



COMPARTMENT REVIEW PRESENTATION

GAYLORD FOREST MANAGEMENT UNIT

COMPARTMENT: 108

ENTRY YEAR: 2013

ACREAGE: 1,715

COUNTY: Emmet

Revision Date: 05/19/2011

Stand Examiner: Don Stacks

Legal Description: T38N-R05W, Sections 19, 28, 30-33.

Management Goals: To provide for the protection, integrated management and responsible use of a healthy, productive, and undiminished forest resource base for the social, recreational, environmental, and economic benefit of the State of Michigan.

Soil and Topography: North of Wycamp Lake, the soil association is a Deer Park-Dune land association which is a deep, well-drained nearly level to very steep sandy soil on lake beaches and dunes. The terrain is a series of rolling inland dunes and is mostly covered with jack pine and red pine. South and east of Wycamp Lake, the association is a Carbondale-Tawas-Roscommon mix which is deep and very poorly drained. The terrain here is relatively flat and is a mix of aspen/oak and a smaller amount of northern hardwoods, with cedar in the lower lying areas.

Ownership Patterns, Development, and Land Use in and Around the Compartment: The land north of Wycamp Lake is bordered on the north by Wilderness State Park property. The rest of the compartment is adjacent to private residences, many of which are larger acreage family-owned farms. There is also three fairly large contiguous blocks of undeveloped private ownership, one of which is owned by Shorter's Shooting Preserve.

Unique, Natural Features: The potential for unique species of flora and fauna exists and noted in the MNFI compartment notes.

Archeological, Historical, and Cultural Features: A search of the Archeological Sites database identified multiple recorded features.

Special Management Designations or Considerations: Protected sensitive dune area in section 19. Director's order prohibiting dispersed camping in a portion of the compartment.

Watershed and Fisheries Considerations: This compartment contains Wycamp Lake, its surrounding swamp and lowland areas, and Collins Creek. Buffers between surface water and the adjacent clear cuts are appropriate, and cutting in wetlands should be avoided as much as possible. As always, the appropriate BMP's should be applied when working in the proximity of surface water.

Wildlife Habitat Considerations: This compartment lies around Wycamp Lake which supports a variety of wetland associated species including; waterfowl, loons, bald eagles, furbearers and various amphibians and white-tailed deer in the associated cedar swamp south of the lake. The northern part of this compartment lies on remnant coastal dune which consists of mainly of oak and jack pine, with heavy deer use due to the hard mast production. Stands 14 and 39 are going to be clear cut to provide early successional habitat utilized by white-tailed deer, grouse and woodcock. Stand 18 contains a large amount of apple trees which are going to be pruned to increase wild apple production.

Mineral Resource and Development Concerns and/or Restrictions: . Surface sediments consist of dune sand in the northwest, coarse textured glacial till (highlands in the northeast), lacustrine (lake) sand and gravel and glacial outwash sand and gravel and postglacial alluvium. The glacial drift thickness varies between 200 and 400 feet. The Devonian Detroit River Group subgroups below the glacial drift. The nearest gravel pit is located two miles to the south. The glacial till deposits in Sections 21 and 28 have gravel potential. The nearest oil and gas production, the Antrim Shale gas play, is located 33 miles to the southeast. The Collingwood Formation may have oil and gas potential in the area. Section 28 and 33 were recently leased.

Note: Dune sand near Lake Michigan may be in critical dune area

Vehicle Access: Access to all parts of the compartment can be achieved by way of multiple county roads, seasonal county roads, and forest trail roads.

Survey Needs: None needed.

Recreational Facilities and Opportunities: The North Country Pathway runs through the compartment from north to south, around the southwest corner of Wycamp Lake. Dispersed camping around Wycamp Lake became a problem in the 1990's, which resulted in a 1993 director's order prohibiting camping around the western 2/3 of the lake, except in designated areas, of which, none presently exist. Fishing and waterfowl hunting take place on Wycamp Lake.

Fire Protection: The northwest corner of the compartment has a fairly large jack pine component on rolling sand dunes. The rest of the compartment consists of lower risk aspen/oak, hardwood, and cedar swamp cover types. Fire protection is provided by the Carp Lake VFD, located about nine miles to the northeast, and the Pellston DNR Field Office, located about 14 miles to the southeast.

Additional Compartment Information:

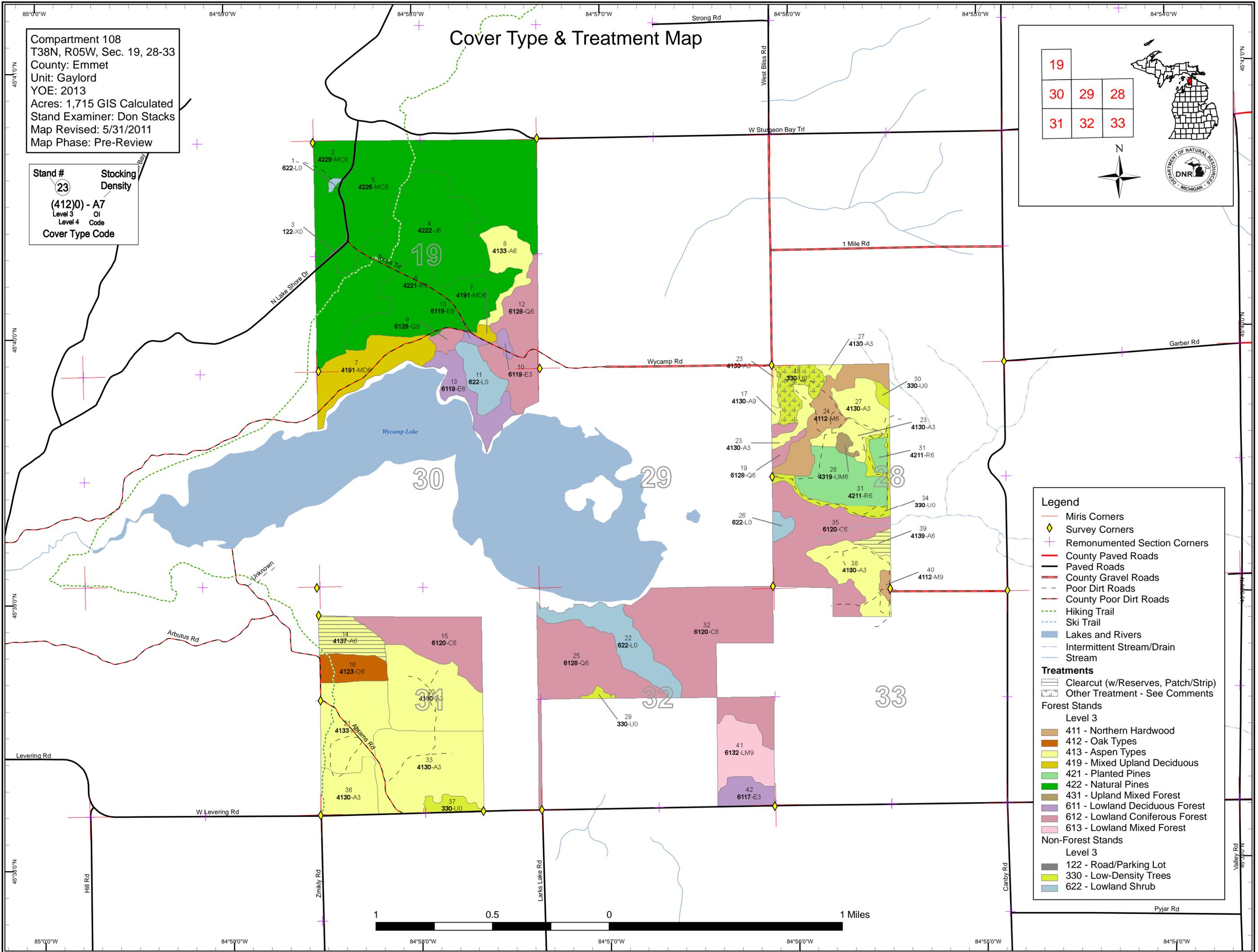
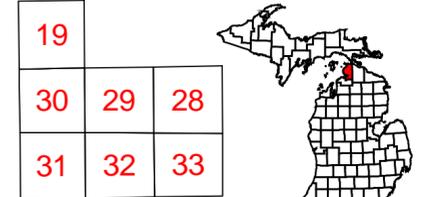
- **The following 3 reports from the IFMAP Inventory System are attached:**
 - ◆ **Cover Type by Age Class**
 - ◆ **Proposed Treatments – No Limiting Factors**
 - ◆ **Proposed Treatments – With Limiting Factors**

- **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 and current SCA's**

Cover Type & Treatment Map

Compartment 108
 T38N, R05W, Sec. 19, 28-33
 County: Emmet
 Unit: Gaylord
 YOY: 2013
 Acres: 1,715 GIS Calculated
 Stand Examiner: Don Stacks
 Map Revised: 5/31/2011
 Map Phase: Pre-Review

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



Legend

- Miris Corners
- Survey Corners
- Remonumented Section Corners
- County Paved Roads
- Paved Roads
- County Gravel Roads
- Poor Dirt Roads
- County Poor Dirt Roads
- Hiking Trail
- Ski Trail
- Lakes and Rivers
- Intermittent Stream/Drain
- Stream

Treatments

- Clearcut (w/Reserves, Patch/Strip)
- Other Treatment - See Comments

Forest Stands

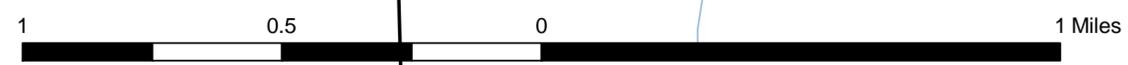
Level 3

- 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

- 122 - Road/Parking Lot
- 330 - Low-Density Trees
- 622 - Lowland Shrub

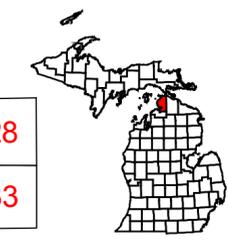


Stand Boundary Map

Compartment 108
 T38N, R05W, Sec. 19, 28-33
 County: Emmet
 Unit: Gaylord
 YOE: 2013
 Acres: 1,715 GIS Calculated
 Stand Examiner: Don Stacks
 Map Revised: 5/31/2011
 Map Phase: Pre-Review

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

| | | |
|----|----|----|
| 19 | | |
| 30 | 29 | 28 |
| 31 | 32 | 33 |



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Legend

- Miris Corners
- Remonumented Section Corners
- County Paved Roads
- Paved Roads
- County Gravel Roads
- Poor Dirt Roads
- County Poor Dirt Roads
- Intermittent Stream/Drain
- Stream
- Hiking Trail
- Ski Trail
- Stand Boundaries

Forest Stands

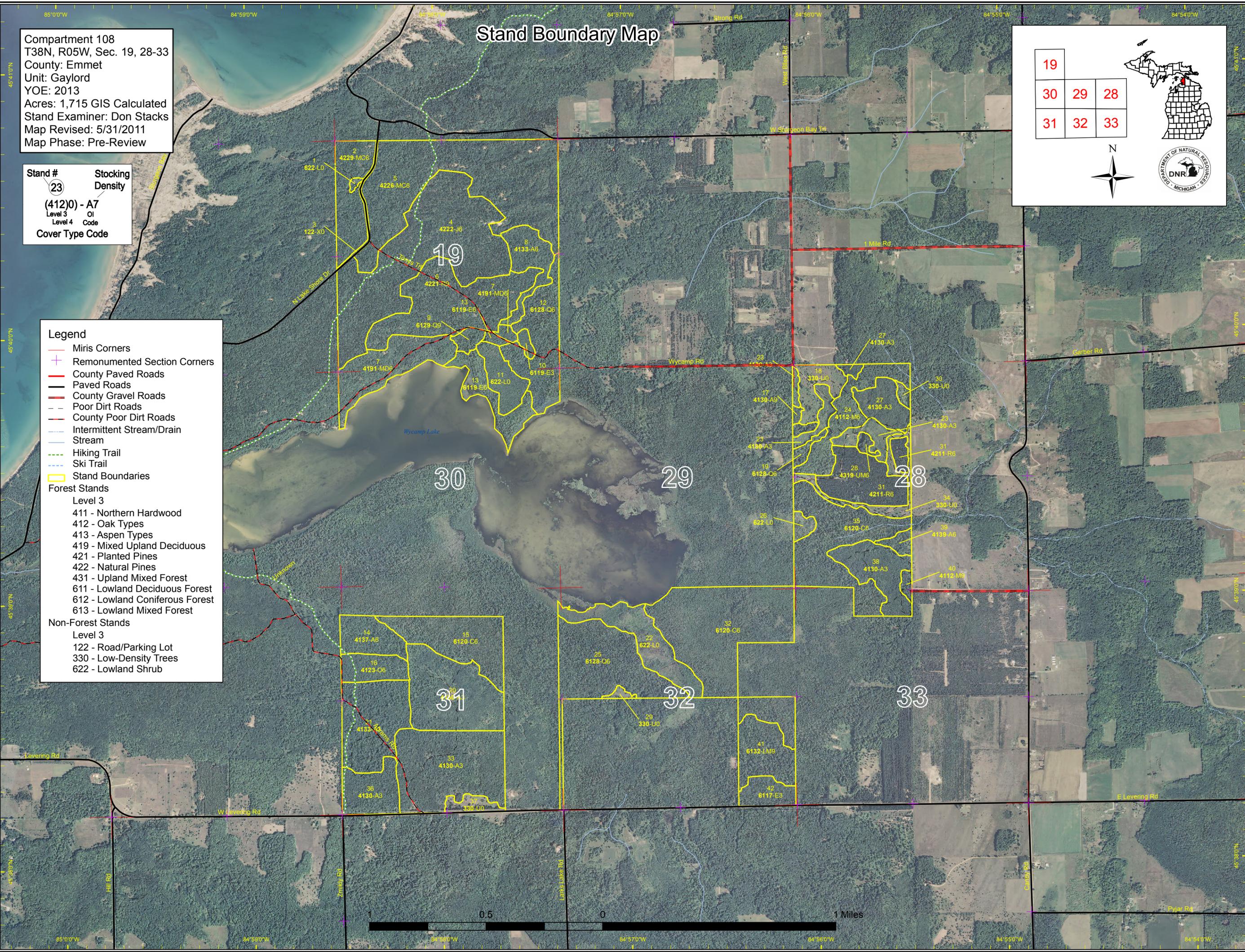
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Non-Forest Stands

Level 3

- 122 - Road/Parking Lot
- 330 - Low-Density Trees
- 622 - Lowland Shrub



Dedicated & Proposed Special Conservation Area Map

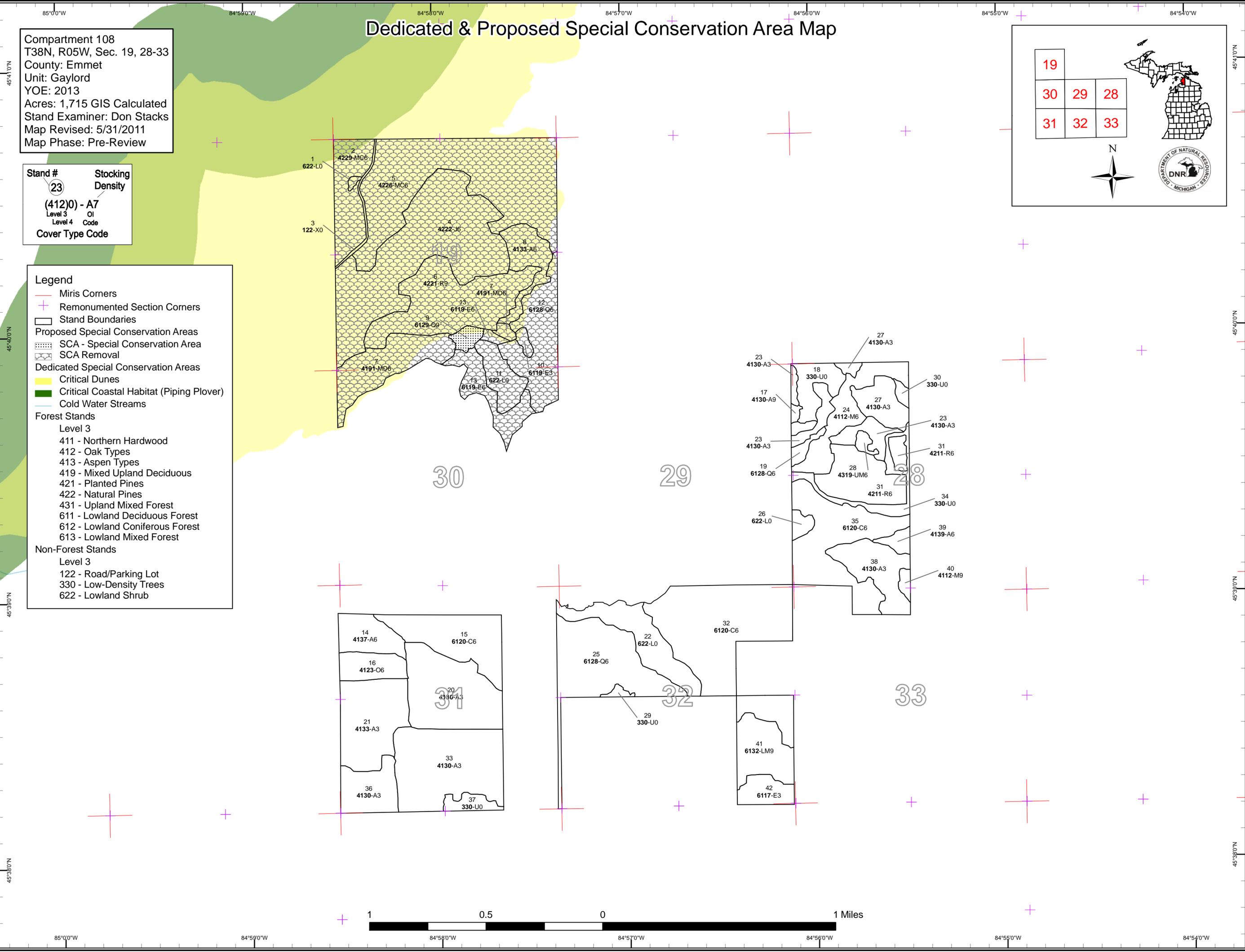
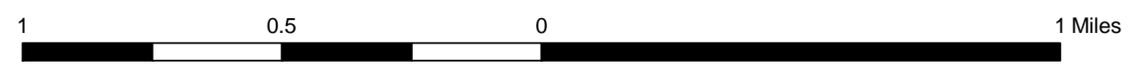
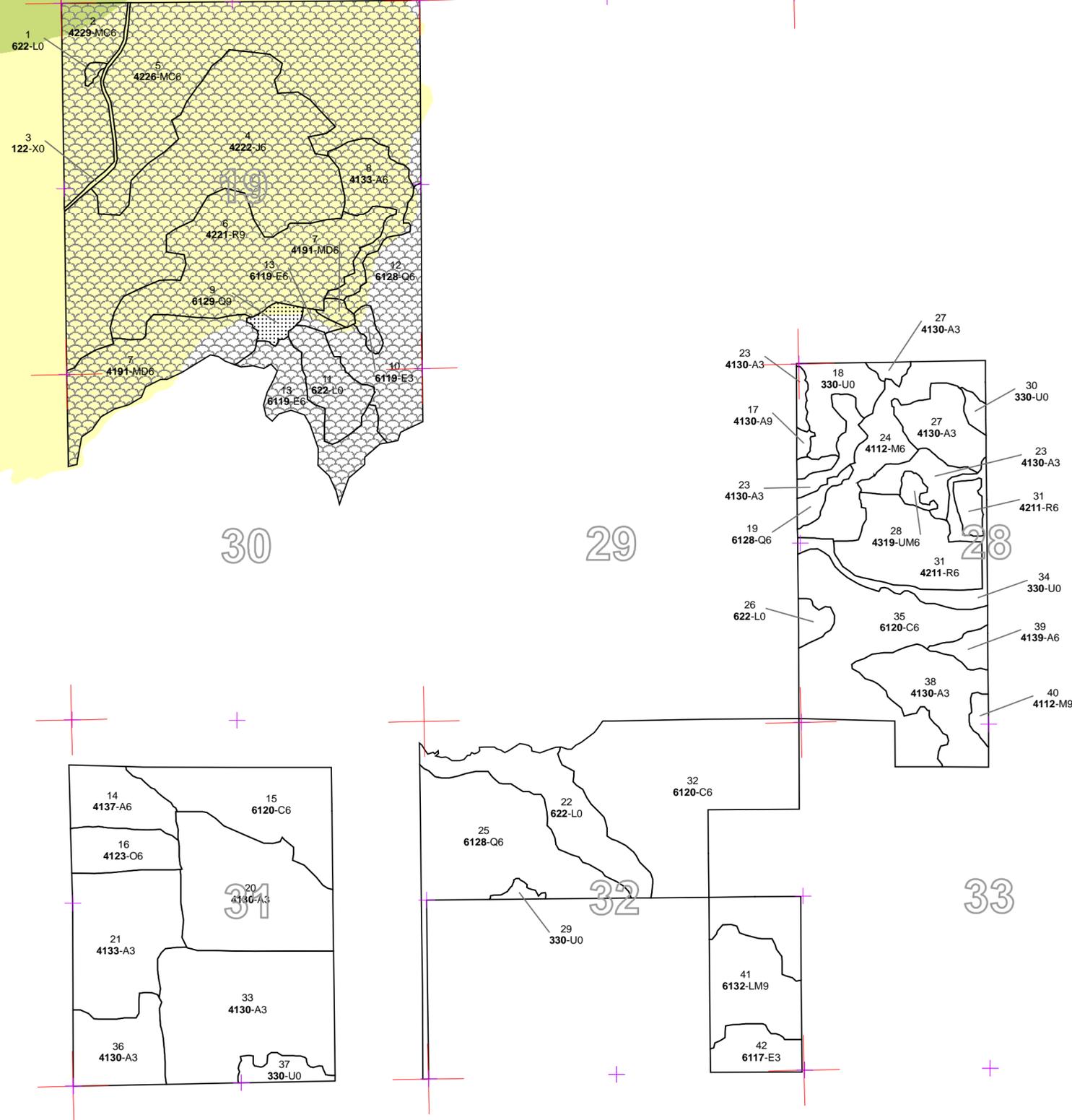
Compartment 108
 T38N, R05W, Sec. 19, 28-33
 County: Emmet
 Unit: Gaylord
 YOE: 2013
 Acres: 1,715 GIS Calculated
 Stand Examiner: Don Stacks
 Map Revised: 5/31/2011
 Map Phase: Pre-Review

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

- Legend**
- Miris Corners
 - ⊕ Remonumented Section Corners
 - Stand Boundaries
 - Proposed Special Conservation Areas
 - ▨ SCA - Special Conservation Area
 - ▩ SCA Removal
 - Dedicated Special Conservation Areas
 - Critical Dunes
 - Critical Coastal Habitat (Piping Plover)
 - Cold Water Streams
 - 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
 - 122 - Road/Parking Lot
 - 330 - Low-Density Trees
 - 622 - Lowland Shrub

| | | |
|----|----|----|
| 19 | | |
| 30 | 29 | 28 |
| 31 | 32 | 33 |

N





| | 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 | 26 | 210 | 121 | 0 | 0 | 2 | 60 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 419 |
| Cedar | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 143 | 0 | 57 | 82 | 0 | 0 | 281 |
| Jack Pine | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 165 | 0 | 0 | 0 | 0 | 165 |
| Low-Density Trees | 54 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 54 |
| Lowland Conifers | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 57 | 0 | 84 | 8 | 0 | 7 | 0 | 156 |
| Lowland Deciduous | 0 | 0 | 0 | 20 | 0 | 0 | 0 | 0 | 0 | 31 | 0 | 0 | 0 | 0 | 0 | 52 |
| Lowland Mixed Forest | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 37 | 0 | 0 | 0 | 37 |
| Lowland Shrub | 74 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 74 |
| Mixed Upland Deciduous | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 55 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 55 |
| Natural Mixed Pines | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 42 | 0 | 0 | 169 | 0 | 0 | 0 | 0 | 211 |
| Northern Hardwood | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 43 | 0 | 0 | 0 | 0 | 0 | 43 |
| Oak | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 21 | 0 | 0 | 0 | 0 | 21 |
| Red Pine | 0 | 0 | 0 | 50 | 0 | 0 | 0 | 0 | 92 | 0 | 0 | 0 | 0 | 0 | 0 | 142 |
| Upland Mixed Forest | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 4 | 0 | 0 | 0 | 0 | 4 |
| Urban | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3 |
| Total | 131 | 26 | 210 | 192 | 0 | 0 | 2 | 156 | 149 | 217 | 442 | 102 | 82 | 7 | 0 | 1715 |



Table 2 – Proposed Treatment Summaries

Gaylord Mgt. Unit
Year of Entry 2013

Compartment 108
Total Compartment Acres: 1715

Acres by Treatment Type

| | | | | |
|-------------------------|-------------------------|-------------------|---------------------|------------|
| Commercial Harvest - 32 | Site Prep - 0 | Tree Planting - 0 | Prescribed Burn - 0 | Other - 21 |
| 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> |
|--------------|-----------------|------------------|------------------|--------------------|-----------------|------------------------|--------------------|
| Aspen | 32 | 0 | 0 | 0 | 0 | 0 | 32 |
| Total | 32 | 0 | 0 | 0 | 0 | 0 | 32 |

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| | Treatment Name | Acres | Stage1 CoverType | Size Density | Stand Age | Treatment Type | Treatment Method | Cover Type Objective | Approval Status |
|----|-----------------|-------|---------------------|-------------------|-----------|----------------|------------------------|----------------------|-----------------------|
| 14 | 52108014-CCRes. | 26.0 | 4137 - Aspen, Birch | High Density Pole | 68 | Harvest | Clearcut with Reserves | 4137 - Aspen, Birch | Cmpt. Review Proposal |

Prescription Prescribe a final harvest this Y.O.E. Leave white pine and red oak. Also leave two smaller islands for retention purposes. Mixed regen will be acceptable. Heavy deer browsing activity. Stand is adjacent to cedar swamp.

Other Stand now consists of a mix of big-toothed aspen, paper birch, and red maple, with lesser amounts of white pine and balsam fir. Most of the paper birch has had it's bark stripped for crafts by local residents, which has resulted in a significant amount of mortality over the last ten years. The last year of entry showed 100ft of paper birch. This year there is twenty.

Next
Steps:

| | | | | | | | | | |
|----|-------------|-----|-------------------------------|-------------------|----|---------|----------|-------------------------------|-----------------------|
| 39 | 52108039-CC | 6.4 | 4139 - Aspen, Mixed Deciduous | High Density Pole | 64 | Harvest | Clearcut | 4139 - Aspen, Mixed Deciduous | Cmpt. Review Proposal |
|----|-------------|-----|-------------------------------|-------------------|----|---------|----------|-------------------------------|-----------------------|

Prescription Harvest this stand this Y.O.E. and sell it with the prescribed stand located to the west in section 31 to increase acreage/volume for sale, to make it more commercially attractive to producers. Leave adequate buffer between north edge of sale area and the stream in the adjacent cedar stand. No retention island needed. Leave hemlock, red oak, and white pine.

Other Small stand of mixed big-toothed aspen/red maple poletimber, with a few scattered sawlog trees. A little paper birch and balsam fir is also found in the stand. Adjacent to cedar swamp. Significant browsing in understory. A small stream is located to the north of this stand, just into the cedar stand.

Next
Steps:

| | | | | | | | | | |
|----|-------------------|------|--------------|--|---|-------|-------------|--------------------------------|-----------------------|
| 18 | NF_52108018-Other | 21.2 | Non-Forested | | 0 | Other | Unspecified | 3303 - Mixed Low Density Trees | Cmpt. Review Proposal |
|----|-------------------|------|--------------|--|---|-------|-------------|--------------------------------|-----------------------|

Prescription Prune apple trees.

Other
Comments:

Next
Steps:

**Total Treatment
Acreage Proposed: 53.6**

**Table 4 -- Treatments Prescribed with
a Limiting Factor**



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| 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
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 |
|----------------|-------|------------------|--------------|-----------|----------------|------------------|----------------------|-----------------|
|----------------|-------|------------------|--------------|-----------|----------------|------------------|----------------------|-----------------|

Prescription
Specs:

Other
Comments:

Next
Steps:

**Total Treatment
Acreage Proposed: 0**

S
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Gaylord Mgt. Unit

5 – Forested Stands

Compartment: 108

Year of Entry: 2013



| | Level 4 Cover Type | Size Density | Acres | Stand Age | BA Range | General Comments: |
|----|--|----------------------|-------|--------------|-------------|--|
| 2 | 42290 - Natural Mixed Pine | High Density Pole | 41.5 | 67 | 111-140 | Old shoreline dune location with a mix of jack pine, red pine, white pine, quaking aspen and red oak. Between dunes small cedar inclusions exist. Adjacent to N. Lake Shore Dr. |
| 4 | 42220 - Natural Jack Pine | High Density Pole | 164.5 | 90 | 81-110 | Jack pine poletimber/saplings growing on many rolling sand dunes. Seasonal county road runs through stand, as well as North Country Pathway. Scattered red pine, white pine, red oak, and big-toothed aspen also present. Occasional pockets of mortality. |
| 5 | 42260 - Natural Pine, Mixed Deciduous | High Density Pole | 169.1 | 93 | 81-110 | Stand consists of mixed natural pine poletimber/sawtimber, as well as red oak and big-toothed aspen. White pine saplings are consistent in the understory. North Country Pathway runs through stand. Adjacent to county road. |
| 6 | 42210 - Natural Red Pine | High Density Log | 92.4 | 70 | 81-110 | Stand consists of mostly red pine sawtimber/poletimber. There is also jack pine and red oak poletimber found uniformly within the stand. A seasonal county road runs through this stand. |
| 7 | 4191 - Mixed Upland Deciduous with Conifer | High Density Pole | 54.6 | 65 | 81-110 | Red oak poletimber/sawtimber with lesser amounts of red pine, white pine, and big-toothed aspen running along Wycamp Rd. |
| 8 | 4133 - Aspen, Mixed Pine | High Density Pole | 27.2 | 65 | 111-140 | Lesser quality, mature/overmature big-toothed aspen. Lesser amount of red oak poletimber/sawtimber, and a mix of large red pine/white pine, and jack pine poletimber. Stand lies on old shoreline sand dunes. |
| 9 | 6129 - Mixed Coniferous Lowland Forest | High Density Log | 6.7 | 164 | 200+ | Small, mature hemlock stand adjacent to Wycamp Rd. Large cedar and white pine present also. A few paper birch and red maple poletimber trees in understory. Not much present for ground cover. |
| 10 | 6119 - Mixed Lowland Deciduous Forest | High Density Sapling | 3.6 | 20 | | Small stand of swamp hardwood saplings/tag alder. |
| 12 | 6128 - Lowland Coniferous, Mixed Deciduous | High Density Pole | 57.0 | 73 | 111-140 | Mixed swamp conifers with an old, overmature aspen overstory. Very wet in most places. Good thermal cover. Browsing evident. Seasonal county road runs through stand. |
| 13 | 6119 - Mixed Lowland Deciduous Forest | High Density Pole | 31.3 | 88 | 51-80 | A lesser-stocked peninsula of poorly drained land extending south into Wycamp Lake, consisting of mostly red maple, paper birch, overmature quaking aspen, and scattered red oak. Dense balsam fir understory. |
| 14 | 4137 - Aspen, Birch | High Density Pole | 26.0 | 68 | 51-80 | Stand now consists of a mix of big-toothed aspen, paper birch, and red maple, with lesser amounts of white pine and balsam fir. Most of the paper birch has had its bark stripped for crafts by local residents, which has resulted in a significant amount of mortality over the last ten years. The last year of entry showed 100ft of paper birch. This year there is twenty. |
| 15 | 6120 - Lowland Cedar | High Density Pole | 56.7 | 100 | 111-140 | Stand is dominated by cedar poletimber, with a few sawlogs. Lesser amounts of black spruce, balsam fir, and dying big-toothed aspen. |



| | Level 4 Cover Type | Size Density | Acres | Stand Age | BA Range | General Comments: |
|----|--|-------------------------|-------|--------------|-------------|---|
| 16 | 4123 - Red Oak | High Density Pole | 20.9 | 90 | 51-80 | A mix of mostly red oak pole timber sawlogs, with small volumes of big-toothed aspen, red maple, paper birch, and white pine. Adjacent to seasonal county road. |
| 17 | 4130 - Aspen | High Density Log | 1.8 | 58 | 81-110 | Stand consists of quaking aspen sawtimber/poletimber, paper birch sawlogs and poletimber, and scattered red maple and black ash poletimber growing on a very wet site containing numerous groundwater seeps. The area was not included in the adjacent harvest six years ago because of the wet, fragile ground. The aspen is starting to windthrow. Heavy deer browsing in understory. |
| 19 | 6128 - Lowland Coniferous, Mixed Deciduous | High Density Pole | 7.8 | 100 | 141-170 | Stand consists of two low-lying gully areas where numerous groundwater seeps flow through them. Multiple lowland species exist in this stand. |
| 20 | 4130 - Aspen | High Density Sapling | 77.2 | 16 | | Aspen/mixed hardwood regen from 1995 final harvest. |
| 21 | 4133 - Aspen, Mixed Pine | High Density Sapling | 63.6 | 17 | | Stand received a final harvest in 1994, with everything being cut except red oak and white pine, which exists today in the overstory over the BTA regen. Some red oak in the regen. |
| 23 | 4130 - Aspen | High Density Sapling | 26.4 | 6 | | Aspen/hardwood regen from 2005 final harvest. |
| 24 | 4112 - Maple, Beech, Cherry Association | High Density Pole | 39.2 | 85 | 81-110 | Northern hardwood poletimber, 2/3 of which is stocked mostly with red maple and beech. The NW 1/3 of stand has much more sugar maple, some nice sawlog crop trees, but has a lower BA at present. |
| 25 | 6128 - Lowland Coniferous, Mixed Deciduous | High Density Pole | 84.3 | 98 | 141-170 | Mixed swamp conifers and cedar with scattered quaking aspen, paper birch, black ash, and red maple. Mostly poletimber but some sawlogs also present. Drainages present in stand, flowing into Wycamp Lake. |
| 27 | 4130 - Aspen | High Density Sapling | 25.4 | 20 | | Aspen hardwood regen from 1991 final harvest. |
| 28 | 4319 - Mixed Upland Forest | High Density Pole | 3.6 | 90 | 141-170 | Unique stand on upland site where a seep and a perched water table is present, resulting wet, fragile ground. Majority of stand is made up of cedar and paper birch. |
| 31 | 42110 - Planted Red Pine | High Density Pole | 49.8 | 29 | 111-140 | Young, 2-3 stick red pine poletimber. Trees have not yet started self-pruning yet. |
| 32 | 6120 - Lowland Cedar | High Density Pole | 142.7 | 80 | 200+ | N. white cedar, mostly poletimber, with a lesser amount of black spruce, tamarack, and paper birch. A nice creek runs through stand to the northwest and empties into Wycamp Lake. |
| 33 | 4130 - Aspen | High Density Sapling | 95.9 | 28 | | B.T.A. regen from 1983 final harvest. Some red oak and paper birch regen present also. Scattered large red oak and white pine in overstory. |



| | Level 4 Cover Type | Size Density | Acres | Stand Age | BA Range | General Comments: |
|----|--|-------------------------|-------|--------------|-------------|---|
| 35 | 6120 - Lowland Cedar | High Density Pole | 82.0 | 111 | 171-200 | High quality cedar stand, with scattered paper birch, big-toothed aspen, red maple, balsam fir, black spruce, and hemlock present in lesser amounts. Several drainages exist in stand. |
| 36 | 4130 - Aspen | High Density Sapling | 30.8 | 17 | | B.T.A. regen from 1994 final harvest. Some red oak and paper birch regen present also. A little scattered red oak and white pine poletimber in overstory. |
| 38 | 4130 - Aspen | High Density Sapling | 38.2 | 17 | | Aspen/hardwood regen from 1994 final harvest. Deer browsing along edge of swamp. |
| 39 | 4139 - Aspen, Mixed Deciduous | High Density Pole | 6.4 | 64 | 81-110 | Small stand of mixed big-toothed aspen/red maple poletimber, with a few scattered sawlog trees. A little paper birch and balsam fir is also found in the stand. Adjacent to cedar swamp. Significant browsing in understory. A small stream is located to the north of this stand, just into the cedar stand. |
| 40 | 4112 - Maple, Beech, Cherry Association | High Density Log | 3.6 | 87 | 81-110 | Small stand of poorer quality, larger diameter red maple adjacent to private property on the east. Red maple, balsam fir, and a little hemlock in the understory. |
| 41 | 6132 - Mixed Lowland Forest with Cedar | High Density Log | 37.0 | 103 | 111-140 | Mixed lowland conifers, with a steady component of larger diameter paper birch, red maple, and old dying big-toothed aspen. Lower BA and older age classes than adjacent cedar stand to the north. Fragile, poorly drained soil. Small drainage runs through stand into Wycamp Lake to the northwest. |
| 42 | 6117 - Lowland Deciduous, Mixed Coniferous | High Density Sapling | 16.9 | 26 | | Small aspen sapling stand with a consistent balsam fir component, on wet soil. A small 1 chain buffer strip lies between stand and Levering Rd. |



| Stand | Cover Type | Acres | Managed Site | Management Priority (Objective) | General Comments: |
|-------|-----------------------------------|-------|--------------|---------------------------------|---|
| 1 | 6220 - Alder/willow | 1.3 | No | Unspecified | Small lowland shrub stand. |
| 3 | 122 - Road/Parking Lot | 3.5 | No | Unspecified | County road, N. Lake Shore Dr. |
| 11 | 6220 - Alder/willow | 22.0 | N/A | Unspecified | |
| 18 | 3303 - Mixed Low Density Trees | 21.2 | No | Unspecified | Many apple trees scattered throughout stand. Heavily browsed sumac also. |
| 22 | 6220 - Alder/willow | 45.1 | No | Unspecified | Lowland shrub with scattered lowland hardwood species. Drainage flows into Wycamp Lake through this stand. |
| 26 | 6220 - Alder/willow | 5.6 | No | Unspecified | |
| 29 | 3303 - Mixed Low Density Trees | 2.5 | No | Unspecified | |
| 30 | 3301 - Low Density Deciduous Tree | 3.1 | No | Unspecified | Encroaching hardwood/aspen saps. |
| 34 | 3303 - Mixed Low Density Trees | 17.9 | No | Unspecified | Scattered, low density BTA, paper birch, pin cherry, quaking aspen, white pine, red pine, spruce. Stand has a two-track running the entire length. |
| 37 | 3303 - Mixed Low Density Trees | 9.1 | No | Unspecified | Scattered jack pine, quaking aspen, paper birch saplings encroaching into grassy opening. A strip of larger jack pine poletimber runs along the south edge of the stand near Levering Rd. and acts as a buffer. |



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 |
|-------|-------------------|---------------|-------|---|
| 2 | SCA Removal | 52108002 | 41.5 | SCA removal of "Stand Condition 8 - Potential Old Growth", because this stand is already coded as "Critical Dune Area". |
| 4 | SCA Removal | 52108004_SCAR | 164.5 | SCA removal of "Stand Condition 8 - Potential Old Growth", because this stand is already coded as "Critical Dune Area". |
| 5 | SCA Removal | 52108005 | 169.1 | SCA removal of "Stand Condition 8 - Potential Old Growth", because this stand is already coded as "Critical Dune Area". |
| 6 | SCA Removal | 52108006 | 92.4 | SCA removal of "Stand Condition 8 - Potential Old Growth", because this stand is already coded as "Critical Dune Area". |
| 7 | SCA Removal | 52108007 | 54.6 | SCA removal of "Stand Condition 8 - Potential Old Growth", because this stand is already coded as "Critical Dune Area". |
| 8 | SCA Removal | 52108008SCAR | 27.2 | SCA removal of "Stand Condition 8 - Potential Old Growth", because this stand is already coded as "Critical Dune Area". |
| 9 | Unique Site - SCA | 52108009 | 6.7 | Large hemlock and cedar stand, which is not currently part of the adjacent critical dune habitat. |
| 10 | SCA Removal | 52108010 | 3.6 | Stand needs to have "Stand Condition 8 - Potential Old Growth" designation, from previous OI, removed for lack of habitat attributes. |
| 12 | SCA Removal | 52108012 | 57.0 | Stand needs to have "Stand Condition 8 - Potential Old Growth" designation, from previous OI, removed for lack of habitat attributes. |
| 13 | SCA Removal | 52108013_SCAR | 31.3 | Stand needs to have "Stand Condition 8 - Potential Old Growth" designation, from previous OI, removed for lack of habitat attributes. |
| 1 | SCA Removal | NF_52108001 | 1.3 | SCA removal of "Stand Condition 8 - Potential Old Growth", because this stand is already coded as "Critical Dune Area". |
| 11 | SCA Removal | NF_52108011 | 22.0 | Stand needs to have "Stand Condition 8 - Potential Old Growth" designation, from previous OI, removed for lack of habitat attributes. |



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.

| Conservation Area | Type | Description |
|-------------------|-----------------------------|---|
| HCVA | Critical Dunes | Critical dune areas are established via the public legislative process, and governed by Part 353, Sand Dune Protection and Management, of the Natural Resources and Environmental Protection Act, 1994 PA 451. The program is administered by the Michigan Department of Environmental Quality (DEQ). The current distribution of designated critical dunes is established by the DEQ 1989 Atlas of Critical Dune Areas. |
| 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. |

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