



Roscommon Forest Management Unit Compartment Review Presentation

Compartment #20

Entry Year: 2012

Compartment Acreage: 1046

County: Roscommon

Revision Date: 7/12/2010

Stand Examiner: J. Hartman

Legal Description: T24N R4W sections 15 and 16

Management Area: Upper Muskegon

Management Goals: Harvest red pine utility poles and release smaller stems with good form for future utility poles. Thin overstocked red oak/white pine mixtures.

Soil and Topography: There is a flat outwash plain with lower quality oak to the south and west and there is red oak along the pitted outwash ridge to the north and east. The north central part of the compartment is the lowest elevation where it blends into Heidemann Marsh which is largely a treed bog.

Ownership Patterns, Development, and Land Use in and Around the Compartment: There are three private parcels in the compartment. There were some acquisitions of other small parcels in recent years. Acquiring the remaining parcels would be desirable for land consolidation purposes. The parcel in the ne ¼ of the sw ¼ is currently for sale and the paperwork to propose acquisition has been submitted.

Unique, Natural Features: Records for unique wildlife features indicate Kirtland's warbler, bald eagle, great blue heron, and Massasauga were found in the vicinity. Records for unique plant species indicate calypso orchid, Hill's thistle, and rough fescue can also be found nearby. Potential also exists for other dry prairie plants including Alleghany plum and pale agoseris.

Archeological, Historical, and Cultural Features: None identified.

Special Management Designations or Considerations: Stands 1 and 4 were part of the "old growth" plan from past inventory. These stands are part of a Special Conservation Area complex surrounding Heidemann marsh that includes several stands in the compartment to the north. Stand 8 of compartment 20 is being proposed as an addition to this complex during this inventory cycle.

Watershed and Fisheries Considerations: There is little in the way of direct affects on fisheries. Heidemann marsh feeds Big Creek, which eventually flows into Higgins Lake.

Wildlife Habitat Considerations: Upland brush habitat is good to the southwest. Mast production is good to the east.

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 600 feet. Beneath the glacial drift is the Mississippian Michigan Formation. The Michigan is quarried for gypsum in other areas of the State. Most of the nearby gravel pits are associated with upland

areas. The nearest gravel pit is located one mile to the southeast of the compartment. Gravel potential in the compartment is thought to be good. East Norwich Field lies to the west one and one-half miles. The field has produced over 15.9 million BO and 15.7 Bcf gas primarily from the Devonian Richfield Formation and is in secondary recovery operations currently. Most of the State land is currently leased and the non-leased parcel has been nominated for the May 2010 auction.

Vehicle Access: There is a network of “40” roads throughout the compartment and the county road on the southern perimeter is well maintained due to the oil field network to the west.

Survey Needs: Survey corners along the private line north of stands 12 and 13 would be desirable in order to set up a sale in stand 12.

Recreational Facilities and Opportunities: There is a heavily used snowmobile trail running through the southwest part of the compartment. The proximity of the compartment to a large number of seasonal homes around Higgins Lake also make recreational use for things like berry picking and hiking quite high. There is an unofficial cross country ski trail on the east side of the compartment. This trail may also end up becoming part of the bike trail system surrounding Higgins Lake that is currently being planned.

Fire Protection: The road network is excellent for firefighting access, but might also provide a greater ignition potential. The younger stands to the southwest are very thick making line construction difficult. The best water point would be where Big Creek crosses Old 27.

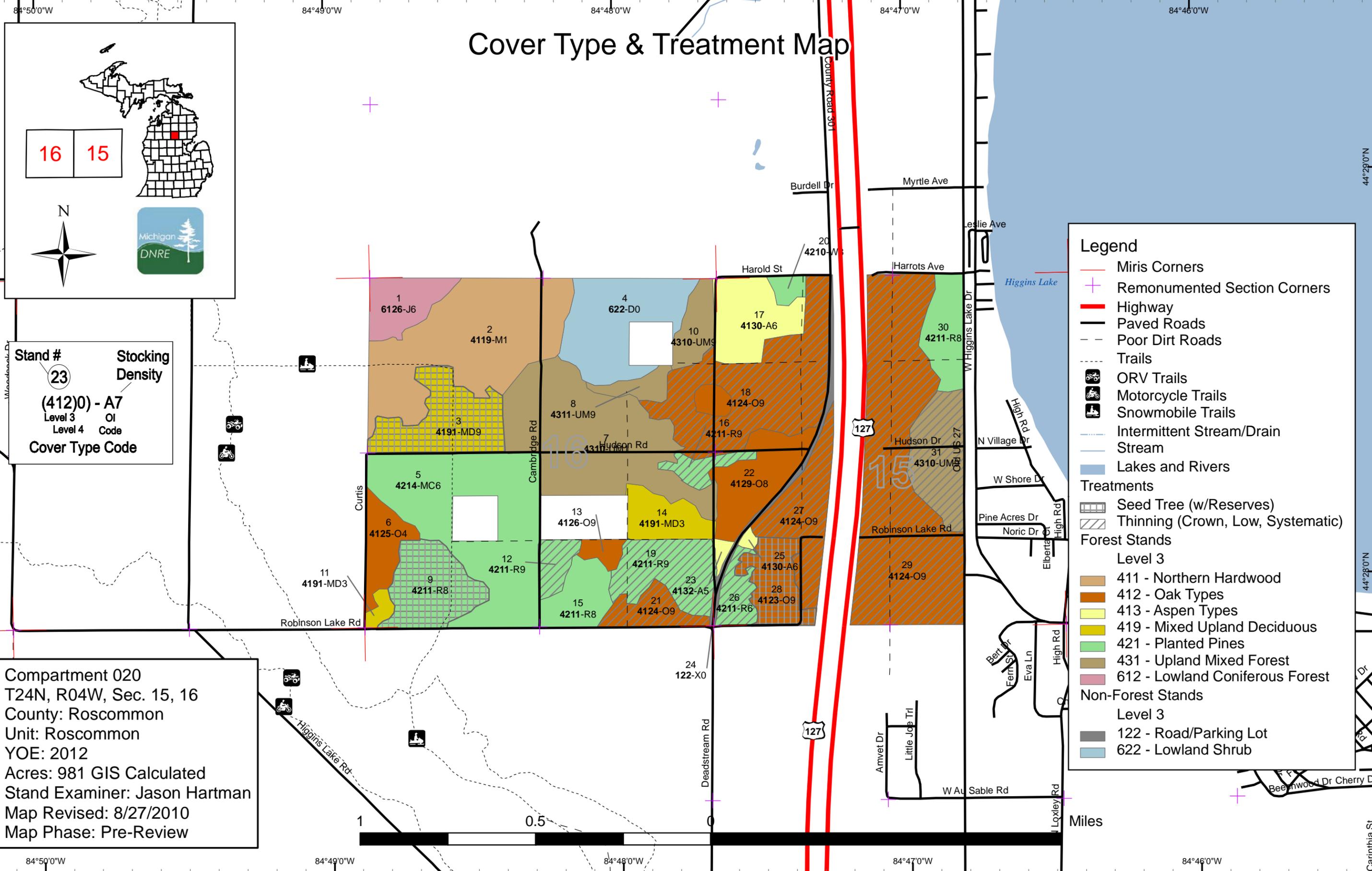
➤ **The following reports from the Inventory are attached:**

- ◆ **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



84°50'0"W 84°49'0"W 84°48'0"W 84°47'0"W 84°46'0"W

44°29'0"N 44°28'0"N

16 15

N

Michigan DNRE

Stand # 23

Stocking Density

(4120) - A7

Level 3 OI

Level 4 Code

Cover Type Code

Compartment 020

T24N, R04W, Sec. 15, 16

County: Roscommon

Unit: Roscommon

YOE: 2012

Acres: 981 GIS Calculated

Stand Examiner: Jason Hartman

Map Revised: 8/27/2010

Map Phase: Pre-Review

Legend

- Miris Corners
- Remonumented Section Corners
- Highway
- Paved Roads
- Poor Dirt Roads
- Trails
- ORV Trails
- Motorcycle Trails
- Snowmobile Trails
- Intermittent Stream/Drain
- Stream
- Lakes and Rivers

Treatments

- Seed Tree (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
- 431 - Upland Mixed Forest
- 612 - Lowland Coniferous Forest

Non-Forest Stands

Level 3

- 122 - Road/Parking Lot
- 622 - Lowland Shrub



84°50'0"W 84°49'0"W 84°48'0"W 84°47'0"W 84°46'0"W

44°28'0"N 44°29'0"N

Stand Boundary Map

16 15

N

Legend

- Miris Corners
- Remonumented Section Corners
- Highway
- Paved Roads
- Poor Dirt Roads
- Trails
- US Highway
- ORV Trails
- Motorcycle Trails
- Snowmobile Trails
- Stand Boundaries

Forest Stands

Level 3

- 411 - Northern Hardwood
- 412 - Oak Types
- 413 - Aspen Types
- 419 - Mixed Upland Deciduous
- 421 - Planted Pines
- 431 - Upland Mixed Forest
- 612 - Lowland Coniferous Forest

Non-Forest Stands

Level 3

- 122 - Road/Parking Lot
- 622 - Lowland Shrub

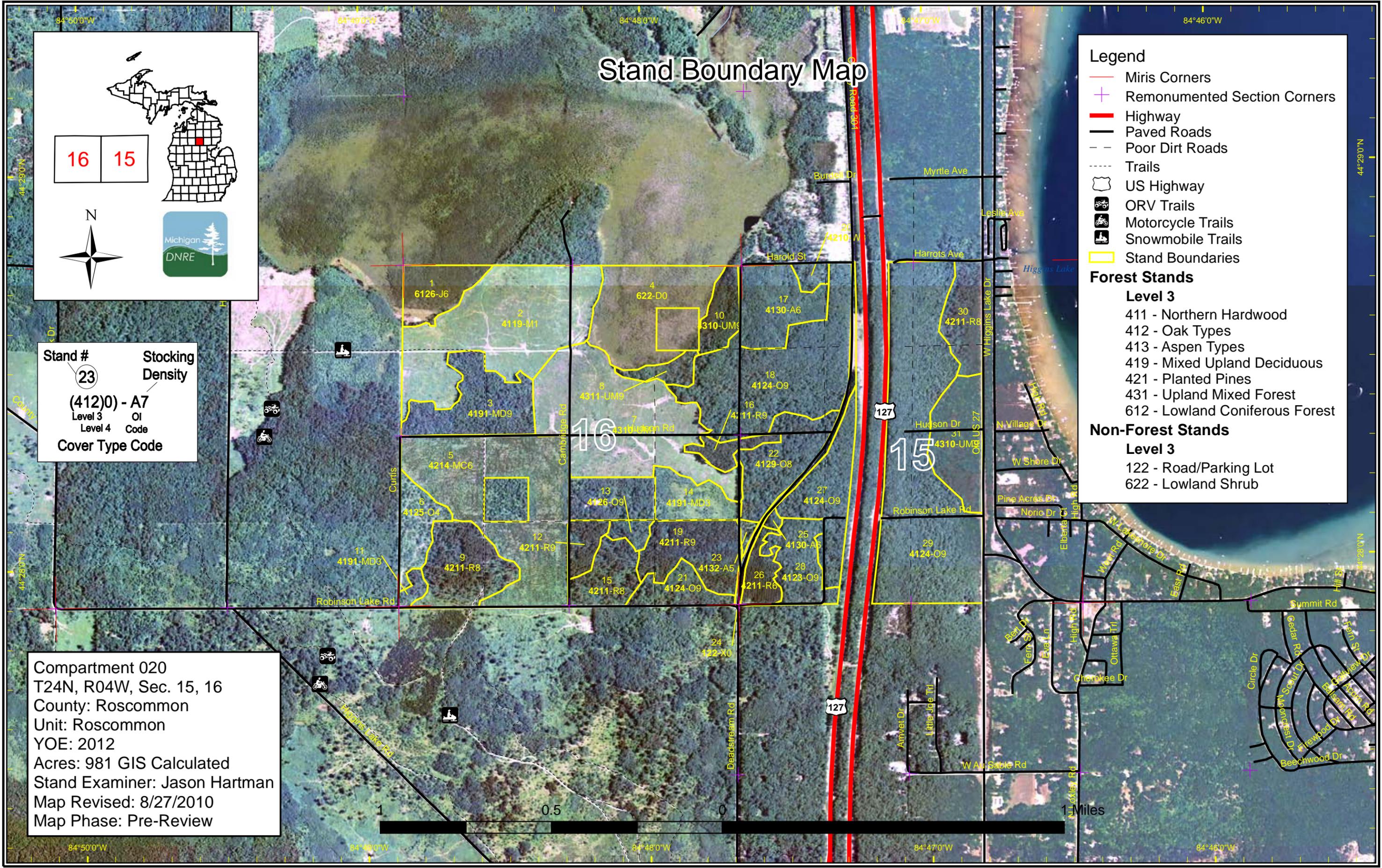
Stand # **23** Stocking Density

(412)0 - A7

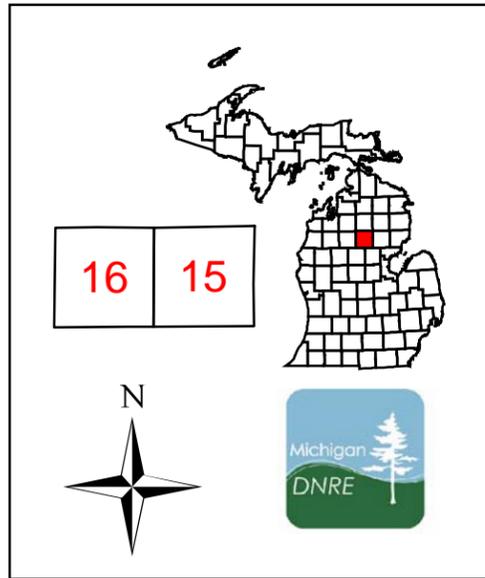
Level 3 OI
Level 4 Code

Cover Type Code

Compartment 020
T24N, R04W, Sec. 15, 16
County: Roscommon
Unit: Roscommon
YOE: 2012
Acres: 981 GIS Calculated
Stand Examiner: Jason Hartman
Map Revised: 8/27/2010
Map Phase: Pre-Review

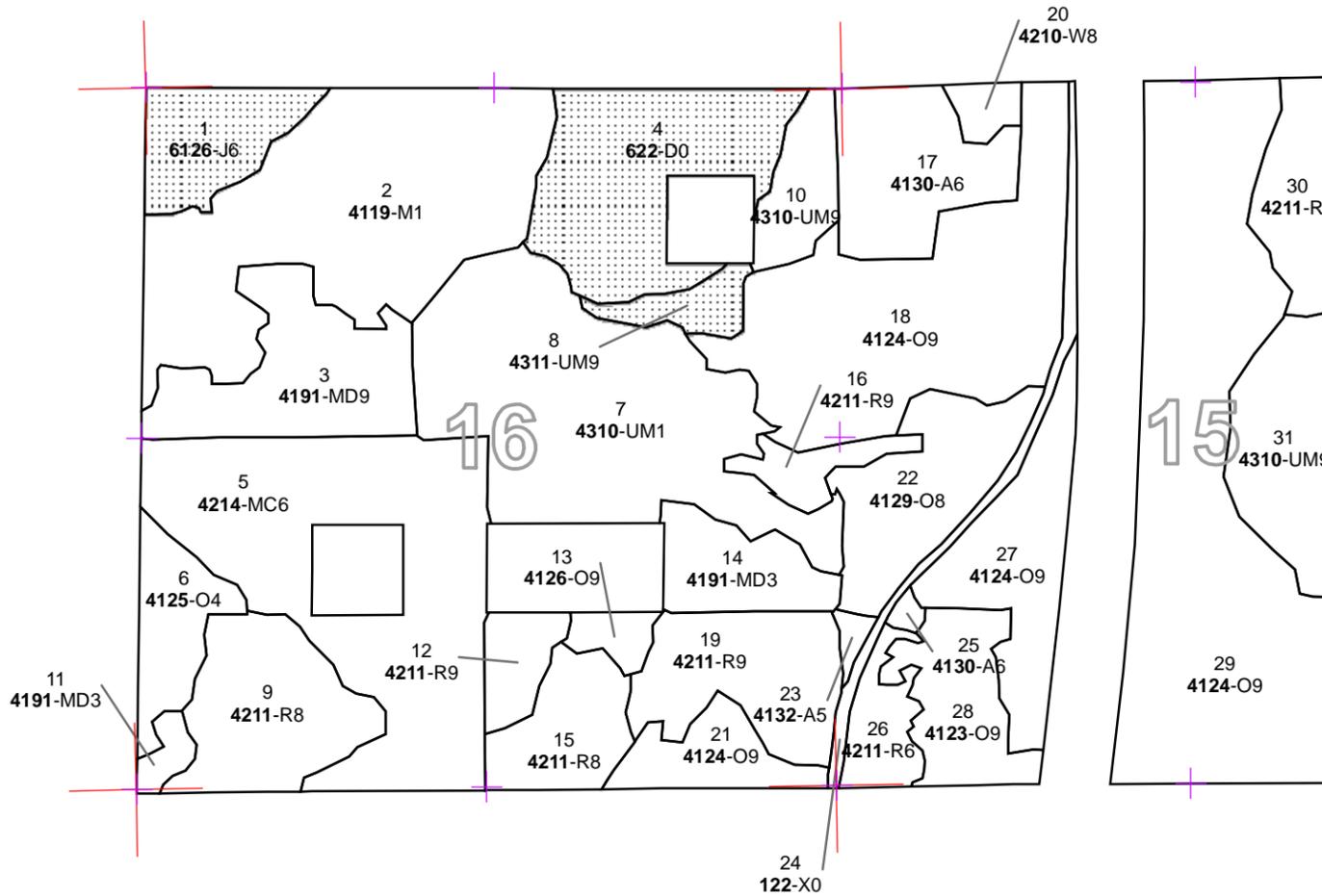


Dedicated & Proposed Special Conservation Area Map



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

Stocking Density



Compartment 020
T24N, R04W, Sec. 15, 16
County: Roscommon
Unit: Roscommon
YOE: 2012
Acres: 981 GIS Calculated
Stand Examiner: Jason Hartman
Map Revised: 8/27/2010
Map Phase: Pre-Review

Legend

- Miris Corners
- + Remonumented Section Corners
- Stand Boundaries
- Proposed Special Conservation Areas
- ▨ SCA - Special Conservation Area
- ▩ SCA Removal
- Cold Water Lakes
- Cold Water Lakes
- Non_Dedicated Natural Areas and National Natural Landmarks
- Ⓜ Boat Access Sites

Forest Stands

Level 3

- 411 - Northern Hardwood
- 412 - Oak Types
- 413 - Aspen Types
- 419 - Mixed Upland Deciduous
- 421 - Planted Pines
- 431 - Upland Mixed Forest
- 612 - Lowland Coniferous Forest

Non-Forest Stands

Level 3

- 122 - Road/Parking Lot
- 622 - Lowland Shrub

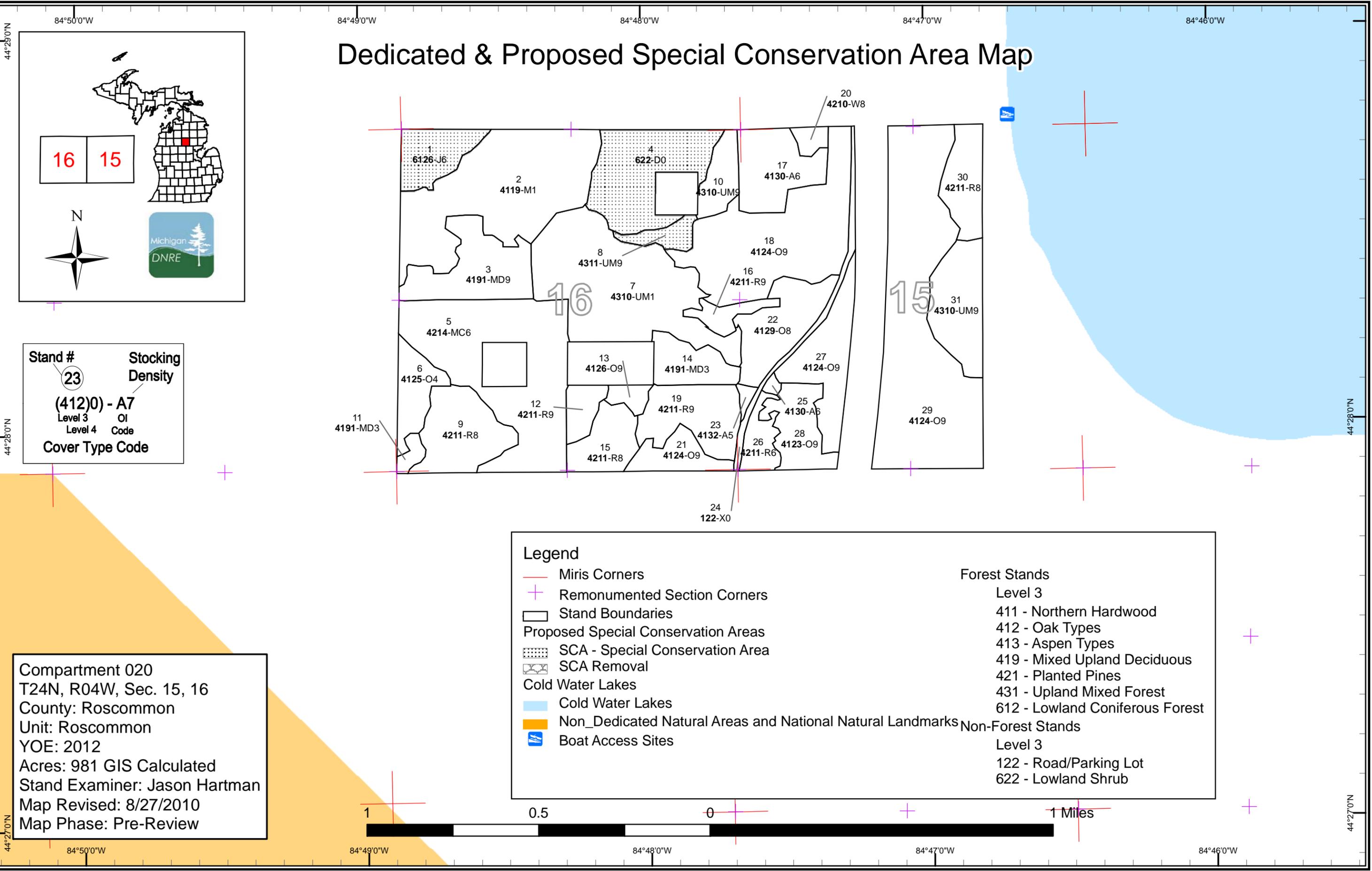
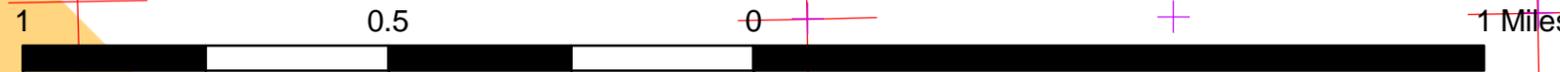


Table 1 – Total Acres by Cover Type and Age Class

Data updated before 10:00 AM



	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	30	1	0	0	2	0	0	0	0	0	0	0	0	34
Jack Pine	0	0	0	0	0	20	0	0	0	0	0	0	0	0	0	20
Mixed Upland Deciduous	0	4	18	0	0	0	0	0	0	0	38	0	0	0	0	59
Northern Hardwood	0	94	0	0	0	0	0	0	0	0	0	0	0	0	0	94
Oak	0	0	0	0	0	17	0	0	0	0	320	0	0	0	0	337
Planted Mixed Pines	0	0	93	0	0	0	0	0	0	0	0	0	0	0	0	93
Red Pine	0	0	0	0	0	11	0	0	0	123	0	0	0	0	0	135
Treed Bog	48	0	0	0	0	0	0	0	0	0	0	0	0	0	0	48
Upland Mixed Forest	0	93	0	0	0	0	8	0	0	45	0	0	0	0	0	146
Urban	10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	10
White Pine	0	0	0	0	0	0	0	0	0	5	0	0	0	0	0	5
Total	58	190	142	1	0	48	10	0	0	173	358	0	0	0	0	981



Table 2 – Proposed Treatment Summaries

Data updated before 10:00 AM

Roscommon Mgt. Unit
Year of Entry 2012

Compartment 020
Total Compartment Acres: 980.9

Acres by Treatment Type

Commercial Harvest - 442	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
Mixed Upland Deciduous	0	0	38	0	0	0	38
Oak	0	0	23	0	256	0	279
Red Pine	0	0	34	0	60	0	94
Upland Mixed Forest	0	0	0	0	32	0	32
Total	0	0	94	0	348	0	442



Data updated before 10:00 AM

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Treatment Name	Acres	Stage1 CoverType	Size Density	Stand Age	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
3 71020003-Cut	37.6	4191 - Mixed Upland Deciduous with Conifer	High Density Log	95	Harvest	Seed Tree with Reserves	Oak, Aspen	Cmpt. Review Proposal

Prescription Mark 10-20 BA of oak to leave in clumps avoiding areas with more aspen. Leave all red pine, white pine, and birch. Objective would be for oak/aspens/jack pine regen, but a mix with red maple would be acceptable. There is some smaller diameter oak present that should sprout better than the older oak. Leave a 2 ac retention pocket on the west edge due to green-up issues.

Other Comments: Specify not to use snowmobile trail for haul route during snowmobile season.

Next Steps:

9 71020009-Cut	33.8	42110 - Planted Red Pine	Medium Density Log	88	Harvest	Seed Tree with Reserves	Oak, Pine	Cmpt. Review Proposal
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Prescription Manage for oak regeneration. Mark clumps (10-20 BA) of windfirm red pine with large crowns and heavy branches for retention and long-term pine seed source. Will have to avoid damage to the understory by laying wood out in windrows and/or limb and top in the woods. There will be a large amount of utility poles in the volume.

Other Comments: Add spec to not use snowmobile trail for hauling during the snowmobile season.

Next Steps: If heavy damage to the oak regen occurs consider a dormant season burn to resprout the entire cohort.

12 71020012-Cut	9.4	42110 - Planted Red Pine	High Density Log	88	Harvest	Crown Thinning	Planted Red Pine, Mixed Deciduous	Cmpt. Review Proposal
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Prescription Crown thin leaving smaller diameter pole stems and large crowned seed producers that aren't utility pole quality. Target 14-16" utility poles for removal especially the nice stems with partial crowns. Residual BA of 80-100. NOT a stand to contract. Red pine tree selection could also be determined somewhat by opening up around oak saplings with good form. Clean up some of the poor formed red maple and mark aspen as well. Don't spec cut aspen or red maple.

Other Comments: Use a spec that all poles must be topped in the woods. May also need to mark skid routes.

Next Steps:

16 71020016-Cut	8.3	42110 - Planted Red Pine	High Density Log	88	Harvest	Crown Thinning	Planted Red Pine, Mixed Deciduous	Cmpt. Review Proposal
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Prescription Thin as part of the same sale as the red pine stands to the south. Promote single stem oak regeneration. Dip into the stand to the east and thin some of the white pine along the east arm.

Other Comments:

Next Steps:

18 71020018-Cut	77.7	4124 - Red with White Oak	High Density Log	95	Harvest	Crown Thinning	Oak, Pine	Cmpt. Review Proposal
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Prescription Thin suppressed and poor formed stems to 70-90 sq.ft. 1. Release oak with large crowns approximately 15" dbh and higher 2. Release crop trees of oak and pine. 3. Favor red pine where present for long-term seed source and diversity. 4. Promote quality single stem red maple- Could spec cut multi-stemmed red maple. 5. The small diameter (4-6") suppressed and/or poor formed white pine should be thinned as well. 6. Mark medium sized oak logs (12-14") to cut that are crooked and/or have partial crowns

Other Comments: Northeast piece is on the north slope and had a small firewood sale, but isn't much different than the rest. Oak dominated mixed with white pine that is partially in the canopy and partially suppressed. White pine was planted in 1922. Heavier pine density in the valley along Deadstream road. Nice oak understory in spots, but heavily browsed. Thinned in 1984. Much of the pine understory came in from that thinning.

Next Steps:



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Treatment Name	Acres	Stage1 CoverType	Size Density	Stand Age	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
19 71020019-Cut	31.4	42110 - Planted Red Pine	High Density Log	88	Harvest	Crown Thinning	Natural Red Pine, Mixed Deciduous	Cmpt. Review Proposal

Prescription: Crown thin favoring smaller diameter pole stems and large crowned seed producers that aren't utility pole quality. Target 14-16" utility poles for removal especially the nice stems with partial crowns. Residual BA of 80-100. NOT a stand to contract. Red pine tree selection could also be determined somewhat by opening up around oak saplings with good form. Clean up some of the poor formed red maple and mark aspen as well. Don't spec cut aspen or red maple.

Other Comments: Use a spec that all poles must be topped in the woods. May also need to mark skid routes.

Next Steps:

21 71020021-Cut	14.6	4124 - Red with White Oak	High Density Log	95	Harvest	Crown Thinning	Oak, Pine	Cmpt. Review Proposal
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Prescription: Crown thin the suppressed and high risk oak. Favor quality stems, pine seed source, and areas with advanced oak regen.

Specs:

Other Comments: Use same specs as other oak thinnings. Specs are laid out well enough to contract each of the oak stands prescribed for thinning.

Next Steps:

26 71020026-Cut	11.1	42110 - Planted Red Pine	High Density Pole	45	Harvest	Low Thinning	Planted Red Pine	Cmpt. Review Proposal
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Prescription: Fourth row thinned last year of entry. Will need to mark the exterior rows in such a way so that the marked trees in the center of the three rows can be removed. Leave the aspen. Its hollow anyway.

Specs:

Other Comments:

Next Steps:

27 71020027-Cut	32.8	4124 - Red with White Oak	High Density Log	95	Harvest	Crown Thinning	Oak, Pine	Cmpt. Review Proposal
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Prescription: Thin suppressed and poor formed stems to 70-90 sq.ft. 1. Release oak with large crowns approximately 15" dbh and higher. 2. Release crop trees of oak and pine. 3. Favor red pine where present for long-term seed source and diversity. 4. Promote quality single stem red maple- Could spec cut multi-stemmed red maple. 5. The small diameter (4-6") suppressed and/or poor formed white pine should be marked as well. 6. Mark medium sized oak logs (12-14") that are crooked and/or have partial crowns.

Other Comments: Oak and planted white pine from 1922. Similar to the stand to east across highway, but more white pine in the canopy and more red maple in the understory. Isolated pockets with advanced oak regeneration. BA swings 90,90,130,120,110, 90

Next Steps:

28 71020028-Cut	22.7	4123 - Red Oak	High Density Log	95	Harvest	Seed Tree with Reserves	Aspen, Oak	Cmpt. Review Proposal
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Prescription: Mark to leave 10-20 BA of mast/seed trees in patches concentrating on areas with less aspen. Leave arm to the west for aspen retention.

Specs: Dormant cut. Aspen regeneration should be sufficient. However, alternative regeneration would be to burn and plant red pine. If aspen doesn't come in well, red maple will be an issue.

Other Comments:

Next Steps:



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Treatment Name	Acres	Stage1 CoverType	Size Density	Stand Age	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
29 71020029-Cut	131.1	4124 - Red with White Oak	High Density Log	95	Harvest	Crown Thinning	Oak, Pine	Cmpt. Review Proposal

Prescription: Thin suppressed and poor formed stems to 70-90 sq.ft. 1.Release oak with large crowns approximately 15"dbh and higher. 2.Release crop trees of oak and pine. 3. Favor red pine where present for long-term seed source and diversity. 4. Promote quality single stem red maple- Could spec cut multi-stemmed red maple.
Specs: 5. The small diameter (4-6") suppressed and/or poor formed white pine should be thinned as well. 6. Mark medium sized oak logs (12-14") that are crooked and/or have partial crowns.

Other Comments: Red oak dominated mixed with white pine that is partially in the canopy and partially suppressed. White pine was planted in 1922. Approximately half of the stand was species thinned of red maple and aspen in 1993. Red maple stump sprouts scattered, but not really heavy. Isolated pockets with advanced oak regeneration. Half acre pocket of aspen with nice 4" red oak poles on east edge of stand bordering Hudson Drive. Overall BA swings 140,150,140,90,190,130,140,160. Informal cross country ski trail from north to south.

Next Steps:

31 71020031-Cut	31.9	4310 - Pine, Oak Mix	High Density Log	88	Harvest	Crown Thinning	Pine, Oak	Cmpt. Review Proposal
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Prescription: Thin to 90-110 ft. Leave some smaller diameter red pine if they are free to grow. Leave a mixed stand of red oak, red pine, white pine, white oak, and red maple. Don't contract this stand.

Other Comments: Plantation from 1922. The north area is partially overtopped by oak and the small piece to the south is dominated by red pine in the canopy. Wide variety of DBH classes with interesting structure. Suppressed red pine scattered throughout. Nice oak understory 3-5 ft tall.

Next Steps:

**Total Treatment
Acreage Proposed: 442.4**



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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

Data updated before 10:00 AM

Out of YOE -- Treatments
Prescribed with No Limiting Factor

Year of Entry: 2012



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
Comments:

Next
Steps:

**Total Treatment
Acreage Proposed: 0**

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Roscommon Mgt. Unit

5 – Forested Stands

Compartment: 020
Year of Entry: 2012

Data updated before 10:00 AM

	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
1	6126 - Lowland Jack Pine	High Density Pole	19.9	47		Excellent quality jack pine on lowland site that may be operable in the future. Has leatherleaf ground cover, but it is mixed with blueberry. Relatively flat and not hummocky.
2	4119 - Mixed Northern Hardwoods	Low Density Sapling	93.7	6		Oak clear-cut from 2004 that did not meet regen requirements. Volumes show a mixture of red oak and mixed oak. The stand is dominated by red maple and cherry stump sprouts with oak stump sprouts mixed in and a little bit of single stem oak regeneration that stayed at ground level. Competition control was not able to be applied, but the stand was trenched and planted to red pine in 2009.
3	4191 - Mixed Upland Deciduous with Conifer	High Density Log	37.6	95		Jack pine is likely planted with the rest of the red pine in the compartment. It is falling apart in most spots. The quaking aspen and oak is also not looking good in spots. There is heavy dead and down and lots of hawthorn, cherry, and red maple in the understory.
5	42140 - Planted Mixed Pine	High Density Pole	93.1	17		Red pine plantation mixed with jack pine and oak throughout. Heavier aspen to the southeast.
6	4125 - Black, N. Pin Oak	Low Density Pole	17.1	40		Looks like a diameter limit cut to 4" dbh. Low quality red oak/black oak/pin oak mixed with alot of red maple. Understory has some oak stump sprout mixed with fairly heavy hawthorn and cherry.
7	4310 - Pine, Oak Mix	Low Density Sapling	92.9	4		New plantation that is still closing in. Jack pine is a little behind, but will catch up in the next few years and be dominant.
8	4311 - Pine, Aspen Mix	High Density Log	7.9	52		Unique stand with scattered monarch red pine with big caface fire scars. Quaking aspen in not looking good, but jack pine is still relatively small diameter for this type of site. Some scattered red pine and white pine regeneration, but understory is also getting full of fire intolerant and browse tolerant species.
9	42110 - Planted Red Pine	Medium Density Log	33.8	88		Solid red pine stand that was thinned in 1992. Heavy oak undestory.
10	4310 - Pine, Oak Mix	High Density Log	13.5	88		Jack still present from original planting. It is falling apart and has woodpecker holes in alot of it. Aspen and red maple were cut out in the 60's. A few nice oak poles are present in spots.
11	4191 - Mixed Upland Deciduous with Conifer	High Density Sapling	3.8	7		Sapling deciduous stand with some supercanopy red pine. Looks like there were some jack pine and red pine planted in a few rows along the road as well
12	42110 - Planted Red Pine	High Density Log	9.4	88	111-140	Planted in 1922 with several stands in this compartment. Species thinned in 1992. This stand is split from it where BTA did not come in as strong. Not as good of a site as the similar stand further to the east. More oak in the understory mixed with birch, red maple and hawthorn.
13	4126 - White, Black, N. Pin Oak	High Density Log	5.2	95	81-110	Two aged stand where red maple understory is becoming part of the canopy. Red pine are original monarchs.



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
14	4191 - Mixed Upland Deciduous with Conifer	High Density Sapling	18.1	17		Red pine plantation that had low survivability due to heavy advanced regeneration in the preceding stand. It was coded as an R8 before it was clear-cut. Current species composition is desirable.
15	42110 - Planted Red Pine	Medium Density Log	19.4	88	51-80	Old plantation red pine. The aspen, oak, and maple were taken out in 1993. This stand had more aspen regen than the surrounding stands.
16	42110 - Planted Red Pine	High Density Log	8.3	88	111-140	Has a couple of monarch natural red pine and the rest is plantation similar to other plantations in the compartment. Red maple and oak understory is transitioning to poles
17	4130 - Aspen	High Density Pole	30.4	17		Steep hill to the southwest with more oak, pine, and maple. North part of stand is on north facing slope. Some birch regen along east edge by road edge.
18	4124 - Red with White Oak	High Density Log	82.8	95		Northeast piece is on the north slope and had a small firewood sale, but isn't much different than the rest. Oak dominated mixed with white pine that is partially in the canopy and partially suppressed. White pine was planted in 1922. Heavier pine density in the valley along Deadstream road. Nice oak understory in spots, but heavily browsed. Thinned in 1984. Much of the pine understory came in from that thinning. Overall BA swings 130,100,90,100,120,100,80
19	42110 - Planted Red Pine	High Density Log	31.4	88	141-170	Planted in 1922 with several stands in this compartment. Thick single stem red maple understory transitioning to poles with nice oak sap/poles mixed in. Heavier aspen mixed into the canopy to the southeast. BA swings 130, 170, 150, 140. Wasn't thinned with other stands to the west.
20	42100 - Planted White Pine	Medium Density Log	4.5	88	81-110	Planted in 1922. Thinned to favor white pine in 2003
21	4124 - Red with White Oak	High Density Log	14.6	95	81-110	Mix big wolfy red oak and some patches of nice quality stems. Has a couple of aspen clones and a vein of red pine.
22	4129 - Mixed Oak	Medium Density Log	31.1	95	51-80	Large red oak log trees mixed with red pine and a few red maple in the canopy. Heavy red maple understory that is now approaching the canopy and a pocket of aspen sapling/poles on the south edge out by road.
23	4132 - Aspen, Jack Pine	Medium Density Pole	2.0	50		Mix of ages of aspen. Jack pine is still bushy. Located directly along road.
25	4130 - Aspen	High Density Pole	1.4	27		
26	42110 - Planted Red Pine	High Density Pole	11.1	45	171-200	Contains a pocket of decadent aspen to the northeast.

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Roscommon Mgt. Unit

5 – Forested Stands

Compartment: 020
Year of Entry: 2012

Data updated before 10:00 AM

	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
27	4124 - Red with White Oak	High Density Log	32.8	95	81-110	Oak and planted white pine from 1922. Similar to the stand to east across highway, but more white pine in the canopy and more red maple in the understory sprouts Isolated pockets with advanced oak regeneration. BA swings 90,90,130,120,110, 90
28	4123 - Red Oak	High Density Log	22.7	95	111-140	Northern red oak mixed with bigtooth aspen. Has a fairly heavy red maple understory with some white pine on the east line and some overtopped red pine from the plantation on the west line. The aspen is beginning to fall apart in some places, but is younger and healthier in others.
29	4124 - Red with White Oak	High Density Log	131.1	95	111-140	Red oak dominated mixed with white pine that is partially in the canopy and partially suppressed. White pine was planted in 1922. Approximately half of the stand was species thinned of red maple and aspen in 1993. Red maple stump sprouts scattered, but not really heavy. Isolated pockets with advanced oak regeneration. Half acre pocket of aspen with nice 4" red oak poles on east edge of stand bordering Hudson Drive. Overall BA swings 140,150,140,90,190,130,140,160. Informal cross country ski trail from north to south.
30	42110 - Planted Red Pine	Medium Density Log	21.0	88	51-80	Species thinned in 1993. All red pine was left. Highly variable BA. Aspen understory is dense and transitioning to poles some of which are already in the canopy.
31	4310 - Pine, Oak Mix	High Density Log	31.9	88	141-170	Plantation from 1922. The north area is partially overtopped by oak and the small piece to the south is dominated by red pine in the canopy. Wide variety of DBH classes with interesting structure. Suppressed red pine scattered throughout. Nice oak understory 3-5 ft tall



Stand	Cover Type	Acres	Gen Cmts:
4	6224 - Treed Bog	48.3	
24	122 - Road/Parking Lot	10.2	

**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.

Data updated before 10:00 AM

Stand	SCA Type	SCA Name	Acres	Comments
1	Unique Site - SCA	71020001	19.9	
8	Unique Site - SCA	71020008	7.9	
4	Unique Site - SCA	NF_71020004	48.3	



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.

Data updated before 10:00 AM

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

Conservation Area	Type	Description
SCA	Cold Water Lake	A coldwater lake has temperature and dissolved oxygen conditions that allow naturally-reproduced or stocked trout populations and those of other coldwater fish species to persist from year to year. Suitable conditions for coldwater fishes may occur in Michigan lakes if they are relatively deep, have substantial groundwater inflows, or are located in colder (northern) areas of the state. Such lakes are established by Director's action and designated as trout resources by Fisheries Order 200.
SCA	Concentrated Recreation Area	Facilities that are designed and maintained for routine or heavy recreational use, including State Parks, State Forest campgrounds, motorized and non-motorized trails, trailheads, staging areas and public access sites.