Compartment Review Presentation

Gwinn Forest Management Unit

Compartment 32217
Entry Year 2020
Acreage: 875
County Marquette
Management Area: Peshekee Highlands

Revision Date: 2018-08-06

Stand Examiner: Jason Caron

Legal Description:

T48N-R30W, Sections 6,7,18

Identified Planning Goals:

Planning goals within this compartment will consist of both timber production within the north half while allowing natural processes to occur within the southern half. Numerous Ecological Reference Areas (ERA) exist within the southern half of the compartment and will be re-inventoried in the summer of 2018. Within the areas that will be managed for timber production, stands will be managed more toward an even-aged system rather than uneven-aged due to the poorer quality timber that exists.

Soil and topography:

Soils in this compartment are comprised predominantly of the Keewaydin-Michigamme-Rock outcrop complex (KMR), and Carbondale and Tawas (CT) soils. Drainage inclusions in the DMR include poorly drainedWithbeck and Cathro soils. The CT soils are found in the remainder of the depressions and drainage ways that occure on the moraines. Topography is very rugged with steep hills and fairly deep ravines. The rocky terrain has allowed for the formation of several lakes in the area.

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

Ownership in and around the compartment is composed of primarily State and Private industry, with scattered private individual holdings. Craig Lake State Park is located immediately to the west and northwest of this compartment within Baraga County. The McCormick Wilderness Area and Van Riper State Park are both within a few miles to the north and west, respectively, of the compartment. Land use is predominately forest product production and recreation (snowmobiling, camping, hunting and fishing). There has been very little development; primarily camps around the lakes, around this compartment.

Unique Natural Features:

Rugged and rocky ground throughout most of the compartment. Numerous drainages and lakes within and around the compartment.

Archeological, Historical, and Cultural Features:

None known.

Special Management Designations or Considerations:

Portions of the compartment are currently listed as Ecological Reference Area's (ERA).

Watershed and Fisheries Considerations:

This compartment is located south of Thomas Lake and along the headwaters of Nelligan’s Creek. There are unnamed creeks and wetland areas within this compartment. 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 217 is found within the Peshekee Highlands Management Area; on a Bedrock Controlled Ground Moraine in east central Baraga and northwestern Marquette County. The dominant Natural Communities are mesic northern forest, poor conifer swamps, and boreal forests. This management area receives significant snowfall and does not offer wintering habitat for deer. As a result, many tree species that do not reliably recruit across the Ecoregion are found in numerous age classes across this management area. Additionally, three of the largest tracts of mature forest in the Great Lakes (e.g. McCormick Tract, Craig’s Lake Wilderness State Park, and the Huron Mountain Club) occur within or adjacent to this management area, the best example of a dry mesic northern forest (Rocking Chair Lakes) in the state and two of the top eight examples of Mesic Northern Forest statewide occur here. The current condition and spatial arrangement of these areas provide some of the best opportunities within the WUP, state, and Great Lakes for area sensitive wildlife requiring large tracts of mature forest, mesic conifer or corridors between such areas. Wildlife management issues in this management area are: habitat fragmentation; course woody debris; retain or develop large living and dead standing trees

(for cavities); mesic conifer; mature forest; within-stand diversity; early successional forest (hardwood browse adjacent to closed canopy lowland conifer swamps); and course woody debris.

The following have been identified as featured species for the Peshekee Highlands Management area: American marten, blackburnian warbler, gray jay, moose, northern goshawk, and pileated woodpecker.

Mineral Resource and Development Concerns and/or Restrictions

Sand/gravel pits are not located in the area, and potential appears to be limited due to shallow or exposed bedrock. The bedrock is not desirable for crushed stone but could be used for dimension stone. Abandoned iron mines are located less than two miles to the south. There is no known iron ore potential beneath the compartment, and there is no recent history of mineral leasing within the compartment. There is no potential for economical oil and gas production in the UP.

Vehicle Access:

The Craig Lake Road is the main road in the area. Access to the majority of the compartment is off of this road through private property that is gated to the general public. Within the compartment very few roads exist, and those that do are of poor quality.

Survey Needs:

Survey may be needed. More research needs to be done on stands that may be prescribed.

Recreational Facilities and Opportunities:

There is the potentail for the expansion of Craig Lake State Park using this compartment. If the private land around the remainder of Thomas Lake becomes available, it should be a high priority purchase.

Fire Protection:

Timber types within this compartment are not fire prone. However, this rugged and rocky ground is known for lightening strike fires. Access in this area is very limited. Suppression methods using portable pumps and hand tools may be more applicable and efficient within this area.

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**

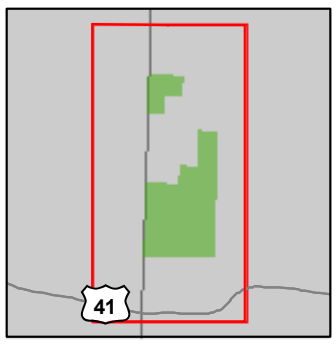
The following information is displayed, where pertinent, on the attached compartment maps:

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

Cover Type & Treatments Map

Compartment: 217
T48N, R30W, Sec. 06, 18, 19, 20

County: Marquette
Unit: Gwinn
Mgmt Area: Peshekee Highlands
YOE: 2020
Acres: 875 GIS Calculated
Examiner: Jason Caron
Map Revised: 10/18/2018
Map Phase: Pre-Review



N

- Miris Corners
- Remonumented Section Corners
- Survey Grade Corners
- Field Grade Corners
- Counties
- DNR - Secondary Forest Road
- Federal / State Highway
- Federal / State / County - Paved Road
- Federal / State - Dirt / Gravel Road
- County - Gravel Road
- Private - Dirt / Gravel Road
- Active Railroads
- Snowmobile Trails
- Designated Snowmobile Trails
- Intermittent Stream
- Island in Lake or River
- Lake/Pond
- Perennial River
- Lakes and Rivers All
- Powerline
- Compartment Boundary
- Treatments with Site Conditions
- Clearcut (w/Reserves)
- Monitoring
- 411 - Northern Hardwood
- 419 - Mixed Upland Deciduous
- 612 - Lowland Coniferous Forest
- 500 - Water
- 622 - Lowland Shrub
- Lakes

Stand Boundary Map

Compartment: 217
T48N, R30W, Sec. 06, 18, 19, 20

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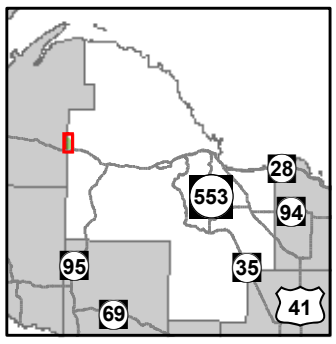
Map Revised: 8/24/2018
Map Phase: Web-Post



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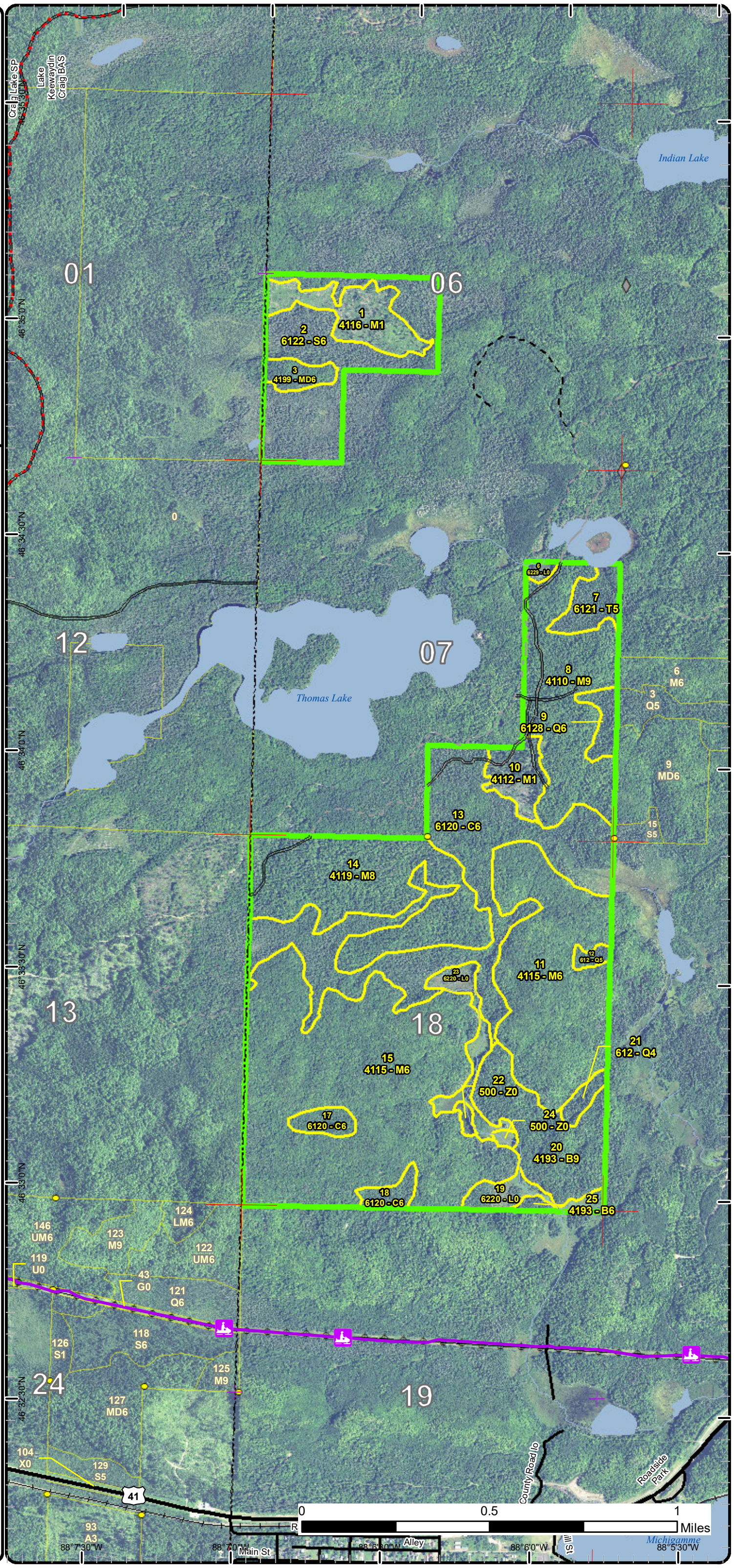

Special Conservation Areas & Site Conditions Map

Compartment: 217
T48N, R30W, Sec. 06, 18, 19, 20

County: Marquette
Unit: Gwinn
Mgmt Area: Peshekee Highlands
YOE: 2020
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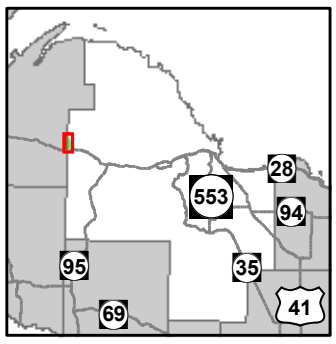

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- Snowmobile Trails
- Designated Snowmobile Trails
- Intermittent Stream
- Island in Lake or River
- Lake/Pond
- Perennial River
- Lakes and Rivers All
- Powerline
- Compartment Boundary
- Available w/ Constraints
- Unavailable
  - 2I: Survey needed
  - 2F: Too steep
  - 2G: Too wet (sensitive soils, does not include access issues)
  - 3A: Conservation Values incompatible with harvest at this time
- Stand Boundaries
- Ecological Reference Areas
- Forest Habitat Core Interior

Report 1 – Total Acres by Cover Type and Age Class

Gwinn Mgt. Unit **Compartment 217 Year of Entry 2020**

Jason Caron : Examiner

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
Cedar	0	0	0	0	0	0	0	0	0	143	0	0	0	0	0	0	0	0	**143**
Lowland Conifers	0	0	0	0	0	0	0	0	0	8	8	0	0	0	0	0	0	0	**16**
Lowland Shrub	29	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	**29**
Lowland Spruce/Fir	0	0	0	0	0	0	0	0	0	73	0	0	0	0	0	0	0	0	**73**
Mixed Upland Deciduous	0	0	0	0	0	0	0	8	0	0	0	0	0	0	0	0	0	0	**8**
Northern Hardwood	0	42	0	0	0	0	0	0	0	324	0	0	0	0	0	0	0	172	**538**
Paper Birch	0	0	0	0	0	0	0	0	0	50	0	0	0	0	0	0	0	0	**50**
Tamarack	0	0	0	0	0	0	0	0	0	14	0	0	0	0	0	0	0	0	**14**
Water	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	**4**
Total	**33**	**42**	**0**	**0**	**0**	**0**	**0**	**8**	**0**	**612**	**8**	**0**	**0**	**0**	**0**	**0**	**0**	**172**	**875**

Report 2 – Treatment Summary

Gwinn Mgt. Unit

Year of Entry: 2020

Acres of Harvest

Compartment 217

Total Compartment Acres: 875

Commercial Harvest -

Harvests with Site Condition - 148

Next Step Harvest - 0

Habitat Cut - 0

Cover Type by Harvest Method

		Clearcut	Selection	Patch Clearcut	Seed Tree	Shelterwood	Thinning	Overstory Removal	Salvage	Other	Total Acres
Northern Hardwood		148	0	0	0	0	0	0	0	0	**148**
	Total	**148**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**148**

Proposed and Next Step Treatments by Method

		Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current		148	0	0	0	0	0	324	0	0	**472**
Next Step		0	0	0	0	0	0	472	0	0	**472**
	Total	**148**	**0**	**0**	**0**	**0**	**0**	**796**	**0**	**0**	**944**

Stand	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Approval Status
8	32217008-Cut	67.8	4110 - Sugar Maple Association	Sawtimber Well	86	81-110	Harvest	Clearcut with Retention	4319 - Mixed Upland Forest	Even-Aged	Draft Proposal

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

Prescription Specs: Clearcut with retention. Do not harvest under-represented trees such as pine, hemlock & oak. Red line out a patch of mature trees to meet retention guidelines. Green tree any legacy tree or obvious wildlife tree. Depending on yellow birch density, consider harvesting some yellow birch.

Next Step Treatments: Monitoring, Natural Regen (Re-Inventory)

Acceptable Regen: maple, oak, pine, hemlock, birch.

Other Comment: Wildlife - Retain all Yellow Birch above 15” dbh – seed source and cavity nesters. Green-tree any obvious old wildlife Maples. Retain all hemlock- moose; No Chipping- American marten

Proposed Start Date: 10/01/2019

Stand	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Approval Status
14	32217014-Cut	79.8	4119 - Mixed Northern Hardwoods	Sawtimber Medium	81	51-80	Harvest	Clearcut with Retention	4319 - Mixed Upland Forest	Even-Aged	Draft Proposal

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

Prescription Specs: Clearcut with retention. Do not harvest under-represented trees such as pine, hemlock & oak. Red line out a patch of mature trees to meet retention guidelines. Green tree any legacy tree or obvious wildlife tree. Depending on yellow birch density, consider harvesting some yellow birch.

Next Step Treatments: Monitoring, Natural Regen (Re-Inventory)

Acceptable Regen: maple, birch, oak, hemlock, pine.

Other Comment: Wildlife - Retain all Yellow Birch above 12” dbh – seed source and cavity nesters. Green-tree any obvious old wildlife Maples. No Chipping- American marten; Retain all hemlock – moose

Proposed Start Date: 10/01/2019

Stand	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Approval Status
15	32217015-Monitor	324.4	4115 - Y.Birch, Hemlock NH	Poletimber Well	89	81-110	Monitoring	Invasive Species	411 - Northern Hardwood	Even-Aged	Draft Proposal

Habitat Cut: No **Site Condition:** Conservation Values

Prescription Specs: Stand is part of the Thomas Lake ERA. Monitor this stand for invasive species. Refer to the Thomas Lake ERA plan for methods of invasive species removal.

Next Step Treatments: Monitoring, Invasive Species

Acceptable Regen: maple, birch, pine, oak, hemlock.

Other Comment:

Proposed Start Date: 10/01/2019

Total Treatment Acreage Proposed: **472.0**

Report 4 – Site Conditions

Gwinn Mgt. Unit

Jason Caron : Examiner

Compartment: 217

Year of Entry: 2020

Availability for Management

Total Acres	Acres Available	*Acres Avail With Condition*	Acres Not Available		Dominant Site Conditions *2I*	2F	2G	3A
143	143	***0***	0	**Cedar**				
16	3	***0***	13	**Lowland Conifers**			13	
29	14	***0***	15	**Lowland Shrub**				15
73	0	***0***	73	**Lowland Spruce/Fir**			73	
8	8	***0***	0	**Mixed Upland Deciduous**				
538	66	***148***	324	**Northern Hardwood**	***148***			324
50	2	***0***	48	**Paper Birch**		48		
14	0	***0***	14	**Tamarack**			14	
3	3	***0***	0	**Water**				
875	240	***148***	487	Total Forested Acres	***148***	48	100	340
	27%	***17%***	56%	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**	**2G: Too wet (sensitive soils, does not include access issues)**	73	Unspecified	Unspecified	Unspecified	Unspecified
	Comments:						
2	**Unavailable**	**2G: Too wet (sensitive soils, does not include access issues)**	14	Unspecified	Unspecified	Unspecified	Unspecified
	Comments:						

3	**Unavailable**	**2G: Too wet (sensitive soils, does not include access issues)**	8	Unspecified	Unspecified	Unspecified	Unspecified
	Comments:						
4	**Unavailable**	**2F: Too steep**	48	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	Unspecified	Unspecified	Unspecified
	Comments:						
5	**Unavailable**	**2G: Too wet (sensitive soils, does not include access issues)**	5	Unspecified	Unspecified	Unspecified	Unspecified
	Comments:						
6	**Unavailable**	**3A: Conservation Values incompatible with harvest at this time**	340	Unspecified	Unspecified	Unspecified	Unspecified
	Comments: Part of the Thomas Lake ERA.						
7	**Available**	**2I: Survey needed**	80	Unspecified	Unspecified	Unspecified	Unspecified
	Comments:						
8	**Available**	**2I: Survey needed**	68	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

Comments

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
ERA	Ecological Reference Areas	Ecological Reference Areas (ERAs) are high quality examples of natural communities that have been identified as Element Occurrences (EOs) by the Michigan Natural Features Inventory (MNFI) within the context of their natural community classification system. Element Occurrences with viability ranks of A (Excellent) or B (Good) and a Global (G) or State (S) element (rarity) ranking of endangered (1), threatened (2), or rare (3) serve as an initial base of ERAs. They may be located upon any ownership in the State. The system is comprised of individual or associations of natural community types that are managed for restoration and maintenance of natural ecological processes and values. The public may submit recommendations for lands as ERAs using the DNR Conservation Area Recommendation Form.

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
1	4116 - Mixed N. Hardwood - Aspen	Sapling Poor	26.6	3	Immature	Stand harvested as "Thomas Lake Hardwood" #102-10-01 by Carey Logging Inc, cut winter of 2013-2014. Stand contains a mix of aspen, red maple stump sprouts, cherry, and fir. Regeneration is heavily browsed by moose, especially the red maple and aspen. Cherry regeneration is dense in some locations of the stand.
2	6122 - Black Spruce	Poletimber Well	73.2	87	81-110	Stand of black spruce that contains pockets of mature cedar. Most of the ground is low but a few areas do contain higher ground.
3	4199 - Other Mixed Upland Deciduous	Poletimber Well	8.1	65	51-80	Stand is growing on a rock knob and contains mostly red maple, paper birch, scattered cherry, and aspen. Fir is scattered throughout the stand but is in poor condition. Paper birch is falling out of the stand due to age.
7	6121 - Tamarack	Poletimber Medium	13.7	81	51-80	Stand consists of low density tamarack with a mix of black spruce and cedar around the perimeter. The understory consists of tag alder, cedar, and black spruce. Mistletoe exists within the stand.
8	4110 - Sugar Maple Association	Sawtimber Well	77.5	86	81-110	Selective cut in 2003, TS#101-01-01. Selective cut 1981 Permit #11-81A.Stand consists of poorer quality hardwood. Basal area is still in the 90-100 square foot range. In some locations the maple regeneration looks good, in other areas it is heavily browsed by moose. Scattered large yellow birch exist within the stand. I noticed some top dieback within the stand. I am not sure of the extent of it beings it's winter.
9	6128 - Lowland Coniferous, Mixed Deciduous	Poletimber Well	7.7	93	81-110	Did not make it to this stand during inventory but used the adjacent compartments inventory (stand 3) in C-216 to come up with age and species.
10	4112 - Maple, Beech, Cherry Association	Sapling Poor	15.2	4	Immature	Stand harvested in the winter of 2014. TS #102-10-01. Stand has regenerated to mostly red maple stump sprouts. 2-3" dbh balsam exist that were remnants from the last stand. Red maple regen is being heavily browsed by moose. I notice some fir has started to regenerate already. It's hard to tell the extent of regeneration due to the deeper snow. A few scattered large diameter white pine exist within the stand.
11	4115 - Y.Birch, Hemlock NH	Poletimber Well	105.3	86	81-110	Stand consists of poorer quality hardwood. Stand consists of mostly sugar maple to the south but then grades into more of a red maple, sugar maple, yellow birch mix to the north. Pockets of hemlock exist throughout the stand, on the higher knobs. Fir sapling understory is patchy throughout the stand. Rolling and rocky hills throughout the stand as well. Some intermittent drainages exist throughout the stand. Some large diameter trees scattered within the stand. Old cut stumps exist within the stand. Basal area ranges from 90 to 130 square feet.
12	612 - Lowland Coniferous Forest	Poletimber Medium	3.1	86		Small inclusion of low ground amongst the large hardwood type. I was not able to get to this stand to inventory it.
13	6120 - Lowland Cedar	Poletimber Well	130.2	85	51-80	Stand consists of a mix of black spruce and cedar. Scattered red maple and yellow birch exist as well. Old cut stumps exist within portions of the stand. Cedar is regenerating via. layering. Scattered large diameter cedar exist within the stand.

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
14	4119 - Mixed Northern Hardwoods	Sawtimber Medium	94.4	81	51-80	Stand harvested in the winter of 2014. TS #102-10-01.Stand consists of red and sugar maple with yellow birch scattered throughout. A few large diameter white pine exist within the stand as well. The understory consists of decent quality sugar maple, red maple, and white pine regeneration. A few nice oaks within the stand.
15	4115 - Y.Birch, Hemlock NH	Poletimber Well	219.1	89	81-110	Stand consists of sugar and red maple mixed with hemlock and yellow birch. I noticed a few individual old hemlock and yellow birch of large diameter but no patches (or stands) of old timber. Stand goes from clumps of dense hemlock to mostly maple. Evidence exist throughout the stand of past logging, numerous cut stumps exist. Ground is rugged and rocky with rock hills and valleys throughout. Some valleys are most likely intermittent drainages during the spring season. Ground is more rugged on the western half with large rock ridges. Some hemlock and cedar regeneration exists. Hemlock and balsam is getting heavily browsed by moose. Hemlock is growing mostly on the rocky knobs and ridges that exist. The maple is growing on the flats and valleys within the stand. Some small linear lowland types (mostly cedar) exist within the stand, most are too small to delineate. A few large diameter white pine exist within the stand but not enough to put down as a species. I noticed a few white pine in the SE corner of the stand that were in the 25" (or more) DBH range.
17	6120 - Lowland Cedar	Poletimber Well	6.8	81	111-140	Stand consists of mostly smaller diameter cedar with a few black ash and yellow birch mixed in. Nice cedar regeneration exists within the understory of the stand.
18	6120 - Lowland Cedar	Poletimber Well	6.3	81	111-140	Stand of pole sized cedar with young black ash and yellow birch existing in pockets within the stand.
20	4193 - Birch, Aspen	Sawtimber Well	47.7	83	81-110	Stand consists of mostly deciduous with scattered conifer. The understory is dense with fir. Rocky and hilly ground exists throughout the stand. Old aspen, paper birch, and white spruce exist. The aspen and paper birch are falling out of the stand due to old age. White spruce and balsam are in poor condition due to the budworm infestation.
21	612 - Lowland Coniferous Forest	Poletimber Poor	4.9	83		Lowland stand exists as a result of the topography. I was not able to get to this stand to do the inventory.
25	4193 - Birch, Aspen	Poletimber Well	2.1	83	51-80	Small stand that is the same cover type and age as stand 20 to the NE. Stand consists of a rock knob with a mix of deciduous and conifer species. Paper birch and aspen are falling out of the stand due to age.

Report 8 – Nonforested Stands

Stand	Cover Type	Acres	Managed Site	General Comments:
6	6229 - Mixed lowland shrub	2.2	No	Stand looks to be a former beaver pond that has since been drained.
19	6220 - Alder/willow	11.6	No	An open stand that consists of different types of lowland grasses and tag alder. The westernmost side of the stand contains stunted cedar along with tag alder. An island of spruce fir exists within the center of the stand. Beaver activity currently exists.
22	500 - Water	1.9	No	Beaver pond. I'm sure water fluctuates depending on beaver activity.
23	6220 - Alder/willow	15.3	No	Stand consists of the riparian area and stream that flow through this lowland valley. Stand is part of an existing ERA, Northern Wet Meadow EO ID 18142.
24	500 - Water	1.6	No	Beaver pond. I'm sure the water fluctuates depending on beaver activity.