

Compartment Review Presentation

Gwinn Forest Management Unit

Compartment 32247 Entry Year 2020 Acreage: 937

County Marquette

Management Area: Michigamme Reservoir

Revision Date: 2018-08-06

Stand Examiner: Jason Caron

Legal Description:

T45N-R29W, Section 18, T45N-R30W, Sections 6,10,14,16,20,22

Identified Planning Goals:

Several planning goals exist for this compartment. Recreation goals include maintaining a campground on Squaw Lake along with public access sites on Horseshoe Lake, Island Lake, and Twin Lake. A maintained canoe access site exists on Witbeck Rapids along the Michigamme River. Timber goals include maintaining and perpetuating the aspen cover type and managing the northern hardwood cover type to produce pulpwood and sawlogs. Within the aspen cover type it will be a goal to balance the age class distribution, the majority of the aspen within this compartment is within the 35 - 45 year old age class. This may lead to some aspen being harvested before it matures. Hardwood quality in this portion of the landscape is generally poor to medium.

Soil and topography:

Soils within this compartment are primarily composed of the Goodman-Sundog silt loams (GS) and the Goodman-Sundog-Waben complex (GSW) on the uplands, and to a lesser extent the Carbondale and Tawas soils (CT) and the Greenwood and Dawson soils (GD) in the lowlands, depressions and drainages. Topography is fairly level to hilly with scattered lakes and bogs.

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

Ownership is predominately private individuals with scattered State and Private Industry holdings. The area is developed with both homes and camps. There is some agricultural practice in the area as well. Primary land use is recreation with timber being secondary.

Unique Natural Features:

Pot hole depressions exist around the state ownership within the Horseshoe Lake area. Numerous lakes and ponds exist in and around this compartment as well.

Archeological, Historical, and Cultural Features:

None known.

Special Management Designations or Considerations:

MNFI will do a survey within stand 53 to see if a small hemlock grove within the stand meets old growth criteria.

Watershed and Fisheries Considerations:

Compartment is separated into multiple sections and locations including along the Michigamme River near Whitbeck Rapids, Island Lake, Twin Lake, Horseshoe Lake, Mud Lake, Squaw and Little Squaw Lakes, Lily Lake, and various lowland wet areas. A 100' plus 5' per 1% increase in slope buffer is recommended to protect these areas in accordance with Best Management Practices.

Wildlife Habitat Considerations:

Compartment 247 is found within the Michigamme Reservoir Management Area on a Disintegration Moraine. The dominant Natural Communities are mesic northern forests and poor conifer swamps. The management area provides multiple benefits to the public including forest products, dispersed recreational activities, and habitat for fish and wildlife species. Because of the amount of recreational use in this area, it is a priority to continue to provide multiple benefits in a sustainable manner while minimizing user conflicts.

Some of the most significant wildlife management issues in the management area are: deer wintering complex; mast (hard and soft); habitat fragmentation; course woody debris; early successional forest; mature forest; and retention or development of large living and dead standing trees (for cavities and nest trees for eagles and ospreys).

The following have been identified as featured species for the Michigamme Reservoir Management Area: black bear, pileated woodpecker, Northern goshawk, ruffed grouse, and white-tailed deer.

Mineral Resource and Development Concerns and/or Restrictions

An active sand/gravel pit is located one mile to the southeast, in Sec 25, and there appears to be good sand & gravel potential within the compartment. Iron formations do underlie the compartment, but there has been limited exploration in this area. So, depth and quality of the iron formation in this area is not known. There is no history of mineral leasing within the compartment. There is no potential for economical oil and gas production in the UP.

Vehicle Access:

Vehicle access within this compartment is good. M-95 and County Road 601 bisect the compartment as well as other small county roads.

Survey Needs:

Surveys are needed for the treatments around stands 33, 36 and 67. A survey request has been submitted for these stands.

Recreational Facilities and Opportunities:

The Squaw Lake campground exists within this compartment. Public access sites exist on Twin Lake and Island Lake along with the canoe access site at Witbeck Rapids. Three campgrounds, South Horseshoe, North Horseshoe, and Witbeck Rapids, were developed and closed within this compartment.

Fire Protection:

Timber types within this compartment and surrounding landscape are not prone to natural fires. However, it is a fairly urbanized area and has the potential for human caused fires. Access to the area for fire protection is good.

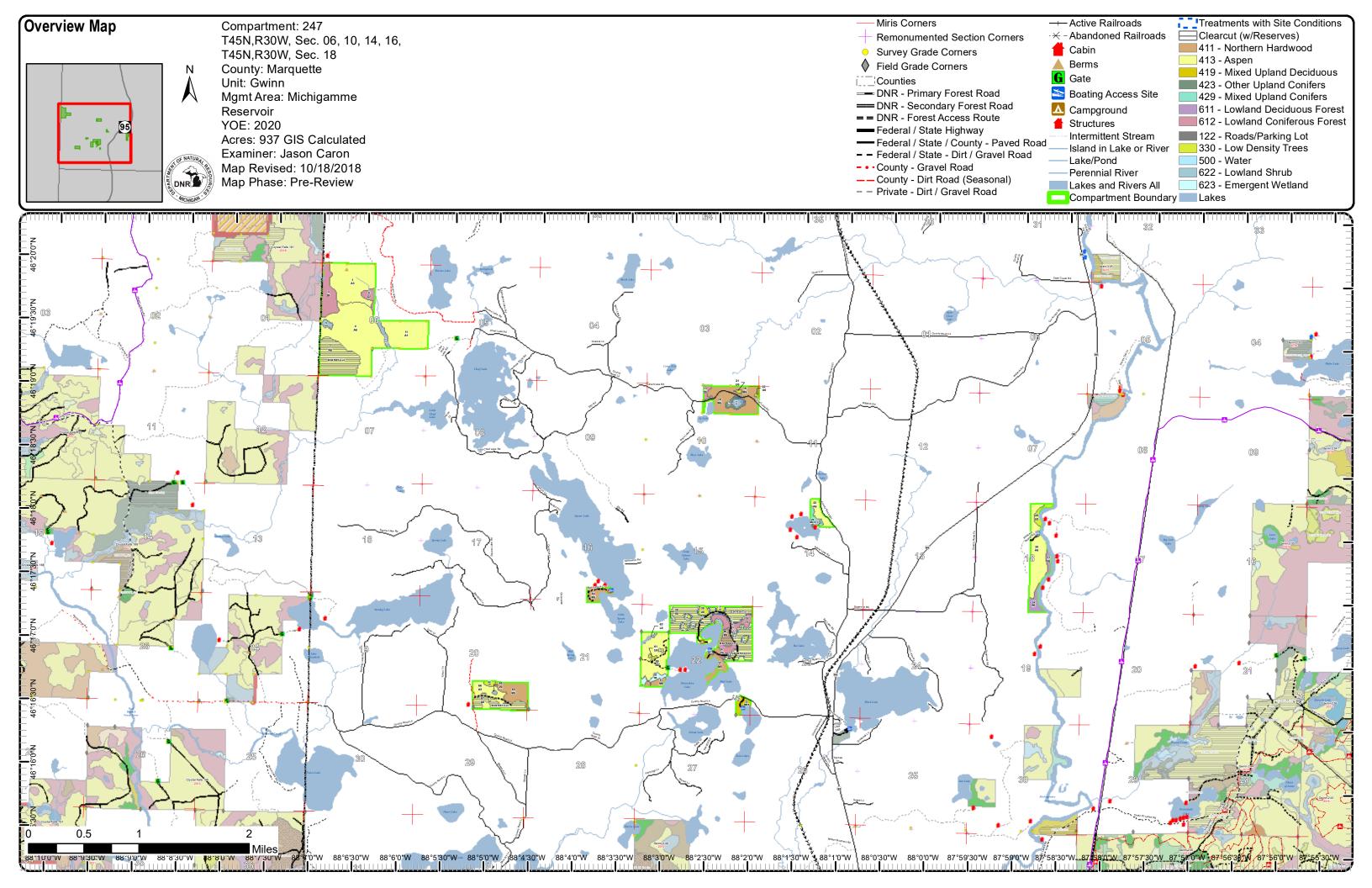
Additional Compartment Information:

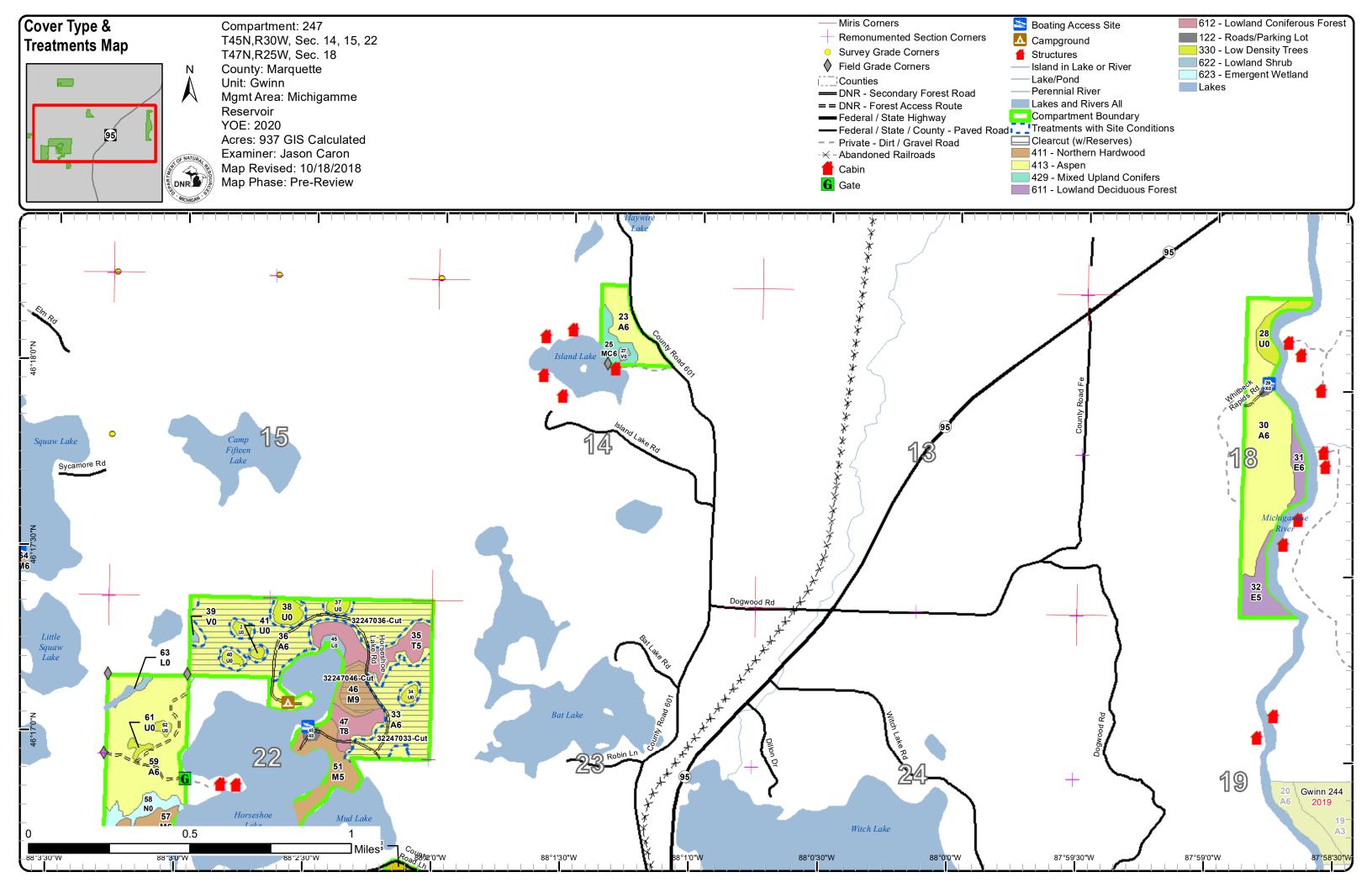
The following reports from the Inventory are attached:

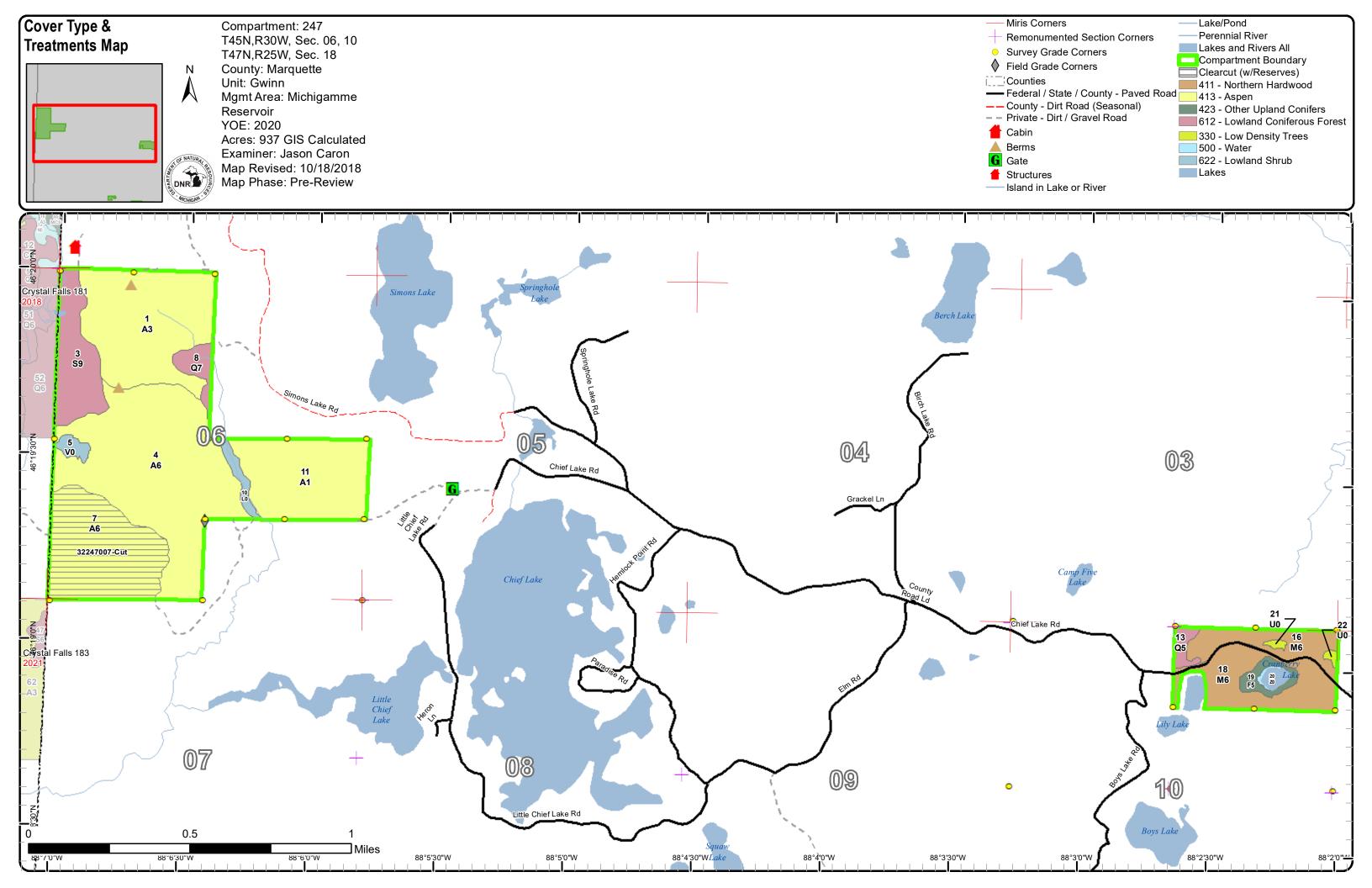
Total Acres by Cover Type and Age Class
Cover Type by Harvest Method
Proposed Treatments – No Limiting Factors
Proposed Treatments – With Limiting Factors
Stand Details (Forested and Nonforested)
Dedicated and Proposed Special Conservation Areas
Site Condition Details

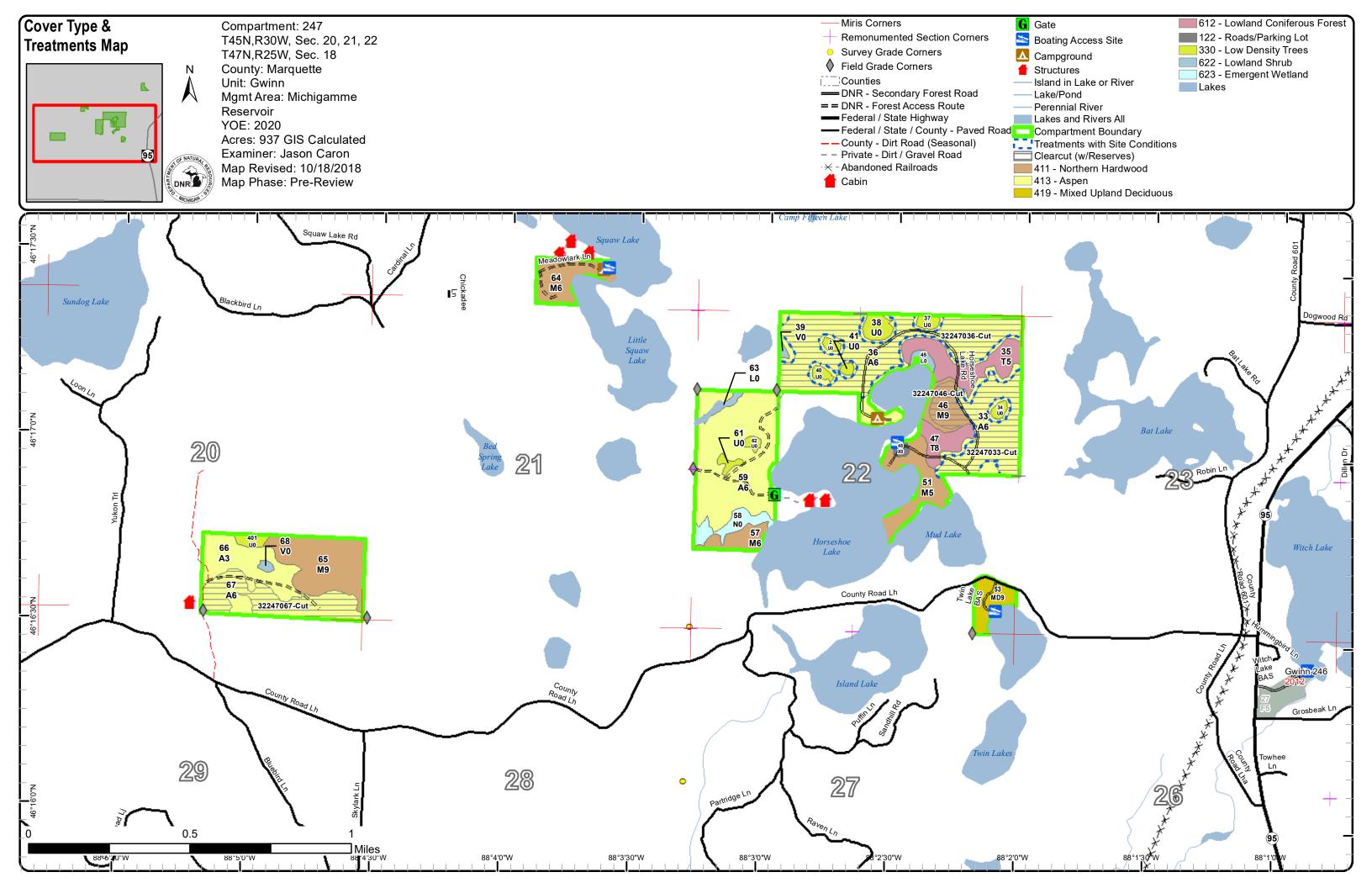
The following information is displayed, where pertinent, on the attached compartment maps:

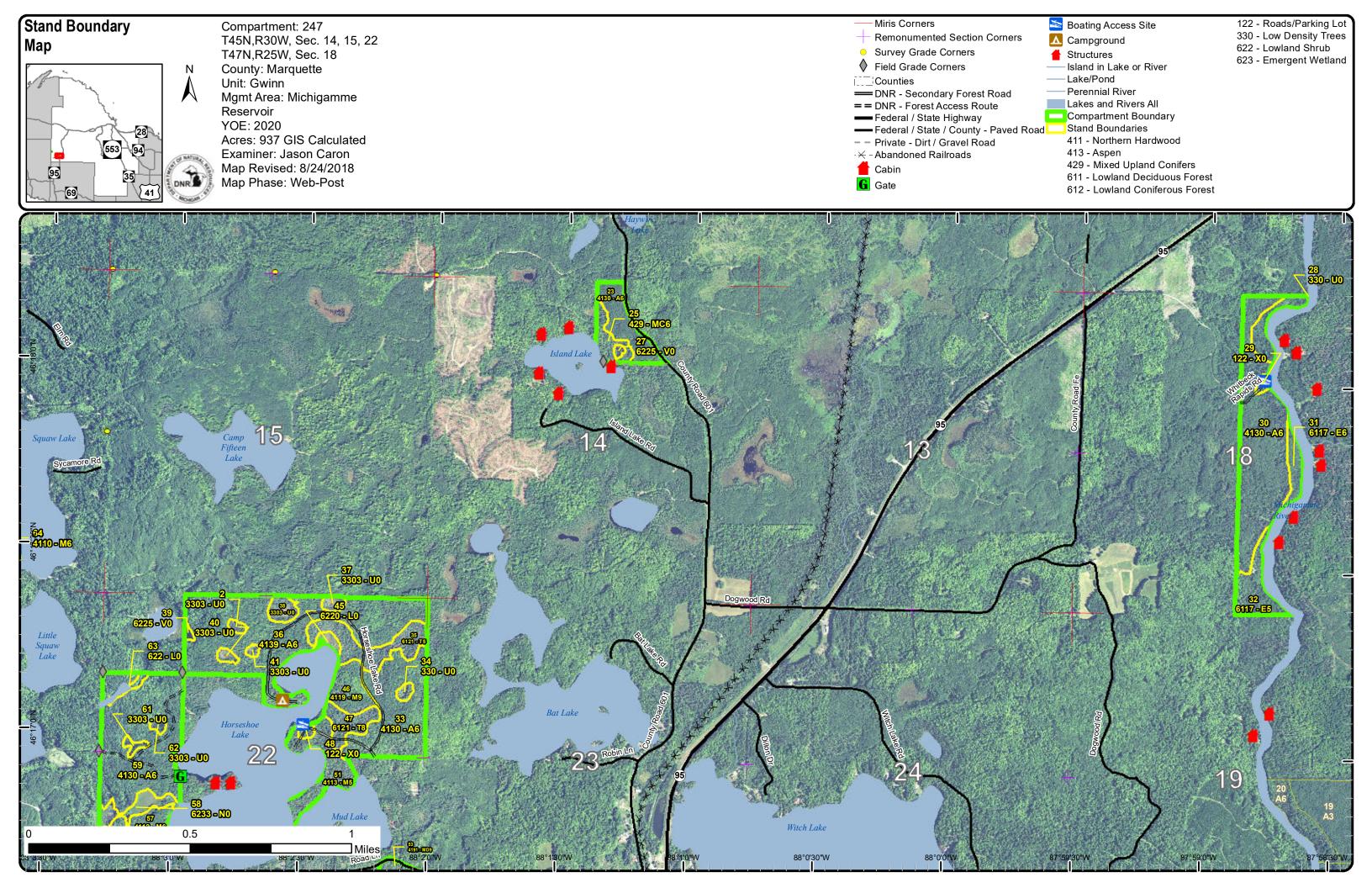
Base feature information, stand boundaries, cover types, and numbers Proposed treatments
Site condition boundaries
Details on the road access system

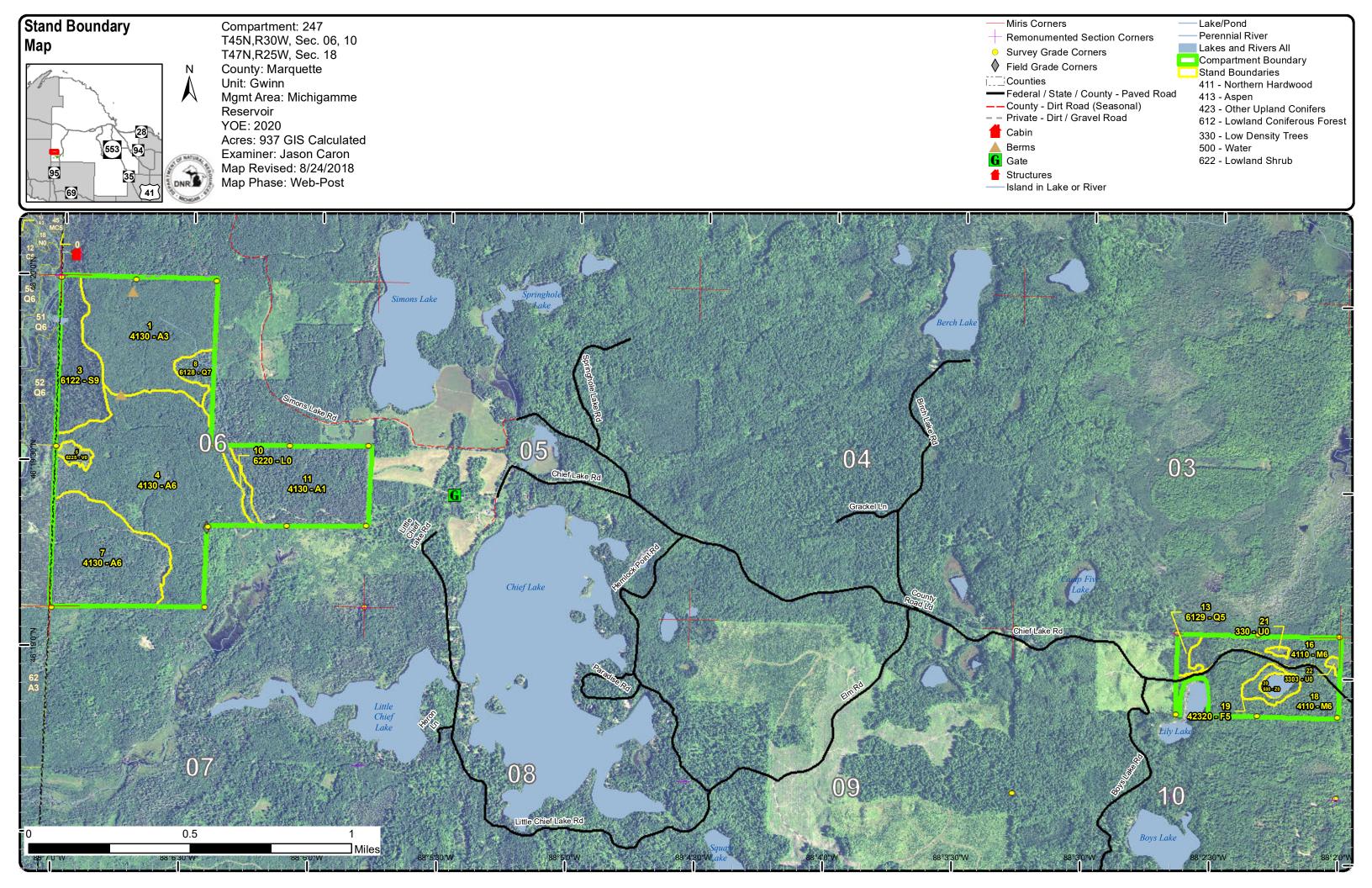


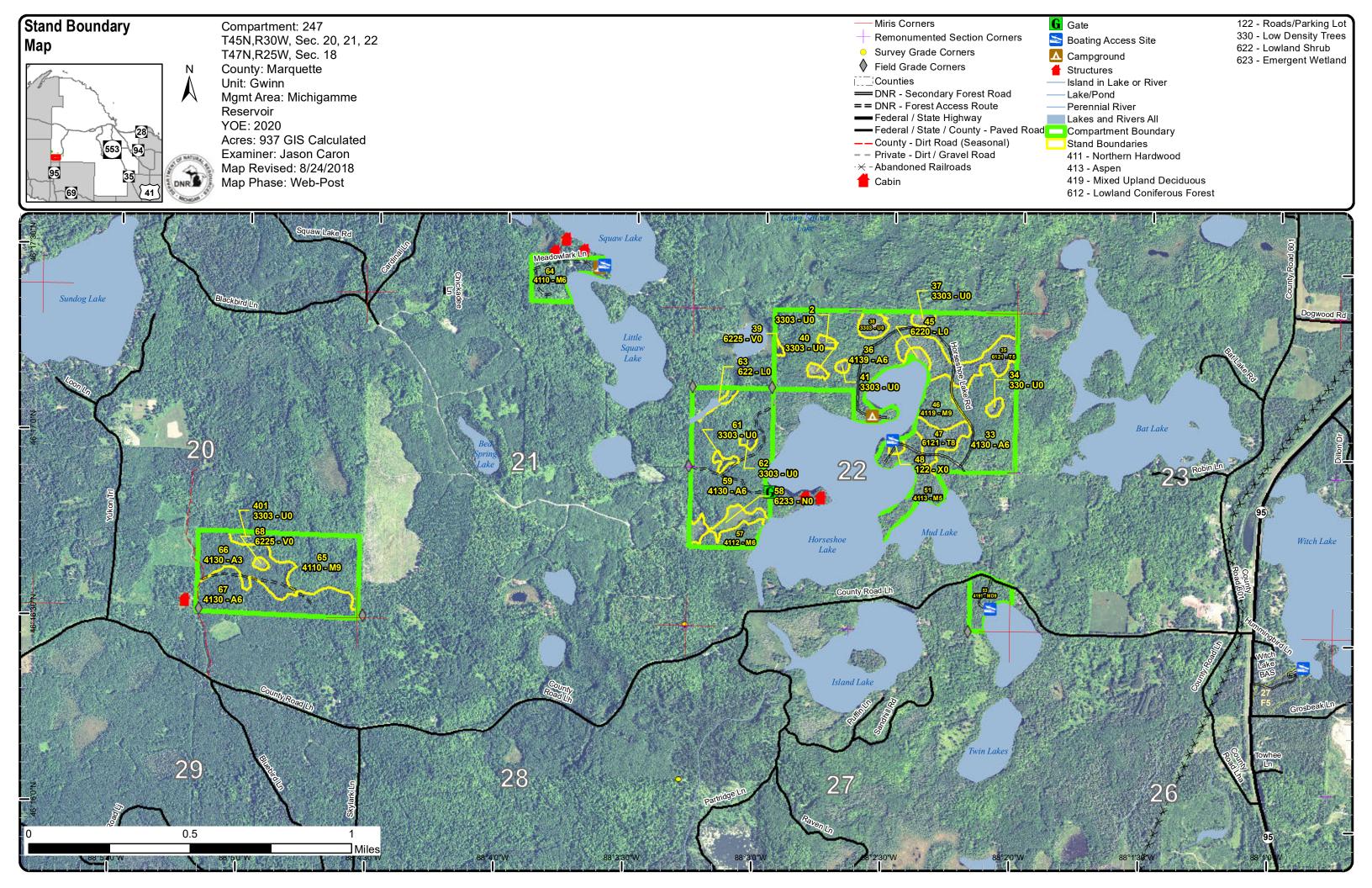


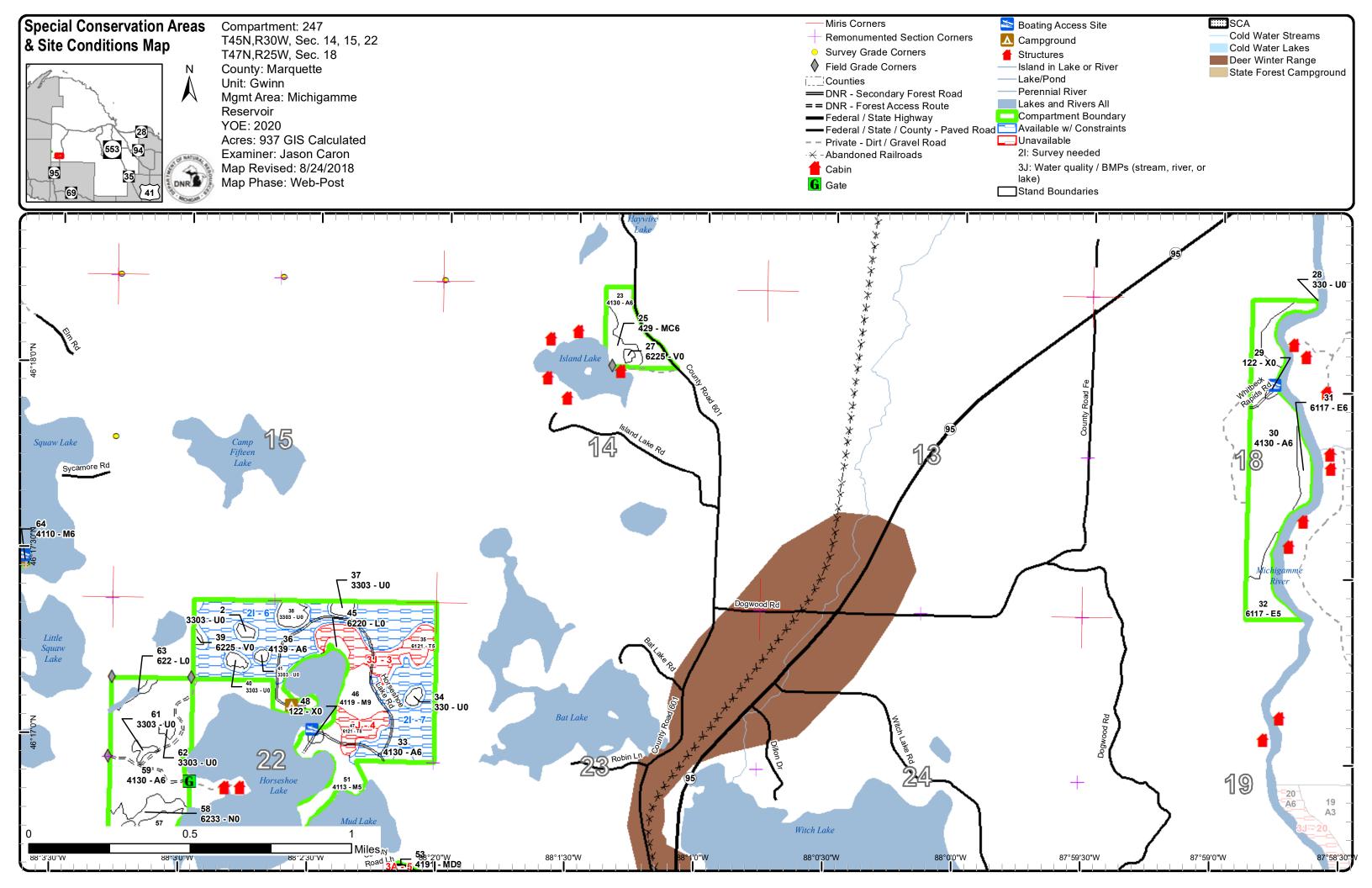


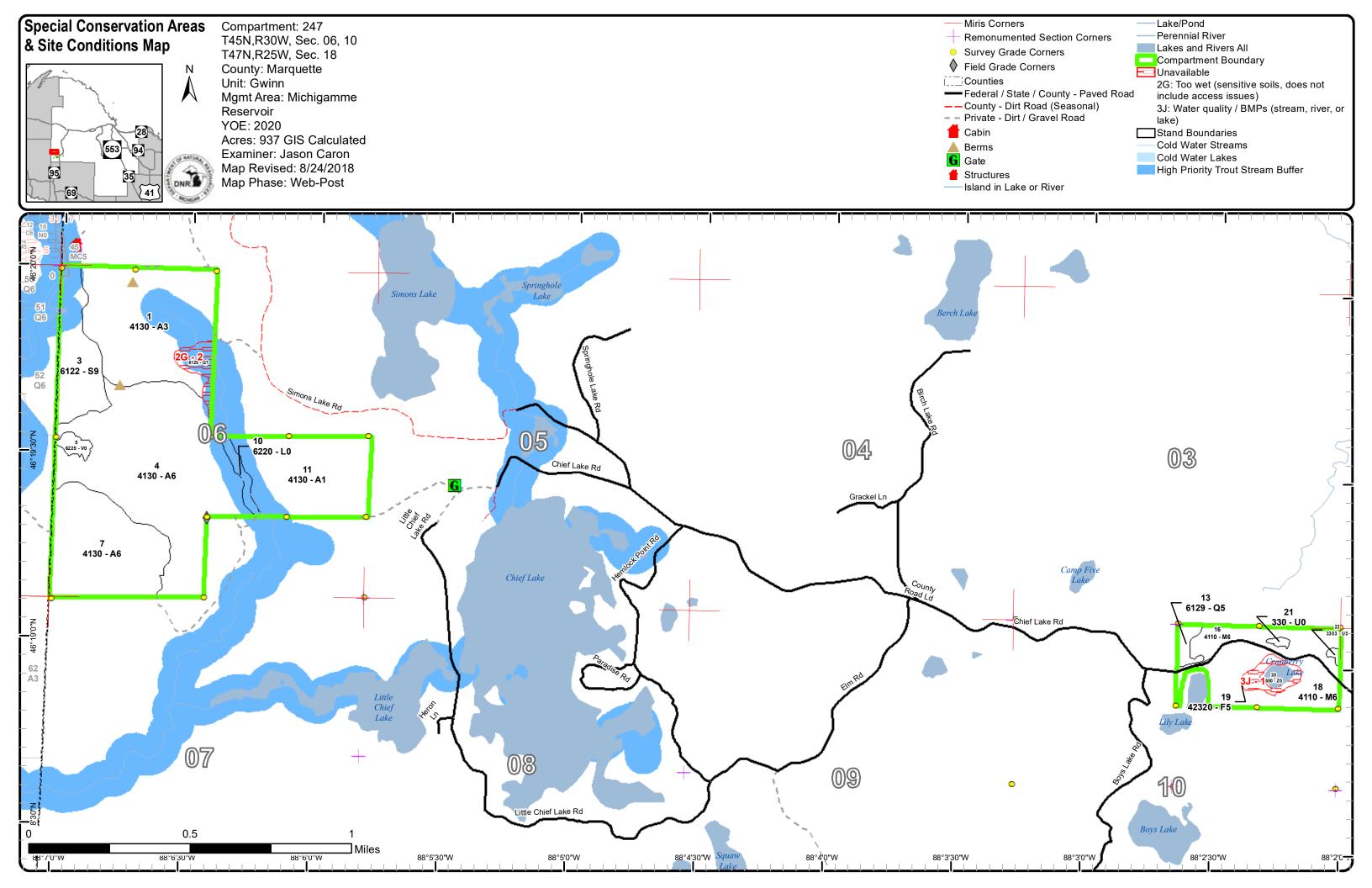


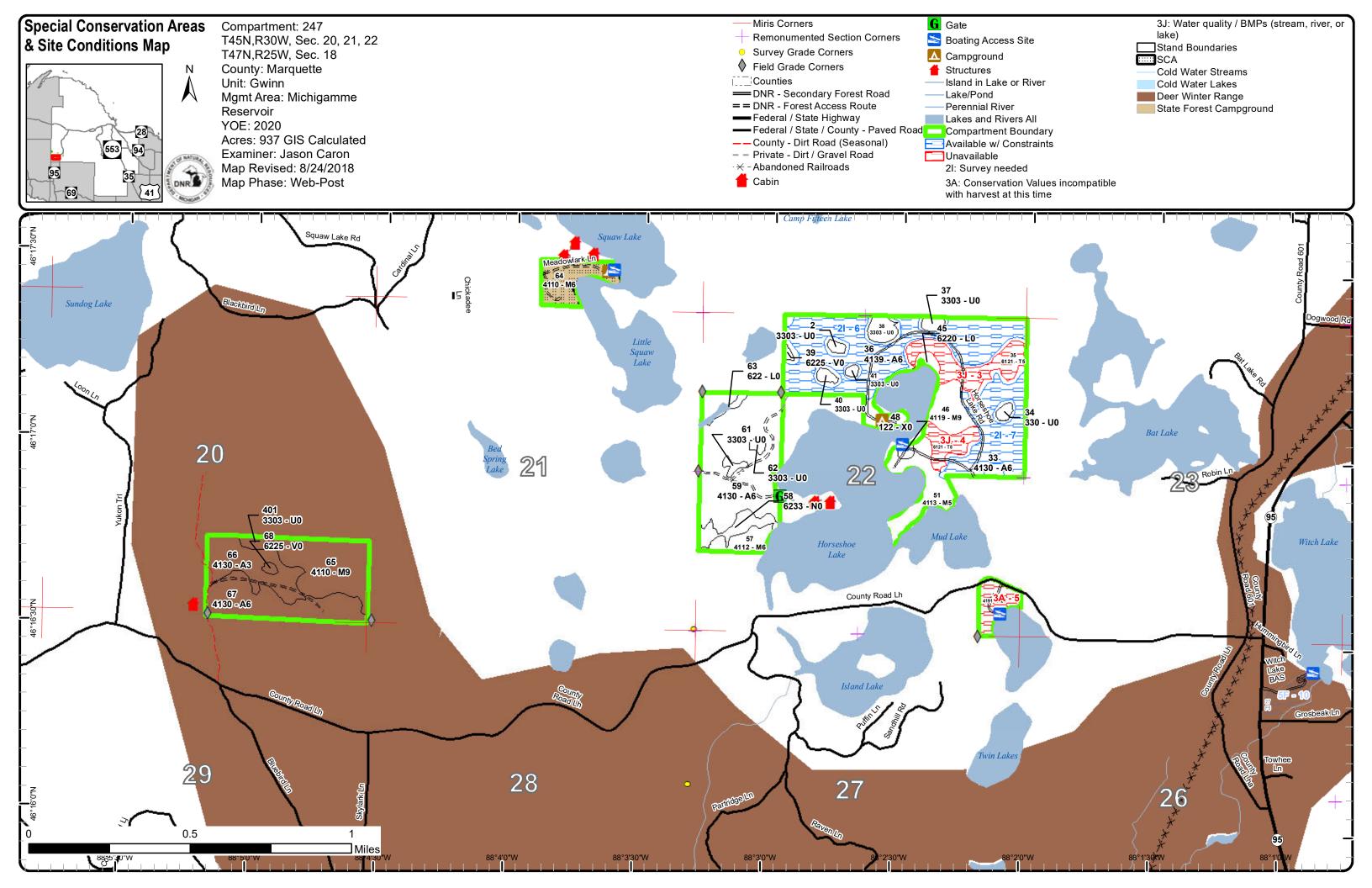












Compartment 247 Year of Entry 2020

Gwinn Mgt. Unit **Jason Caron : Examiner**



Age Class

| | \ [¥] o | LA SE C | | \$ / % | \$\$. \$.% | 8 / 4 | 8 .0° | , § / & | | \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\ | 80.00 | \$ /6/ | 70,7 | 81, K | \$ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ | \$ K | ON A | g [*] Jre | No. No. |
|------------------------|------------------|---------|---|--------|---------------|-------|-------|------------|----|--|-------|--------|------|-------|---|------|------|--------------------|---------|
| Aspen | 0 | 61 | 0 | 118 | 249 | 180 | 28 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 636 |
| Bog | 6 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 6 |
| Low-Density Trees | 24 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 24 |
| Lowland Conifers | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 12 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 12 |
| Lowland Deciduous | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 18 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 18 |
| Lowland Shrub | 9 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 9 |
| Lowland Spruce/Fir | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 32 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 32 |
| Marsh | 7 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 7 |
| Mixed Upland Deciduous | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 10 | 0 | 0 | 0 | 0 | 10 |
| Northern Hardwood | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 28 | 0 | 51 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 60 | 139 |
| Tamarack | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 17 | 8 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 25 |
| Upland Conifers | 0 | 0 | 0 | 0 | 7 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 7 |
| Upland Spruce/Fir | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 6 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 6 |
| Urban | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 |
| Water | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3 |
| Total | 51 | 61 | 0 | 118 | 256 | 180 | 28 | 34 | 67 | 71 | 0 | 0 | 0 | 10 | 0 | 0 | 0 | 60 | 936 |



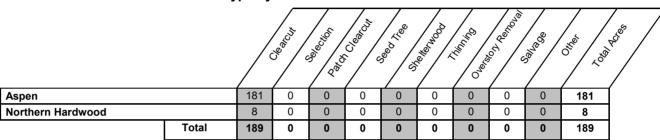
Report 2 – Treatment Summary

Gwinn Mgt. Unit

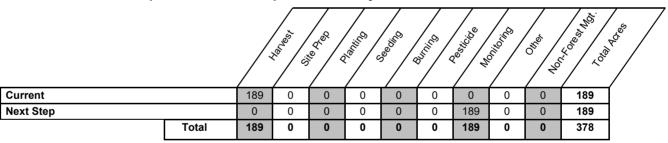
Compartment 247 Year of Entry: 2020 **Total Compartment Acres: 937 Acres of Harvest**

> Commercial Harvest - 98 Harvests with Site Condition - 91 Next Step Harvest - 0 Habitat Cut - 0

Cover Type by Harvest Method



Proposed and Next Step Treatments by Method



s t а

Treatment Stand Stand BA **Treatment Treatment Cover Type** Acres Size Age **Approval** n Name CoverType Density Age Range Type Method Objective Structure Status d Even-Aged Draft Proposal 32247007-Cut 65.5 51-80 Clearcut with 4134 - Aspen. 4130 - Aspen Poletimber 49 Harvest Well Retention Spruce/Fir

Habitat Cut: No Site Condition:

Prescription Clearcut with retention. Red line out a patch of mature timber to meet retention guidelines. Do not harvest under-represented species such as Specs:

pine, hemlock, yellow birch, and oak.

Monitoring, Natural Regen (Re-Inventory) Next Step

Treatments:

Acceptable aspen, fir, spruce, pine, maple, and birch.

Regen: Other Comment:

Proposed Start Date: 10/01/2019

Even-Aged Draft Proposal 33 32247033-Cut 298 4130 - Aspen Poletimber 45 81-110 Harvest Clearcut with 4134 - Aspen.

Well Retention Spruce/Fir

Site Condition: Survey Needed **Habitat Cut: No**

Prescription Clearcut with retention, Numerous low depressions within the stand will serve as retention pockets. Do not harvest under-represented species Specs:

such as pine, hemlock, yellow birch, and oak.

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Maple, aspen, birch, oak, pine, spruce, and fir.

Regen:

Other Wildlife - Retention should include some large paper birch - pileated woodpecker

Comment:

Proposed Start Date: 10/01/2019

36 32247036-Cut 60.8 4139 - Aspen, Poletimber 45 81-110 Harvest Clearcut with 4134 - Aspen, Even-Aged Draft Proposal Mixed Deciduous Well Retention Spruce/Fir

Habitat Cut: No Site Condition: Survey Needed

Prescription Clearcut with retention. Numerous low depressions within the stand will serve as retention pockets. Do not harvest under-represented species Specs: such as pine, hemlock, yellow birch, and oak.

Monitoring, Natural Regen (Re-Inventory) Next Step

Treatments:

Acceptable maple, aspen, fir, spruce, pine, oak, hemlock, and birch

Regen:

Other Wildlife - Retention should include some large paper birch - pileated woodpecker also look for the opportunity to leave a few large Red Maple -

Comment: cavity nesters and northern goshawk

Proposed Start Date: 10/01/2019

32247046-Cut 7.6 4119 - Mixed

Northern Hardwoods Well Retention Mixed Upland Deciduous

81-110

60

Clearcut with

4199 - Other

Habitat Cut: No Site Condition:

Prescription Clearcut with reserves. A steep hill exists around most of the stand. Do not harvest on this steep hill and red line this out for retention. Also, within this stand a patch of sugar maple exists which is better quality. In this patch green tree out some decent stems and retain 20-40 square Specs:

Harvest

feet of residual. Do not harvest under-represented trees such as pine, oak, hemlock, and yellow birch.

Sawtimber

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable maple, oak, pine, aspen, fir, spruce, and birch.

Regen:

Other Comment

Proposed Start Date: 10/01/2019 Even-Aged Draft Proposal

Gwinn Mgt. Unit

Report 3 -- Treatments

Compartment: 247 Year of Entry: 2020 DNR DNR

| 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 |
|-------------|-------------------|-------|--------------------|--------------------|--------------|-------------|-------------------|----------------------------|-----------------------------|------------------|--------------------|
| 67 | 32247067-Cut | 25.1 | 4130 - Aspen | Poletimber Well | 51 | 81-110 | Harvest | Clearcut with Retention | 4134 - Aspen, Spruce/Fir | Even-Aged | Draft Proposal |

Habitat Cut: No Site Condition:

Prescription Specs: Clearcut with retention. Do not harvest under-represented species such as pine, hemlock, yellow birch, and oak. Omitted a small hardwood patch from the harvest area on the south side of this stand - this will serve as retention for the stand.

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable aspen, spruce, fir, birch, pine, oak, and maple.

Regen:

s

Other Wildlife - Add a winter cutting specification to this stand – Deer Wintering Complex

Comment:

Proposed Start Date: 10/01/2019

Total Treatment
Acreage Proposed:

188.8

Gwinn Mgt. Unit

Jason Caron : Examiner

Compartment: 247
Year of Entry: 2020

| Availa | ability for | Managemer | nt | | | | | |
|--------|-------------|----------------|---------------|------------------------|--------|---------|-------|---------|
| Total | Acres | Acres Avail | Acres | | Domina | nt Site | e Con | ditions |
| Acres | Available | With Condition | Not Available | | 21 | 2G | 3A | 3J |
| 636 | 545 | 91 | 0 | Aspen | 91 | | | |
| 6 | 6 | 0 | 0 | Bog | | | | |
| 24 | 24 | 0 | 0 | Low-Density Trees | | | | |
| 13 | 4 | 0 | 8 | Lowland Conifers | | 8 | | |
| 18 | 18 | 0 | 0 | Lowland Deciduous | | | | |
| 9 | 9 | 0 | 0 | Lowland Shrub | | | | |
| 32 | 32 | 0 | 0 | Lowland Spruce/Fir | | | | |
| 7 | 7 | 0 | 0 | Marsh | | | | |
| 10 | 0 | 0 | 10 | Mixed Upland Deciduous | | | 10 | |
| 139 | 139 | 0 | 0 | Northern Hardwood | | | | |
| 25 | 0 | 0 | 25 | Tamarack | | | | 25 |
| 7 | 7 | 0 | 0 | Upland Conifers | | | | |
| 6 | 0 | 0 | 6 | Upland Spruce/Fir | | | | 6 |
| 2 | 2 | 0 | 0 | Urban | | | | |
| 3 | 3 | 0 | 0 | Water | | | | |
| 937 | 797 | 91 | 49 | Total Forested Acres | 91 | 8 | 10 | 31 |
| | 85% | 10% | 5% | 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 |
|-------------|------------------------------------|---|------------|---------------------------|-----------------------|----------------------|----------------------|
| 1 | Unavailable | 3J: Water quality / BMPs (stream, river, or lake) | 6 | Unspecified | Unspecified | Unspecified | Unspecified |
| | Comments: Wet stand that surro | ounds adjacent lake. | | | | | |
| 2 | Unavailable | 2G: Too wet (sensitive soils, does not include access issues) | 8 | Unspecified | Unspecified | Unspecified | Unspecified |
| | Comments: Stand contains a rim | n of higher ground surrounded | d by stagr | nant tamarack and black s | pruce. Do not manage. | | |

Report 4 – Site Conditions

Gwinn Mgt. Unit

Jason Caron: Examiner

Compartment: 247 Year of Entry: 2020

| 3 | Unavailable | 3J: Water quality / BMPs (stream, river, or lake) | 17 | 2G: Too wet (sensitive soils, does not include access issues) | Unspecified | Unspecified | Unspecified |
|---|-------------------------------|--|----------|---|---------------------------|----------------------------|----------------------|
| | Comments: | | | | | | |
| | Stand drains into the | ne lake or vice versa. Do not ma | ınage. | | | | |
| 4 | Unavailable | 3J: Water quality / BMPs (stream, river, or lake) | 8 | Unspecified | Unspecified | Unspecified | Unspecified |
| | Comments: Stand is poorly sto | cked and very wet. Acts as a dr | ain into | the lake. Harvesting would a | ffect the hyrdrology. Rut | ing would be a big concern | as well, if managed. |
| | | | | | | | |
| 5 | Unavailable | 3A: Conservation Values incompatible with harvest at this time | 10 | Unspecified | Unspecified | Unspecified | Unspecified |
| | Comments: | | | | | | |
| | Part of the stand ex | xhibits old growth characteristics | s. An M | NFI survey has been schedu | led to review this stand. | | |
| 6 | Available | 2I: Survey needed | 61 | Unspecified | Unspecified | Unspecified | Unspecified |
| | Comments: | | | | | | |
| 7 | Available | 2l: Survey needed | 30 | Unspecified | Unspecified | Unspecified | Unspecified |
| | Comments: | | | | | | |

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Mgt. Unit

Compartment: #Type! Year of Entry:

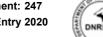


Report 5 - PROPOSED SPECIAL CONSERVATION AREA* (SCA) DETAILS

* 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 |
|----------|--------------|-------------|----------------|-------|
| | | | | |
| Comments | | | | |
| | | | | |

Gwinn Mgt. Unit Compartment: 247
Year of Entry 2020



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.

| Conservati Area | on Type | Description | ERA = Ecological Reference Area HCVA = High Conservation Value Area SCA = Special Conservation Area |
|--------------------|----------------------|---|--|
| SCA | Cold Water Lake | A coldwater lake has temperature and dissolved oxygen condition stocked trout populations and those of other coldwater fish specific conditions for coldwater fishes may occur in Michigan lakes if the groundwater inflows, or are located in colder (northern) areas of Director's action and designated as trout resources by Fisheries | es to persist from year to year. Suitable ey are relatively deep, have substantial the state. Such lakes are established by |
| SCA | Cold Water Stream | A coldwater stream has temperature and dissolved oxygen cond stocked trout populations and those of other coldwater fish speci year to year. Coldwater streams in Michigan typically provide the contributions of groundwater to their stream flows. Such streams designated as trout resources by Fisheries Order 210. | es (e.g., slimy sculpin) to persist from se conditions due to substantial |
| SCA | Habitat Area | An area that provide some specific need for the life cycle of wildl and Waterfowl Production Areas, deer wintering complexes in lo openings and savannas. Habitat areas are distinct from critical h endangered or threatened species (such as Kirtland's warbler or general in nature, are not primarily associated with threatened or covered by species recovery plans that are developed in cooperations. | wland conifer communities, grassland abitat designated for recovery of piping plover areas) in that they are more endangered species, and are not |
| SCA | Riparian Area | A transitional area between aquatic and terrestrial ecosystems in influences the aquatic ecosystem and vice-versa. Because of the streams and open water wetlands, riparian areas harbor a high communities are ecologically and socially significant in their effects as aesthetics, habitat, bank stability, timber production, and their | e unique conditions adjacent to lakes, liversity of plants and wildlife. Riparian cts on water quality and quantity, as well |

| s t | Gwinr | n Mgt. Unit | | Report 7 | – Forested | Stands Compartment: 247 Year of Entry: 2020 |
|-------------|--|----------------------|-------|--------------|-------------|---|
| a n d | Level 4 Cover Type | Size Density | Acres | Stand Age | BA Range | General Comments: |
| 1 | 4130 - Aspen | Sapling Well | 82.7 | 24 | Immature | Stand consists of healthy fully stocked aspen. A few scattered balsam exist throughout the stand. |
| 3 | 6122 - Black Spruce | Sawtimber Well | 32.3 | 71 | 81-110 | Lowland stand of cedar and spruce. Mature cedar exists in pockets throughout the stand. I noticed a few x-log sized cedar within the stand. |
| 4 | 4130 - Aspen | Poletimber Well | 135.3 | 38 | 1-50 | Stand of healthy aspen. A few sub-merchantable conifer exist within the understory throughout the stand. |
| 7 | 4130 - Aspen | Poletimber Well | 65.5 | 49 | 51-80 | Stand of decent quality aspen. Fir and balsam understory exists throughout the stand. Fir and balsam are merchantable and have very little budworm damage. |
| 8 | 6128 - Lowland Coniferous, Mixed Deciduous | Sawtimber Poor | 8.2 | 89 | 51-80 | Stand of both low ground and high ground. A pocket of heavy tag alder exists within the middle of the stand. A good stand for grouse this time of year. |
| 11 | 4130 - Aspen | Sapling Poor | 61.2 | 1 | Immature | Stand was harvested in the fall of 2016. TS# 120-15. Tops were chipped due to a heavy slash load from the conifer that existed within the stand. I intended to have portions of this stand planted back to red pine but after looking at the great aspen regeneration in the summer of 2017 I decided it did not need further reforestation work. |
| 13 | 6129 - Mixed Coniferous Lowland Forest | Poletimber Medium | 4.4 | 80 | 1-50 | Previous inventory has the year of origin of this stand as 1938. When walking through it, it appears some areas were cut in '38 and other areas were not. Stand consists of cedar, tamarack, and black spruce of low stocking. Heavy tag alder exists within the understory. Some older patches of tamarack and cedar exist. |
| 16 | 4110 - Sugar Maple Association | Poletimber Well | 22.9 | 84 | 51-80 | Stand was selectively harvested in 2012: TS# 111-10. Stand consists of good quality hardwood. Yellow birch and red maple are scattered throughout the stand. Small pockets of raspberry exist underneath the canopy gaps. I did notice small patches of maple regeneration as well but it is heavily browsed. Ground is very hilly with depressions throughout the stand. |
| 18 | 4110 - Sugar Maple Association | Poletimber Well | 37.0 | 84 | 51-80 | Stand was selectively harvested in 2012: TS# 111-10. Stand consists of good quality hardwood. Yellow birch and red maple are scattered throughout the stand. Small pockets of raspberry exist underneath the canopy gaps. I did notice small patches of maple regeneration as well but it is heavily browsed. Ground is very hilly with depressions throughout the stand. |
| 19 | 42320 - Upland Spruce | Poletimber Medium | 6.2 | 60 | 51-80 | Stand of lowland black spruce and tamarack that surround the small pond. |
| 23 | 4130 - Aspen | Poletimber Well | 13.7 | 27 | 1-50 | Stand consists of good quality aspen. Red maple and hazel exists within the understory. A dry swale exists within the stand as well. |

| s t | Gwinn | Mgt. Unit | | Report 7 | Forested | Stands Compartment: 247 Year of Entry: 2020 |
|-------------|--|----------------------|-------|--------------|----------------------------|---|
| a n d | Level 4 Cover Type | Size Density | Acres | Stand Age | BA Range | General Comments: |
| 25 | 429 - Mixed Upland Conifers | Poletimber Well | 6.6 | 30 | 1-50 | Stand contains the Island Lake Public access site. Stand consists of mixed conifer and deciduous. Most of the stand is growing on a steep slope. Balsam and paper birch are in poor condition. Good quality red pine exists along the lake shore. Stand consists of more younger trees than old due to wind events and age. I opted to make the younger trees the parent stand as the older remnants will soon be gone. |
| 30 | 4130 - Aspen | Poletimber Well | 55.7 | 33 | Immature | Stand of younger aspen that is in good condition. |
| 31 | 6117 - Lowland Deciduous, Mixed Coniferous | Poletimber Well | 6.1 | 74 | 81-110 | Riparian corridor per previous inventory notes. Was not able to make it to this stand during inventory. |
| 32 | 6117 - Lowland Deciduous, Mixed Coniferous | Poletimber Medium | 12.3 | 74 | 51-80 | Riparian corridor per last inventory notes. I was not able to make it to this stand. |
| 33 | 4130 - Aspen | Poletimber Well | 36.5 | 45 | 81-110 | Stand was harvested in 1973. Stand consists of aspen with red maple pockets. paper and yellow birch scattered throughout the stand as well. some sugar maple too. terrain is drastic. alot of hills and potholes. most of the maple is on the southern edge of the stand. |
| 35 | 6121 - Tamarack | Poletimber Medium | 16.7 | 74 | 1-50 | Stand consists of low density tamarack with pockets of black spruce. Heavy tag alder and fir exist within the understory. Stand does contain a high water table. |
| 36 | 4139 - Aspen, Mixed Deciduous | Poletimber Well | 77.5 | 45 | 81-110 | Stand consists of aspen with maple inclusions throughout. Aspen is poorer quality. Stand was hit with a windstorm in 2005. Topography is up and down with some large pothole type depressions within the stand. Stand does contain some areas of older aspen. |
| 46 | 4119 - Mixed Northern Hardwoods | Sawtimber Well | 10.4 | 60 | 81-110 | Stand consists of pole sized red maple, a few sugar maple exist as well. Timber is poorer quality. |
| 47 | 6121 - Tamarack | Sawtimber Medium | 8.0 | 84 | 1-50 | Stand of tamarack with some black spruce mixed in. Pockets of mature black spruce exist that are dead due to mistletoe damage. The black spruce that exists within the understory is infected with mistletoe as well. Timber gets more stagnant as you move west. Do not harvest. This stand is connected to horseshoe lake and contains too sensitive of soils to manage. |
| 51 | 4113 - R.Maple, Conifer | Poletimber Medium | 18.1 | 65 | 51-80 | Stand consists of poor quality red maple with inclusions of hemlock on the southern end of the stand. Balsam fir has mostly fallen out of the stand due to budworm and wind damage. A few remnant paper birch exist as well. Stand will eventually convert over to a fir and maple mix. |
| 53 | 4191 - Mixed Upland Deciduous with Conifer | Sawtimber Well | 9.6 | 120 | 171-200 | Stand surrounds Twin Lake Public access site. A portion of the stand contains a patch of old growth hemlock. I was able to core a tree and came up with 100 years. The stand contains a mix of early successional species to the northeast. Most of the hemlock is on the western side of the stand. |

| S t | Gwin | n Mgt. Unit | | Report 7 | – Forested | Stands Compartment: 247 Year of Entry: 2020 |
|-------------|--|--------------------|-------|--------------|-------------|--|
| a n d | Level 4 Cover Type | Size Density | Acres | Stand Age | BA Range | General Comments: |
| 57 | 4112 - Maple, Beech, Cherry Association | Poletimber Well | 7.1 | 80 | 81-110 | Stand of mostly red maple and paper birch. Paper birch is declining due to age. |
| 59 | 4130 - Aspen | Poletimber Well | 58.4 | 37 | 1-50 | Stand of good quality aspen. Stand is still young and overall has smaller diameter trees. Ground is hilly throughout the stand. Balsam within the stand is in poor conditions due to budworm damage. |
| 64 | 4110 - Sugar Maple Association | Poletimber Well | 15.5 | 82 | 51-80 | Stand contains Squaw Lake Campground and public access site. This stand contains decent quality hardwood. The basal area is around 90 square feet. |
| 65 | 4110 - Sugar Maple Association | Sawtimber Well | 28.4 | 80 | 81-110 | A poor quality stand of hardwood. A fair amount of defect exists. Basal area averages 90 -100 square feet. Regeneration underneath consists of poor quality cherry and scattered white spruce. A few swales exist within the stand which contain fir, yellow birch and aspen. |
| 66 | 4130 - Aspen | Sapling Well | 21.1 | 24 | Immature | Stand of young aspen. Quality appears to be decent. |
| 67 | 4130 - Aspen | Poletimber Well | 28.0 | 51 | 81-110 | Stand consists of poorer quality aspen. Wind damage from 10+ years ago is still evident. Pockets of mature balsam also exist within the stand. |

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| Cover Type | Acres | Managed Site | General Comments: |
|--------------------------------|---|--|--|
| 3303 - Mixed Low Density Trees | 1.1 | No | Lowland depression |
| 6225 - Bog | 3.6 | No | |
| 6220 - Alder/willow | 4.9 | No | |
| 500 - Water | 3.2 | No | Small pond. |
| 330 - Low-Density Trees | 1.0 | No | Lowland depression |
| 3303 - Mixed Low Density Trees | 1.0 | No | Lowland depression |
| 6225 - Bog | 0.7 | No | |
| 330 - Low-Density Trees | 7.1 | No | Riparian corridor per last inventory notes. |
| 122 - Road/Parking Lot | 1.1 | No | Witbeck Rapids Public Access Site. |
| 330 - Low-Density Trees | 1.3 | No | Lowland depression that consists of poor quality black spruce. Black spruce has a lot of mistletoe damage. |
| 3303 - Mixed Low Density Trees | 1.8 | No | Lowland depression |
| 3303 - Mixed Low Density Trees | 3.9 | No | Lowland depression |
| 6225 - Bog | 0.7 | No | Lowland depression |
| 3303 - Mixed Low Density Trees | 1.4 | No | Lowland depression that contains a few trees. |
| 3303 - Mixed Low Density Trees | 0.8 | No | Lowland depression |
| 6220 - Alder/willow | 2.1 | No | Small wetland stand off of Horseshoe Lake. |
| 122 - Road/Parking Lot | 1.3 | No | Horseshoe Lake Public access site. |
| 6233 - Wet Meadow | 6.9 | No | |
| | 3303 - Mixed Low Density Trees 6225 - Bog 6220 - Alder/willow 500 - Water 330 - Low-Density Trees 6225 - Bog 330 - Low-Density Trees 122 - Road/Parking Lot 330 - Low-Density Trees 4330 - Low-Density Trees 6225 - Bog 3303 - Mixed Low Density Trees 6225 - Bog 3303 - Mixed Low Density Trees 6225 - Bog 3303 - Mixed Low Density Trees 6225 - Bog 3303 - Mixed Low Density Trees 6220 - Alder/willow 122 - Road/Parking Lot | 3303 - Mixed Low Density Trees 1.1 6225 - Bog 3.6 6220 - Alder/willow 4.9 500 - Water 3.2 330 - Low-Density Trees 1.0 6225 - Bog 0.7 3303 - Mixed Low Density Trees 7.1 122 - Road/Parking Lot 1.1 3303 - Mixed Low Density Trees 1.3 3303 - Mixed Low Density Trees 1.8 3303 - Mixed Low Density Trees 1.8 3303 - Mixed Low Density Trees 1.8 3303 - Mixed Low Density Trees 1.4 | 3303 - Mixed Low Density Trees 1.1 |

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| Stand | Cover Type | Acres | Managed Site | General Comments: |
|-------|--------------------------------|-------|-----------------|--------------------------|
| 61 | 3303 - Mixed Low Density Trees | 1.4 | No | |
| 62 | 3303 - Mixed Low Density Trees | 1.1 | No | Lowland depression |
| 63 | 622 - Lowland Shrub | 1.6 | No | |
| 68 | 6225 - Bog | 0.9 | No | |
| 401 | 3303 - Mixed Low Density Trees | 2.3 | No | Mixed low density trees. |