



**ROSCOMMON FOREST MANAGEMENT UNIT
COMPARTMENT REVIEW PRESENTATION**

COMPARTMENT # 194 ENTRY YEAR: 2011

Compartment Acreage:

County: Roscommon

Revision Date: 11-03-2008

Stand Examiner: J. Hartman

Legal Description: T23N R1W sections 1, 12, 13, 24

Management Goals: Thin northern red oak stands and overstocked pine plantations. Regenerate pin oak/quaking aspen mixtures. Stagger bigtooth aspen ages by harvesting a portion of the largest stands in the compartment. Prioritize treatments as there is a large amount of acreage meeting silvicultural criteria.

Soil and Topography: The hills on the west side are a mix of Graycalm and Montcalm sands creating a high end PArVHa/PArVVb transition habitat type. The flat areas on the east side are a mix of Rubicon and AuGres soils with high water tables and intersecting wetlands creating a PArVHa/PArVCo habitat type transition in many areas. The northeast corner of the compartment is also coded as a Rubicon sand, but falls into the AFO habitat type.

Ownership Patterns, Development, and Land Use in and Around the Compartment: State ownership is fragmented. The compartment is also located at the edge of overall state ownership. Large farmland areas are located directly to the east.

Unique, Natural Features: Hill's thistle record to northwest. Alleghany plum to west. Rough fescue to northwest. Historical fragile prickly-pear record to southwest. Kirtland's warbler record to the north. Bald eagle records to west and south. Common loon documented to east and west. Wood turtle to northeast. Potential for massasauga and Blanding's turtle in marshes and nearby uplands. Potential for goshawk.

Archeological, Historical, and Cultural Features: A Late Woodland Era pit was excavated long ago (prior to 1930) in section 20. The precise location is unknown. There is also a homestead foundation just off of Lentz Road in section 22 and an old mill site in the southeast corner of stand 90.

Special Management Designations or Considerations: None designated at this time.

Watershed and Fisheries Considerations: The headwaters of Prior Creek originate in the northeast corner of the compartment. Part of the Rifle River Watershed.

Wildlife Habitat Considerations:

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 200 and 400 feet. Beneath the glacial drift is the Mississippian Michigan Formation. The Michigan is quarried for gypsum elsewhere in the State. A gravel pit is located in Section 10 and potential should be

good. The Rose City Fields are located four miles to the north. The 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. Most of the State lands in the Compartment are leased for oil and gas exploration.

Vehicle Access: There is relatively good access to most areas except for the contiguous ownership at the edge of Esmond Road. Esmond is plowed until it hits state ownership.

Survey Needs: None needed at this time.

Recreational Facilities and Opportunities: The Ambrose Lake to Ogemaw hills route; a combined ORV and MCCCT route exists in the southwest corner.

Fire Protection: There is good access and little in the way of hazardous fuels.

Additional Compartment Information:

- **The following 5 reports from the Operations Inventory System (OIPC) are attached:**
 - ◆ **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 194
 T23N, R02E, Sec. 15-17, 20-22
 County: Ogemaw
 Unit: Roscommon
 YOY: 2011
 Acres: 2,146 GIS Calculated
 Stand Examiner: Jason Hartman
 Map Revised: 8/28/2009
 Map Phase: Pre-Review

17	16	15
20	21	22

N

Legend

- Miris Corners
- Powerlines
- Paved Road
- County Gravel Road
- County Poor Dirt Road
- Poor Dirt Road
- Roads Subject to Closure
- Trails
- Intermittent Stream/Drain
- Stream
- ORV Trails
- MCCCT Trails
- Motorcycle Trails
- Ski Trails
- Bike Trails
- Hiking Trails
- Lakes and Rivers

Treatments

- Clearcut (w/Reserves, Patch/Strip)
- Shelter Wood (w/Reserves)
- 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
- 431 - Upland Mixed Forest
- 611 - Lowland Deciduous Forest
- 612 - Lowland Coniferous Forest
- 613 - Lowland Mixed Forest

Non-Forest Stands

Level 3

- 310 - Herbaceous Openland
- 330 - Low-Density Trees
- 500 - Water
- 629 - Mixed non-forested wetland

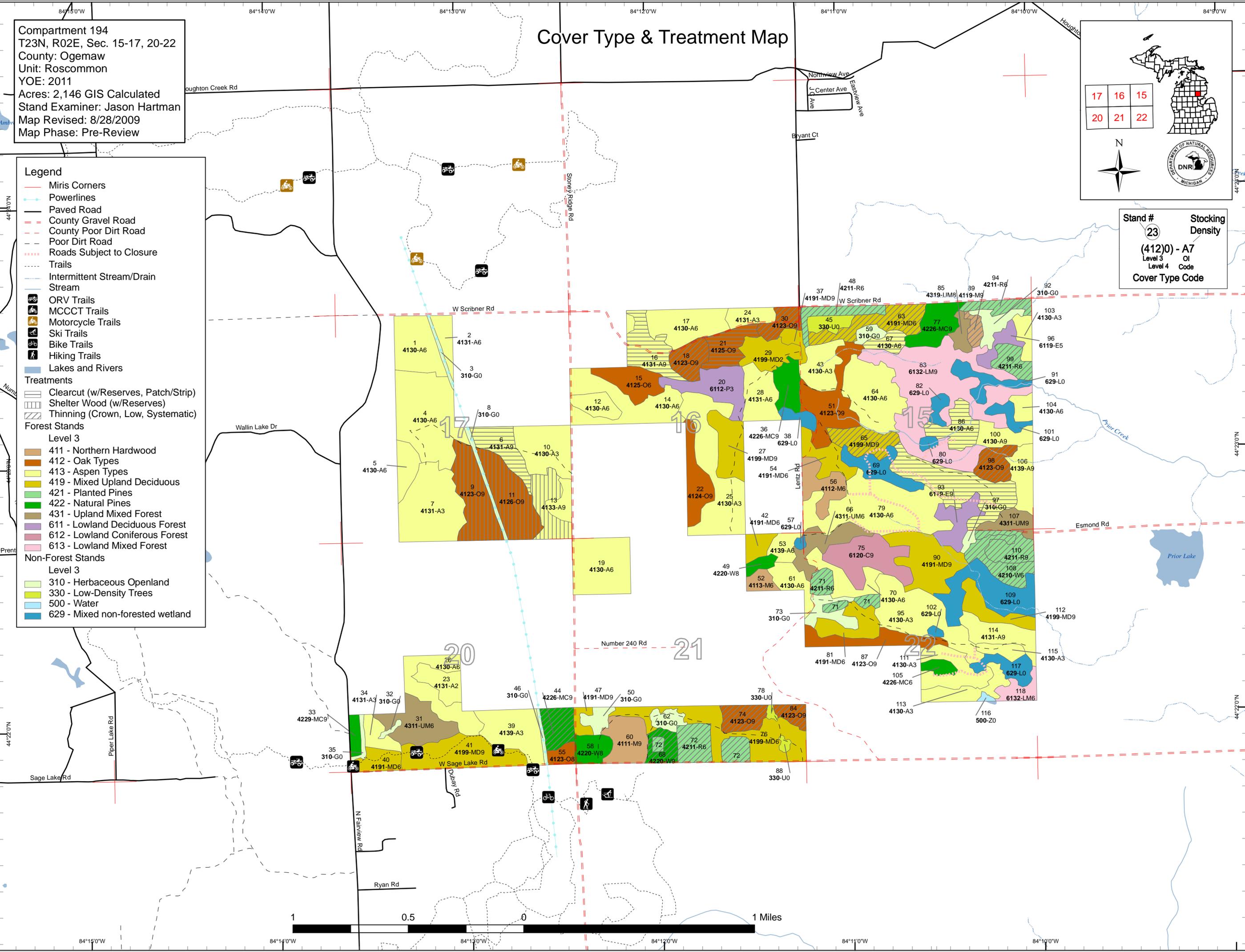
Stand # **23**

(4120) - A7

Level 3 OI

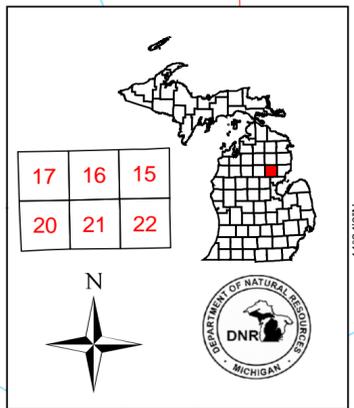
Level 4 Code

Cover Type Code



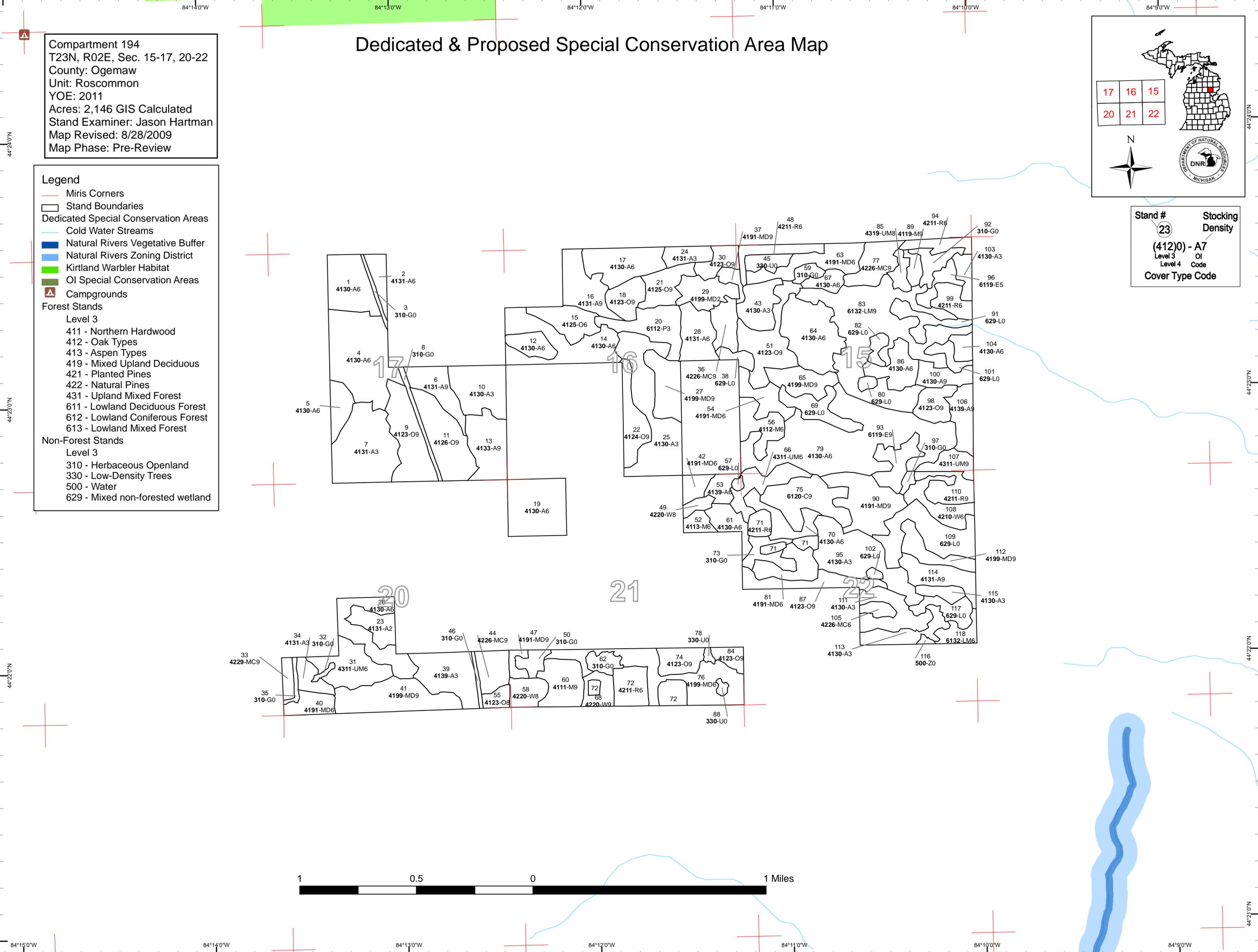
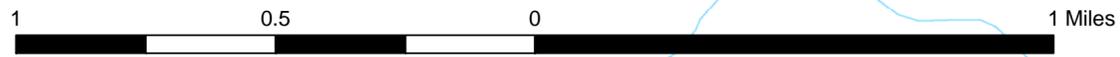
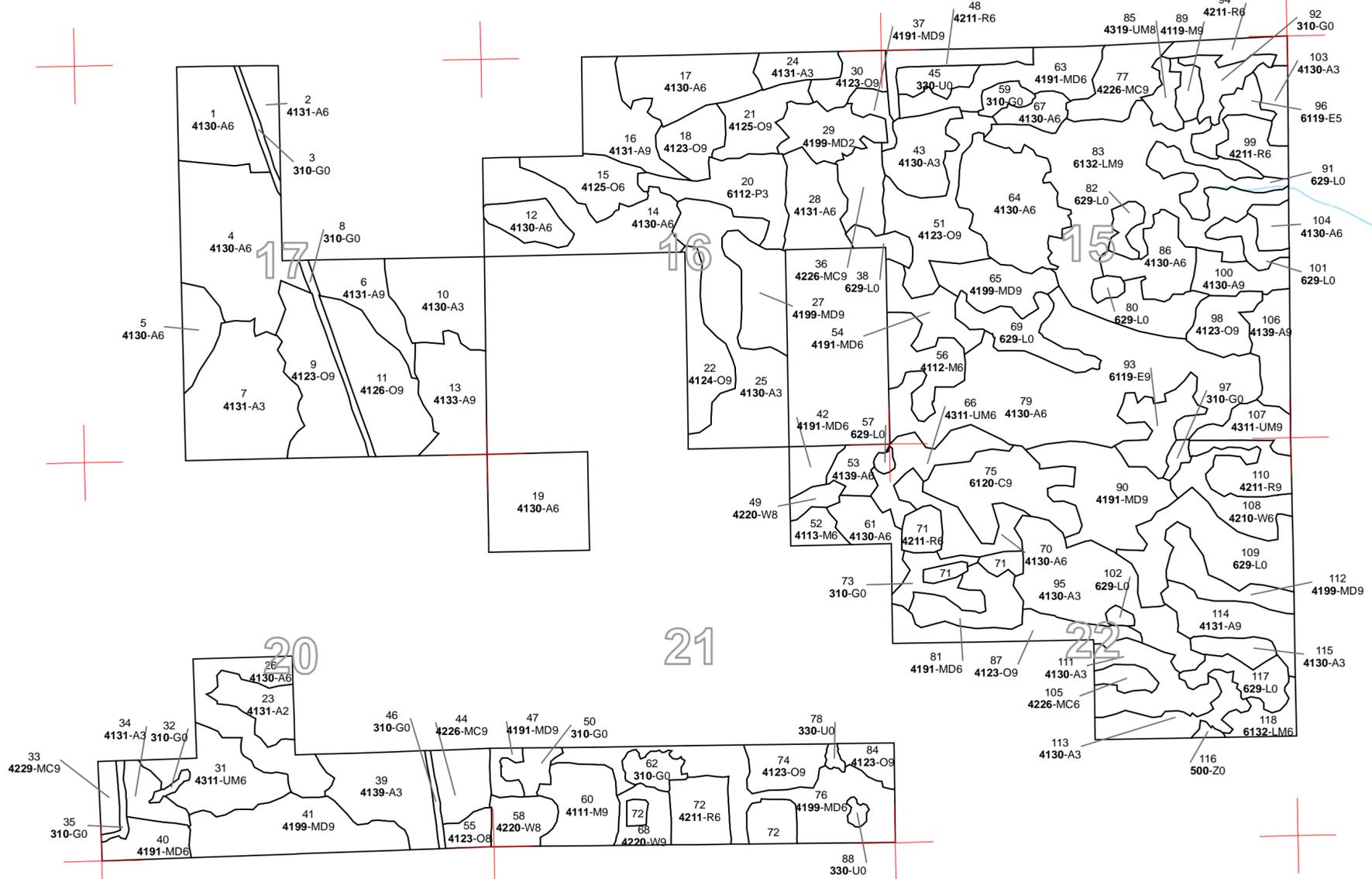
Dedicated & Proposed Special Conservation Area Map

Compartment 194
 T23N, R02E, Sec. 15-17, 20-22
 County: Ogemaw
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- Legend**
- Miris Corners
 - Stand Boundaries
 - Dedicated Special Conservation Areas**
 - Cold Water Streams
 - Natural Rivers Vegetative Buffer
 - Natural Rivers Zoning District
 - Kirtland Warbler Habitat
 - OI Special Conservation Areas
 - ▲ Campgrounds
 - Forest Stands**
 - Level 3
 - 411 - Northern Hardwood
 - 412 - Oak Types
 - 413 - Aspen Types
 - 419 - Mixed Upland Deciduous
 - 421 - Planted Pines
 - 422 - Natural Pines
 - 431 - Upland Mixed Forest
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 - Non-Forest Stands**
 - Level 3
 - 310 - Herbaceous Openland
 - 330 - Low-Density Trees
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Stand #
 23
Stocking Density
 (4120) - A7
 Level 3 OI
 Level 4 Code
Cover Type Code



Roscommon Mgt. Unit

Covertime, Acres, and Age summary
(Level 3 Cover Type)

Compartment 194 Year of Entry 2011

Report Date: 08/28/2009



	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 Types	0	10	216	158	234	172	93	46	0	0	16	0	0	0	0	945
Herbaceous Openland	58	0	0	0	0	0	0	0	0	0	0	0	0	0	0	58
Low-Density Trees	11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	11
Lowland Coniferous Forest	0	0	0	0	0	0	0	0	0	0	34	0	0	0	0	34
Lowland Deciduous Forest	0	0	25	0	0	0	9	0	0	0	17	0	0	0	0	51
Lowland Mixed Forest	0	0	0	0	0	0	0	0	0	0	114	0	0	0	0	114
Mixed non-forested wetland	103	0	0	0	0	0	0	0	0	0	0	0	0	0	0	103
Mixed Upland Deciduous	0	57	0	0	19	64	15	5	0	0	120	0	0	0	0	279
Natural Pines	0	0	0	0	0	5	0	0	0	0	79	0	0	0	0	85
Northern Hardwood	0	0	0	0	6	18	0	0	0	0	27	0	0	0	0	52
Oak Types	0	0	0	0	19	0	0	0	0	133	92	0	0	0	0	245
Planted Pines	0	0	0	0	0	39	67	0	0	0	0	0	0	0	0	106
Upland Mixed Forest	0	0	0	0	28	0	25	0	0	0	12	0	0	0	0	64
Water	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
Total	173	67	241	158	306	298	207	51	0	133	511	0	0	0	0	2146

**PROPOSED TREATMENTS
NO LIMITING FACTORS**



S t a n d	Treatment Name	Acres	Stage1 CoverType	Size Density	Stand Age	Treatment Type	Treatment Method	Cover Type Objective	Page 1 of 5
6	71194006-Cut	19.2	4131 - Aspen, Oak	High Density Log	40	Harvest	Clearcut with Reserves	Aspen, Oak	

Rev
Cmnt:

Rev Mark large crown oak and pine with good form to leave for retention and manage for aspen regeneration.
Spec:

Next
Steps:

9	71194009-Cut	34.9	4123 - Red Oak	High Density Log	89	Harvest	Shelter Wood with Reserves	Oak, Pine	
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Rev
Cmnt:

Rev Shelterwood leaving 50 ft where quality stems exist. Leave all pine. Mark some red maple with good form and some hollow aspen for retention as well.
Spec:

Next
Steps:

11	71194011-Cut	35.8	4126 - White, Black, N. Pin Oak	High Density Log	89	Harvest	Shelter Wood with Reserves	Oak, Pine	
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Rev
Cmnt:

Rev Shelterwood leaving 50 ft where quality stems exist. Leave all pine. Mark some red maple with good form and some hollow aspen for retention as well.
Spec:

Next
Steps:

13	71194013-Cut	20.2	4133 - Aspen, Mixed Pine	High Density Log	55	Harvest	Shelter Wood with Reserves	Aspen, Oak	
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Rev
Cmnt: Fresh survey along the south

Rev High risk mixed oak with low quality quaking aspen. Aspen has smaller diameter in some spots and larger overmature stems in others. Spec cut aspen, red maple, and oak and leave all rp/wp and mark oak to leave. Treatment line wouldn't match stand line. A big depression and an area of thicker pine along the road would be left out and used as aspen retention.
Spec:

Next
Steps:

16	71194016-Cut	24.0	4131 - Aspen, Oak	High Density Log	68	Harvest	Clearcut with Reserves	Aspen, Oak	
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Rev
Cmnt: Landowner to sw has yellow stakes along lot line. didn't find his corner, but found lot corner to w.

Rev Clear-cut w/ reserves. Mark large crowned oak and pine with good form to leave for retention. Leave out thick white pine to nw.
Spec:

Next
Steps:

18	71194018-Cut	14.4	4123 - Red Oak	High Density Log	89	Harvest	Crown Thinning	Red Oak	
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Rev
Cmnt:

Rev Crop tree release and thin from below. Mark red maple as well.
Spec:

Next
Steps:

**PROPOSED TREATMENTS
NO LIMITING FACTORS**



S t a n d	Treatment Name	Acres	Stage1 CoverType	Size Density	Stand Age	Treatment Type	Treatment Method	Cover Type Objective	Page 2 of 5
21	71194021-Cut	17.6	4125 - Black, N. Pin Oak	High Density Log	89	Harvest	Clearcut with Reserves	Aspen, Oak	

Rev
Cmnt:

Rev Has high risk oak and patches of aspen of various sizes. Heavy red maple in some spots, but advance oak regen in others. Use a dormant season spec
Spec: to get better sprouting. Mark mast trees to leave for retention.

Next
Steps:

30	71194030-Cut	11.0	4123 - Red Oak	High Density Log	89	Harvest	Crown Thinning	Red Oak	
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Rev
Cmnt:

Rev Crop tree release and thin from below. Don't spec red maple to cut. Mark all species except aspen.

Spec:

Next
Steps:

44	71194044-Cut	14.6	42260 - Natural Pine, Mixed Deciduous	High Density Log	98	Harvest	Crown Thinning	Natural White Pine, Mixed Deciduous	
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Rev
Cmnt:

Corner with cap found at ne side.

Rev Mark pine and oak to cut and spec cut aspen and red maple. Aspen will regenerate in some portions of this stand.

Spec:

Next
Steps:

48	71194048-Cut	11.8	42110 - Planted Red Pine	High Density Pole	52	Harvest	Low Thinning	Planted Red Pine, Mixed Deciduous	
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Rev
Cmnt:

Rev 2nd thin. Thin from below. Run red line south of Scribner to leave thick oak regen and big wolf trees out of sale acres.

Spec:

Next
Steps:

63	71194063-Cut	24.6	4191 - Mixed Upland Deciduous with Conifer	High Density Pole	95	Harvest	Crown Thinning	Natural White Pine, Mixed Deciduous	
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Rev
Cmnt:

Rev West arm is red maple, white pine, and a little bit of oak. Aspen has a couple different age classes. Would spec cut aspen and mark oak and pine to
Spec: cut.. Low priority if done.

Next
Steps:

65	71194065-Cut	18.2	4199 - Other Mixed Upland Deciduous	High Density Log	95	Harvest	Crown Thinning	Red Oak	
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Rev
Cmnt:

Rev Pockets of hummocky ground with heavy white ash component. Mark for best tree in place. Gradually transition to uneven-aged mgmt.

Spec:

Next
Steps:

**PROPOSED TREATMENTS
NO LIMITING FACTORS**



S t a n d	Treatment Name	Acres	Stage1 CoverType	Size Density	Stand Age	Treatment Type	Treatment Method	Cover Type Objective	Page 3 of 5
67	71194067-Cut	7.6	4130 - Aspen	High Density Pole	59	Harvest	Clearcut with Reserves	Aspen, Oak	

Rev
Cmnt:

Rev Mostly aspen, but has some nice pole-sized oak. Leave all oak unless marked to cut.

Spec:

Next

Steps:

68	71194068-Cut	9.8	42200 - Natural White Pine	High Density Log	95	Harvest	Crown Thinning	Natural Pine, Mixed Deciduous	
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Rev
Cmnt:

Rev A few different age classes present. Should be thinned to remove defect with the surrounding red pine.

Spec:

Next

Steps:

71	71194071-Cut	12.6	42110 - Planted Red Pine	High Density Pole	40	Harvest	Systematic Thinning	Planted Red Pine, Mixed Deciduous	
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Rev
Cmnt:

Rev 3rd row thin and mark the suppressed in the remaining two rows to catch this multipart stand up with the rest of the red pine in the compartment. Too small to do by itself next time.

Spec:

Next

Steps:

72	71194072-Cut	26.3	42110 - Planted Red Pine	High Density Pole	49	Harvest	Low Thinning	Planted Red Pine	
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Rev
Cmnt:

Rev 2nd thin. Thin from below. Remove defect..

Spec:

Next

Steps:

74	71194074-Cut	13.4	4123 - Red Oak	High Density Log	98	Harvest	Crown Thinning	Red Oak	
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Rev
Cmnt:

Rev Crop tree release.. Looks like only aspen was taken out in past treatment. Lots of codominants. Good road access. More white pine to northeast.

Spec:

Next

Steps:

79	71194079- Cut_small	47.4	4130 - Aspen	High Density Pole	45	Harvest	Clearcut with Reserves	Aspen, Oak	
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Rev
Cmnt:

Rev Split from a larger stand to help balance age classes. Leave all oak, pine, and birch unless marked to cut. Long-term objective would be a mixed stand.

Spec:

Next

Steps:

**PROPOSED TREATMENTS
NO LIMITING FACTORS**



S t a n d	Treatment Name	Acres	Stage1 CoverType	Size Density	Stand Age	Treatment Type	Treatment Method	Cover Type Objective	Page 4 of 5
84	71194084-Cut	7.0	4123 - Red Oak	High Density Log	95	Harvest	Crown Thinning	Red Oak	

Rev
Cmnt:

Rev Thin from below for best tree in place.. Excellent quality red oak with a small pocket of bta along pvt line to the east.

Spec:

Next

Steps:

86	71194086-Cut	17.9	4130 - Aspen	High Density Pole	45	Harvest	Clearcut with Reserves	Aspen	
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Rev
Cmnt:

Rev Has some various age classes of aspen. Mixed quaking and bigtooth. Mark oak to leave for retention. Hummocky ground and access would make winter or late summer harvesting necessary.

Spec:

Next

Steps:

89	71194089-Cut	5.3	4119 - Mixed Northern Hardwoods	High Density Log	95	Harvest	Crown Thinning	Mixed N. Hardwood - Pine	
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Rev
Cmnt:

Rev Crop tree release. Focus on sugar maple seed source.

Spec:

Next

Steps:

94	71194094-Cut	9.6	42110 - Planted Red Pine	High Density Pole	55	Harvest	Low Thinning	Planted Red Pine, Mixed Deciduous	
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Rev
Cmnt:

Rev 2nd thin. Thin from below

Spec:

Next

Steps:

98	71194098-Cut	13.7	4123 - Red Oak	High Density Log	98	Harvest	Crown Thinning	Mixed N. Hardwood - Pine	
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Rev Stand is located on an east facing slope.

Cmnt:

Rev Crop tree release and thin to favor sugar maple. Leave all aspen greater than 8'dbh. Nice little hunting spot on a birch knob in the northeast corner that would be left out of the sale. Trace of yellow birch present.

Spec:

Next

Steps:

99	71194099-Cut	11.7	42110 - Planted Red Pine	High Density Pole	55	Harvest	Low Thinning	Planted Red Pine	
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Rev
Cmnt:

Rev 2nd thin. Thin from below and remove defect

Spec:

Next

Steps:

**PROPOSED TREATMENTS
NO LIMITING FACTORS**



S t a n d	Treatment Name	Acres	Stage1 CoverType	Size Density	Stand Age	Treatment Type	Treatment Method	Cover Type Objective	Page 5 of 5
108	71194108-Cut	17.9	42100 - Planted White Pine	High Density Pole	55	Harvest	Crown Thinning	Natural White Pine, Mixed Deciduous	

Rev
Cmnt:
Rev Thin and remove defect.
Spec:
Next
Steps:

110	71194110-Cut	15.9	42110 - Planted Red Pine	High Density Log	55	Harvest	Low Thinning	Planted Red Pine
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Rev
Cmnt:
Rev 2nd thin. Thin from below and remove defect. Heavy white pine regen in some places.
Spec:
Next
Steps: Gradually transition to a natural mixed pine stand.

**Total Treatment
Acreage Proposed: 462.2**

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Roscommon Mgt. Unit
Inventory Method: IFMAP

PROPOSED TREATMENTS WITH LIMITING FACTORS

Compartment: 194 Entry Yr: 2011
Date 08/28/2009



Treatment Name	Acres	Stage1 Cover Type	Size Density	Stand Age	Treatment Type	Treatment Method	Cover Type Objective
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Limiting Factor and Comment:

Rev Cmnt:

Rev Spec:

Next Steps:

No Treatment Reason

Total Treatment Acreage Proposed: 0



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.

Inventory Method: IFMAP

Stand	SCA Name	Acres	Comments
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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
SCA	Archaeological Site	An aquatic or terrestrial area of the State that contains physical remains of human occupation. These are sites of cultural and historical significance that may occur upon terrestrial areas and Great Lakes bottomlands. They include thousands of Native American settlements and burial sites, as well as French and British outposts, nineteenth century logging camps, mines and homesteads. Beneath the waters of the Great Lakes, there are shipwrecks and other remains documenting the maritime trade. Such sites may be identified by Natural heritage data from the State Historic Preservation Office. Proposed treatments in this compartment will be implemented in such a manner as to maintain the integrity of these sites. Due to the sensitive nature of this information, no further detail about location is available.
SCA	Cold Water Stream	A coldwater stream has temperature and dissolved oxygen conditions that allow naturally-reproduced or stocked trout populations and those of other coldwater fish species (e.g., slimy sculpin) to persist from year to year. Coldwater streams in Michigan typically provide these conditions due to substantial contributions of groundwater to their stream flows. Such streams are established by Director's action and designated as trout resources by Fisheries Order 210.