



**Sault Forest Management Unit
Compartment Review Presentation**

Compartment #114 **Entry Year: 2012**
Compartment Acreage: 1,889 **County: Mackinac**

Revision Date: July 13, 2010

Stand Examiner: Matt Edison

Legal Description: T42N R6W Sec. 19, 20, & 21, Moran Township

Identified Planning Goals ('Management Area' or 'RMU', if applicable): Mackinac Mix

Management Goals: Management in this compartment is limited by access and merchantability. The proposed treatments are to manage the northern hardwoods and fir stands to promote quality and stimulate regeneration.

Soil and Topography: Wallace sands, Au Gres sand, Kinross-Aubres complex, Markey-Carbondale muck, Histosols and Aquents

Ownership Patterns, Development, and Land Use in and Around the Compartment: Compartment consists entirely of and is surrounded entirely by State ownership.

Unique, Natural Features: Michigan Natural Features Inventories has identified parts of section 20 as "poor fen".

Archeological, Historical, and Cultural Features: None

Special Management Designations or Considerations: None

Watershed and Fisheries Considerations: The South Branch Carp River flows through the northeast corner of this compartment. A 200' no-clearcut buffer should be maintained adjacent to this stream.

Wildlife Habitat Considerations: Compartment 114 is dominated by cedar and lowland conifer swamp, part of which is very wet and contains sparse forested cover. A number of small open water areas provide habitat for beaver, great blue heron, and other species. Other cover types include limited areas of hardwoods, spruce/fir, and aspen. Wildlife objectives include maintaining the lowland swamp conifer and other wetland habitats, providing some young lowland conifer habitat as well as young early-successional mixed habitat in the northeastern part of the compartment, and maintaining some maturing upland deciduous habitat. All cedar will be left, and a component of mature birch will be included in the retention. Snags will be retained for cavity nesting species. Additional wildlife benefitting from these practices include wolves, white-tailed deer, ruffed grouse, American woodcock, bobcat, American marten, and a number of neotropical migratory birds.

Mineral Resource and Development Concerns and/or Restrictions: Surface sediments consist of lacustrine (lake) sand and gravel and peat and muck. There is insufficient data to determine the Glacial Drift thickness. The Silurian Engadine Group subgroups below the Glacial Drift. The Engadine is quarried for stone/limestone elsewhere in the UP. The nearest gravel pit is five miles to the northwest. There appears to

be limited gravel potential. There is no economic oil and gas production in the UP. Portions of the land is surface only.

Vehicle Access: Access to the compartment is limited to two routes. Road access to section 19 is via Bennett road from the west. Dell's Mills road enters the compartment from the east and through section 21 and is the only road access into section 20. Vehicle traffic is limited to dry periods along much of these roads, as they tend to flood out during wet periods. Caffey Truck Trail crosses the very NE corner of section 21.

Survey Needs: No survey needs for proposed treatments this entry period.

Recreational Facilities and Opportunities: Recreation opportunities in this compartment are deer, grouse and rabbit hunting. Trapping and wildlife viewing opportunities exist as well. Moose can be observed in this compartment.

Fire Protection: Little potential for large problem fires exists. Nearly the entire compartment consists of low and wetter ground. Equipment access would be a problem for any fires. There are some scattered large white pine that could attract lightning and with heavy amounts of organic matter in the soil, any duff fires could require extensive mop-up.

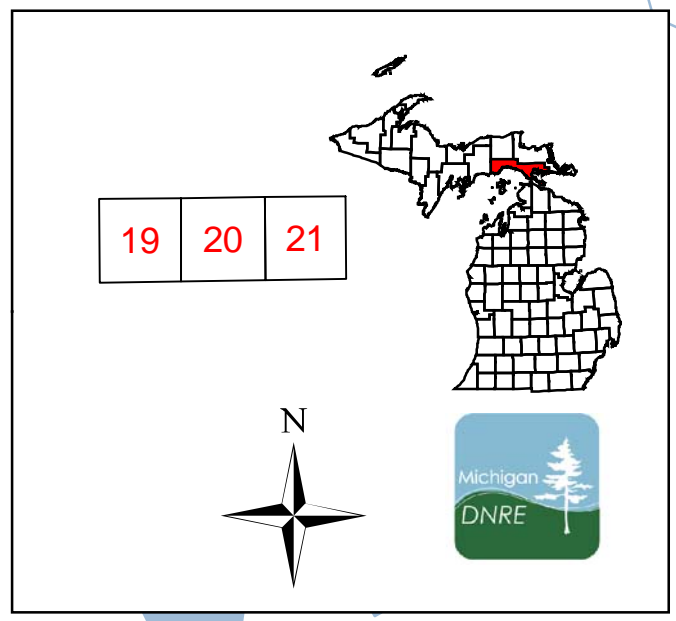
Additional Compartment Information:

- **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**

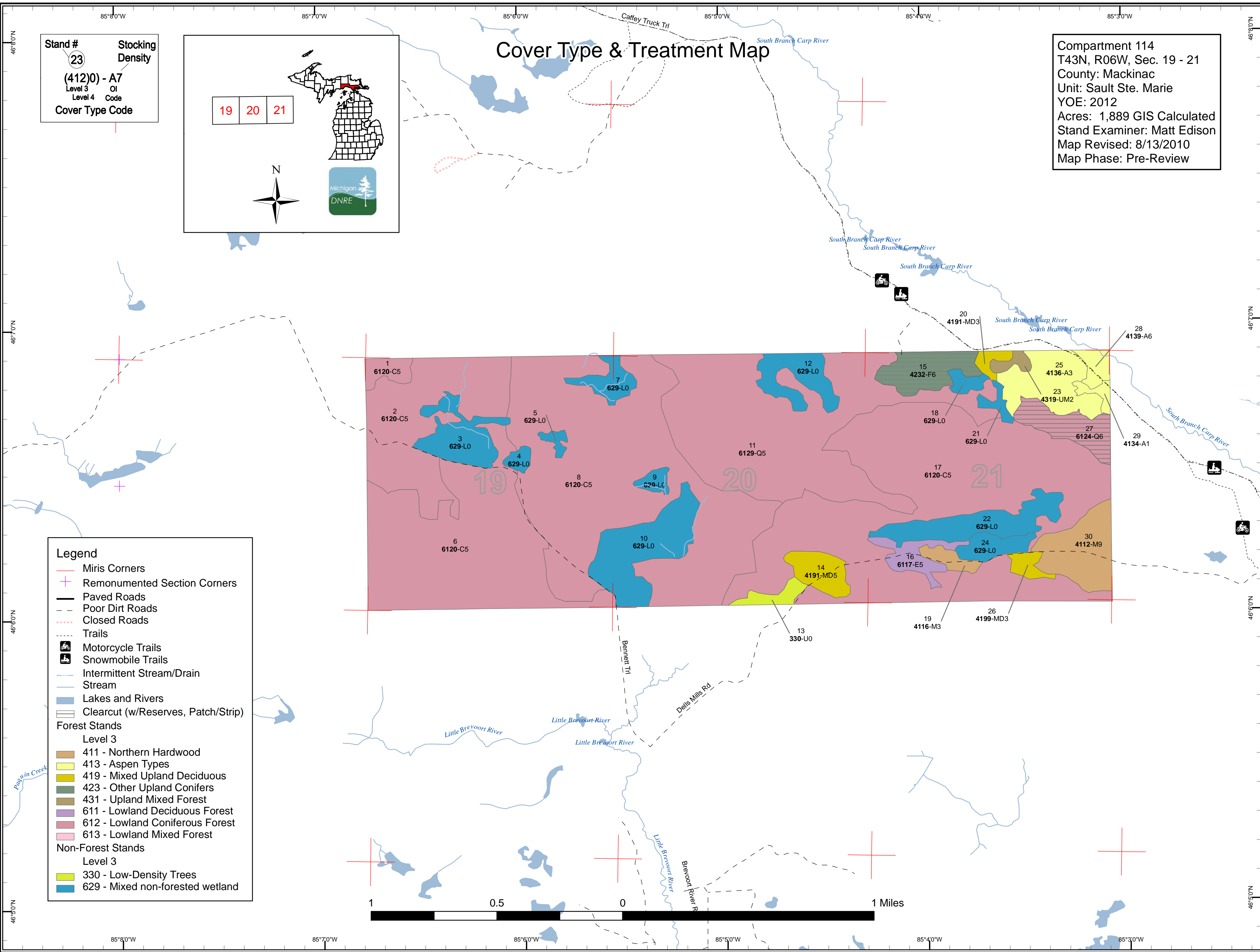
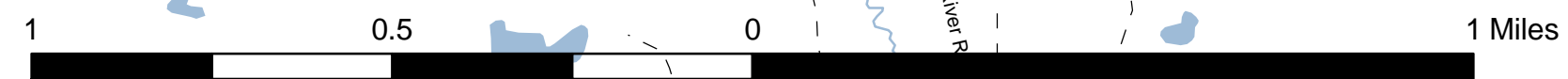
Cover Type & Treatment Map

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



Compartment 114
 T43N, R06W, Sec. 19 - 21
 County: Mackinac
 Unit: Sault Ste. Marie
 YOE: 2012
 Acres: 1,889 GIS Calculated
 Stand Examiner: Matt Edison
 Map Revised: 8/13/2010
 Map Phase: Pre-Review

- Legend**
- Miris Corners
 - ⊕ Remonumented Section Corners
 - Paved Roads
 - - - Poor Dirt Roads
 - ⋯ Closed Roads
 - ⋯ Trails
 - 🏍 Motorcycle Trails
 - 🛷 Snowmobile Trails
 - ⋯ Intermittent Stream/Drain
 - Stream
 - Lakes and Rivers
 - ▭ Clearcut (w/Reserves, Patch/Strip)
 - Forest Stands**
 - Level 3
 - 411 - Northern Hardwood
 - 413 - Aspen Types
 - 419 - Mixed Upland Deciduous
 - 423 - Other Upland Conifers
 - 431 - Upland Mixed Forest
 - 611 - Lowland Deciduous Forest
 - 612 - Lowland Coniferous Forest
 - 613 - Lowland Mixed Forest
 - Non-Forest Stands**
 - Level 3
 - 330 - Low-Density Trees
 - 629 - Mixed non-forested wetland

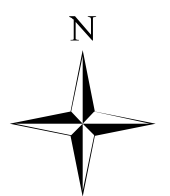


Stand Boundary Map

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

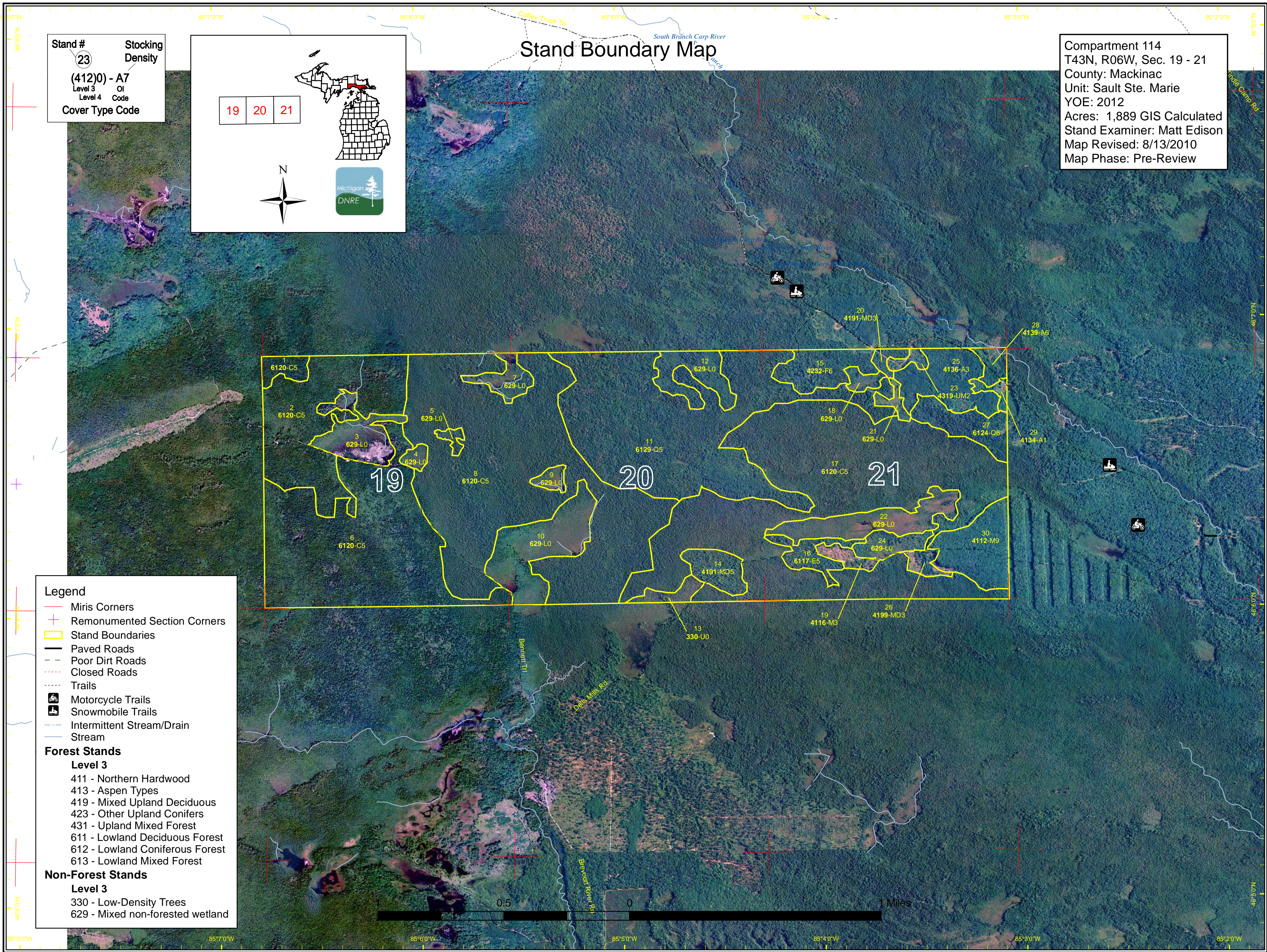
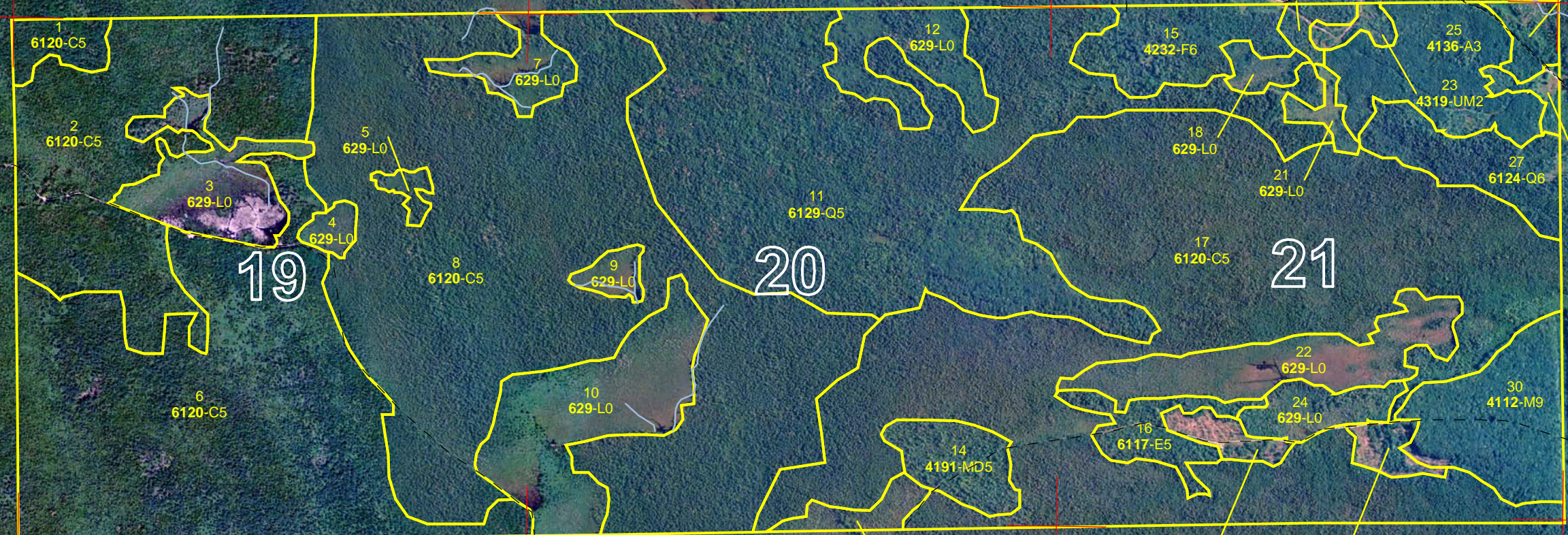
Stocking
 Density

19 20 21



Compartment 114
 T43N, R06W, Sec. 19 - 21
 County: Mackinac
 Unit: Sault Ste. Marie
 YOE: 2012
 Acres: 1,889 GIS Calculated
 Stand Examiner: Matt Edison
 Map Revised: 8/13/2010
 Map Phase: Pre-Review

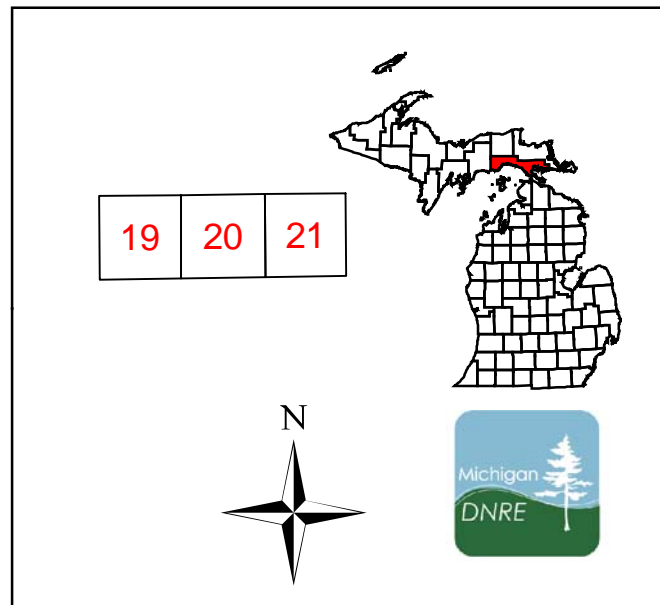
- Legend**
- Miris Corners
 - + Remonumented Section Corners
 - Stand Boundaries
 - Paved Roads
 - - - Poor Dirt Roads
 - ⋯ Closed Roads
 - ⋯ Trails
 - 🏍 Motorcycle Trails
 - 🏂 Snowmobile Trails
 - ⋯ Intermittent Stream/Drain
 - Stream
- Forest Stands**
- Level 3**
- 411 - Northern Hardwood
 - 413 - Aspen Types
 - 419 - Mixed Upland Deciduous
 - 423 - Other Upland Conifers
 - 431 - Upland Mixed Forest
 - 611 - Lowland Deciduous Forest
 - 612 - Lowland Coniferous Forest
 - 613 - Lowland Mixed Forest
- Non-Forest Stands**
- Level 3**
- 330 - Low-Density Trees
 - 629 - Mixed non-forested wetland



Dedicated & Proposed Special Conservation Area Map

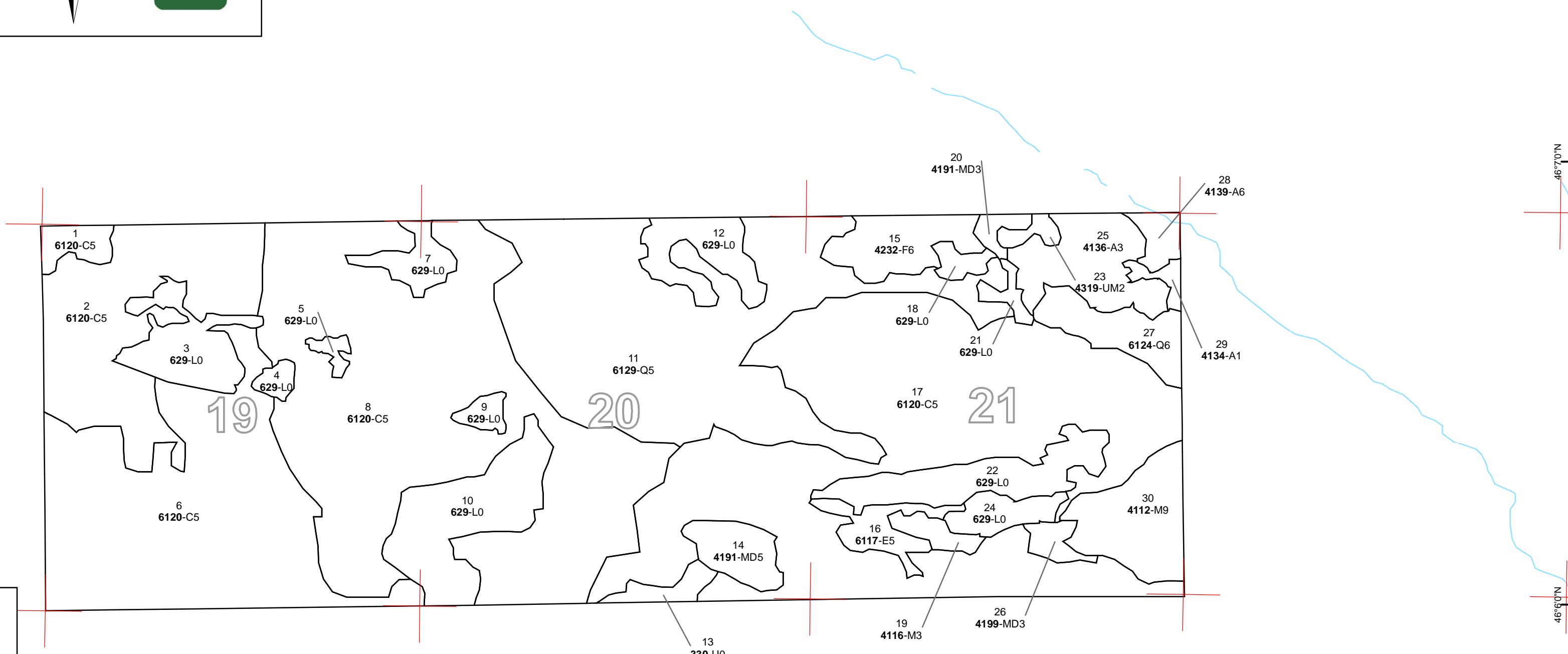
Stand #
 (412)0 - A7
 Level 3 OI
 Level 4 Code
Cover Type Code

Stocking Density



19 20 21

Compartment 114
 T43N, R06W, Sec. 19 - 21
 County: Mackinac
 Unit: Sault Ste. Marie
 YOE: 2012
 Acres: 1,889 GIS Calculated
 Stand Examiner: Matt Edison
 Map Revised: 8/13/2010
 Map Phase: Pre-Review



- Legend**
- Miris Corners
 - + Remonumented Section Corners
 - Stand Boundaries
 - Proposed Special Conservation Areas**
 - ▨ SCA - Special Conservation Area
 - ▩ SCA Removal
 - Dedicated Special Conservation Areas**
 - Cold Water Streams
 - Ecological Reference Areas
 - Forest Stands**
 - Level 3**
 - 411 - Northern Hardwood
 - 413 - Aspen Types
 - 419 - Mixed Upland Deciduous
 - 423 - Other Upland Conifers
 - 431 - Upland Mixed Forest
 - 611 - Lowland Deciduous Forest
 - 612 - Lowland Coniferous Forest
 - 613 - Lowland Mixed Forest
 - Non-Forest Stands**
 - Level 3**
 - 330 - Low-Density Trees
 - 629 - Mixed non-forested wetland

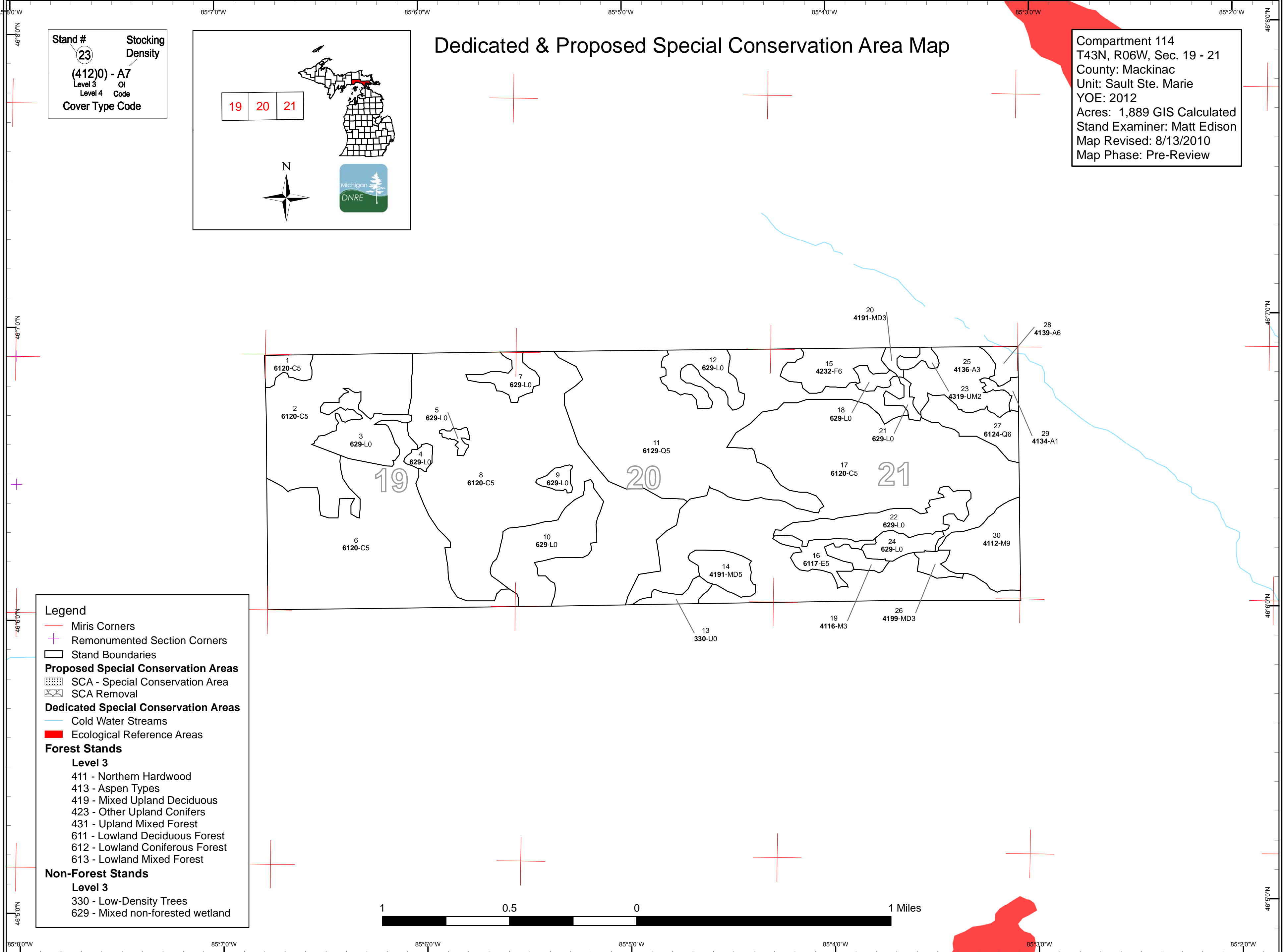
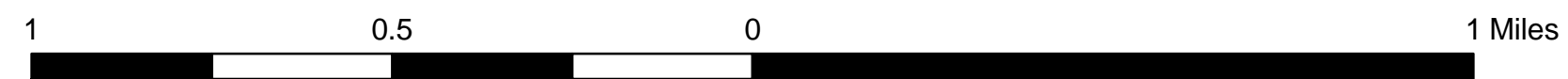


Table 1 – Total Acres by Cover Type and Age Class

Data updated before 2:00 PM



| | 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 | 5 | 46 | 9 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 60 |
| Cedar | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 376 | 412 | 360 | 0 | 0 | 1148 |
| Low-Density Trees | 9 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 9 |
| Lowland Conifers | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 29 | 0 | 0 | 0 | 0 | 270 | 0 | 0 | 299 |
| Lowland Deciduous | 0 | 0 | 0 | 0 | 0 | 0 | 18 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 18 |
| Lowland Shrub | 228 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 228 |
| Mixed Upland Deciduous | 0 | 8 | 0 | 26 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 34 |
| Northern Hardwood | 0 | 9 | 0 | 0 | 0 | 0 | 0 | 46 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 55 |
| Upland Mixed Forest | 0 | 0 | 0 | 5 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 5 |
| Upland Spruce/Fir | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 31 | 0 | 0 | 0 | 0 | 0 | 0 | 31 |
| Total | 237 | 16 | 5 | 77 | 9 | 0 | 18 | 76 | 31 | 0 | 376 | 412 | 630 | 0 | 0 | 1889 |



Sault Ste. Marie Mgt. Unit
Year of Entry 2012

Table 2 – Proposed Treatment Summaries

Data updated before 2:00 PM

Compartment 114
Total Compartment Acres: 1889

Acres by Treatment Type

| | | | | |
|-------------------------|-------------------------|-------------------|---------------------|-----------|
| Commercial Harvest - 61 | 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 |
|-------------------|-----------|-----------|-----------|-------------|----------|-----------------|-------------|
| Lowland Conifers | 29 | 0 | 0 | 0 | 0 | 0 | 29 |
| Upland Spruce/Fir | 31 | 0 | 0 | 0 | 0 | 0 | 31 |
| Total | 61 | 0 | 0 | 0 | 0 | 0 | 61 |



S
t
a
n
d

| Treatment Name | Acres | Stage1 CoverType | Size Density | Stand Age | Treatment Type | Treatment Method | Cover Type Objective | Approval Status |
|-----------------|-------|-----------------------|-------------------|-----------|----------------|------------------------|----------------------|-----------------------|
| 15 45114015-Cut | 31.5 | 42320 - Upland Spruce | High Density Pole | 72 | Harvest | Clearcut with Reserves | Mixed Upland Forest | Cmpt. Review Proposal |

Prescription: Clearcut spruce, fir, aspen, birch, and red maple. Leave any cedar as retention.

Specs:

Other

Comments:

Next Steps: Follow-up treatment with a regeneration survey as per the work instructions. Acceptable regeneration is aspen, maple, cherry, cedar, yellow and paper birch, balsam fir, white spruce, black spruce and white pine.

| | | | | | | | | |
|-----------------|------|---------------------------|-------------------|----|---------|------------------------|--------------------|-----------------------|
| 27 45114027-Cut | 29.4 | 6124 - Lowland Spruce-Fir | High Density Pole | 66 | Harvest | Clearcut with Reserves | Lowland Spruce-Fir | Cmpt. Review Proposal |
|-----------------|------|---------------------------|-------------------|----|---------|------------------------|--------------------|-----------------------|

Prescription: Clearcut spruce, fir, aspen, paper birch, and red maple. Leave cedar for retention.

Specs:

Other

Comments:

Next Steps: Follow-up treatment with a regeneration survey as per the work instructions. Acceptable regeneration is aspen, maple, cherry, cedar, yellow and paper birch, balsam fir, white spruce, black spruce and white pine.

**Total Treatment
Acreage Proposed: 60.9**



S
t
a
n
d

| Treatment Name | Acres | Stage1 CoverType | Size Density | Stand Age | Treatment Type | Treatment Method | Cover Type Objective | Approval Status |
|----------------|-------|------------------|--------------|-----------|----------------|------------------|----------------------|-----------------|
|----------------|-------|------------------|--------------|-----------|----------------|------------------|----------------------|-----------------|

#Error

Prescription
Specs:

Other
Comment:

Next
Steps:

Limiting Factor and No
Treatment Reason

Total Treatment
Acres Proposed: 0

| S t a n d | Sault Ste. Marie Mgt. Unit | | 5 – Forested Stands | | Compartment: 114 |
|-----------------------------|--|-------------------------|---------------------|--------------|--|
| | Level 4 Cover Type | Size Density | Acres | Stand Age | BA Range |
| Data updated before 2:00 PM | | | | | |
| General Comments: | | | | | |
| 1 | 6120 - Lowland Cedar | Medium Density Pole | 11.3 | 108 | Large dia, short height cedar w/ some scattered birch and such. Wet ground, some cedar is blown down. Not much for deer sign and there is some cedar regen. |
| 2 | 6120 - Lowland Cedar | Medium Density Pole | 128.7 | 110 | Thick jumble of shorter cedar. A lot is tipped in the wet soil. Some scattered ash, birch, and spruce. A tamarack or 2 near the road. Not much productivity here. There is some cedar regen in places and a lot of tag alder where wettest. Stay away from here. |
| 6 | 6120 - Lowland Cedar | Medium Density Pole | 231.4 | 110 | Poor quality sparse cedar stand that has been flooded out in past. Little chance of merchantability here ever. It is what it is, a wet non productive cedar swsmp. |
| 8 | 6120 - Lowland Cedar | Medium Density Pole | 376.3 | 95 | Areas of down cedar, very wet in spots. More mix of tamarack in this stand. Not much to see or do here. |
| 11 | 6129 - Mixed Coniferous Lowland Forest | Medium Density Pole | 269.7 | 112 | Non-merchantable wet cedar and tamarack. some areas of black spruce and mr brush. Alot of tag wherever open. Poor quality stand. No reason to ever come here again, deer flies the size of small birds! |
| 14 | 4191 - Mixed Upland Deciduous with Conifer | Medium Density Pole | 20.3 | 27 | Cc in 1983. Stand is mostly mr, cherry brush w some aspen and balsam. tagalder filling in wet open areas. Poor quality. |
| 15 | 42320 - Upland Spruce | High Density Pole | 31.5 | 72 | Soft ground, sphagnum. Mostly spruce and birch with scattered red maple and aspen. |
| 16 | 6117 - Lowland Deciduous, Mixed Coniferous | Medium Density Pole | 18.0 | 50 | Poor quality mixed stand of variable aspen, maple and cherry. Some tamarack and cedar scattered. not merchantable at thi time. check again in 10 years. |
| 17 | 6120 - Lowland Cedar | Medium Density Pole | 400.7 | 100 | Very wet, poor quality sparse stand of mostly cedar. 1to 2 sticks. Some spruce and tamarack in small patches scattered. Do not return for years! |
| 19 | 4116 - Mixed N. Hardwood - Aspen | High Density Sapling | 8.6 | 8 | cc in 2002. mix of maple and cherry brush with aspen and some scattered spruce and balsam. |
| 20 | 4191 - Mixed Upland Deciduous with Conifer | High Density Sapling | 5.7 | 29 | Mix of young aspen, birch, cherry, and maple. Not big enough to be merchantable. Heavy stocking, check in 10 years for possible cc? |
| 23 | 4319 - Mixed Upland Forest | Medium Density | 5.3 | 21 | Mixed bag of poor quality aspen, mixed conifer w tamarack, balsam, & spruce. Small size, wet ground. |
| 25 | 4136 - Aspen, Mixed Conifer | High Density Sapling | 45.7 | 27 | aspen w patches of conifer and maple. cut in 1983. |
| 26 | 4199 - Other Mixed Upland Deciduous | High Density Sapling | 7.7 | 8 | portion cut in 2002. mix of cherry, maple, aspen, mostly brush at this point. |



S
t
a
n
d

Sault Ste. Marie Mgt. Unit

5 – Forested Stands

Compartment: 114

Data updated before 2:00 PM

Year of Entry: 2012



| | Level 4 Cover Type | Size Density | Acres | Stand Age | BA Range | General Comments: |
|-----------|--|------------------------|-------|--------------|-------------|--|
| 27 | 6124 - Lowland Spruce- Fir | High Density Pole | 29.4 | 66 | | mixed conifer with scattered maple and birch. access off of existing two track to north. winter cut. |
| 28 | 4139 - Aspen, Mixed Deciduous | High Density Pole | 9.4 | 30 | | Stand is mix of aspen and some clumps of maple and spruce and balsam. immature, chevk in 10 years. |
| 29 | 4134 - Aspen, Spruce/Fir | Low Density Sapling | 5.2 | 15 | | opening closing in with scattered aspen, balsam, & black cherry. |
| 30 | 4112 - Maple, Beech, Cherry Association | High Density Log | 46.4 | 66 | 81-110 | Thinned in past 10 years. maple, nice black cherry, hemlock, and some scattered white pine. |



| Stand | Cover Type | Acres | Gen Cmts: |
|-----------|----------------------------------|-------|---|
| 3 | 629 - Mixed non-forested wetland | 34.9 | Stand swapped from Non-Forested to Forested. Stand swapped from Forested to Non-Forested. |
| 4 | 629 - Mixed non-forested wetland | 5.0 | |
| 5 | 629 - Mixed non-forested wetland | 4.0 | |
| 7 | 629 - Mixed non-forested wetland | 15.1 | |
| 9 | 629 - Mixed non-forested wetland | 6.0 | |
| 10 | 629 - Mixed non-forested wetland | 62.8 | |
| 12 | 629 - Mixed non-forested wetland | 28.7 | |
| 13 | 330 - Low-Density Trees | 9.2 | |
| 18 | 629 - Mixed non-forested wetland | 6.4 | |
| 21 | 629 - Mixed non-forested wetland | 5.5 | |
| 22 | 629 - Mixed non-forested wetland | 44.3 | |
| 24 | 629 - Mixed non-forested wetland | 15.3 | New stand added. Stand swapped from Forested to Non-Forested. |



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 2:00 PM

| 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.

Data updated before 2:00 PM

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

| Conservation Area | Type | Description |
|-------------------|-------------------|---|
| 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. |