

Revision Date: August 18, 2011

Stand Examiner: Tom Seablom

**Legal Description:** T49N R28W Sec. 35 except N1/2NE and NENW; T 48N R28W NWNE, NWSW, S1/2S1/2 Sec 2, NE, NENW Sec 3, NWNW Sec 11, Sec 12 except NENE

RMU (if applicable): Peshekee Highlands Management Area

**Management Goals:** Management in this compartment will continue to focus on timber production and providing wildlife habitat as well as protecting water quality. Timber within this compartment is medium quality; therefore focus will be on both fiber production and quality sawlog development. The hardwood cover type will be managed as both even age and uneven age where appropriate. Softwood will be managed solely as even age. Managing these cover types as such, will continue to provide diverse wildlife habitat. Applying proper Best Management Practices (BMP's) during timber sale activities will ensure water quality protection. Several harvests are being prescribed during this entry period including selection, seed tree, and clearcut (both final harvest and patch clearcuts).

**Soil and Topography:** Soils within the compartment are of the Keewaydin-Michigamme-Rock Outcrop (KMR) and Kalkaska-Carbondale-Deford (KCD) Association's. The KMR's tend to be deep well drained loams to silty loams over gravelly and sandy tills and igneous or metamorphic bedrock. KCD associated soils are very deep and range from being somewhat excessively drained (Kalkaska) to very poorly drained (Carbondale). Topography is nearly level to gently rolling hills. This compartment resides on the edge of a larger outwash plain to the east and very rugged rock outcrops and hills to the north and west.

**Ownership Patterns, Development, and Land Use in and Around the Compartment:** Primary ownership within this portion of the landscape is industrial forest land. Scattered private parcels are intermixed. There is very little state or public land in this area. Land use is timber production and recreation, predominantly camps. The Silver Lake and Dead River Basin's are in this area and provide ample water based recreational opportunities as well as a water source for hydro-electric power. The Goldmine Lake Location is located to the south approximately 2 to 3 miles.

**Unique, Natural Features:** Potential for osprey, eagle, and great blue heron rookery. Potential for redshouldered hawk and goshawk. Potential for moose and wolf. Potential for wood turtle in Barnhardt Creek. Potential for tway-blade, western dock, veiny meadow-rue, and linear-leaved gentian along riparian areas. Potential for Farwell's water-milfoil and alternate-leaved water-milfoil in shallow lakes. Potential for purple clematis in dry mesic-conifer stands. Potential for Assiniboia sedge, male fern, and goblin moon wart in mauture northern hardwoods. Potential for dwarf bilberry, wild oat grass and Canada rice-grass in grassy openings and in clearings in jack pine. Potential for big-leaved sandwort, rock whitlow-grass, northern gooseberry Douglas's hawthorn, northern oak fern, northern woodsia, and slender cliff-brake if exposed rock outcrops are present.

Archeological, Historical, and Cultural Features: None

**Special Management Designations or Considerations:** Small stands listed as Special Conservation Area's (SCA's), primarily along the Barnhardt and Bear Creek.

**Watershed and Fisheries Considerations:** Barnhardt Creek is a cold water trout stream that is being impacted by beaver dams. This stream would provide a much better brook trout resource if beaver impacts were reduced. When setting up harvests maintain proper BMP buffers to protect water quality.

**Wildlife Habitat Considerations:** Identify and implement methods that increase mesic conifer in hardwood stands. Maintain or increase potential of hard mast production by utilizing strategies that encourage oak. Historic fire disturbance maintained pine and hard and soft mast producing trees and plants found here. Significant soft mast in the form of choke cherry, blueberry, and serviceberry offer the public berry picking opportunities and attract many wildlife species in summer and fall especially black bear. Hunting is popular in this area for deer and bear. This compartment also contains some Special Conservation Areas in the form of old growth stands. These provide a wide range in diversity, age classes and forest structure for wildlife including large den trees and snags. Within Special Conservation Areas along creeks and tributaries, maintain large closed canopy conifer to provide snow intercept and cover, mature forest structure and protection for wildlife corridors and riparian areas.

**Mineral Resource and Development Concerns and/or Restrictions:** Surface sediments consist of coarsetextured glacial till. The glacial drift thickness varies between 10 and 50 feet and insufficient data to determine the thickness. The Precambrian Oakbluff Formation and Archean Granite/Gneiss subcrop below the glacial drift. There is not a current economic use for these rocks. Gravel pits are not located in the area, but potential appears to be good. Gold Mine Lake and the old Michigan Gold Mine are located to the south. Sections 2 and 12 were previously leased for metallic exploration. There is no economic oil and gas production in the UP.

**Vehicle Access:** Access is good throughout the compartment. County roads CL, CCO, CCH and AAH provide the main access with secondary roads providing subsequent access. Several of the county roads have not been maintained in some time and have turned into semi-overgrown woods roads.

Survey Needs: None

**Recreational Facilities and Opportunities:** There currently are no recreational facilities or opportunities within this compartment.

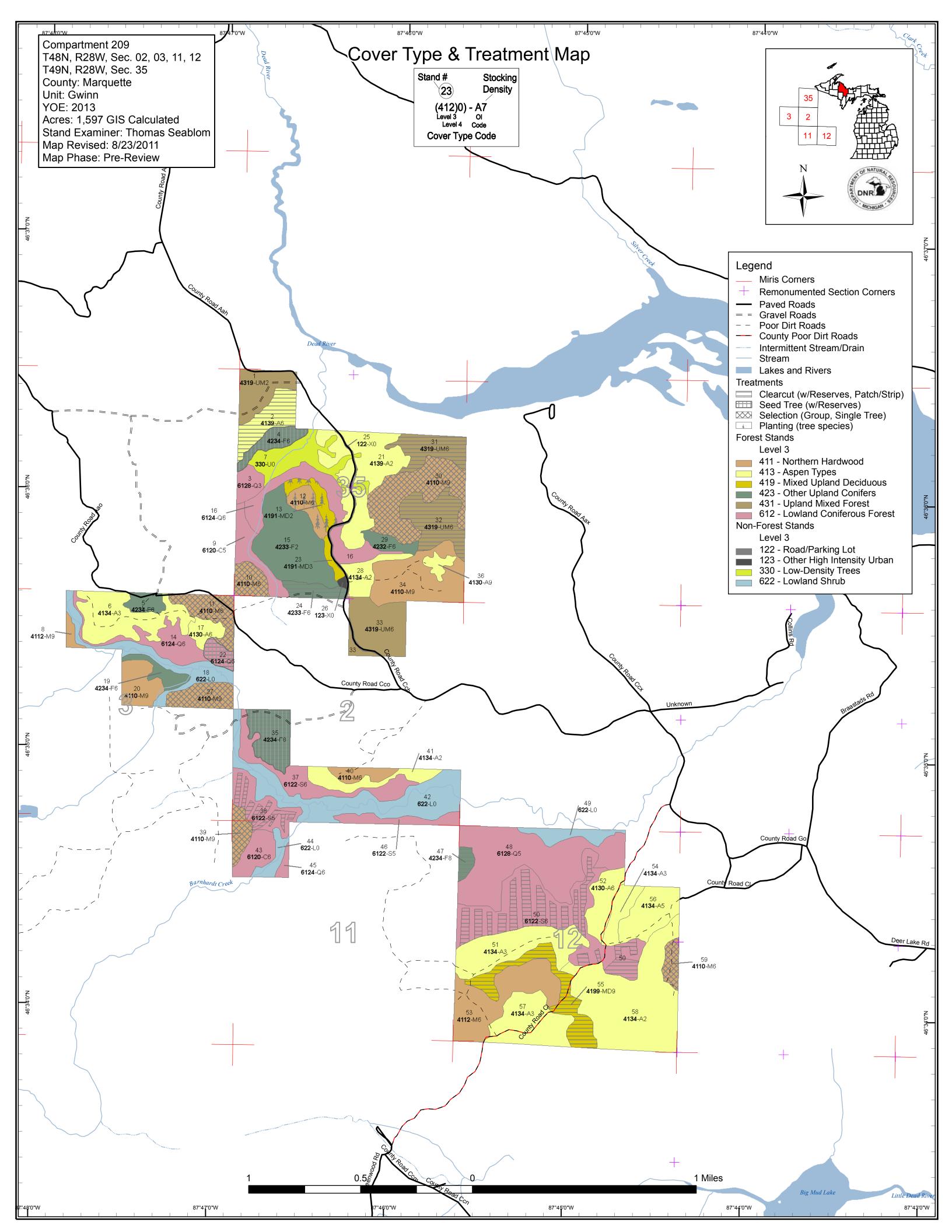
**Fire Protection:** Access to the area for fire protection is good. Timber types prone to fires are the lowland spruce and upland spruce fir stands. There are adequate water sources within the compartment.

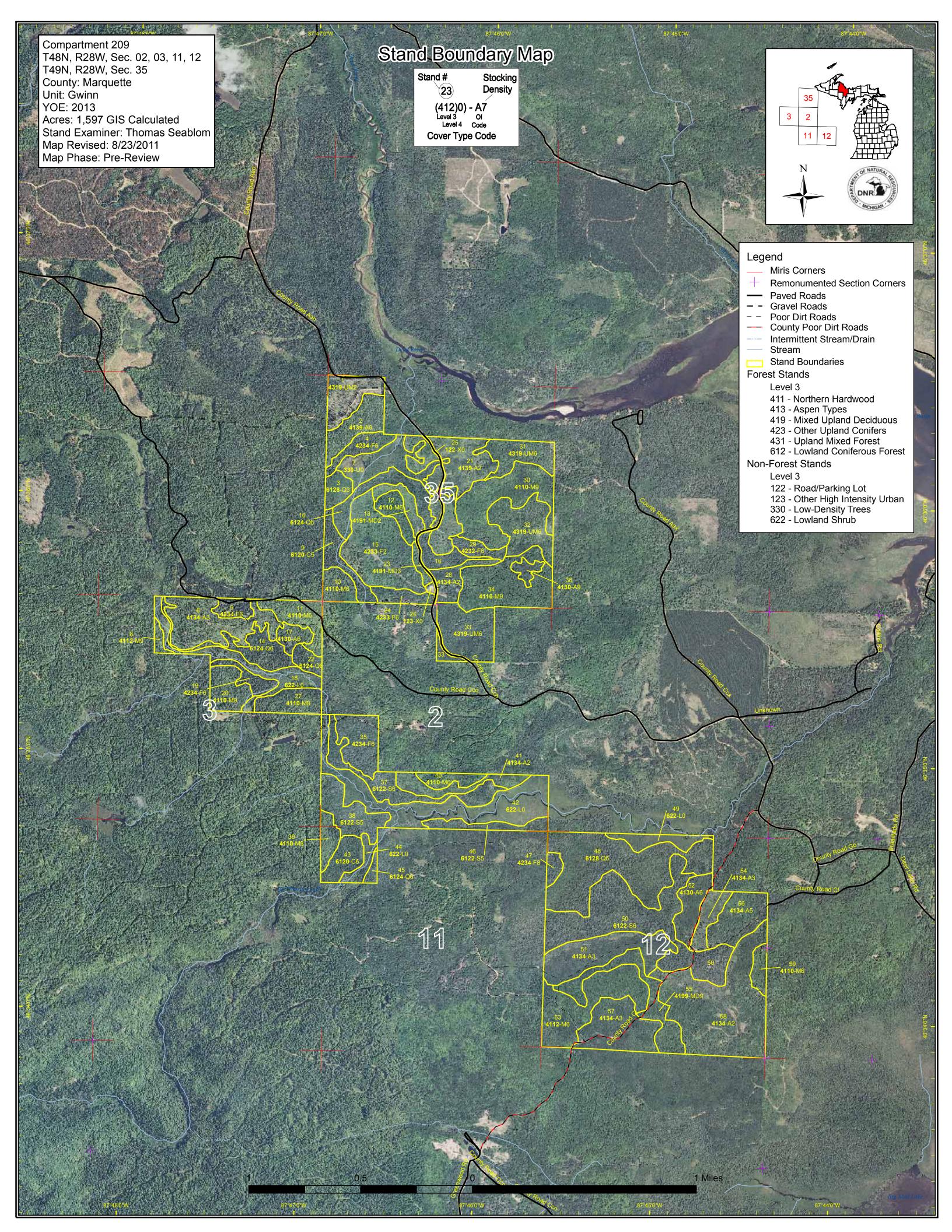
## Additional Compartment Information: None.

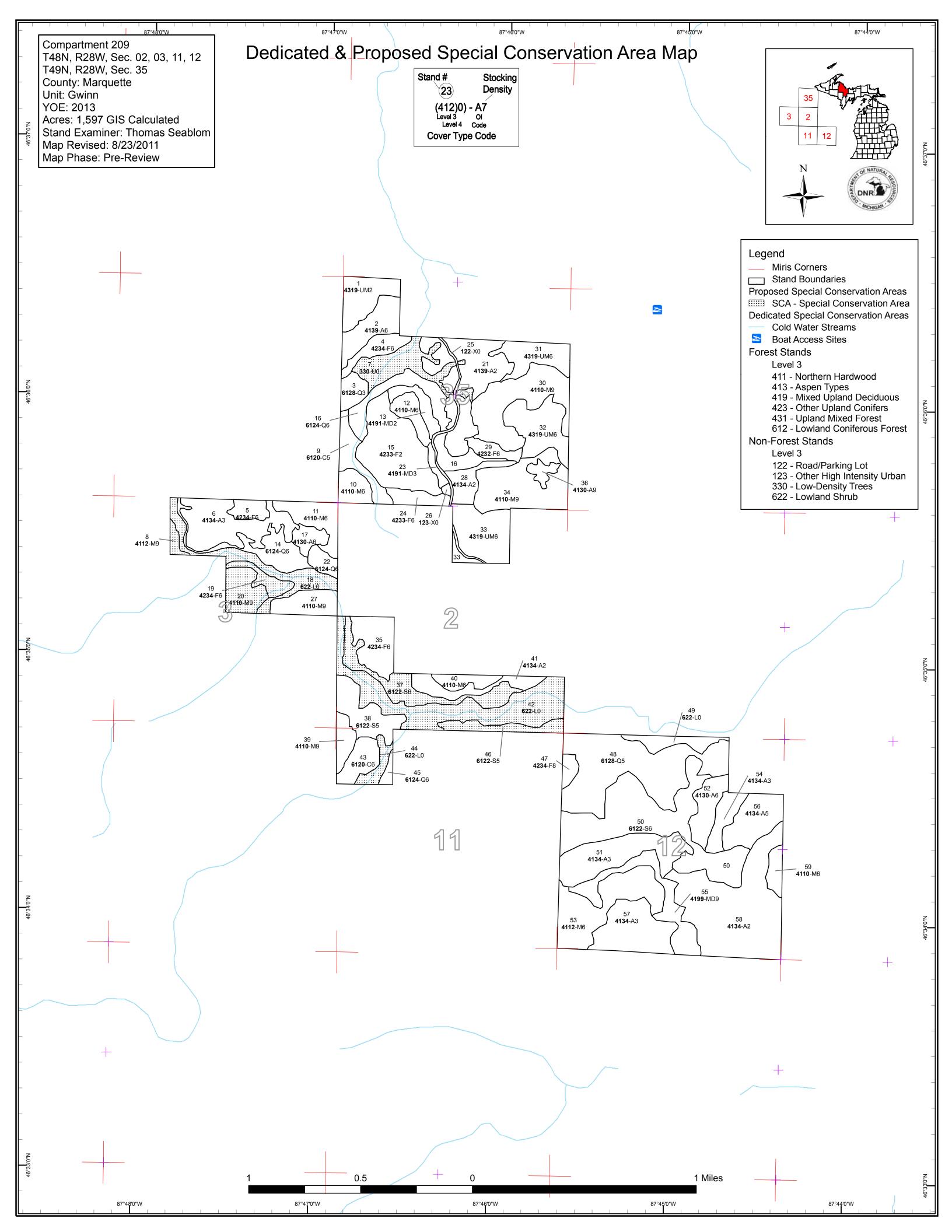
- > The following reports from the Inventory are attached:
  - Total Acres by Cover Type and Age Class
  - Proposed Treatment Summary
  - Proposed Treatments No Limiting Factors
  - Proposed Treatments With Limiting Factors
  - Stand Details (Forested and Nonforested)
  - Dedicated and Proposed Special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

 $\triangleright$ 

• Details on the road access system



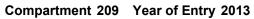




# Table 1 – Total Acres by Cover Type and Age Class

Gwinn Mgt. Unit

### Thomas Seablom : Examiner





|                        |     |     |     |                   |                  |                   | Age               | Class |       |      |          |       |                    |         |           |        |     |
|------------------------|-----|-----|-----|-------------------|------------------|-------------------|-------------------|-------|-------|------|----------|-------|--------------------|---------|-----------|--------|-----|
|                        | Hor |     | 6'z | <sup>70,7</sup> 9 | 6 <sup>2</sup> 1 | 96 <sup>7</sup> 9 | 10 <sup>-02</sup> | 95.75 | 60.00 | R. D | 99-10-00 | 66.20 | 00 <sup>1</sup> 00 | 821.911 | 120× 1500 | Br Ley | io. |
| Aspen                  | 0   | 123 | 141 | 90                | 58               | 0                 | 0                 | 0     | 30    | 0    | 0        | 0     | 0                  | 0       | 0         | 442    |     |
| Cedar                  | 0   | 0   | 0   | 0                 | 0                | 0                 | 0                 | 0     | 16    | 0    | 0        | 18    | 0                  | 0       | 0         | 34     |     |
| Low-Density Trees      | 32  | 0   | 0   | 0                 | 0                | 0                 | 0                 | 0     | 0     | 0    | 0        | 0     | 0                  | 0       | 0         | 32     |     |
| Lowland Conifers       | 0   | 0   | 0   | 0                 | 10               | 0                 | 0                 | 0     | 125   | 48   | 0        | 0     | 0                  | 0       | 0         | 182    |     |
| Lowland Shrub          | 126 | 0   | 0   | 0                 | 0                | 0                 | 0                 | 0     | 0     | 0    | 0        | 0     | 0                  | 0       | 0         | 126    |     |
| Lowland Spruce/Fir     | 0   | 0   | 0   | 0                 | 0                | 0                 | 0                 | 0     | 0     | 143  | 33       | 0     | 0                  | 0       | 0         | 176    |     |
| Mixed Upland Deciduous | 0   | 14  | 0   | 0                 | 0                | 0                 | 0                 | 0     | 0     | 35   | 0        | 0     | 0                  | 0       | 0         | 49     |     |
| Northern Hardwood      | 0   | 0   | 0   | 0                 | 0                | 0                 | 0                 | 0     | 0     | 32   | 179      | 25    | 0                  | 43      | 0         | 279    |     |
| Upland Mixed Forest    | 0   | 24  | 0   | 39                | 0                | 0                 | 0                 | 0     | 0     | 58   | 0        | 0     | 0                  | 0       | 0         | 122    |     |
| Upland Spruce/Fir      | 0   | 0   | 63  | 0                 | 0                | 0                 | 9                 | 13    | 11    | 14   | 0        | 10    | 0                  | 0       | 27        | 146    |     |
| Urban                  | 8   | 0   | 0   | 0                 | 0                | 0                 | 0                 | 0     | 0     | 0    | 0        | 0     | 0                  | 0       | 0         | 8      |     |
| Total                  | 166 | 162 | 204 | 129               | 68               | 0                 | 9                 | 13    | 181   | 330  | 213      | 52    | 0                  | 43      | 27        | 1597   | ]   |



# Table 2 – Proposed Treatment Summaries

| MICHIOAN | Gwinn Mgt. Unit<br>Year of Entry 2013 |               |                |        |       |        |         |        |        |  |                 | Compartment<br>Total Compartment Acres: |  |
|----------|---------------------------------------|---------------|----------------|--------|-------|--------|---------|--------|--------|--|-----------------|---|--|
|          |                                       |               |                |        | Acres | s by T | reatm   | ent Ty | ре     |  |                 |   |  |
|          | Commercial Harvest - 36               | 56 Site F     | Prep - 0       |        | Т     | ree Pl | anting  | - 23   |        | Preso  | cribed Burn - 0 | Other - 0                               |  |
|          | Habitat Cut - 0                       | Oper          | ning Maintenan | ce - 0 | T     | ree Se | eeding  | - 0    |        | Pesti  | cide - 0        |   |  |
|          |                                       |               |                |        | Cov   | er Typ | oe by H | larves | t Meth | od   |                 |   |  |
|          | Aspen 24 0 0 0 0 0 24                 |               |                |        |       |        |         |        |        | P. C. S. |                 |   |  |
|          | Lowl                                  | land Conifers | s              | 0      | 0     | 8      | 0       | 0      | 0      | 8  |                 |   |  |
|          | Lowl                                  | land Spruce/  | Fir            | 58     | 0     | 0      | 0       | 0      | 0      | 58   |                 |   |  |
|          | Mixe                                  | d Upland De   | ciduous        | 35     | 0     | 0      | 0       | 0      | 0      | 35   |                 |   |  |
|          | North                                 | hern Hardwo   | od             | 0      | 127   | 0      | 0       | 0      | 0      | 127  |                 |   |  |
|          | Upla                                  | nd Mixed Fo   | rest           | 58     | 0     | 0      | 0       | 0      | 0      | 58   |                 |   |  |
|          | Upla                                  | nd Spruce/F   | ir             | 16     | 0     | 40     | 0       | 0      | 0      | 56   |                 |   |  |
|          |                                       |               | Total          | 191    | 127   | 48     | 0       | 0      | 0      | 366  |                 |   |  |

| S<br>t                            |                            | C           | Gwinn Mgt. Unit                                  |                       |              | atments Pre<br>imiting Fac |   | Compartment: 209<br>Year of Entry 2013 | DI NATURA CHINATURA      |
|-----------------------------------|----------------------------|-------------|--|-----------------------|--------------|----------------------------|---|--|--------------------------|
| a<br>n<br>d                       | Treatment<br>Name          | Acres       | Stage1<br>CoverType                              | Size<br>Density       | Stand<br>Age | Treatment<br>Type          | Treatment<br>Method                                   | Cover Type<br>Objective                | Approval<br>Status       |
| 23                                | 2209002-Cut                | 23.9        | 4139 - Aspen,<br>Mixed Deciduous                 | High Density Pole     | 72           | Harvest                    | Clearcut with<br>Reserves                             | 4130 - Aspen                           | Cmpt. Review<br>Proposal |
| <u>Prescrip</u><br><u>Specs:</u>  |                            |             |  |                       |              |                            | In addition retain a portic formentioned trees to sat |  | rimarily the             |
| <u>Other</u><br><u>Comme</u>      |                            |             | this stand looses the<br>ant to split this end c |                       |              |                            | aple and yellow birch. It is re.                      | s also more wet on this                | end of the               |
| <u>Next</u><br><u>Steps:</u>      | Acceptal                   | ole speci   | es for regeneration ir                           | nclude aspen, maple   | , fir, spru  | ice, yellow bircl          | n and cherry.   |  |                          |
| 43                                | 2209004-Cut                | 12.9        | 42340 - Upland<br>Spruce/Fir                     | High Density Pole     | 60           | Harvest                    | Seed Tree with<br>Reserves                            | 42340 - Upland<br>Spruce/Fir           | Cmpt. Review<br>Proposal |
| <u>Prescrip</u><br><u>Specs:</u>  | otion_ A seed t<br>be cut. | ree harve   | est is being prescribe                           | d for this stand. Lea | ave appro    | oximately 10-15            | trees/acre between bals                               | am and spruce. All othe                | er trees are to          |
| <u>Other</u><br><u>Comme</u>      |                            |             | uality seed trees. To cessor operations.         | increase scarificatio | n, slash s   | should be remo             | ved from the site or even                             | ly disbursed and not le                | ft in a mat as is        |
| <u>Next</u><br>Steps:             |                            |             | m logging equipment<br>, maple, aspen, and       |                       | oressure     | disking may be             | e needed. Acceptable reg                              | generation species inclu               | ude balsam fir,          |
| 10 3                              | 2209010-Cut                | 12.8        | 4110 - Sugar Maple<br>Association                | High Density Pole     | 101          | Harvest                    | Single Tree Selection                                 | 4110 - Sugar Maple<br>Association      | Cmpt. Review<br>Proposal |
| <u>Prescri</u> p<br><u>Specs:</u> |                            |             | st this stand to appro<br>avier to help and mai  |                       |              |                            | aps where appropriate. U                              | Jse group selection who                | ere aspen                |
| <u>Other</u><br><u>Comme</u>      | ents:                      |             |  |                       |              |                            |   |  |                          |
| <u>Next</u><br><u>Steps:</u>      | Acceptal                   | ole reger   | neration includes all s                          | pecies currently in t | his stand    |                            |   |  |                          |
| 11 3                              | 2209011-Cut                | 21.6        | 4110 - Sugar Maple<br>Association                | High Density Pole     | 80           | Harvest                    | Single Tree Selection                                 | 4110 - Sugar Maple<br>Association      | Cmpt. Review<br>Proposal |
| <u>Prescri</u> p<br><u>Specs:</u> | otion_Select ci            | ut this sta | and to a residual base                           | al area of approx. 70 | )-80 sq. f   | t/ac.                      |   |  |                          |
| <u>Other</u><br><u>Comme</u>      |                            | currently   | / on proposal, 32-302                            | -10-01, and is schee  | duled for    | a hemlock und              | erplanting as approved a                              | t 2003 compartment re                  | view.                    |
| <u>Next</u><br><u>Steps:</u>      | Wildlife I and fir.        | Division v  | will underplant hemlo                            | ck upon completion    | of harves    | st. Acceptable             | regeneration species incl                             | lude maple, birch, heml                | ock, spruce,             |
| 22 3                              | 2209022-Cut                | 7.9         | 6124 - Lowland<br>Spruce-Fir                     | High Density Pole     | 87           | Harvest                    | Seed Tree with<br>Reserves                            | 6124 - Lowland<br>Spruce-Fir           | Cmpt. Review<br>Proposal |
| <u>Prescri</u> p<br><u>Specs:</u> | otion Seed tre             | e harves    | t this stand leaving a                           | pprox. 10 tpa of spru | ice and b    | oalsam.                    |   |  |                          |
| <u>Other</u><br><u>Comme</u>      |                            | currently   | / on proposal, 32-302                            | -10-01.               |              |                            |   |  |                          |
| <u>Next</u><br><u>Steps:</u>      | Acceptal                   | ole reger   | neration includes, bal                           | sam fir, tamarack, re | ed maple     | , black and whi            | te spruce.  |  |                          |

| S<br>t                 |  | G           | winn Mgt. Unit                                    |  | -                    | atments Pre<br>_imiting Fac        |  | Compartment: 209<br>Year of Entry 2013 | ATURE REAL               |
|------------------------|--|-------------|---|--|----------------------|------------------------------------|--|--|--------------------------|
| a<br>n<br>d            | Treatment<br>Name                      | Acres       | Stage1<br>CoverType                               | Size<br>Density                              | Stand<br>Age         | Treatment<br>Type                  | Treatment<br>Method                                      | Cover Type<br>Objective                | Approval<br>Status       |
| 24                     | 32209024-Cut                           | 10.5 4      | 42330 - Upland Fir                                | High Density Pole                            | 72                   | Harvest                            | Clearcut with<br>Reserves                                | 42330 - Upland Fir                     | Cmpt. Review<br>Proposal |
| Prescr<br>Specs        |  |             | l leaving a patch at tl<br>, and white birch tree |  |                      | 0 0                                | eet 3% retention and als                                 | o leave approximatley 3                | B trees per acre         |
| <u>Other</u><br>Comm   |  | d of this s | tand is heavy to whit                             | e birch and aspen.                           | This end             | is also a ridge                    | that drops off into the ad                               | jacent lowland stand.                  |                          |
| <u>Next</u><br>Steps:  |  | regenerati  | on success. A mixed                               | d stand of the spec                          | ies that a           | are present is ac                  | cceptable.   |  |                          |
| 27                     | 32209027-Cut                           | 18.8 4      | 110 - Sugar Maple<br>Association                  | High Density Log                             | 120                  | Harvest                            | Group Selection  | 4110 - Sugar Maple<br>Association      | Cmpt. Review<br>Proposal |
| Prescr<br>Specs        |  |             | ection method to har<br>1/4 acre. Thin heav       |  |                      |                                    | s do a residual basal are                                | a of 70 sq. ft/ac. Group               | s should range           |
| <u>Other</u><br>Comm   |  |             |   |  |                      |                                    | e-fir and white birch beg<br>ulls in this stand. The har |  | and the quality          |
| <u>Next</u><br>Steps:  |  | e underplar | nting of white pine po                            | ost-harvest. Accept                          | table reg            | eneration specie                   | es include maple, birch,                                 | cherry, hemlock, spruce                | e, and fir.              |
| 30                     | 32209030-Cut                           | 55.3 4      | 110 - Sugar Maple<br>Association                  | High Density Log                             | 90                   | Harvest                            | Single Tree Selection                                    | 4110 - Sugar Maple<br>Association      | Cmpt. Review<br>Proposal |
| Prescr<br>Specs        |  |             |   |  |                      |                                    | vier cutting along the ede<br>re aspen pockets exist.    |  | / decreases              |
| <u>Other</u><br>Comm   | Decent on<br><u>nents:</u> various     |             |   | am and spruce are                            | e constra            | ined primarily to                  | the edges of the stand.                                  | Some black cherry is p                 | present in               |
| <u>Next</u><br>Steps:  | <u>.</u>                               |             |   |  |                      |                                    |  |  |                          |
| 31                     | 32209031-Cut                           | 23.8        | 4319 - Mixed<br>Upland Forest                     | High Density Pole                            | 88                   | Harvest                            | Clearcut with<br>Reserves                                | 4319 - Mixed Upland<br>Forest          | Cmpt. Review<br>Proposal |
| <u>Prescr</u><br>Specs | ription_Clearcut<br><u>:</u> be cut re | this stand  | l leaving some spruc<br>of merchantability. Le    | e (with a dbh <12-in<br>eave patches of tree | nches fo<br>es along | r a seed source<br>the north and e | ) any white pine, yellow t<br>ast edges of the stand, i  | pirch, and cedar. All oth              | er trees are to          |
| <u>Other</u><br>Comm   | There an <u>need a b</u>               |             | ainages and lower a                               | reas that exist withi                        | n this sta           | and. An intermit                   | tent stream exists in the                                | northwest part of the sta              | and that will            |
| <u>Next</u><br>Steps:  | •                                      | ble regene  | eration species incluc                            | le aspen, maple, sp                          | oruce, fir           | , birch, hemlock                   | , pine, and cherry.                                      |  |                          |
| 32                     | 32209032-Cut                           | 34.7        | 4319 - Mixed<br>Upland Forest                     | High Density Pole                            | 88                   | Harvest                            | Clearcut with<br>Reserves                                | 4319 - Mixed Upland<br>Forest          | Cmpt. Review<br>Proposal |
| Prescr<br>Specs        |  |             | I retaining any black<br>trive to cut/knock do    |  |                      |                                    | Stand is a mix of both hi<br>derstory. Mark o            | gh and low ground, the                 | refore restrict to       |
| <u>Other</u><br>Comm   |  |             |   |  |                      |                                    |  |  |                          |
| <u>Next</u><br>Steps:  | •                                      | ble regene  | eration species incluc                            | le aspen, maple, sp                          | oruce, fir           | , birch, hemlock                   | , pine, and cherry.                                      |  |                          |

| S<br>t               | t<br>a<br>         |                     |           |   |                         |              | atments Pre<br>imiting Fac. |  | Compartment: 209<br>Year of Entry 2013 | AT INATURAL WINDOWN      |
|----------------------|--------------------|---------------------|-----------|---|-------------------------|--------------|-----------------------------|--|--|--------------------------|
| a<br>n<br>d          |                    | tment<br>Ime        | Acres     | Stage1<br>CoverType                             | Size<br>Density         | Stand<br>Age | Treatment<br>Type           | Treatment<br>Method                                    | Cover Type<br>Objective                | Approval<br>Status       |
| 35                   | 32209              | 035-Cut             | 27.1      | 42340 - Upland<br>Spruce/Fir                    | High Density Pole       | 72           | Harvest                     | Seed Tree with<br>Reserves                             | 42340 - Upland<br>Spruce/Fir           | Cmpt. Review<br>Proposal |
| Presc<br>Spece       |                    | Seed tree           | e harves  | at leaving approx. 10-                          | 15 trees per acre of s  | spruce a     | nd fir.                     |  |  |                          |
| <u>Other</u><br>Comr | <u>r</u><br>ments: | Stand cu            | rrently u | inder contract 32-302                           | -10-01.                 |              |                             |  |  |                          |
| <u>Next</u><br>Steps | <u>s:</u>          | Acceptat            | ole regei | neration includes bals                          | am fir, black and wh    | nite sprud   | e, cedar, red m             | aple.  |  |                          |
| 38                   | 32209              | 038-Cut             | 10.4      | 6122 - Black Spruce                             | Medium Density<br>Pole  | 84           | Harvest                     | Patch or Strip<br>Clearcut                             | 6122 - Black Spruce                    | Cmpt. Review<br>Proposal |
| Preso<br>Spece       |                    |                     |           |   |                         |              |                             | ning in an east to northea<br>e strip are to be cut. H | sterly direction (for eas              | e of access              |
| <u>Other</u><br>Comr | <u>nents:</u>      | Stand is            | difficult | to access. Several m                            | iles of plowing will b  | e neces      | sary to access t            | his stand during the winte                             | er.                                    |                          |
| <u>Next</u><br>Steps | <u>3:</u>          | Monitor r<br>maple. | regenera  | tion success here wit                           | th these strip widths.  | Accept       | able regeneration           | on species include spruce                              | e, fir, tamarack, aspen,               | birch, and               |
| 39                   | 32209              | 039-Cut             | 10.5      | 4110 - Sugar Maple<br>Association               | High Density Log        | 81           | Harvest                     | Single Tree Selection                                  | 4110 - Sugar Maple<br>Association      | Cmpt. Review<br>Proposal |
| Preso<br>Spece       |                    | Single tre          | ee selec  | t cut this stand to a re                        | esdiual basal area of   | approx.      | 50 sq. ft./ac. Le           | eave 1-3 overmature suga                               | ar maple and yellow bir                | ch per acre.             |
| <u>Other</u><br>Comr | <u>nents:</u>      | A heavy<br>1939.    | harvest   | is being recommened                             | d for this stand due to | o it's sma   | all stand size ar           | nd somewhat difficult acc                              | ess. Stand was last cu                 | t (clearcut) pre-        |
| <u>Next</u><br>Steps | <u>8:</u>          | Acceptat            | ole regei | neration species inclu                          | de maple, birch, che    | erry, hem    | lock, spruce, a             | nd fir.  |  |                          |
| 47                   | 32209              | 047-Cut             | 5.5       | 42340 - Upland<br>Spruce/Fir                    | Medium Density<br>Log   | 81           | Harvest                     | Clearcut with<br>Reserves                              | 4134 - Aspen,<br>Spruce/Fir            | Cmpt. Review<br>Proposal |
| Presc<br>Spec:       |                    | Clearcut            | this sta  | nd retaining 3-4 trees                          | (each) of large, deca   | adent wh     | ite spruce and              | aspen. All other trees ar                              | e to be cut.                           |                          |
| <u>Other</u><br>Comr |                    | Stand is purposes   |           | nat difficult to get to, le                     | ogistically, for harves | sting as i   | t's only 5.5 acre           | es. Stand should be inclu                              | ided with stands to sou                | theast for sale          |
| <u>Next</u><br>Steps | <u>8:</u>          |                     |           |   |                         |              |                             |  |  |                          |
| 50                   | 32209              | 050-Cut             | 47.3      | 6122 - Black Spruce                             | High Density Pole       | 85           | Harvest                     | Patch or Strip<br>Clearcut                             | 6122 - Black Spruce                    | Cmpt. Review<br>Proposal |
| Presc<br>Spec:       |                    |                     |           |   |                         |              |                             | uth, be approx. 75-100 ft.<br>the strips or evenly dis | wide with 150 ft betwe                 | en strips. All           |
| <u>Other</u><br>Comr | <u>nents:</u>      | The sout            | heast ei  | nd of this stand has s                          | ome higher ground s     | supportin    | g jack pine and             | may be worth clearcuttin                               | g rather than strip cutti              | ng.                      |
| <u>Next</u><br>Steps |                    |                     |           | rips should be harvet<br>spruce, fir, tamarack, |                         |              |                             | nding adequate regenera                                | tion. Acceptable regen                 | neration                 |

Gwinn Mgt. Unit

# Table 3 -- Treatments Prescribed

Compartment: 209



| S<br>t                      |                                 |          |   | wi                       | th No I      | Limiting Fac       | tor  | Year of Entry 2013                               | DNR                      |
|-----------------------------|---------------------------------|----------|---|--------------------------|--------------|--------------------|--|--|--------------------------|
| a<br>n<br>d                 | Treatment<br>Name               | Acres    | s Stage1<br>CoverType                                 | Size<br>Density          | Stand<br>Age | Treatment<br>Type  | Treatment<br>Method                                | Cover Type<br>Objective                          | Approval<br>Status       |
| 55                          | 32209055-Cut                    | 34.6     | 4199 - Other Mixed<br>Upland Deciduous                | High Density Log         | 80           | Harvest            | Clearcut with<br>Reserves                          | 4199 - Other Mixed<br>Upland Deciduous           | Cmpt. Review<br>Proposal |
| Presc<br>Specs              |                                 |          | and retaining enough w<br>e to generate a maximu      |                          |              |                    | ent is more prevalent), s<br>e cut.                | cattered over mature as                          | spen, and any            |
| <u>Other</u><br>Comn        | _ This star<br>nents: southerr  |          | edominantly on a hill si                              | de (sloping north). A    | Aspen ar     | nd birch dominat   | e the northern tier of the                         | stand whereas red ma                             | ple secures the          |
| <u>Next</u><br>Steps        |                                 |          | ation. May be possible ruce, fir, and pine.           | e to underplant white    | e pine in    | areas heavy to     | white birch. Acceptable                            | regeneration species ir                          | clude maple,             |
| 59                          | 32209059-Cut                    | 8.3      | 4110 - Sugar Maple<br>Association                     | High Density Pole        | 95           | Harvest            | Single Tree Selection                              | 4110 - Sugar Maple<br>Association                | Cmpt. Review<br>Proposal |
| Presc<br>Specs              | V                               |          |   |                          |              |                    | ating some gaps where a jority of the white birch. | appropriate. Open up a                           | round oak                |
| <u>Other</u><br>Comn        | - 0                             | aple re  | gen is present in the st                              | and, but is only thig    | h high. (    | Dak and white bi   | rch are predominantly at                           | the south end of the st                          | and.                     |
| <u>Next</u><br>Steps        |                                 |          | p treatment of underpl                                | anting white pine ar     | nd/or her    | mlock. Acceptat    | ble regeneration species                           | include maple, birch, o                          | ak, spruce, fir          |
| 12                          | 32209012-<br>Plant              | 12.1     | 4110 - Sugar Maple<br>Association                     | High Density Pole        | 105          | Tree Planting      | Hand Plant   | 4110 - Sugar Maple<br>Association                | Cmpt. Review<br>Proposal |
| Presc<br>Specs              |                                 | ant appr | ox. 150 tpa. of bareroo                               | ot white pine. Conce     | entrate pl   | lanting where ga   | ps exist and where basa                            | l area is below 60 sq. fl                        |                          |
| <u>Other</u><br>Comn        |                                 | e of whi | te pine is present throu                              | ighout the landscap      | e. This p    | planting will help | to re-introduce it to this                         | area.  |                          |
| <u>Next</u><br><u>Steps</u> |                                 | success  | s of planting   |                          |              |                    |  |  |                          |
| 13                          | 32209013-<br>Plant              | 10.4     | 4191 - Mixed<br>Upland Deciduous<br>with Conifer      | Medium Density<br>Saplin | 5            | Tree Planting      | Hand Plant   | 4191 - Mixed Upland<br>Deciduous with<br>Conifer | Cmpt. Review<br>Proposal |
| Presc<br>Specs              |                                 | ant appr | rox. 300 tpa in either wl                             | hite pine or hemlock     | where        | regeneration is la | acking in this stand.                              |  |                          |
| <u>Other</u><br>Comn        |                                 |          | e variable in this stand.<br>portion of the landscape |                          | or hem       | lock would help t  | to bring this stand up to t                        | full stocking and will re-                       | introduce these          |
| <u>Next</u><br>Steps        |                                 | planting | success.  |                          |              |                    |  |  |                          |
| Ac                          | Total Treatmer<br>reage Propose |          | 388.5   |                          |              |                    |  |  |                          |

| S<br>t<br>a                 |                                  | Gw       | vinn Mgt. Unit      | Table 4         |              | ents Prescrib<br>ng Factor | ed with             | Compartment: 209<br>Year of Entry 2013 | DI NATURA          |
|-----------------------------|----------------------------------|----------|---------------------|-----------------|--------------|----------------------------|---------------------|--|--------------------|
| n<br>d                      | Treatment<br>Name                | Acres    | Stage1<br>CoverType | Size<br>Density | Stand<br>Age | Treatment<br>Type          | Treatment<br>Method | Cover Type<br>Objective                | Approval<br>Status |
|                             |                                  |          | #Error              |                 |              |                            |                     |  |                    |
| Presc<br>Spece              | ription<br><u>s:</u>             |          |                     |                 |              |                            |                     |  |                    |
| <u>Other</u><br>Comr        |                                  |          |                     |                 |              |                            |                     |  |                    |
| <u>Next</u><br><u>Steps</u> | <u>:</u>                         |          |                     |                 |              |                            |                     |  |                    |
|                             | ng Factor and No<br>ment Reason  | <u>)</u> |                     |                 |              |                            |                     |  |                    |
| Ac                          | Total Treatmer<br>creage Propose |          | 0                   |                 |              |                            |                     |  |                    |

| Year | of Entry: | 2013 |
|------|-----------|------|
|------|-----------|------|

NATUR

#### Out of YOE -- Treatments Prescribed with No Limiting Factor

| Treatment<br>Name         | Acres | Stage1<br>CoverType | Size<br>Density | Stand<br>Age | Treatment<br>Type | Treatment<br>Method | Cover Type<br>Objective | Approval<br>Status |  |
|---------------------------|-------|---------------------|-----------------|--------------|-------------------|---------------------|-------------------------|--------------------|--|
| Prescription<br>Specs:    |       |                     |                 |              |                   |                     |                         |                    |  |
| <u>Other</u><br>Comments: |       |                     |                 |              |                   |                     |                         |                    |  |
| Next                      |       |                     |                 |              |                   |                     |                         |                    |  |

Steps:

Total Treatment Acreage Proposed:

0

| S<br>t      | Gwinn Mgt. Unit                                  |                         |       | 5 – Fo       | prested Sta | nds Compartment: 209<br>Year of Entry: 2013   |
|-------------|--|-------------------------|-------|--------------|-------------|---|
| a<br>n<br>d | Level 4<br>Cover Type                            | Size<br>Density         | Acres | Stand<br>Age | BA<br>Range | General<br>Comments:  |
| 1           | 4319 - Mixed Upland<br>Forest                    | Medium<br>Density       | 24.5  | 3            |             | Harvested in 2006/2007, TS#103-03-01. Scattered large white pine scattered throughout the stand. Regeneration is patchy in places.  |
| 2           | 4139 - Aspen, Mixed<br>Deciduous                 | High Density<br>Pole    | 23.9  | 72           | 81-110      | Heavy aspen and sugar maple on east end. Extreme west<br>looses aspen and transitions into poor quality red maple &<br>yellow birch. Trace cedar, white spruce, balsam fir; these are all<br>on west end.   |
| 3           | 6128 - Lowland<br>Coniferous, Mixed<br>Deciduous | High Density<br>Sapling | 10.0  | 30           | 1-50        | Black ash and cedar sapling stand. Pole cedar, spruce, balsam present in "super canopy". No history for this stand as to how it ended up this way.  |
| 4           | 42340 - Upland<br>Spruce/Fir                     | High Density<br>Pole    | 12.9  | 60           | 111-140     | Stand characteristics appear to be two-aged. The trees on the west end appear larger and older than those on the eastern end of the stand.  |
| 5           | 42340 - Upland<br>Spruce/Fir                     | High Density<br>Pole    | 8.8   | 51           | 51-80       |   |
| 6           | 4134 - Aspen,<br>Spruce/Fir                      | High Density<br>Sapling | 47.4  | 5            |             | Stand harvested 2004-2005, TS#32-105-03-01 (seed tree cut,<br>spruce-fir). Scattered black cherry and yellow birch, patches of<br>spruce and fir. Some areas have patchy regen, mainly on west<br>end of stand. Residual spruce-fir are in clumps.  |
| 8           | 4112 - Maple, Beech,<br>Cherry Association       | High Density<br>Log     | 3.8   | 120          |             | Stand is currently listed as stand condition 8-potential old growth (POG). Stand is small and somewhat of a drive to get into compared to surrounding stands. It is treatable.  |
| 9           | 6120 - Lowland Cedar                             | Medium<br>Density Pole  | 17.7  | 105          | 51-80       | Spring creek runs through this stand. This area appears to have<br>not been harvested, or at least not cut as hard, as the adjacent<br>stand. Very little regeneration present in this stand and the<br>overstory trees are of much larger diameter.  |
| 10          | 4110 - Sugar Maple<br>Association                | High Density<br>Pole    | 12.8  | 101          | 81-110      | Pole stand with no evidence of past cutting.  |
| 11          | 4110 - Sugar Maple<br>Association                | High Density<br>Pole    | 21.6  | 80           |             | Stand currently is on proposal/under contract.  |
| 12          | 4110 - Sugar Maple<br>Association                | High Density<br>Pole    | 12.1  | 105          | 81-110      | Stand harvested in 2005, TS#32-104-03-01 (Spruce Up North Sale). Medium- poor quality stand as a whole, north part is o.k. Edge of stand is loaded with white spruce and balsam fir.  |
| 13          | 4191 - Mixed Upland<br>Deciduous with Conifer    | Medium<br>Density       | 10.4  | 5            |             | Stand harvested in 2005, TS#32-104-03-01 (seed tree cut with spruce-fir retained). Spruce-fir regen is patchy in this stand, where it exists it is at acceptable levels. Red maple is filling in where spruce-fir is lacking, though it is heavily browsed by moose. Aspen is also present in parts of the stand, predominantly in the south. Cherry is also mixing in within the stand. An underplanting would help to bring stocking up to a fully stocked stand. |

| S<br>t      | Gwinr   | n Mgt. Unit             |       | 5 – Fo       | prested Sta | nds Compartment: 209<br>Year of Entry: 2013   |
|-------------|---|-------------------------|-------|--------------|-------------|---|
| a<br>n<br>d | Level 4<br>Cover Type                         | Size<br>Density         | Acres | Stand<br>Age | BA<br>Range | General<br>Comments:  |
| 14          | 6124 - Lowland Spruce-<br>Fir                 | High Density<br>Pole    | 24.8  | 75           | 81-110      | Portion of stand is old stand condition 8, potential old growth<br>(POG). This portion of the stand can remain as an SCA-Riparian<br>corridor as it is along the headwaters to the Barnhardt Creek.<br>The remaining portion of the stand meets criteria for treatment.<br>Very mixed stand, hard to discern what species is dominant in<br>canopy coverage. By basal area: white birch 26 ft/ac, balsam 23<br>ft/ac, cedar 16 ft/ac, black spruce 13 ft/ac. The cedar are mainly<br>logs, therefore contributing to a larger percentage of the basal<br>area. The balsam and black spruce are mainly poles (6-8 in.<br>dbh), as are the white birch. |
| 15          | 42330 - Upland Fir                            | Medium<br>Density       | 62.6  | 15           |             | Stand was harvested in the summer of 1995 by Ken Lanaville,<br>permit #12-93 (Dead River Basin Sale). Red and white pine,<br>cedar, cherry and oak were left. Stand is patchy in nature.<br>Heavy to fir which appears as strips in the imagery, aspen and<br>red maple are mixed in between the fir strips.  |
| 16          | 6124 - Lowland Spruce-<br>Fir                 | High Density<br>Pole    | 36.7  | 85           | 51-80       | Stand is mixed and variable throughout. Cedar is somewhat<br>absent in the middle of the stand, but present on both ends of<br>the stand. Cedar regen is prevelant on the western side of the<br>stand but is replaced by black spruce on the east. Looking at the<br>old aerial photo's it appears this area was harvested pre-1954.<br>Clumps and individual trees were left at that time.  |
| 17          | 4130 - Aspen                                  | High Density<br>Pole    | 9.1   | 38           | 51-80       | It appears that this stand was treated in the 1970's when the adjacent upland hardwood stands were treated. No records exist for this stand.  |
| 19          | 42340 - Upland<br>Spruce/Fir                  | High Density<br>Pole    | 9.8   | 105          | 81-110      | Stand currently listed as SCA-potential old growth. This stand is<br>beginning to succeed to red maple. Where gaps are present<br>(primarily the west end) red maple saplings are recruiting into<br>those gaps. The spruce, fir, and tamarack are in fairly good<br>shape. Some balsam is beginning to die. With the proximity of<br>this stand being close to the creek, only a portion of it will be<br>treatable.   |
| 20          | 4110 - Sugar Maple<br>Association             | High Density<br>Log     | 19.9  | 120          | 111-140     | Stand is currently listed as an SCA-potential old growth (POG).<br>Stand is exhibiting some old growth characteristics and<br>processes. Large sugar maple and yellow birch trees are<br>beginning to die and become large downed woody debris and<br>snags. Timbe quality in the overstory logs is very poor. Poles in<br>the canopy and mid-canopy do exhibit some quality. Adjacent<br>stand on private land is good quality poles. Stand is treatable.  |
| 21          | 4139 - Aspen, Mixed<br>Deciduous              | Medium<br>Density       | 61.6  | 5            |             | Harvested in 2004-2005, TS#32-104-03-01, (seed tree cut with<br>spruce retained). The majority of this stand has regenerated to<br>aspen with a spruce-fir component. Trace species of cedar,<br>yellow birch, black cherry and white pine are in the super-<br>canopy. The extreme south end of the stand (about 2-3 acres)<br>has only cherry regenerating and some red maple.  |
| 22          | 6124 - Lowland Spruce-<br>Fir                 | High Density<br>Pole    | 7.9   | 87           |             | Stand is currently on proposal/under contract.  |
| 23          | 4191 - Mixed Upland<br>Deciduous with Conifer | High Density<br>Sapling | 3.9   | 5            |             | Stand was harvested 2004-2005, TS#32-104-03-01 (Spruce Up<br>North Sale). This stand is essentially on a hill side. It is a mix of<br>red maple, quaking aspen, and blasam fir.   |

| S<br>t      | Gwini                             | n Mgt. Unit          |       | 5 – For      | rested Sta  | nds Compartment: 209<br>Year of Entry: 2013   |
|-------------|-----------------------------------|----------------------|-------|--------------|-------------|---|
| a<br>n<br>d | Level 4<br>Cover Type             | Size<br>Density      | Acres | Stand<br>Age | BA<br>Range | General<br>Comments:  |
| 24          | 42330 - Upland Fir                | High Density<br>Pole | 10.5  | 72           | 81-110      | Stand is heavy to fir throughout. West end is more white birch and aspen.   |
| 27          | 4110 - Sugar Maple<br>Association | High Density<br>Log  | 18.8  | 120          | 81-110      | Old, decadent stand. Yellow birch are mostly all large cull's as<br>are the majority of the x-large sugar maple. Edge of stand has<br>spruce, fir and white birch mixed in and is very poor quality sugar<br>maple.   |
| 28          | 4134 - Aspen,<br>Spruce/Fir       | Medium<br>Density    | 14.2  | 17           |             | Stand was harvested in summer 1993 by Ken Lanaville, permit<br>#12-93 (Dead River Basin Sale). Stand has some sparse<br>stocking areas. Spruce and fir are mainly in patches.   |
| 29          | 42320 - Upland Spruce             | High Density<br>Pole | 9.0   | 80           | 81-110      | Stand is predominantly an upland, transitioning to lowland. Large white spruce present in this stand.   |
| 30          | 4110 - Sugar Maple<br>Association | High Density<br>Log  | 55.3  | 90           | 111-140     | Decent quality sugar maple stand. A few pockets of aspen<br>within the stand and one small area of white birch. Balsam and<br>spruce are constrained to the extreme edges/transitions to the<br>other stands. Some black cherry is also present within the stand.                     |
| 31          | 4319 - Mixed Upland<br>Forest     | High Density<br>Pole | 23.8  | 88           | 81-110      | Stand is a mix of large white spruce and pole size red maple with<br>a heavy fir understory. Trace species of white pine, cedar, and<br>black ash are present. A couple drainages exist within the<br>boundary of this stand.   |
| 32          | 4319 - Mixed Upland<br>Forest     | High Density<br>Pole | 34.7  | 88           | 111-140     | Mixed stand of red maple and conifers. Similar in nature to the stand further north. Some low ground present in stand.  |
| 33          | 4319 - Mixed Upland<br>Forest     | High Density<br>Pole | 38.9  | 27           | 51-80       | Stand harvested in 1983, permit #9-82-2. Mix of aspen and spruce fir. Scattered red maple and a couple oaks. Spruce-fir tend to be in clumps and along the east edge of the stand.  |
| 34          | 4110 - Sugar Maple<br>Association | High Density<br>Log  | 51.2  | 90           | 81-110      | Pretty nice sugar maple logs. Regen but no recruitment. Some<br>regen is 3 feet tall, but nothing taller. East half of stand has been<br>treated in the recent past, however west half was not. Regen<br>that is present in west half is in old gaps. Not much regen in<br>east half. |
| 35          | 42340 - Upland<br>Spruce/Fir      | High Density<br>Pole | 27.1  | Uneven Age   | 81-110      | Stand is currently on proposal to be harvested (Out North Sale 32-302-10-01). Coded as a seed tree harvest.   |
| 36          | 4130 - Aspen                      | High Density<br>Log  | 5.7   | 72           | 111-140     | Aspen island surrounded by northern hardwood stand.   |
| 37          | 6122 - Black Spruce               | High Density<br>Pole | 33.5  | 94           | 111-140     | SCA=>Riparian corridor. Heavy to black spruce on west and central part of the stand, more cedar as you head east. Tamarack is along the stand edge.   |

| S<br>t      | Gwinr  | Gwinn Mgt. Unit        |       |              | orested Sta | nds Compartment: 209<br>Year of Entry: 2013   |  |
|-------------|--|------------------------|-------|--------------|-------------|---|--|
| a<br>n<br>d | Level 4<br>Cover Type                            | Size<br>Density        | Acres | Stand<br>Age | BA<br>Range | General<br>Comments:  |  |
| 38          | 6122 - Black Spruce                              | Medium<br>Density Pole | 27.8  | 84           | 111-140     | Mixed stand of black spruce and white birch, with some blasam<br>and scattered cedar. Cedar is mainly along the north edge.<br>Cedar stumps are present within the stand and immediately to<br>the north in the lowland brush. This stand appears to have been<br>clearcut, along with the adjacent hardwood, somewhere right<br>before 1939 as photo interpretation shows. This was the last<br>time that this stand was harvested.  |  |
| 39          | 4110 - Sugar Maple<br>Association                | High Density<br>Log    | 10.5  | 81           | 111-140     | Poor quality upland hardwood. Black cherry present throughout<br>the stand, heaviest at south end. White birch is present within<br>the stand, heaviest at south end and along the edge as stand<br>transitions into spruce swamp; the edge is where the aspen and<br>balsam are present as well. A few x-large remnant trees are<br>present in the stand (sugar maple and yellow birch). Heavy<br>moose sign in this stand while I was there (2/11/2011). Very<br>difficult to access this stand. Age estimate is based on the<br>cutting in 1939 photo's. The increment borer would not penetrate<br>the trees on this day. |  |
| 40          | 4110 - Sugar Maple<br>Association                | High Density<br>Pole   | 10.1  | 90           | 81-110      | Stand was harvested during the fall of 1997, permit #15-93 by<br>Jim Carey Logging (Barnhardt Creek North Sale).  |  |
| 41          | 4134 - Aspen,<br>Spruce/Fir                      | Medium<br>Density      | 17.9  | 13           |             | Stand was harvested during the fall of 1997, permit #15-93 by<br>Jim Carey Logging (Barnhardt Creek North Sale). Cedar was<br>left. Some scattered red and white pine.  |  |
| 43          | 6120 - Lowland Cedar                             | High Density<br>Pole   | 15.9  | 71           | 111-140     | Just about a pure cedar stand. Very dense. Trees range from log<br>size to 4-6" pole's. Log size trees are all about 30-40 feet tall<br>where the pole timber is 15-20 feet. No cutting history for this<br>stand on record, but stumps are present in the stand and photo<br>interpretation shows that this stand was cut before 1939. Some<br>spruce and balsam present.  |  |
| 45          | 6124 - Lowland Spruce-<br>Fir                    | High Density<br>Pole   | 3.3   | 81           | 81-110      | This stand is the 'edge' of a larger stand to the east on private<br>property. It is a slice of upland spruce/fir with some cedar on the<br>edge of the stand. This stand is very difficult for us to access in<br>terms of harvesting. If the adjacent landowner to the east<br>harvests in the near future we should try to do a negotiated sale<br>with them.  |  |
| 46          | 6122 - Black Spruce                              | Medium<br>Density Pole | 13.7  | 81           | 51-80       | Stand currently listed as SCA=>Potential Old Growth. Stand is small and is just within State ownership. It is part of a riparian corridor along the Barnhardt Creek.  |  |
| 47          | 42340 - Upland<br>Spruce/Fir                     | Medium<br>Density Log  | 5.5   | 81           | 81-110      | Small stand of large spruce, fir and quaking aspen. Aspen is<br>beginning to fall apart, large white spruce are blowing over and<br>red maple is beginning to fill in the gaps. Some red maple are 2<br>inches in diameter. Access to this stand is very difficult. Several<br>miles of road to get to less than 10 acres.  |  |
| 48          | 6128 - Lowland<br>Coniferous, Mixed<br>Deciduous | Medium<br>Density Pole | 99.7  | 77           | 81-110      | Mixed stand of spruce, cedar and white birch. Some black ash<br>is present as well on the west end of the stand. Stumps are<br>present within the stand and photo interpretation shows a<br>harvest sometime shortly before 1939. Cedar regen is present<br>throughout the stand, heaviest in the west.   |  |

| S<br>t      | Gwinn Mgt. Unit                            |                         |       | 5 – Fo       | prested Sta | rinds Compartment: 209<br>Year of Entry: 2013   |  |
|-------------|--|-------------------------|-------|--------------|-------------|---|--|
| a<br>n<br>d | Level 4<br>Cover Type                      | Size<br>Density         | Acres | Stand<br>Age | BA<br>Range | General<br>Comments:  |  |
| 50          | 6122 - Black Spruce                        | High Density<br>Pole    | 101.3 | 85           | 111-140     | Mixed stand, predominantly black spruce. Very large tamarack<br>located on the edges. Southwest end is a little higher ground and<br>is supporting some jack pine. An creek does originate in this<br>stand and will need to be buffered.   |  |
| <u> </u>    | 4134 - Aspen,<br>Spruce/Fir                | High Density<br>Sapling | 48.1  | 21           |             | Mixed aspen/fir stand with some areas of pole size trees. Red maple and sugar maple are regenerating in this stand as well. Mainly as seedlings (3-5 feet), but some saplings are present.  |  |
| 52          | 4130 - Aspen                               | High Density<br>Pole    | 19.8  | 30           | 1-50        | Stand harvested in January of 1980 by Dave Holli, permit #13-<br>79. Canopy is nearly all aspen with some balsam present.<br>Balsam compose the majority of the understory.   |  |
| 53          | 4112 - Maple, Beech,<br>Cherry Association | High Density<br>Pole    | 54.4  | 95           | 81-110      | Mediocre northern hardwoods, some potential. A mix of poles<br>and logs. Scattered balsam in the understory. Regeneration is<br>present in this stand.  |  |
| 54          | 4134 - Aspen,<br>Spruce/Fir                | High Density<br>Sapling | 14.1  | 5            |             | Stand harvested last entry. Balsam was left that are less than 6".<br>Balsam are seedlings w/the aspen and also as plole timber<br>"supercanopy".   |  |
| 55          | 4199 - Other Mixed<br>Upland Deciduous     | High Density<br>Log     | 34.6  | 80           | 51-80       | Stand is predominantly on a side hill. Poor quality red and sugar maple, aspen and white birch are of better quality.   |  |
| 56          | 4134 - Aspen,<br>Spruce/Fir                | Medium<br>Density Pole  | 29.2  | 34           | 51-80       | Stand was harvested in 1982 under permis 9-81A and 10-81A.<br>This area was sold as a firewood sale. The northwest part of the<br>stand is almost entirely red and sugar maple saplings that may<br>need to be split out in future stand exams. The '0' in the basal<br>area column is a true '0' as the point fell in this area of maple.<br>There are a couple of mature white pine in the stand as well. |  |
| 57          | 4134 - Aspen,<br>Spruce/Fir                | High Density<br>Sapling | 42.0  | 22           |             | Mostly aspen and balsam. Some scattered red and white pine saplings where stand is more open.   |  |
| 58          | 4134 - Aspen,<br>Spruce/Fir                | Medium<br>Density       | 109.2 | 14           |             | Jack pine regen seems to be in pockets and not scattered<br>throughout the entire stand, it's more foucused in the west and<br>center of the stand. There is some black cherry and white birch<br>present as well. The majority of the red and white pine is in the<br>southwest portion of the stand.  |  |
| 59          | 4110 - Sugar Maple<br>Association          | High Density<br>Pole    | 8.3   | 95           | 81-110      | Practically a pure sugar maple stand. A few red oaks and white birch are at the south end of the stand.   |  |

Gwinn Mgt. Unit

Compartment: 209 Year of Entry: 2013



| Stand | Cover Type                       | Acres | Managed<br>Site | Management Priority<br>(Objective) | General Comments:  |
|-------|----------------------------------|-------|-----------------|------------------------------------|--|
| 7     | 3302 - Low Density Conifer Trees | 31.6  | No              | Unspecified                        | Some scattered trees throughout the stand, more as you approach the upland. Could almsot be low density trees. |
| 18    | 6229 - Mixed lowland shrub       | 29.8  | N\A             | Unspecified                        |  |
| 25    | 122 - Road/Parking Lot           | 6.8   | No              | Unspecified                        | County Road.   |
| 26    | 123 - Other High Intensity Urban | 1.1   | No              | Unspecified                        | Gravel pit.  |
| 42    | 6229 - Mixed lowland shrub       | 75.6  | N\A             | Unspecified                        |  |
| 44    | 6229 - Mixed lowland shrub       | 8.0   | N\A             | Unspecified                        |  |
| 49    | 6229 - Mixed lowland shrub       | 13.0  | N\A             | Unspecified                        |  |



### 7 – PROPOSED SPECIAL CONSERVATION AREA\* (SCA) DETAILS

\* This is a partial list of SCAs for this compartment. Not included are those areas identified under other Department initiatives (Natural Rivers, Deer Wintering Areas, etc.). Those will be identified in separate, future map and report products.

| Stand | SCA Type          | SCA Name    | Acres | Comments  |
|-------|-------------------|-------------|-------|---|
| 8     | Unique Site - SCA | 32209008    | 3.8   | SCA=>Potential Old Growth. Stand is exhibiting both old growth characteristics and processes. Large sugar maple and yellow birch snags are present throughout the stand. Large coarse woody debris is also beginning to accumulate in portions of this stand. Stand fits criteria for Type II Old Growth. |
| 19    | Unique Site - SCA | 32209019    | 9.8   | SCA=>Potential Old Growth and Riparian Corridor. Stand is providing wildlife travel corridor and buffer along the Barnhardt Creek. It is succeeding from spruce-fir to red maple and fir.   |
| 20    | Unique Site - SCA | 32209020    | 19.9  | SCA=>Potential Old Growth. Stand is exhibiting both old growth characteristics and processes. Large sugar maple and yellow birch snags are present throughout the stand. Large coarse woody debris is also beginning to accumulate in portions of this stand. Stand fits criteria for Type II Old Growth. |
| 37    | Unique Site - SCA | 32209037    | 33.5  | SCA=>Riparian corridor along the Barnhardt Creek which is a cold water trout stream.  |
| 46    | Unique Site - SCA | 32209046    | 13.7  | SCA=>Riparian corridor along the Barnhardt Creek which is a cold water trout stream. Currently listed as SC-8.  |
| 7     | Unique Site - SCA | NF_32209007 | 31.6  | SCA=>Riparian corridor along a tributary to the Dead River.   |
| 18    | Unique Site - SCA | NF_32209018 | 29.8  | SCA=>Riparian corridor along a tributary for the Barnhardt Creek which is a cold water trout stream.  |
| 42    | Unique Site - SCA | NF_32209042 | 75.6  | SCA=>Riparian corridor along the Barnhardt Creek.   |
| 44    | Unique Site - SCA | NF_32209044 | 8.0   | SCA=>Riparian corridor along the Barnhardt Creek.   |



### 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<br>Area | Туре                 | Description  | ERA = Ecological Reference Area<br>HCVA = High Conservation Value Area<br>SCA = Special Conservation Area |
|----------------------|----------------------|--|---|
| SCA                  | Cold Water<br>Stream | A coldwater stream has temperature and dissolved oxygen co<br>stocked trout populations and those of other coldwater fish sp<br>year to year. Coldwater streams in Michigan typically provide to<br>contributions of groundwater to their stream flows. Such stream<br>designated as trout resources by Fisheries Order 210. | ecies (e.g., slimy sculpin) to persist from these conditions due to substantial                           |