



Compartment Review Presentation

Newberry Forest Management Unit

Compartment 42119

Entry Year 2018

Acreage: 906

County Luce

Management Area: Tahquamenon Basin Wetlands

Revision Date: 2016-08-22

Stand Examiner: Amy Douglass

Legal Description:

T45N R09W Sections 4 & 5

Identified Planning Goals:

Timber, wildlife and recreation are the main uses of this area. The goal is to manage for all of these simultaneously and to provide, enhance and perpetuate their uses by maintaining forest productivity, forest health, species diversification, and age class diversification through silvicultural and natural processes.

Soil and topography:

Level to slightly rolling hardwood/aspens uplands gradually sloping to lowlands and swamp conifers. Upland soil types mainly consist of Kalkaska sand, Paquin sand, Paquin-Finch sands, and Kalkaska/Kaks complex. The lowland soil types mainly consist of Carbondale, Lupton, and Tawas soils.

Ownership Patterns, Development, and Land Use in and Around the Compartment:

The compartment is now divided into two portions; split by a conveyance of 320 acres to Luce County Airport. The land was disposed in 2013, with timber rights remaining for 5 years. One timber sale remains to be cut under this reservation. After 5 years, the land will be shown as disposed of.

The entire east side of the compartment is adjacent to State land with the remaining south, west and north sides the compartment being privately owned. The private ownership to the north is primarily swampland. The private ownership along the southeast boundary of the compartment has hunting camps/cabins is mainly used for recreational purposes. The entire south side of Section 5 is owned by the Luce County Airport. The private ownership along the west boundary of the compartment has been subdivided and mostly contains permanent residences.

Unique Natural Features:

None noted. The potential exists for several threatened and endangered plant and animal species. Goshawk nests have been noted in the past.

Archeological, Historical, and Cultural Features:

None noted.

Special Management Designations or Considerations:

None noted.

Watershed and Fisheries Considerations:

Fisheries Values: Minimal

Fisheries Concerns: The Sage River in this compartment is not a designated trout stream and relatively warm providing nursery areas for forage species of the Tahquamenon River. Standard BMP's should apply when working in stands adjacent to the stream.

Wildlife Habitat Considerations:

Compartment 119 lies in southern Luce county in the Seney Sand Lake Plain ecological sub-subsection and the Tahquamenon River Basin Wetlands Management Area where black bear, gray jay, snowshoe hare and white-tailed deer are listed featured species. The eastern portion of the compartment lies in the Sage River deer yard which supports high numbers of deer during winter months. This small compartment is fairly diverse with aspen, northern hardwoods and swamp conifer predominating. Cedar, swamp hardwoods, and marshes are also quite prevalent and several small streams run through the compartment. Stands generally have decent species diversity.

Wildlife objectives will be achieved in new harvests by the retention of conifers to serve as wildlife den and nest trees in harvested stands. Snags will result in drumming logs and mature aspen around the edges will serve as food sources for grouse. Cedar will be retained compartment wide. Forested corridors should be maintained to facilitate ease of movement between upland and lowland areas and to preserve wetland wildlife values and habitats. Species of special interest

potentially using this compartment include white-tailed deer, black bear, moose, coyote, fox, mink and otter.

Mineral Resource and Development Concerns and/or Restrictions

Surface sediments consist of coarse-textured till, lacustrine sand & gravel, glacial outwash sand & gravel, and postglacial alluvium. There is insufficient data to determine the glacial drift thickness (>200 feet). The Ordovician Big Hill Dolomite and Stonington Formation subcrop below the glacial drift. The Big Hill and Stonington could be used for stone. The closest sand/gravel pits are located three miles away, southwest of Newberry. There appears to be some sand and gravel potential in Section 5. Much of the eastern portion of the compartment is covered by wetlands. There is no economic oil and gas production in the UP and there is no known metallic mineral potential in this area.

Vehicle Access:

Compartment is located 2 miles SE of Newberry. It is 1 mile north of M-28 with the main access road being County Road 408 which is a seasonally maintained road.

Survey Needs:

None needed.

Recreational Facilities and Opportunities:

The compartment is used primarily for recreational activities such as hunting and snowmobiling (DNR Sponsored Trail #9). There are some camps/cabins on the private land around the compartment that are used for recreational purposes.

Fire Protection:

Fires should be small and slow growing because of hardwood and swamp conifer types. Lowland soil types and limited access will limit the use of heavy equipment for suppression. Areas of this compartment may lend itself to modified suppression strategies, such as containment and monitoring.

Additional Compartment Information:

There have been instances of garbage dumping in the past in the area.

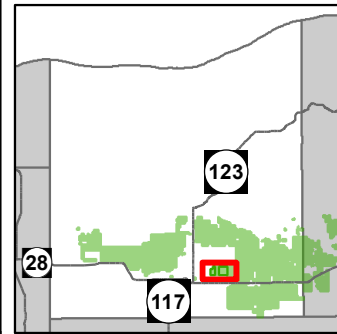
The following reports from the Inventory are attached:

- Total Acres by Cover Type and Age Class**
- Cover Type by Harvest Method**
- Proposed Treatments – No Limiting Factors**
- Proposed Treatments – With Limiting Factors**
- Stand Details (Forested and Nonforested)**
- Dedicated and Proposed Special Conservation Areas**
- Site Condition Details**

The following information is displayed, where pertinent, on the attached compartment maps:

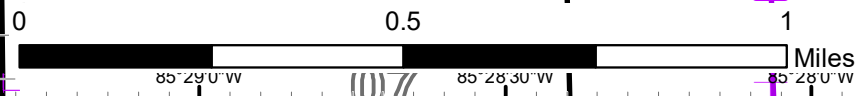
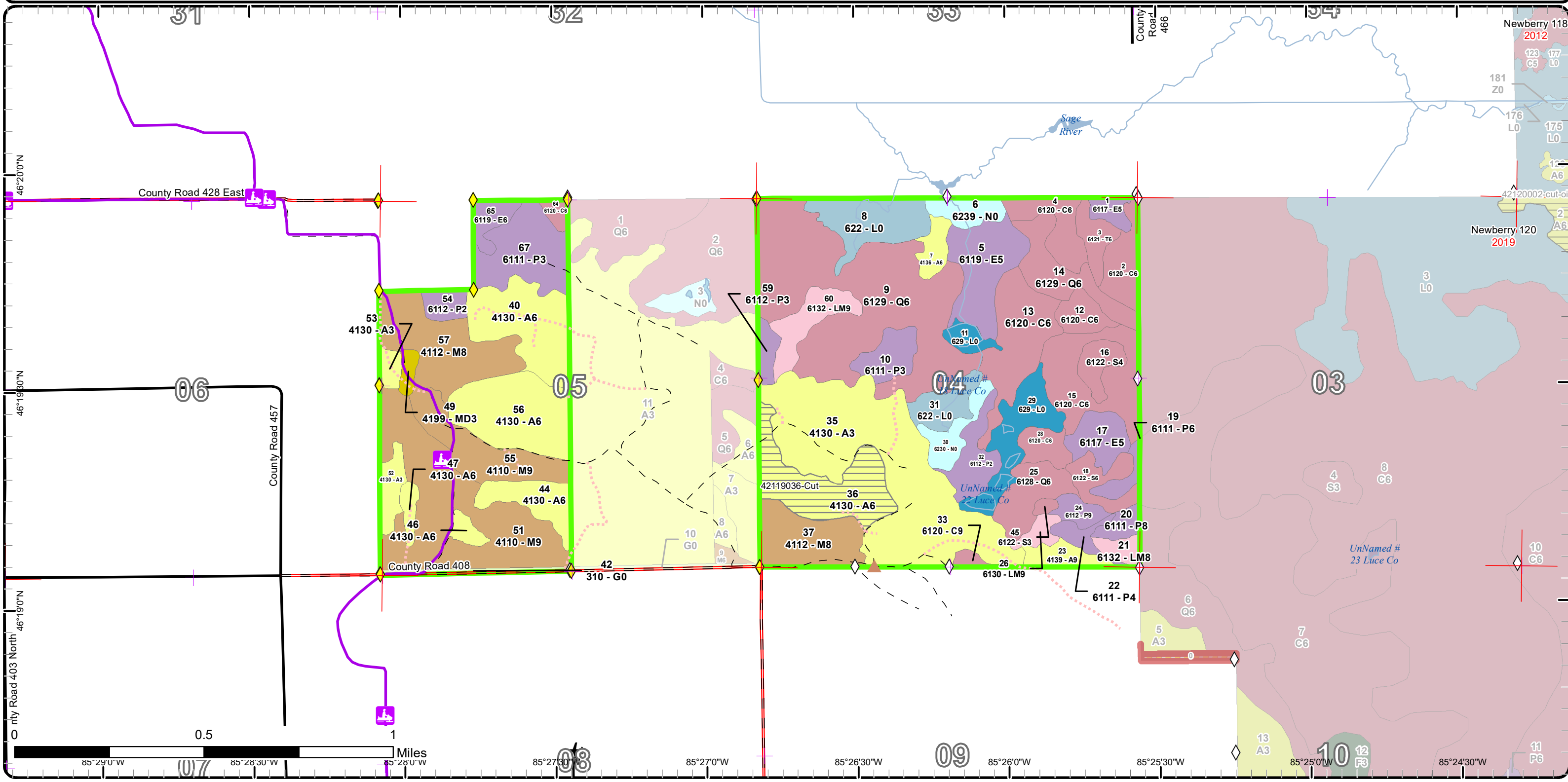
- Base feature information, stand boundaries, cover types, and numbers**
- Proposed treatments**
- Site condition boundaries**
- Details on the road access system**

Cover Type & Treatments Map



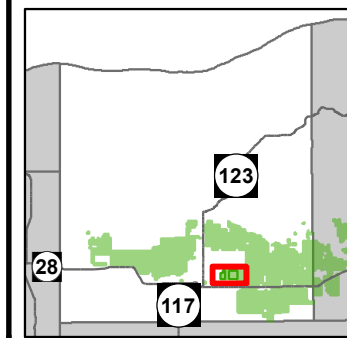
Compartment: 119
 T45N R09W Sec. 04, 05
 County: Luce
 Unit: Newberry
 Mgmt Area: Tahquamenon Basin
 Wetlands
 YOE: 2018
 Acres: 906 GIS Calculated
 Examiner: Amy Douglass
 Map Revised: 11/21/2016
 Map Phase: Pre-Review

- Miris Corners
- + Remonumented Section Corners
- ◆ Survey Grade GPS Corners
- ◇ Field Grade GPS Corners
- ▲ Berms
- ✈ Airport
- 🚙 Snowmobile Trails
- Designated Snowmobile Trails
- Paved Roads
- County Gravel Roads
- - Poor Dirt Roads
- - - Closed Roads
- Rivers
- Compartment Boundary
- Clearcut (w/Reserves)
- 411 - Northern Hardwood
- 413 - Aspen
- 419 - Mixed Upland Deciduous
- 611 - Lowland Deciduous Forest
- 612 - Lowland Coniferous Forest
- 613 - Lowland Mixed Forest
- 310 - Herbaceous Openland
- 622 - Lowland Shrub
- 623 - Emergent Wetland
- 629 - Mixed non-forested wetland
- Lakes

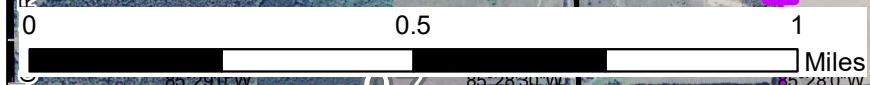
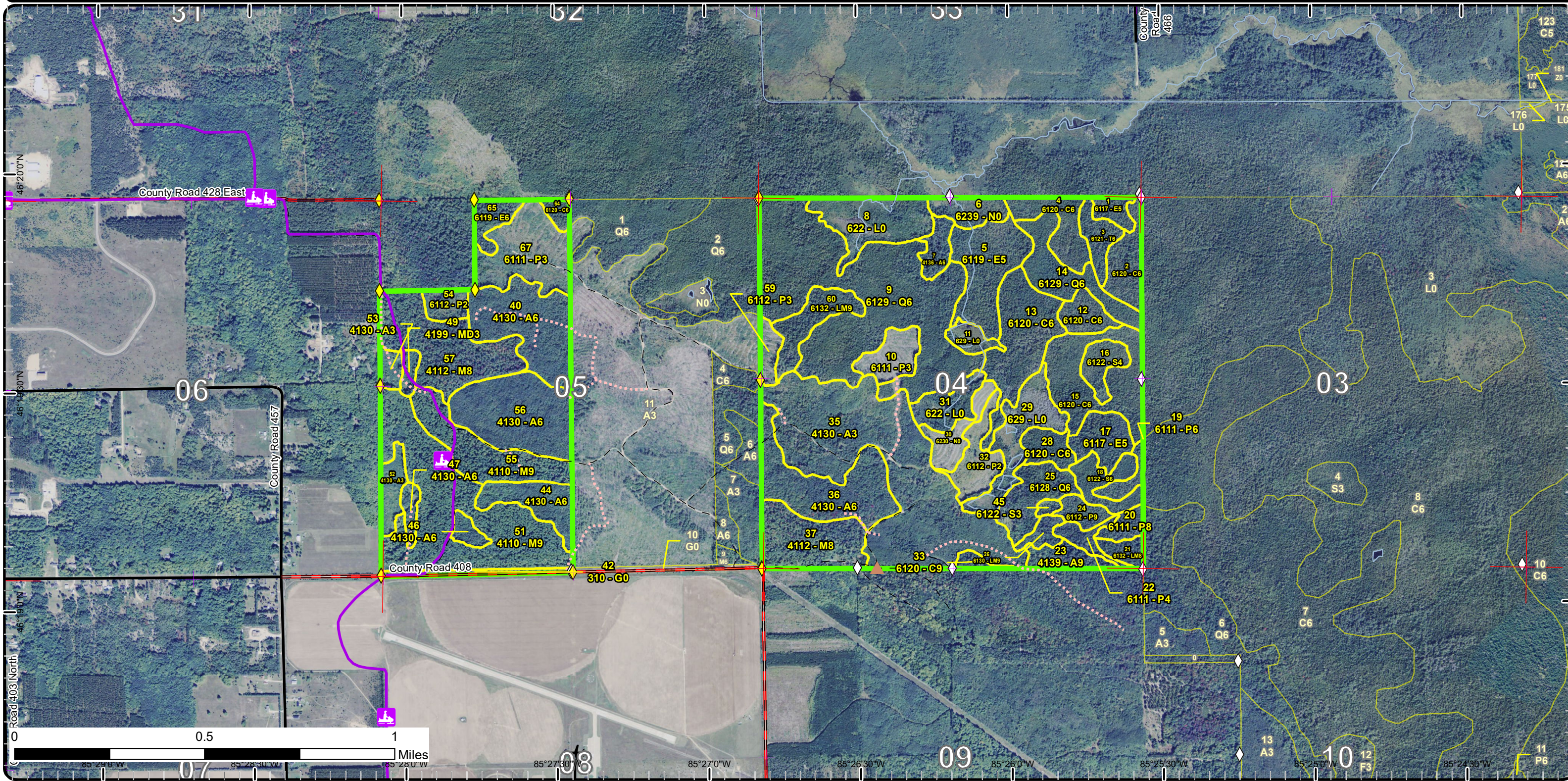


Stand Boundary Map

Compartment: 119
 T45N R09W Sec. 04, 05
 County: Luce
 Unit: Newberry
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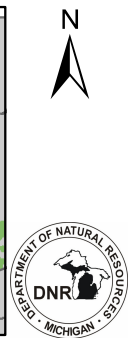
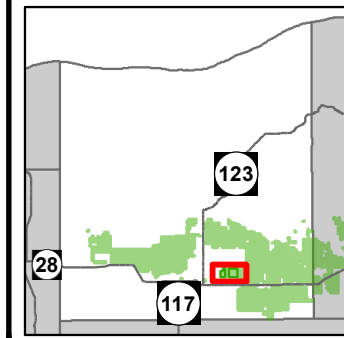
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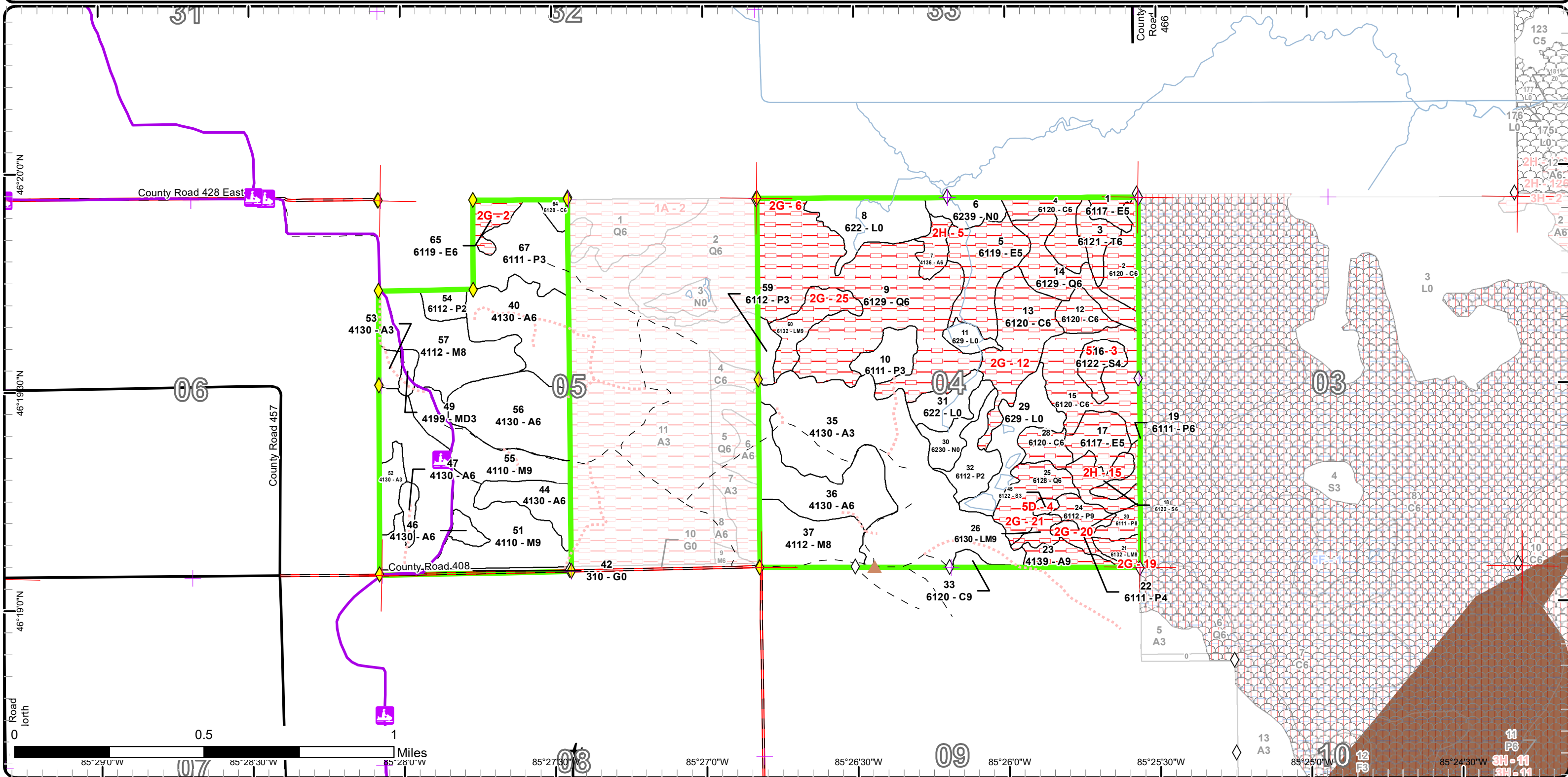
85°28'0"W 85°27'30"W 85°27'0"W 85°26'30"W 85°26'0"W 85°25'30"W
 46°20'0"N 46°19'30"N 46°19'0"N 46°18'30"N

Special Conservation Areas & Site Conditions Map

Compartment: 119
 T45N R09W Sec. 04, 05
 County: Luce
 Unit: Newberry
 Mgmt Area: Tahquamenon Basin
 Wetlands
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- Rivers
- Compartment Boundary
- Unavailable
- 2G: Too wet (sensitive soils, does not include access issues)
- 2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)
- 5D: Unproductive Forest Land
- Stand Boundaries
- Cold Water Streams
- Deer Winter Range
- Other SCA (No Category Assigned)



Report 1 – Total Acres by Cover Type and Age Class



Age Class

| | Non-Forest | 0-9 | 10-19 | 20-29 | 30-39 | 40-49 | 50-59 | 60-69 | 70-79 | 80-89 | 90-99 | 100-109 | 110-119 | 120-129 | 130-139 | 140-149 | 150+ | Uneven-Aged | Total |
|-----------------------------|------------|-----------|------------|-----------|----------|-----------|-----------|----------|----------|------------|-----------|-----------|----------|----------|----------|----------|----------|-------------|------------|
| Aspen | 0 | 11 | 100 | 57 | 0 | 33 | 33 | 0 | 0 | 14 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 247 |
| Cedar | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 59 | 7 | 26 | 0 | 0 | 0 | 0 | 0 | 12 | 104 |
| Herbaceous Openland | 5 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 4 |
| Lowland Aspen/Balsam Poplar | 0 | 60 | 0 | 0 | 0 | 0 | 0 | 0 | 5 | 15 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 80 |
| Lowland Conifers | 0 | 0 | 0 | 0 | 0 | 0 | 19 | 0 | 0 | 121 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 140 |
| Lowland Deciduous | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 23 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 26 | 49 |
| Lowland Mixed Forest | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 18 | 0 | 5 | 0 | 0 | 0 | 0 | 0 | 0 | 22 |
| Lowland Shrub | 58 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 58 |
| Lowland Spruce/Fir | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 10 | 8 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 19 |
| Marsh | 18 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 18 |
| Mixed Upland Deciduous | 0 | 0 | 0 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3 |
| Northern Hardwood | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 25 | 0 | 36 | 0 | 0 | 0 | 0 | 0 | 92 | 153 |
| Tamarack | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 8 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 8 |
| Total | 81 | 71 | 100 | 60 | 0 | 33 | 52 | 0 | 6 | 293 | 15 | 67 | 0 | 0 | 0 | 0 | 0 | 130 | 905 |



| S t a n d | Treatment Name | Acres | Stand CoverType | Size Density | Stand Age | BA Range | Treatment Type | Treatment Method | Cover Type Objective | Age Structure | Approval Status |
|-----------------------|-------------------|-------|--------------------|--------------------|--------------|-----------------|-------------------|----------------------------|-------------------------|------------------|-------------------------|
| 36 | 42119036-Cut | 32.7 | 4130 - Aspen | Poletimber Well | 52 | Unspec ified | Harvest | Clearcut with Retention | 413 - Aspen | Even-Aged | Draft Field Boundary |

Habitat Cut: No**Site Condition:**

Prescription Cut all trees, leaving pocket retention. This could include around lower areas. Minimize balsam and spruce retention due to spruce budworm.

Specs: Leave some conifer other than spruce/balsam, as well as some mature aspen, in the red line.

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Acceptable regen includes aspen, maple, birch, balsam and spruce.

Regen:

Other Check the status of the Element Occurrence in the Natural Heritage database before sale setup.

Comment:

Proposed Start Date: 10/01/2017

**Total Treatment
Acreage Proposed: 32.7**

Report 4 – Site Conditions

Newberry Mgt. Unit
Amy Douglass : Examiner

Compartment: 119
Year of Entry: 2018

Availability for Management

| Total Acres | Acres Available | Acres Avail | | Dominant Site Conditions | Dominant Site Conditions | | |
|----------------|--------------------|----------------|---------------|-----------------------------|--------------------------|----|----|
| | | With Condition | Not Available | | 2G | 2H | 5D |
| 247 | 233 | 0 | 14 | Aspen | 8 | 6 | |
| 105 | 5 | 0 | 99 | Cedar | 99 | | |
| 4 | 4 | 0 | 0 | Herbaceous Openland | | | |
| 80 | 61 | 0 | 19 | Lowland Aspen/Balsam Poplar | 5 | 14 | |
| 140 | 0 | 0 | 140 | Lowland Conifers | 140 | | |
| 49 | 0 | 0 | 49 | Lowland Deciduous | 37 | 12 | |
| 22 | 0 | 0 | 22 | Lowland Mixed Forest | 22 | | |
| 58 | 58 | 0 | 0 | Lowland Shrub | | | |
| 19 | 0 | 0 | 19 | Lowland Spruce/Fir | | 10 | 9 |
| 17 | 17 | 0 | 0 | Marsh | | | |
| 3 | 3 | 0 | 0 | Mixed Upland Deciduous | | | |
| 153 | 153 | 0 | 0 | Northern Hardwood | | | |
| 8 | 0 | 0 | 8 | Tamarack | 8 | | |
| 906 | 535 | | 370 | Total Forested Acres | 319 | 42 | 9 |
| | 59% | | 41% | Relative Percent | | | |

**Due to limitations in the current Site Conditions Analysis tool, all nonforested acres are considered available. Future development will enable analysis of nonforested types.*

| Site No. | Dominant Site Cond Availability | Dominant Site Condition | Acres | Other Site Condition | Other Site Condition | Other Site Condition | Other Site Condition |
|------------------|---------------------------------|---|-------|----------------------|----------------------|----------------------|----------------------|
| 2 | Unavailable | 2G: Too wet (sensitive soils, does not include access issues) | 7 | Unspecified | Unspecified | Unspecified | Unspecified |
| Comments: | | | | | | | |
| 3 | Unavailable | 5D: Unproductive Forest Land | 8 | Unspecified | Unspecified | Unspecified | Unspecified |
| Comments: | | | | | | | |

Report 4 – Site Conditions

Newberry Mgt. Unit
Amy Douglass : Examiner

Compartment: 119
Year of Entry: 2018

| | | | | | | | |
|--|--------------------|--|-----|--|-------------|-------------|-------------|
| 4 | Unavailable | 5D: Unproductive Forest Land | 1 | Unspecified | Unspecified | Unspecified | Unspecified |
| Comments: | | | | | | | |
| 5 | Unavailable | 2H: Blocked by physical obstacle (e.g. upland stand in a lowland area) | 6 | Unspecified | Unspecified | Unspecified | Unspecified |
| Comments: | | | | | | | |
| 6 | Unavailable | 2G: Too wet (sensitive soils, does not include access issues) | 225 | 5F: Evaluated for Forest Health Considerations | Unspecified | Unspecified | Unspecified |
| Comments: Evaluated for SBW. | | | | | | | |
| 12 | Unavailable | 2G: Too wet (sensitive soils, does not include access issues) | 29 | 2H: Blocked by physical obstacle (e.g. upland stand in a lowland area) | Unspecified | Unspecified | Unspecified |
| Comments: | | | | | | | |
| 15 | Unavailable | 2H: Blocked by physical obstacle (e.g. upland stand in a lowland area) | 36 | 5F: Evaluated for Forest Health Considerations | Unspecified | Unspecified | Unspecified |
| Comments: Need to cross numerous drainages and seeps to access. Wet mucky ground. Evaluated for SBW. | | | | | | | |
| 19 | Unavailable | 2G: Too wet (sensitive soils, does not include access issues) | 5 | 5F: Evaluated for Forest Health Considerations | Unspecified | Unspecified | Unspecified |
| Comments: Evaluated for SBW. | | | | | | | |

Report 4 – Site Conditions

Newberry Mgt. Unit
Amy Douglass : Examiner

Compartment: 119
Year of Entry: 2018

| | | | | | | | |
|--|--------------------|--|----|---|--|--|-------------|
| 20 | Unavailable | 2G: Too wet (sensitive soils, does not include access issues) | 5 | 3J: Water quality / BMPs (stream, river, or lake) | Unspecified | Unspecified | Unspecified |
| Comments: | | | | | | | |
| 21 | Unavailable | 2G: Too wet (sensitive soils, does not include access issues) | 34 | 3J: Water quality / BMPs (stream, river, or lake) | 2H: Blocked by physical obstacle (e.g. upland stand in a lowland area) | 5F: Evaluated for Forest Health Considerations | Unspecified |
| Comments: Numerous drainages, creeks and seeps throughout these stands. Evaluated for SBW. | | | | | | | |
| 25 | Unavailable | 2G: Too wet (sensitive soils, does not include access issues) | 14 | Unspecified | Unspecified | Unspecified | Unspecified |
| Comments: | | | | | | | |



Report 5 – 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.

| SCA Name | SCA Category | Detail Type | Recommendation | Acres |
|-----------------------------------|----------------------|-------------|----------------|-------|
| | Potential Old Growth | | SCA Removal | 3 |
| Comments mapping sliver | | | | |



Report 6 – EXISTING SPECIAL CONSERVATION AREA DETAILS

* This is a list of SCA's for this compartment along with a 1/4 mile buffer surrounding the compartment. Refer to the Special Conservation Area Map for locations of the below listed Conservation Areas.

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

| Conservation Area | Type | Description |
|-------------------|-------------------|---|
| SCA | Cold Water Stream | A coldwater stream has temperature and dissolved oxygen conditions that allow naturally-reproduced or stocked trout populations and those of other coldwater fish species (e.g., slimy sculpin) to persist from year to year. Coldwater streams in Michigan typically provide these conditions due to substantial contributions of groundwater to their stream flows. Such streams are established by Director's action and designated as trout resources by Fisheries Order 210. |



| | Level 4 Cover Type | Size Density | Acres | Stand Age | BA Range | General Comments: |
|----|--|-------------------|-------|--------------|-------------|--|
| 1 | 6117 - Lowland Deciduous, Mixed Coniferous | Poletimber Medium | 4.5 | 87 | 1-50 | Low/wet ground; balm with cedar, black spruce and tamarack. Difficult access. |
| 2 | 6120 - Lowland Cedar | Poletimber Well | 12.0 | 107 | 51-80 | Low/wet ground. Soft organic soils. Standing water in parts of stand. Cedar with lowland aspen, balm, black spruce and tamarack. |
| 3 | 6121 - Tamarack | Poletimber Well | 7.7 | 87 | 51-80 | Low wet ground. Difficult access, ditch to the north surrounded by lowland types. Standing water in cedar stand to the south. Tamarack with cedar, black spruce, balsam and lowland aspen/balm. |
| 4 | 6120 - Lowland Cedar | Poletimber Well | 13.3 | 107 | 81-110 | |
| 5 | 6119 - Mixed Lowland Deciduous Forest | Poletimber Medium | 26.0 | 87 | 1-50 | Poor quality stand, low/wet type. Timber is sparse, small and low quality. Mixed bag of lowland species: balm, birch, red maple, with cedar, balsam, black spruce and tamarack. Probably has some water flowage through stand. |
| 7 | 4136 - Aspen, Mixed Conifer | Poletimber Well | 6.3 | 87 | 51-80 | Difficult access. Low/wet types surrounding the stand. |
| 9 | 6129 - Mixed Coniferous Lowland Forest | Poletimber Well | 105.9 | 87 | Unspecified | Mixed lowland conifer stand, mostly spruce and cedar with a mix of p. birch and aspen. Low/soft ground. Patchy understory. Overstory ranges from thick poles with little to no understory, to a bit larger trees with balsam understory. |
| 10 | 6111 - Lowland Balsam Poplar | Sapling Well | 10.4 | 4 | Immature | Stand harvested as sale #007-08-01, Airport Lowland Conifers. Complete 04/17/2013. Pretty good regeneration throughout. Cordoroy road into stand. Regen around 5"+ tall. |
| 13 | 6120 - Lowland Cedar | Poletimber Well | 29.4 | 87 | Unspecified | Old logging road leading through stand. Difficult stand to access though due to the low/wet mucky nature of the soils. Small inclusions of birch and possible small cut-over piece from 1960's along old road. |
| 14 | 6129 - Mixed Coniferous Lowland Forest | Poletimber Well | 18.6 | 54 | 1-50 | Stand looks to have been cut over in the 1960's? No records. Regen of lowland conifer. Old skid trail leading to the stand. Difficult to access the stand due to the low/wet mucky nature of the soils. 98=20,22,25,27. |
| 15 | 6120 - Lowland Cedar | Poletimber Well | 29.4 | 87 | 141-170 | Cedar with black spruce and birch. 2006: Not much deer sign in here from winter deer yarding, occassional deer track. |
| 16 | 6122 - Black Spruce | Poletimber Poor | 7.7 | 97 | 1-50 | Smaller suppressed cedar and spruce, mostly non-merchantable. Low/wet ground. |
| 17 | 6117 - Lowland Deciduous, Mixed Coniferous | Poletimber Medium | 11.5 | 87 | Unspecified | Stand sits on on a subtile knob, but still low ground with transition ground. Beaver damage to the stand. Beavers chewed down many of the aspen, trees down all over the place as well as a few blow downs. Stand may prove to be difficult to access if treated due to low wet ground. Areas vary from being heavier to birch or aspen. |



| | Level 4 Cover Type | Size Density | Acres | Stand Age | BA Range | General Comments: |
|----|--|---------------------|-------|--------------|-------------|--|
| 18 | 6122 - Black Spruce | Poletimber Well | 10.4 | 87 | Unspecified | Decent spruce stand. Mix of various other species- paper birch, balsam, tamarack and aspen as well. Stand may be difficult to access with the low/wet mucky nature of the soil in and around the stand, good winter cutting conditions will be a must. Buggy ground. |
| 19 | 6111 - Lowland Balsam Poplar | Poletimber Well | 4.3 | 87 | Unspecified | A small isolated stand of aspen/birch surrounded by lowland conifers. Stand may be prove difficult to access with the low/wet mucky nature of the surrounding soils, good winter cutting conditions will be a must to access the stand. Transition ground. Aspen is holding up okay. |
| 20 | 6111 - Lowland Balsam Poplar | Sawtimber Medium | 4.6 | 87 | 51-80 | Aspen and birch dying out. Wet mucky ground on the N. edge of stand, there is an intermittant flow of water there. Access to the stand may prove difficult if treated due to the low/wet mucky nature of the surrounding soil. Good winter conditions will be a must if stand is treated. |
| 21 | 6132 - Mixed Lowland Forest with Cedar | Sawtimber Medium | 4.5 | 102 | Unspecified | Low/wet organic soil making up soft mucky ground, with some transition ground too. Thick groves of cedar in stand, some cedar is large diametered 14+"DBH. Much more understory than adjacent stands. |
| 22 | 6111 - Lowland Balsam Poplar | Poletimber Poor | 5.2 | 77 | 1-50 | Stand is in low/wet organic soil, mucky. Intermittant surface flow of water seasonally runs through the stand. Tag alder thick in places. |
| 23 | 4139 - Aspen, Mixed Deciduous | Sawtimber Well | 7.6 | 87 | Unspecified | Intermittant flow of water on the north and west sides of stand. Would need to be addressed if stand is treated to protect the integrity of the waterfow. South end of stand is on fairly firm ground but as you move north the ground gets low/wet and mucky. Aspen is old and dying. Balsam looks healthy but has some blowdown. |
| 24 | 6112 - Lowland Aspen | Sawtimber Well | 5.3 | 87 | 81-110 | Nice stand of aspen. Low/wet mucky ground to the south, would need to be crossed to get to this stand. Cold winter conditions would be needed to treat this stand. |
| 25 | 6128 - Lowland Coniferous, Mixed Deciduous | Poletimber Well | 15.4 | 87 | Unspecified | Variable stand. some areas heavier to cedar. Difficult stand to access due to the low/wet mucky ground. Some transitional ground areas. Fairly open understory in places. Drainages cross the stand. Good winter conditions would be needed to access the stand if treated. Southern edge along the A3 stand has considerable blowdown. |
| 28 | 6120 - Lowland Cedar | Poletimber Well | 7.3 | 96 | Unspecified | Large blowdown swath on southern edge. Very thick stand with good canopy cover. Not much for regen on the ground. Cedar, balsam, spruce, tamarack have good quality, straight and sound. North and west edge of stand has been affected by past beaver activity, trees in the adjacent stand 29 have been flooded out, hundreds of standing snags. |
| 32 | 6112 - Lowland Aspen | Sapling Medium | 12.6 | 4 | Immature | Stand harvested as sale #007-08-01, Airport Lowland Conifers. Complete 04/17/2013. Slightly higher ground within cut area. Most of the regeneration is within this stand. |



| | Level 4 Cover Type | Size Density | Acres | Stand Age | BA Range | General Comments: |
|----|--|---------------------|-------|--------------|-------------|--|
| 33 | 6120 - Lowland Cedar | Sawtimber Well | 2.4 | 107 | Unspecified | Stand is on soft ground at the base of upland types. Decent quality timber, small acreage though. |
| 35 | 4130 - Aspen | Sapling Well | 99.7 | 14 | Immature | Stand was cut on sale 42-011-98. Aspen regen is coming back thick in many places; p.birch, red maple, b.fir as well. Residual cedar scattered throughout sale area, some pockets are thick (groves) where logging activity was minimal. Many residual cedar have blown down and is now a criss/crossed mess. Cedar seemed to remain standing in areas where it was left in pockets. In the areas were it was single trees left behind, about half of it blew over. |
| 36 | 4130 - Aspen | Poletimber Well | 32.7 | 52 | Unspecified | Stand is mostly a mix of aspen and red maple. Some red maple are sawlog sized. Balsam, spruce, cherry and p.birch mixed in as well. Occasional yellow birch and cherry. Occasional low spots. |
| 37 | 4112 - Maple, Beech, Cherry Association | Sawtimber Medium | 25.0 | 87 | 51-80 | Decent stand of maple, mostly red with a mix of sugar maple and beech. Occasional yellow birch. Some beech was left from last harvest and are still hanging in there. Thick regeneration! Stand harvested as "Airport Hardwoods", sale #044-08-01. Complete 11/25/09. SE corner inclusion of small old opening that is filling in with aspen and cherry. |
| 46 | 4130 - Aspen | Poletimber Well | 3.5 | 29 | Immature | Stand was part of Unit 3 of T.Sale 42-031-87. Stand is self thinning. Productive site for aspen. Some larger aspen on east end. |
| 47 | 4130 - Aspen | Poletimber Well | 3.7 | 29 | Immature | Stand was part of Unit 3 of T.Sale 42-031-87. Productive site for aspen. |
| 49 | 4199 - Other Mixed Upland Deciduous | Sapling Well | 3.0 | 27 | Immature | Stand was part of Unit 3 of T.Sale#42-031-87. Stand is regenerating to maple, pin cherry and aspen. On edge between sapling and pole size. Small opening near southern end of stand. |
| 51 | 4110 - Sugar Maple Association | Sawtimber Well | 67.4 | 107 | 81-110 | Stand harvested as "Airport Hardwoods", sale #044-08-01. Complete 11/25/09. Some maple borer damage present. Maple regen recruitment after last harvest, despite the raspberries. Some aspen pocket inclusions; most have been cut. Some beech left after last harvest, but has scale. |
| 52 | 4130 - Aspen | Sapling Well | 7.5 | 8 | Immature | Stand harvested as "Airport Hardwoods", sale #044-08-01. Complete 11/25/09. |
| 53 | 4130 - Aspen | Sapling Well | 3.7 | 8 | Immature | Stand harvested as "Airport Hardwoods", sale #044-08-01. No retention is needed due to the small acreage of the stand in order to promote better aspen regeneration. Complete 11/25/09. |
| 54 | 6112 - Lowland Aspen | Sapling Medium | 5.6 | 8 | Immature | Soil is soft and seasonally wet. Stand harvested as "Airport Hardwoods", sale #044-08-01. Complete 11/25/09. Single residual cedar, hemlock and yellow birch present. Regeneration is okay but patchy. |



| | Level 4 Cover Type | Size Density | Acres | Stand Age | BA Range | General Comments: |
|-----------|--|---------------------|-------|--------------|-------------|--|
| 55 | 4110 - Sugar Maple Association | Sawtimber Well | 24.9 | 107 | 81-110 | Stand harvested as "Airport Hardwoods", sale #044-08-01. Complete 11/25/09. Stand was lightly thinned in 1991, T.Sale 007-91. Nice quality maple. Beech has scale. Similar to stand 51, but slightly larger trees and not as much raspberry. |
| 56 | 4130 - Aspen | Poletimber Well | 35.5 | 27 | Immature | Sapling sized aspen just coming into pole sized class. Stand was unit 2 of t.sale 031-87. Some small seasonably low pockets within stand. |
| 57 | 4112 - Maple, Beech, Cherry Association | Sawtimber Medium | 36.0 | 104 | 51-80 | Most of the maple in stand is red maple, some sugar maple present, as well occasional yellow birch and white birch. Stand harvested as "Airport Hardwoods", sale #044-08-01. Complete 11/25/09. Stand boundary between adjacent hardwood stand to the south marked by dramatic increase in balsam fir understory and higher BA of red maple. |
| 65 | 6119 - Mixed Lowland Deciduous Forest | Poletimber Well | 6.7 | 87 | Unspecified | Low/wet ground. Thick reproduction of lowland hardwoods/cedar. A lot of cedar blow downs, old and rotten now. Difficult to walk through stand. |
| 67 | 6111 - Lowland Balsam Poplar | Sapling Well | 27.1 | 5 | Immature | Terrain is rolling with low pockets where the ground is seasonally wet and soft. Road runs on ridge. Areas of cattails and/or black ash. Stand harvested as sale #008-08-01, Comp 119 Lowland Aspen. Completed 07/02/2012. |



| Stand | Cover Type | Acres | Managed Site | General Comments: |
|-------|----------------------------------|-------|--------------|---|
| 6 | 6239 - Mixed Emergent Wetland | 8.3 | No | Lowland/marsh along Sage River. |
| 8 | 622 - Lowland Shrub | 22.2 | No | Standing water in some places in stand, mostly on the south end. Old beaver dam through the center of stand running east/west. Feeds into the Sage River. |
| 11 | 629 - Mixed non-forested wetland | 5.0 | No | Old beaver flooding/marsh. Old dam on the N. end of stand. |
| 29 | 629 - Mixed non-forested wetland | 20.5 | No | Stand is a series of beaver floodings/dams. Not much for water out here now, fairly dried up, beaver activity looks old. Grass/cat-tails present now. The northern third of the stand is a flooded out cedar type, now a forest of standing dead timber, hundreds of snags. |
| 30 | 6230 - Cattail | 9.2 | | Stand harvested as sale #007-08-01, Airport Lowland Conifers. Complete 04/17/2013. Cattails predominate. some red maple, balsam poplar, cedar and fir saplings. May yet grow into trees. |
| 31 | 622 - Lowland Shrub | 10.6 | No | Old beaver floodings/marsh type. |