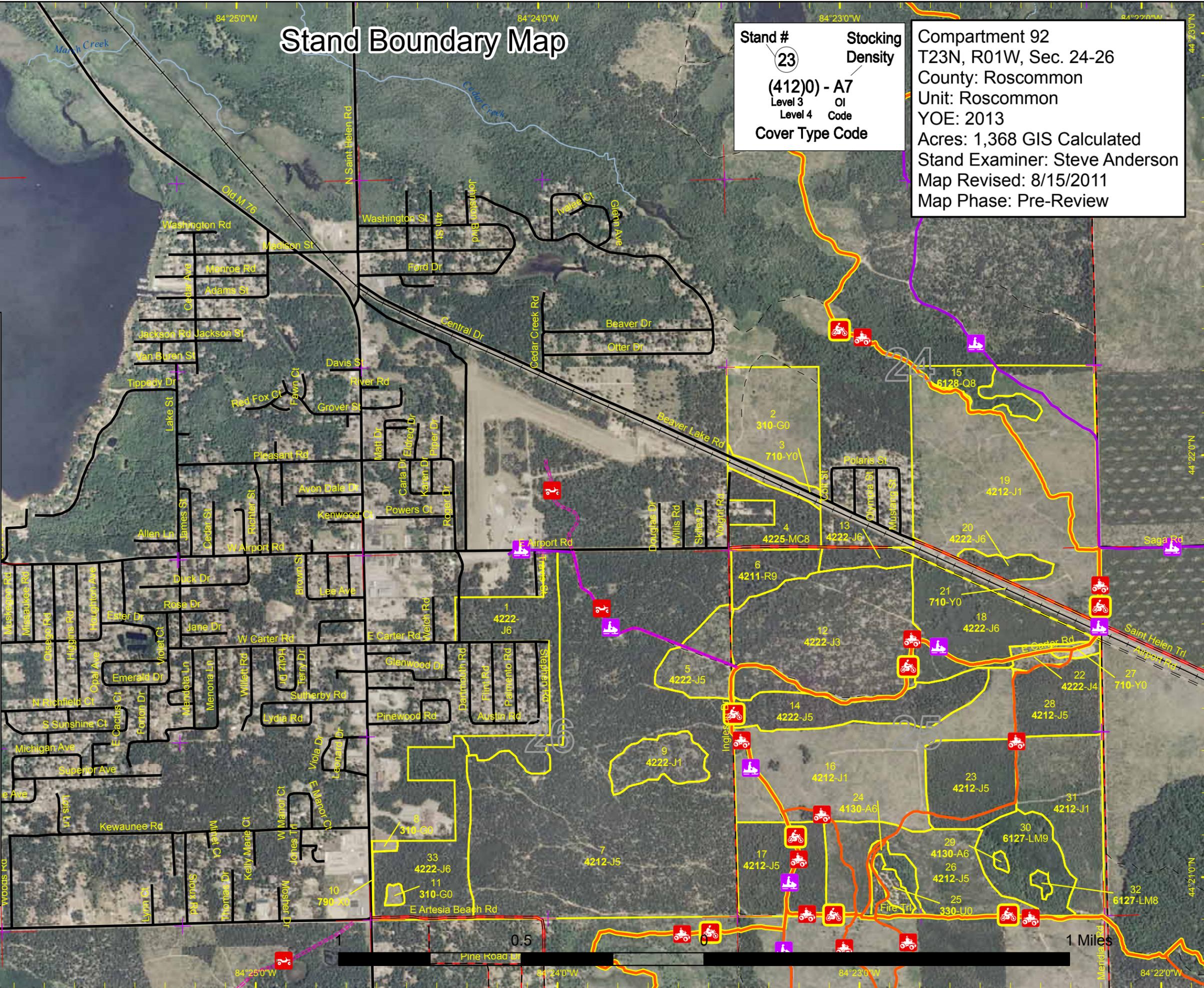
Level 3

- 413 - Aspen Types
- 421 - Planted Pines
- 422 - Natural Pines
- 612 - Lowland Coniferous Forest

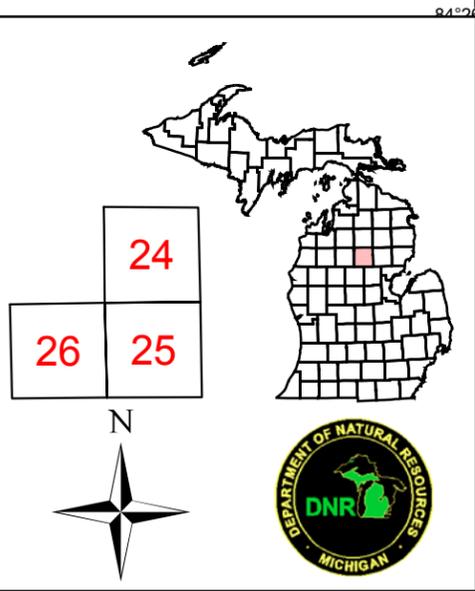
Non-Forest Stands

Level 3

- 310 - Herbaceous Openland
- 330 - Low-Density Trees
- 710 - Sand, Soil
- 790 - Other Bare/Sparsely Vegetated



Dedicated & Proposed Special Conservation Area Map



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

Compartment 92
 T23N, R01W, Sec. 24-26
 County: Roscommon
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 Acres: 1,368 GIS Calculated
 Stand Examiner: Steve Anderson
 Map Revised: 8/15/2011
 Map Phase: Pre-Review

- Legend**
- Miris Corners
 - + Remonumented Section Corners
 - Proposed Special Conservation Areas
 - ▨ SCA - Special Conservation Area
 - High Conservation Value Areas
 - Kirtland Warbler Habitat
 - Special Conservation Areas
 - Wildlife Management Areas
 - Stand Boundaries
 - Forest Stands
 - Level 3
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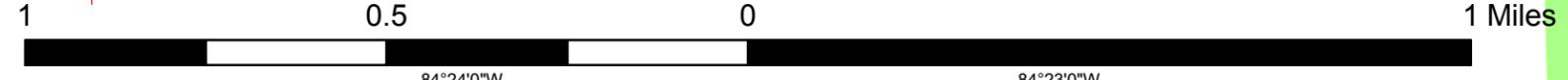
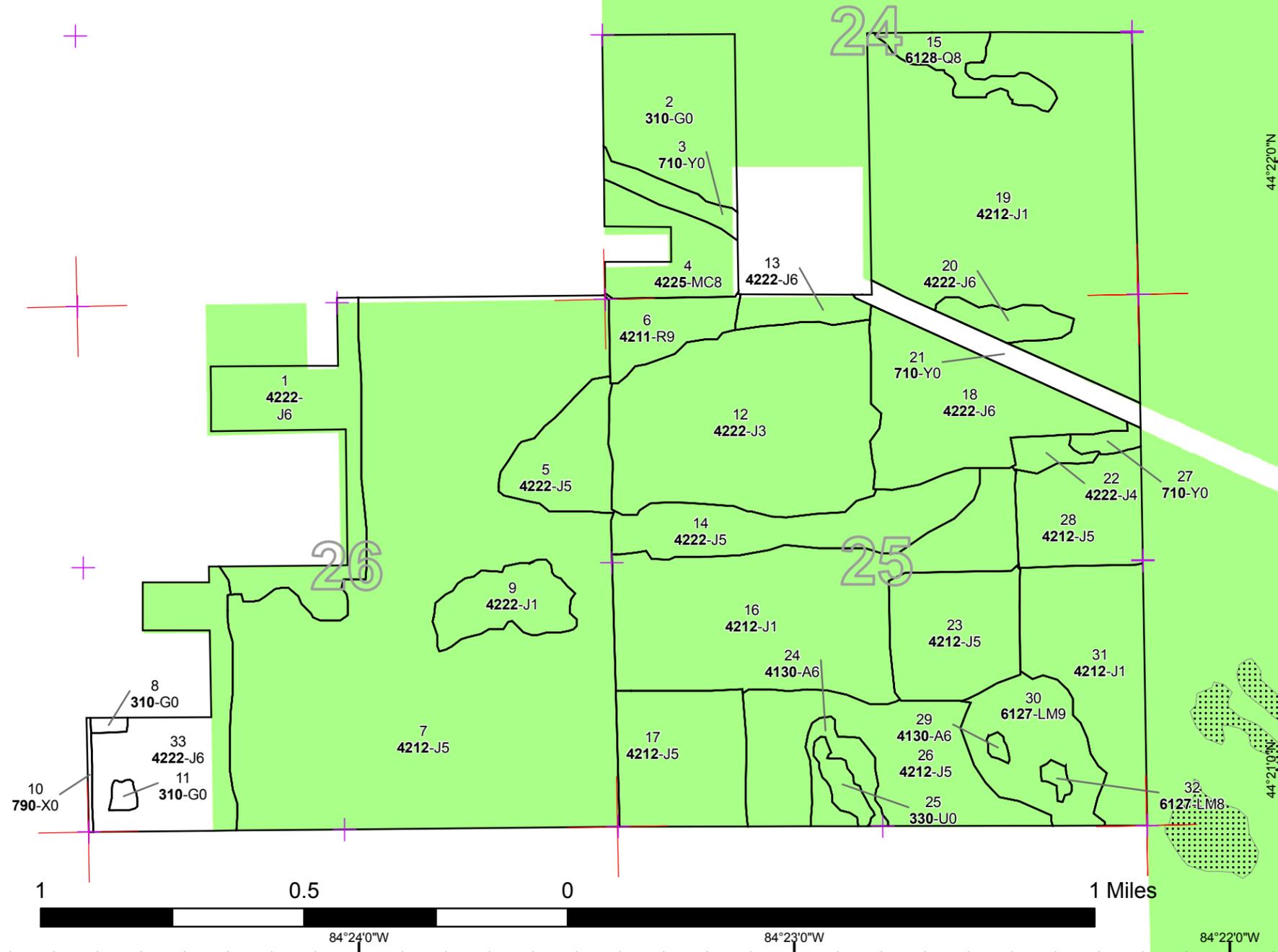


Table 1 – Total Acres by Cover Type and Age Class



	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 +		Uneven Age
Aspen	0	0	0	0	11	0	0	0	0	0	0	0	0	0	0	11
Bare/Sparsely Vegetated	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
Herbaceous Openland	48	0	0	0	0	0	0	0	0	0	0	0	0	0	0	48
Jack Pine	0	275	128	184	70	352	0	0	0	0	0	0	0	0	184	1193
Low-Density Trees	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5
Lowland Conifers	0	0	0	0	0	0	13	0	0	0	0	0	33	0	0	46
Natural Mixed Pines	0	0	0	0	0	0	0	0	0	0	0	0	0	0	22	22
Red Pine	0	0	0	0	0	0	0	0	16	0	0	0	0	0	0	16
Sand, Soil	26	0	0	0	0	0	0	0	0	0	0	0	0	0	0	26
Total	80	275	128	184	81	352	13	0	16	0	0	0	33	0	206	1368



Table 2 – Proposed Treatment Summaries

Roscommon Mgt. Unit
Year of Entry 2013

Compartment 092
Total Compartment Acres: 1458

Acres by Treatment Type

Commercial Harvest - 125	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

		Clearcut	Selection	Seed Tree	Shelterwood	Thinning	Other - Specify	Total Acres
Jack Pine		87	0	0	0	0	0	87
Natural Mixed Pines		22	0	0	0	0	0	22
Red Pine		16	0	0	0	0	0	16
Total		125	0	0	0	0	0	125

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



S t a n d	Treatment Name	Acres	Stage1 CoverType	Size Density	Stand Age	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
4	71092004-Cut	22.0	42250 - Pine, Oak	Medium Density Log	60	Harvest	Clearcut with Reserves	42111 - Planted Red Pine, Mixed Deciduous	Cmpt. Review Proposal

Prescription Harvest, leave green marked oak, red pine under 4" trench and plant red pine in areas which do not meet minimum stocking requirements.

Specs: Retention along south edge, and individual tree. small stand, may not have full retention percentage

Other
Comments:

Next
Steps:

6	71092006-Cut	16.5	42110 - Planted Red Pine	High Density Log	75	Harvest	Clearcut with Reserves	42111 - Planted Red Pine, Mixed Deciduous	Cmpt. Review Proposal
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Prescription Seed tree harvest, leave red pine regeneration 6"dia and under. Replant red pine in areas which do not meet minium stocking requirements by trenching and planting.

Other Hills thistle within stand, do not trench and plant in area where located

Comments:

Next
Steps:

14	71092014-Cut	38.7	42220 - Natural Jack Pine	Medium Density Pole	48	Harvest	Clearcut	42121 - Planted Jack Pine, Mixed Deciduous	Cmpt. Review Proposal
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Prescription Final harvest and replant jack pine

Specs:

Other
Comments:

Next
Steps:

33	71092033-Cut	48.2	42220 - Natural Jack Pine	High Density Pole	40	Harvest	Clearcut with Reserves	42111 - Planted Red Pine, Mixed Deciduous	Cmpt. Review Proposal
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Prescription Harvest and replant red pine (longer lived, less fire prone) leave small strips along M-76 for visual Leave red pine and marked oak for retention/visual.

Specs:

Other
Comments:

Next
Steps:

**Total Treatment
Acreage Proposed: 125.3**

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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
<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								
<u>Other</u> cut with stand to the west in 71046								
<u>Comments:</u>								
<u>Next</u> manage for utility poles next YOE								
<u>Steps:</u>								
71048_OutOfY OE-Cut	4.0			0	Harvest	Clearcut with Reserves	4131 - Aspen, Oak	Cmpt. Review Proposal
<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								
<u>Other</u> cut with stand to the west in 71046								
<u>Comments:</u>								
<u>Next</u>								
<u>Steps:</u>								
71118_OutOfY OE-Cut	6.6			0	Harvest	Clearcut with Reserves	4131 - Aspen, Oak	Cmpt. Review Proposal
<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.								
<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>								
<u>Next</u>								
<u>Steps:</u>								
71165_OutOfY OE-Cut	5.1				Harvest	Low Thinning	42260 - Natural Pine, Mixed Deciduous	Cmpt. Review Proposal
<u>Prescription</u> thin to 90-120 SF/Acre so as to enhance old growth/bio-diversity characteristics								
<u>Specs:</u>								
<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)								
<u>Next</u>								
<u>Steps:</u>								
Total Treatment Acreage Proposed:		17.9						

Stand	Roscommon Mgt. Unit		5 – Forested Stands			Compartment: 092	General Comments:
	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Year of Entry: 2013	
1	42220 - Natural Jack Pine	High Density Pole	89.8	Uneven Age	1-50		Natural two aged stand of 40 and 60 yr old jack pine, with scattered oak, red pine. Understory of small jack/red.
4	42250 - Pine, Oak	Medium Density Log	22.0	Uneven Age			J8/O7 stand of Jack pine and pine oak, at least two aged: 60-70 and 45, probably fire origin.
5	42220 - Natural Jack Pine	Medium Density Pole	23.0	24			J5 stand from St Helen fire of 1987, not as dense as that on east side of section line
6	42110 - Planted Red Pine	High Density Log	16.5	75			Mature red pine stand underburned by fire. Has some small rp in understory. 60 BA of 5 stick RP 10 BA of 4 stick JP
7	42120 - Planted Jack Pine	Medium Density Pole	352.0	48			J5 stand from 1963.
9	42220 - Natural Jack Pine	Low Density Sapling	18.9	10			From 2001 forest fire
12	42220 - Natural Jack Pine	High Density Sapling	102.8	24			J3 stand which regenerated from St Helen Fire of 1987
13	42220 - Natural Jack Pine	High Density Pole	8.8	24			J3 jack pine from St Helen Fire of 1987
14	42220 - Natural Jack Pine	Medium Density Pole	38.7	Uneven Age			Long narrow stand left along south side of St Helen Fire of 1987, probably fire origin from 1963 St Helen fire. Low volume jack pine poles, with scattered overstory pin oak (fire remenants).
15	6128 - Lowland Coniferous, Mixed Deciduous	Medium Density Log	12.9	50			Lowland area of spruce, aspen, white pine, scattered cedar, alder, balsam. too wet to harvest, good wildlife corridor.
16	42120 - Planted Jack Pine	Low Density Sapling	107.0	7			J2 plantation from 2004
17	42120 - Planted Jack Pine	Medium Density Pole	39.9	32			Jack pine plantation from 1979
18	42220 - Natural Jack Pine	High Density Pole	55.1	Uneven Age			Natural jack pine stands from the 1987 St Helen Fire. Some resident overstory RP and oak that were underburned and survived.
19	42120 - Planted Jack Pine	Low Density Sapling	167.8	8			2004 J3 planting
20	42220 - Natural Jack Pine	High Density Pole	8.5	24			Heavy J3/J6 stand from St Helen fire of 1987. 5" diameter, just beginning to have single stick.
22	42220 - Natural Jack Pine	Low Density Pole	4.9	24			J2 stand from St Helen Fire around ORV parking lot area



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Roscommon Mgt. Unit

5 – Forested Stands

Compartment: 092
Year of Entry: 2013

	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
23	42121 - Planted Jack Pine, Mixed Deciduous	Medium Density Pole	36.2	28		Originally planted in 1979, replanted in 1983.
24	4130 - Aspen	High Density Pole	9.6	32		Aspen stand from 1979, A6/A9 BTA
26	42120 - Planted Jack Pine	Medium Density Pole	57.5	15		J3 stand from 1996
28	42120 - Planted Jack Pine	Medium Density Pole	30.2	32		Jack pine plantation from 1979, also some seeding from 1983 according to old records...
29	4130 - Aspen	High Density Pole	1.0	35		
30	6127 - Lowland Pine	High Density Log	31.5	110		Large white pine with swamp understory, Unique in this area. Leave alone.
31	42120 - Planted Jack Pine	Low Density Sapling	51.5	15		J3 planatation from 1996
32	6127 - Lowland Pine	Medium Density Log	1.6	110		large white pine over swamp, with boggy soils, unique
33	42220 - Natural Jack Pine	High Density Pole	89.8	Uneven Age	1-50	Natural two aged stand of 40 and 60 yr old jack pine, with scattered oak, red pine. Understory of small jack/red.



Stand	Cover Type	Acres	Managed Site	Management Priority (Objective)	General Comments:
2	3102 - Grass	45.4	Planted	Jack Pine	
3	710 - Sand, Soil	7.5	Yes	High (NonForested)	
8	3101 - Poverty Grass, Cladonia	1.2	No	Unspecified	Plant to RP with stand 1.
10	790 - Other Bare/Sparsely Vegetate	1.1	No	Unspecified	Old wellsite? Plant when replant stand 1 to red pine
11	310 - Herbaceous Openland	1.6	N/A	Unspecified	
21	710 - Sand, Soil	15.2	No	Unspecified	
25	3302 - Low Density Conifer Trees	4.9	Yes	High (NonForested)	
27	710 - Sand, Soil	3.3	Yes	High (NonForested)	



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



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.