



Compartment Review Presentation

Traverse City Forest Management Unit

Compartment 7

Entry Year 2016

Acreage: 2,605

County Benzie

Management Area: Benzie Moraines

Revision Date: 02/21/2014

Stand Examiner: Tim Webb

Legal Description:

T26N R14W Sec. 6

T26N R15W Sec. 1, 12

T27N R14W Sec. 21, 28-33

Identified Planning Goals:

This compartment falls within the Benzie Moraines Management Area (MA). The plan for this MA lists objectives for forest cover type management, featured wildlife species, rare species & special resource areas, etc. In brief, cover type management calls for uneven-aged management of northern hardwoods with some limited clearcutting on lower quality sites; balancing of stand age classes for even-aged types such as aspen and red pine; and opportunistic harvesting of minor cover types, including lowland forest.

In 2013, several harvests were set up in this compartment out of the normal year-of-entry primarily to remove pest-threatened ash and beech. These harvests, along with those completed in the previous inventory cycle, cover almost all the northern hardwood stands in the compartment, leaving very little acreage of this type that could be prescribed in the present cycle.

Current harvesting guidance for the MA suggests final harvest of all aspen stands in this compartment that are over 42 years old. Several small stands meet this criterion, but they all have issues with terrain, access, or proximity to other vulnerable natural resources. Some limited harvesting may be accomplished where these issues can be overcome; otherwise these stands will be allowed to succeed naturally, or slated for non-commercial habitat cuts where appropriate.

No red pine plantations meet the guidance for final harvest during this inventory cycle, but all have potential for thinning prescriptions.

The MA plan guidance calls for some harvesting in lowlands. However, the majority of such stands within the compartment are being proposed for Special Conservation Area (SCA) status for reasons given in the "Proposed SCA Details" part of this package (Report 8). A second SCA is being proposed for a remote area of northern hardwoods in combination with a lowland conifer swamp southeast of Hooker Road. Management in both proposed SCAs should be limited to fish & wildlife habitat improvement, exotic species control, or minimal improvement for recreational access.

Soil and topography:

Flat, poorly drained lowlands occupy the southwest part of the compartment along the Platte River, the North Branch of the Platte, and their tributaries. State lands abut the eastern shores of Platte and Little Platte Lakes. Lowlands are primarily Houghton-Adrian and Dair-Adrian mucks, with some histosols. Upland moraine areas in the northeast part of the compartment are gently to steeply rolling with Benzonia, Fogg-Benzonia, and Kaleva sand types. The North Branch of the Platte River drains this moraine area through a northeast-southwest oriented valley.

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

The compartment has a mixture of state and private land parcels. State land predominates to the east, with mostly private lands north, south, and west. Sleeping Bear Dunes National Lakeshore lies just to the northwest. Surrounding private lands are generally rural, with low density housing. Lake frontage on Platte and Little Platte Lakes is heavily developed. The village of Honor is just south of the compartment.

Unique Natural Features:

Much of the lowland area in the southwest part of the compartment coincides with two MNFI element occurrences, namely a rich conifer swamp and a northern fen. This area harbors an unusually high concentration of tamarack for this part of the state. Large areas of floating bog abut the lakes and water courses. The Platte River and its tributaries form a complex, braided drainage network through these lowlands.

Archeological, Historical, and Cultural Features:

There are known concerns within the compartment. All proposed management activities have taken these concerns into consideration.

Special Management Designations or Considerations:

Two blocks of land within the compartment are being proposed as Special Conservation Areas, one covering the lowlands in the southwest part of the compartment, the other covering a remote northern hardwood/lowland conifer area in the middle of the compartment.

Watershed and Fisheries Considerations:

This compartment contains portions of the Platte River, Deadstream Swamp, and the North Branch of the Platte River. The Platte River watershed is a high quality, naturally reproducing brown trout, steelhead, and coho salmon stream, with generally very high water quality. Suitable buffers (as outlined in Water Quality Management Practices on Forest Land) appear to be appropriate for the proposed treatments.

Wildlife Habitat Considerations:

Compartment 7 straddles the boundary between two glacial land types, a flat lake plain (LTA 6149) and moraine ridges (LTA 2211). State land is evenly distributed between the two land types. Habitat types found on the lake plain consist mainly of various wetlands, including stands of cedar, tamarack, lowland hardwoods, lowland brush, bogs, and a portion of Little Platte Lake. State ownership on the lake plain is mostly contiguous, whereas, state ownership on the moraine ridges is somewhat fragmented. Cover types on the ridges are predominately northern hardwoods, with several red pine plantations and a couple of small openings.

Little management has been done on state forest land situated on the lake plain for several reasons, including limited access because of high water tables and stream crossings, lack of necessity for treatment, and the fragile nature of these wetland communities. Most of this area is left to the natural processes that occur here. These include hydrologic fluctuation, wind throw, and succession. Some wildlife species associated with these ecosystems include four-toed salamander, blacked-backed woodpecker, American woodcock, bobcat, and black bear.

Management practices on the moraine ridges have been, and should continue to be, designed to perpetuate northern hardwood forests. A number of wildlife species require large acreages of contiguous northern hardwood forest to complete their life cycle. Several wildlife habitat components to look for and promote in northern hardwoods are vertical structure, standing snags, dead and down logs, diversity of tree species, and a conifer component. Some wildlife species found in this ecosystem include red-eyed vireo, broad-winged hawk, gray fox, massasauga rattlesnake, and eastern gray squirrel.

Mineral Resource and Development Concerns and/or Restrictions

Surface sediments consist of glacial outwash sand and gravel and postglacial alluvium, lacustrine (lake) sand and gravel and an end moraine of coarse-textured till. The glacial drift thickness varies between 400 and 800 feet. Beneath the glacial drift is the Devonian Antrim Shale and Traverse Group. The Traverse is used for stone and both are quarried for cement products. The nearest gravel pit is located in Section 30 and potential should be good on the uplands. This area is located northwest of the Antrim Shale gas play. The Antrim Shale appears to be pinching out and may have limited potential.

Vehicle Access:

Access is sufficient in the upland areas of this compartment off county roads. A constructed loop road through the large hardwood tract west of Ely Road requires periodic maintenance. An isolated 40-acre parcel in section 29 abuts Gudemoos Road, but timber harvesting access would likely need to be through private land. There is one gated trail in the lowland portion of the compartment accessing Platte Lake; otherwise vehicle access is limited to Platte and Indian Hill roads on the periphery, and Deadstream Road through the middle of the swamp.

Survey Needs:

Survey corners may be needed in the north part of the state ownership in section 1 to define a private inholding, and abutting private land in section 31 for potential timber harvest. Otherwise, existing corners are adequate.

Recreational Facilities and Opportunities:

There are no designated recreational facilities within this compartment. Boaters and anglers frequently access the North Branch of the Platte River where it crosses Deadstream Road. Numerous vehicles are often parked along the road shoulders and on a short spur leading to an unofficial access on the river. The remainder of the lowland forest area has difficult access, but may be used by some hunters and trappers, especially closer to county roads. Upland forests are used for mushroom picking, hunting, and other dispersed recreation. (T.M.N. 4/14/14)

Fire Protection:

This area is protected by the Traverse City Field office, with staffing at the Platte River DNR office on high fire danger days, as well as the Benzonia Fire Department.

Additional Compartment Information:

An old cabin and outhouse in disrepair are located near the southeast corner of Platte Lake on land acquired by the state in 1994.

The E1/2 W1/2 SESE fo T26N R14W Section 6 (10 acres) is desirable to acquire should it come up for sale or exchange.

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**

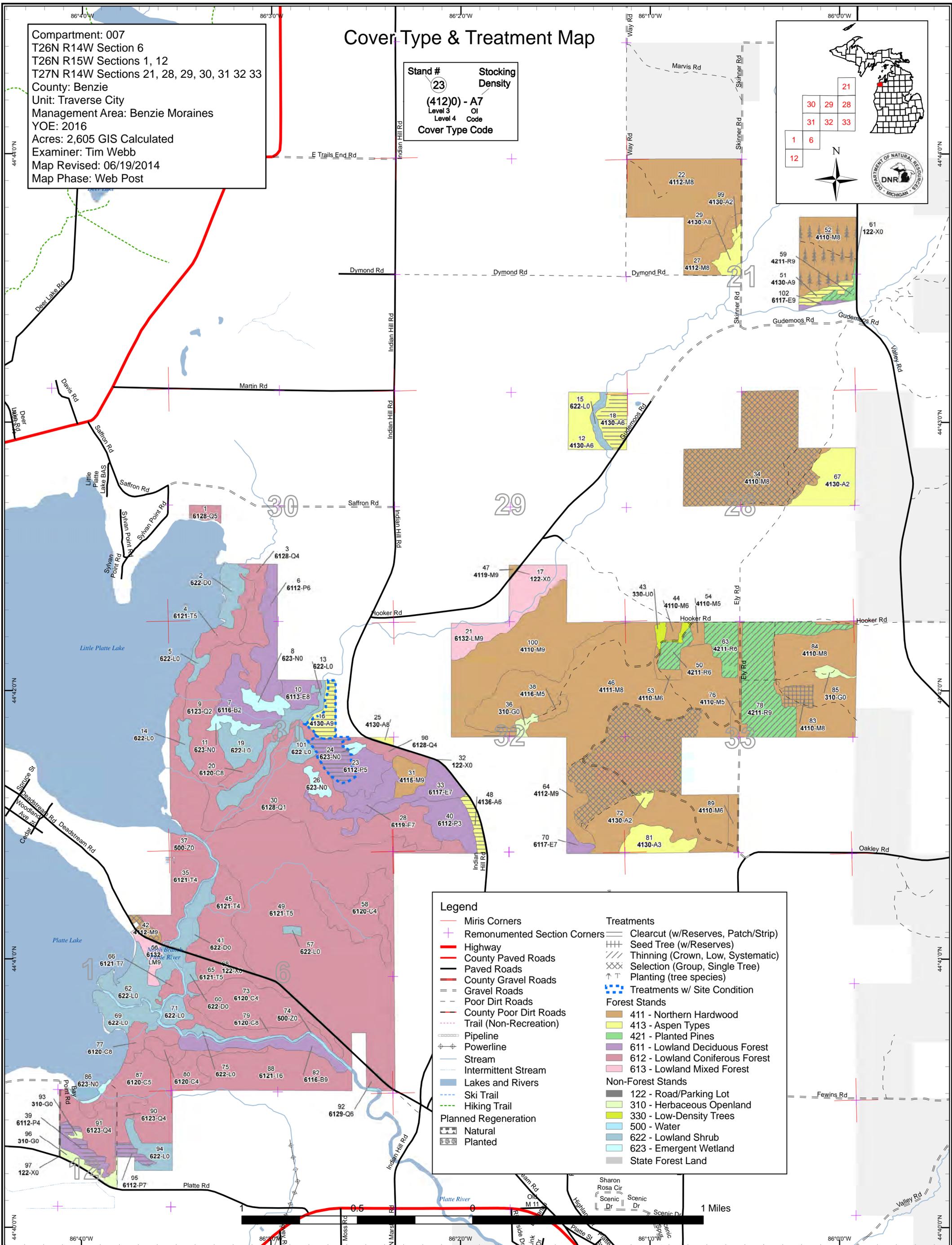
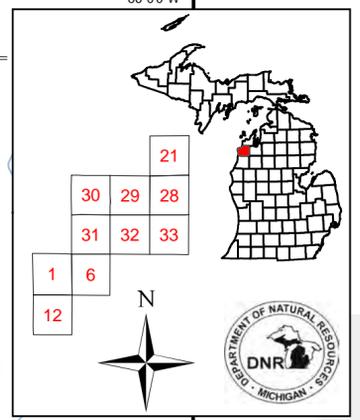
The following information is displayed, where pertinent, on the attached compartment maps:

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

Cover Type & Treatment Map

Compartment: 007
 T26N R14W Section 6
 T26N R15W Sections 1, 12
 T27N R14W Sections 21, 28, 29, 30, 31 32 33
 County: Benzie
 Unit: Traverse City
 Management Area: Benzie Moraines
 YOE: 2016
 Acres: 2,605 GIS Calculated
 Examiner: Tim Webb
 Map Revised: 06/19/2014
 Map Phase: Web Post

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



Legend

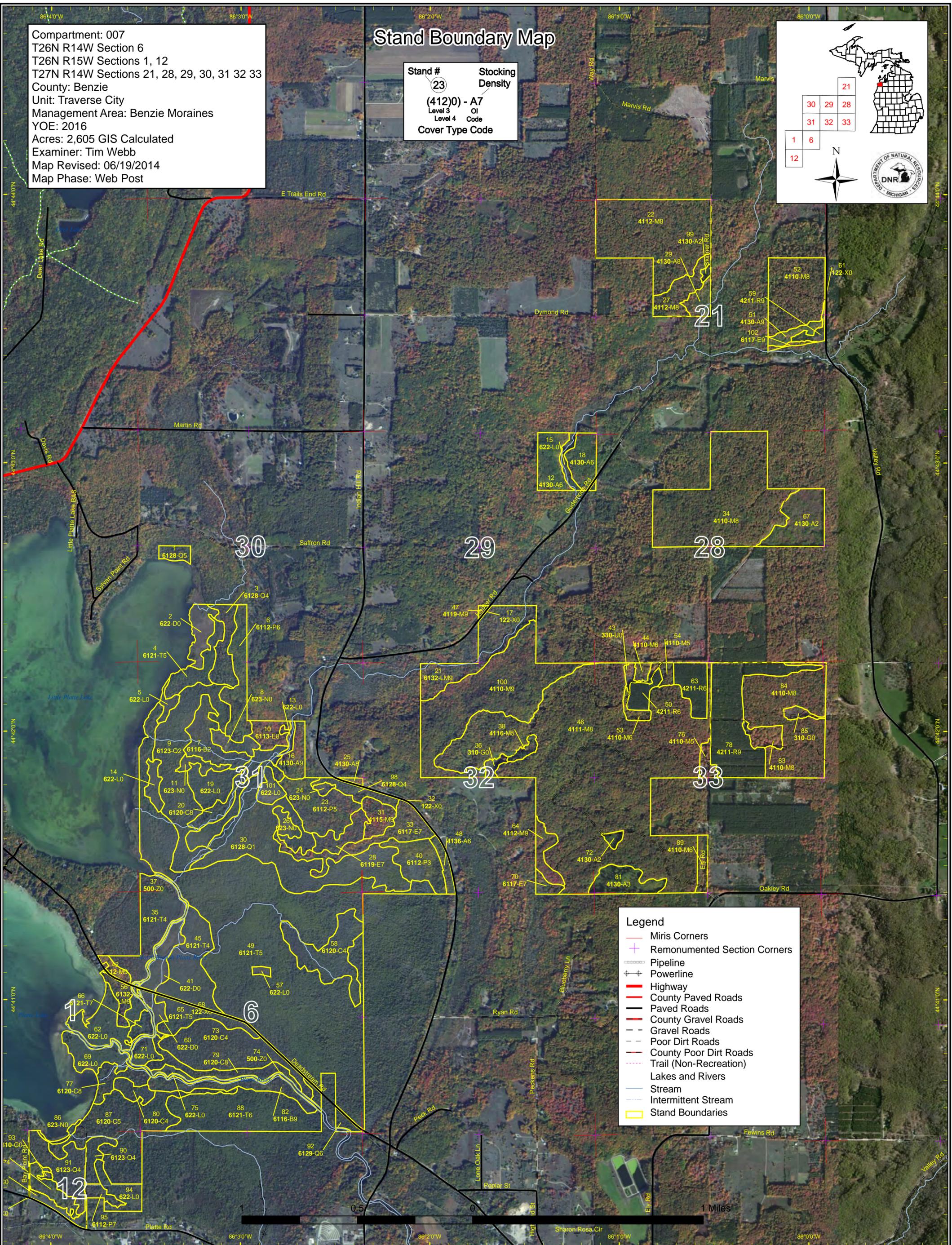
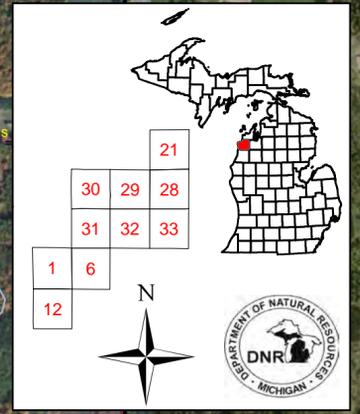
<ul style="list-style-type: none"> — Miris Corners + Remonumented Section Corners — Highway — County Paved Roads — Paved Roads — County Gravel Roads — Gravel Roads — Poor Dirt Roads — County Poor Dirt Roads — Trail (Non-Recreation) — Pipeline — Powerline — Stream — Intermittent Stream — Lakes and Rivers — Ski Trail — Hiking Trail Planned Regeneration <ul style="list-style-type: none"> — Natural — Planted 	<ul style="list-style-type: none"> — Clearcut (w/Reserves, Patch/Strip) — Seed Tree (w/Reserves) — Thinning (Crown, Low, Systematic) — Selection (Group, Single Tree) — Planting (tree species) — Treatments w/ Site Condition <p>Forest Stands</p> <ul style="list-style-type: none"> 411 - Northern Hardwood 413 - Aspen Types 421 - Planted Pines 611 - Lowland Deciduous Forest 612 - Lowland Coniferous Forest 613 - Lowland Mixed Forest <p>Non-Forest Stands</p> <ul style="list-style-type: none"> 122 - Road/Parking Lot 310 - Herbaceous Openland 330 - Low-Density Trees 500 - Water 622 - Lowland Shrub 623 - Emergent Wetland State Forest Land
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Compartment: 007
 T26N R14W Section 6
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Stand Boundary Map

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



Legend

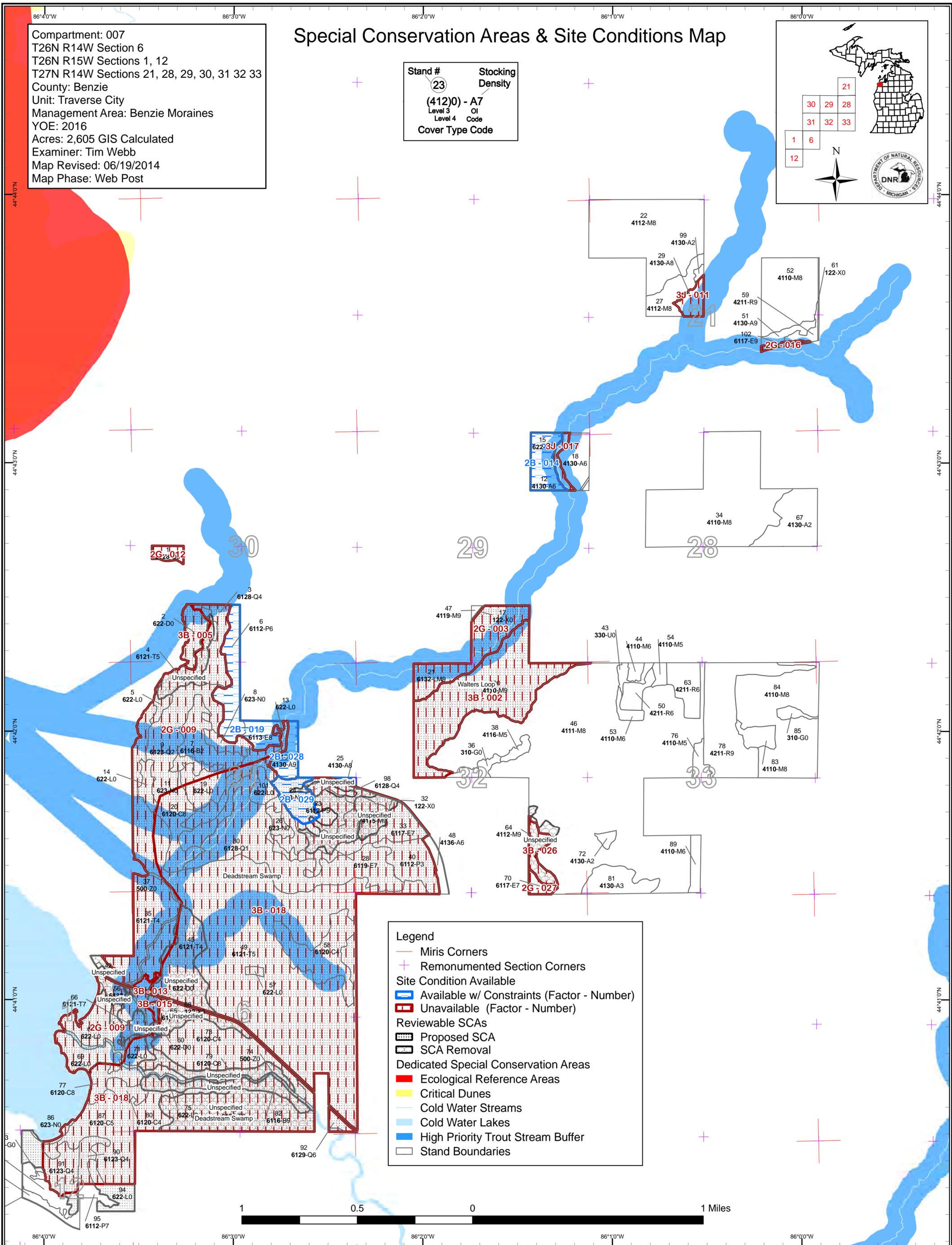
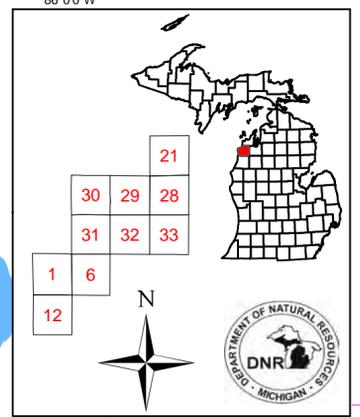
- Miris Corners
- Remonumented Section Corners
- Pipeline
- Powerline
- Highway
- County Paved Roads
- Paved Roads
- County Gravel Roads
- Gravel Roads
- Poor Dirt Roads
- County Poor Dirt Roads
- Trail (Non-Recreation)
- Lakes and Rivers
- Stream
- Intermittent Stream
- Stand Boundaries



Special Conservation Areas & Site Conditions Map

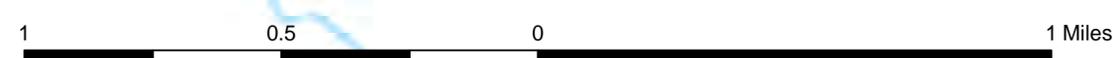
Compartment: 007
 T26N R14W Section 6
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 County: Benzie
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 Map Revised: 06/19/2014
 Map Phase: Web Post

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



Legend

- Miris Corners
- + Remonumented Section Corners
- Site Condition Available
- Available w/ Constraints (Factor - Number)
- Unavailable (Factor - Number)
- Reviewable SCAs
- Proposed SCA
- SCA Removal
- Dedicated Special Conservation Areas
- Ecological Reference Areas
- Critical Dunes
- Cold Water Streams
- Cold Water Lakes
- High Priority Trout Stream Buffer
- Stand Boundaries



Report 1 – Total Acres by Cover Type and Age Class



	Age Class														Total
	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 +	Uneven Age	
Aspen	1	52	0	0	41	26	1	0	0	0	0	0	0	0	122
Cedar	0	0	0	0	0	0	0	0	0	139	0	0	22	44	205
Herbaceous Openland	14	0	0	0	0	0	0	0	0	0	0	0	0	0	14
Low-Density Trees	4	0	0	0	0	0	0	0	0	0	0	0	0	0	4
Lowland Aspen/Balsam Poplar	0	0	0	50	33	17	0	0	0	0	0	0	0	0	100
Lowland Conifers	0	0	0	104	27	8	0	0	0	0	0	0	0	104	242
Lowland Deciduous	0	0	0	0	0	0	5	2	13	0	0	0	0	39	58
Lowland Mixed Forest	0	0	0	0	0	0	0	0	41	0	8	0	0	49	
Lowland Shrub	131	0	0	0	0	0	0	0	0	0	0	0	0	131	
Marsh	23	0	0	0	0	0	0	0	0	0	0	0	0	23	
Northern Hardwood	0	0	0	0	20	8	0	0	193	55	631	0	0	16	922
Paper Birch	0	0	0	22	0	0	0	0	22	0	0	0	0	44	
Red Pine	0	0	0	0	25	65	0	0	0	0	0	0	0	91	
Tamarack	0	0	0	0	0	0	0	0	373	87	0	41	0	38	539
Treed Bog	33	0	0	0	0	0	0	0	0	0	0	0	0	33	
Urban	11	0	0	0	0	0	0	0	0	0	0	0	0	11	
Water	17	0	0	0	0	0	0	0	0	0	0	0	0	17	
Total	235	52	0	176	145	124	1	5	568	357	631	49	22	240	2605



Report 2 – Proposed Treatment Summaries

Traverse City Mgt. Unit
Year of Entry 2016

Compartment 007
Total Compartment Acres: 2,605

Acres by Treatment Type

Commercial Harvest - 374 Tree Planting - 46 Other - 0
Habitat Cut - 21 Opening Maintenance - 0

Cover Type by Harvest Method

		<i>Clearcut</i>	<i>Selection</i>	<i>Seed Tree</i>	<i>Shelterwood</i>	<i>Thinning</i>	<i>Other - Specify</i>	<i>Total Acres</i>
	0	124	0	0	0	0	0	124
(Habitat Cut)Lowland Deciduous Forest	21	0	0	0	0	0	0	21
Aspen Types	37	0	0	0	0	0	0	37
Lowland Deciduous Forest	7	0	0	0	0	0	0	7
Northern Hardwood	3	108	8	0	0	0	0	119
Planted Pines	0	0	0	0	87	0	0	87
Total	68	232	8	0	87	0	0	395



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Treatment Name	Acres	CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
18 61007018-Cut	14.4	4130 - Aspen	High Density Pole	42		Harvest	Clearcut with Reserves	413 - Aspen	Cmpt. Review Proposal

Prescription Specs: Clearcut the stand, removing the aspen and leaving everything else. Leave a small retention island and/or riparian buffer. Would need specs to prevent rutting.

Other Comments: Consider a winter only harvest to minimize rutting risk and to provide deer browse from slash. Seasonally wet, high water table; short frontage on road. Access issues: ditch, powerline R.O.W. and shallow drainage separate bulk of the stand from the road.

Next Steps: Stand should regenerate adequately with aspen sprouts. Conduct regen checks at appropriate intervals.

Proposed Start Date: 10/01/2015

39 61007039-cut	7.4	6112 - Lowland Aspen	Low Density Pole	59		Harvest	Clearcut with Reserves	6112 - Lowland Aspen	Cmpt. Review Proposal
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Prescription Specs: Clearcut to a 2" diameter. Retain conifers & hawthorn. Consider winter only harvest to minimize rutting risk and to provide deer browse from tops.

Other Comments: Lower area at west end of stand will be left out of the sale area.

Next Steps: Stand should regenerate adequately with aspen sprouts. Conduct regen checks at appropriate intervals.

Proposed Start Date: 10/01/2015

42 61007042-Cut	3.9	4112 - Maple, Beech, Cherry Association	High Density Log	83	171-200	Harvest	Single Tree Selection	4112 - Maple, Beech, Cherry Association	Cmpt. Review Proposal
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Prescription Specs: Mark to reduce BA by about 1/3. Avoid cutting hemlock unless necessary for harvesting operation. Shortwood harvest in winter to avoid rutting risk, to provide browse from slash, and to minimize spread of garlic mustard. Create some small gaps and leave some CWD to promote hemlock regeneration.

Other Comments: Small existing opening can be used for a small landing.

Next Steps: Check at appropriate intervals for regeneration, which should include red maple seedlings, hemlock, balsam fir, and maybe some birch.

Proposed Start Date: 10/01/2015

48 61007048-Cut	5.9	4136 - Aspen, Mixed Conifer	High Density Pole	44		Harvest	Clearcut with Reserves	413 - Aspen	Cmpt. Review Proposal
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Prescription Specs: Cut all aspen, red maple, birch, and >5" fir; leave the rest. Leave a retention strip along the stream. Shortwood harvest in winter to provide browse and to minimize rutting risk.

Other Comments:

Next Steps: Stand should regenerate adequately with aspen sprouts. Conduct regen checks at appropriate intervals.

Proposed Start Date: 10/01/2015



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Treatment Name	Acres	CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
50 61007050-thin	8.5	42110 - Planted Red Pine	High Density Pole	45	171-200	Harvest	Crown Thinning	4211 - Planted Red Pine	Cmpt. Review Proposal

Prescription Mark for thinning down to a residual BA of about 120. No specific retention needed.

Specs:

Other No specific retention needed.

Comments:

Next None.

Steps:

Proposed

Start Date: 10/01/2015

51 61007051-Cut	6.5	4130 - Aspen	High Density Log	56		Harvest	Clearcut with Reserves	413 - Aspen	Cmpt. Review Proposal
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Prescription Clearcut to a 2" diameter; mark a few mixed-species trees to retain, plus leave an island uncut on steepest slope above red pine plantation. Specify to keep equipment out of adjacent stream floodplain.

Specs:

Other

Comments:

Next Check for regeneration at appropriate intervals. Stand should regenerate well with aspen sprouts; some mixed hardwood regeneration is also acceptable.

Steps:

Proposed

Start Date: 10/01/2015

55 61007055-Cut	123.5					Harvest	Single Tree Selection	4110 - Sugar Maple Association	Fld. Tr. Bdy.
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Prescription Specify to cut all ash. Mark most beech, but leave up to 10 BA (or more if needed to maintain residual BA) for habitat/mast or potential BBD resistant trees (i.e. smooth-barked, scale-free). Mark other species in addition to ash and beech to result in a residual BA of +/- 80, focusing on poor quality basswood, over-mature aspen, and forked or multi-stemmed maples. Create scattered regen holes, especially around aspen clones. Mark some trees to be felled and left for CWD.

Other

Ash are already dead or dying; beech scale is present throughout the stand.

Comments:

Next Recheck at next regular inventory for quality of regeneration and condition of older residual maple, basswood, etc.

Steps:

Proposed

Start Date: 12/03/2012

59 61007059-thin	2.7	42110 - Planted Red Pine	High Density Log	52	171-200	Harvest	Crown Thinning	4211 - Planted Red Pine	Cmpt. Review Proposal
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Prescription Mark trees to remove in swaths up & down hill; remove about 1/3 of trees.

Specs:

Other

Comments:

Next None needed.

Steps:

Proposed

Start Date: 10/01/2015



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Treatment Name	Acres	CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
63 61007063-thin	15.1	42110 - Planted Red Pine	High Density Pole	45	141-170	Harvest	Crown Thinning	4211 - Planted Red Pine	Cmpt. Review Proposal

Prescription Mark for thinning down to a residual BA of about 110-120. Focus removal on red pine trees that are bent, damaged, small dbh, doubles, etc.
Specs:

Other Comments:

Next Steps: None needed.

Proposed Start Date: 10/01/2015

78 61007078-thin	61.2	42110 - Planted Red Pine	High Density Log	54	171-200	Harvest	Crown Thinning	4211 - Planted Red Pine	Cmpt. Review Proposal
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Prescription Mark for a thinning down to a residual BA of about 120. Retain scattered cherry as much as possible.
Specs:

Other Comments:

Next Steps: None needed.

Proposed Start Date: 10/01/2015

83 61007083-Cut	7.7	4110 - Sugar Maple Association	Medium Density Log	92	81-110	Harvest	Seed Tree with Reserves	411 - Northern Hardwood	Cmpt. Review Proposal
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Prescription Mark scattered hardwoods of good quality to retain as seed trees, about 10-20 BA. Otherwise cut all trees >2" dbh. Create some CWD during harvest operations.
Specs:

Other Comments: Northwest part of mapped stand is an opening left out of the prescribed cut area.

Next Steps: Check for regeneration at appropriate intervals. A mix of hardwood species is desirable, including both seedlings and stump sprouts. If resulting regeneration is dominated by beech and ironwood, with very little maple or basswood, consider converting to open habitat or red pine.

Proposed Start Date: 10/01/2015

95 61007095-habitat cut	4.8	6112 - Lowland Aspen	Low Density Log	50		Harvest	Clearcut with Reserves	6112 - Lowland Aspen	Cmpt. Review Proposal
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Prescription Cut in winter and leave felled trees on site.
Specs:

Other Comments:

Next Steps: Check for adequate aspen regeneration at appropriate intervals.

Proposed Start Date: 10/01/2015

100 61007100-cut	2.8	4110 - Sugar Maple Association	High Density Log	103	81-110	Harvest	Clearcut with Reserves	413 - Aspen	Cmpt. Review Proposal
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Prescription Clearcut to a 2" dbh limit; retain scattered hardwoods. Create some CWD during harvest operations.
Specs:

Other Comments: Standing dead/dying ash will serve as snags.

Next Steps: Check for regeneration at appropriate intervals. Stand should regenerate well with aspen sprouts; some mixed hardwood regeneration is also acceptable.

Proposed Start Date: 10/01/2015



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Treatment Name	Acres	CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
46 ash salvage-north	104.2	4119 - Mixed Northern Hardwoods	High Density Log	87	81-110	Harvest	Single Tree Selection	4110 - Sugar Maple Association	Fld. Tr. Bdy.

Prescription Harvest all ash. Add spec to leave obvious cavity trees.
Specs:

Other
Comments:

Next None.
Steps:

Proposed
Start Date: 09/17/2012

47 61007047-Cut_Plant	6.8	4119 - Mixed Northern Hardwoods	High Density Log	87	81-110	Tree Planting	Unspecified	4110 - Sugar Maple Association	Fld. Tr. Bdy.
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Prescription
Specs:

Other 11/3/04 TLW: large, older hardwoods. Steeper slopes in places.
Comments:

Next Consider underplanting conifer seedlings post harvest to restore a conifer component to this stand. Use hemlock if feasible, and/or white pine. --
Steps: Timothy Webb : 03/17/2011 comments: follow-up if possible with WP underplanting. This will likely be a low priority FTP, given limited funding for reforestation, but might be accomplished if there are willing volunteers (e.g. Boy Scouts, sportsman's club). See FTP #C-61-574.

Proposed
Start Date: 03/17/2011

52 61007052-Cut_Plant	39.4	4110 - Sugar Maple Association	Medium Density Log	98	51-80	Tree Planting	Hand Plant	4110 - Sugar Maple Association	Fld. Tr. Bdy.
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Prescription
Specs:

Other
Comments:

Next Consider underplanting conifer seedlings post harvest to restore a conifer component to this stand. Use hemlock if feasible, and/or white pine. --
Steps: Timothy Webb : 03/17/2011 comments: follow-up if possible with WP underplanting. This will likely be a low priority FTP, given limited funding for reforestation, but might be accomplished if there are willing volunteers (e.g. Boy Scouts, sportsman's club). See FTP #C-61-574.

Proposed
Start Date: 03/17/2011

**Total Treatment
Acreage Proposed: 414.8**



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Treatment Name	Acres	CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
16 61007016-cut	10.3	4130 - Aspen	High Density Log	59	81-110	Harvest	Clearcut with Reserves	413 - Aspen	Cmpt. Review Proposal
<p><u>Prescription Specs:</u> Cut all aspen, birch, and maple; cut all BF >5" dbh, leave all smaller BF as much as possible. May need an uncut buffer adjacent to stream valley if mapped lowland stand is insufficient.</p> <p><u>Other Comment:</u> The only viable access is across private land. Winter shortwood harvest may be best to prevent rutting and to provide deer browse from slash.</p> <p><u>Next Steps:</u> Recheck stand post-harvest for regeneration success. Stand should regenerate adequately with aspen sprouts, balsam fir volunteers, and some red maple stump sprouts.</p> <p><u>Proposed Start Date:</u> 10/01/2015</p> <p><u>Limiting Factor</u> 2B: Unknown if access through adjacent landowner(s) is possible</p>									

23 61007023-habitat cut	15.7	6112 - Lowland Aspen	Medium Density Pole	45		Harvest	Clearcut with Reserves	6112 - Lowland Aspen	Cmpt. Review Proposal
<p><u>Prescription Specs:</u> Cut aspen and balsam fir >5" dbh, preferably in winter, to provide browse from tree tops as well as future root sprouts. Leave fir <5" and all other species standing.</p> <p><u>Other Comment:</u> Prescription is non-commercial harvest. However, the treatment could be attached, if feasible, as a supplement to an adjacent potential (but factor limited) commercial harvest. If so, specify short-wood sale so tops are left on site, plus some CWD. Otherwise, cut non-commercially and leave whole trees on site.</p> <p><u>Next Steps:</u> Check for expected aspen/fir regeneration at appropriate intervals.</p> <p><u>Proposed Start Date:</u> 10/01/2015</p> <p><u>Limiting Factor</u> 2B: Unknown if access through adjacent landowner(s) is possible</p>									

Total Treatment Acreage Proposed: 26.0

Report 5 – Site Conditions

Traverse City Mgt. Unit

Tim Webb : Examiner

Compartment 007

Year of Entry 2016

Availability for Management

Total Acres	Acres Available	Acres Not Available		Dominant Site Conditions						
				Un	No	4A	3J	3B	2G	2B
121	113	8	Aspen		82	1	8			30
205	0	205	Cedar		0			205	0	
100	59	41	Lowland Aspen/Balsam Poplar		17			41		42
242	10	233	Lowland Conifers		10			167	66	
58	11	47	Lowland Deciduous					41	6	11
49		49	Lowland Mixed Forest						49	
921	794	127	Northern Hardwood	3	794			125		
44		44	Paper Birch					22	22	
91	90	0	Red Pine	0	90					
538		538	Tamarack					448	91	
2,370	1,077	1,293	Total Forested Acres	3	993	1	8	1,047	235	83
	45%	55%	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
002	Not Available	3B: Threatened, endangered, and special concern species/communities	103	3A: Potential old growth / biodiversity	2B: Unknown if access through adjacent landowner(s) is possible	2F: Too steep	
Comments: Parts of stand too steep or across wet draws. This area could be nominated as a SCA.							
003	Not Available	2G: Too wet (sensitive soils, does not include access issues)	41	3H: Deer Wintering Areas			
Comments: cedar swamp							

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005	Not Available	3B: Threatened, endangered, and special concern species/communities	13	2G: Too wet (sensitive soils, does not include access issues)	4A: No merchantable products (see product standards)	
Comments: MNFI listed element occurrence: northern fen community.						
007	Available	4A: No merchantable products (see product standards)	1			
Comments: Less than 1 acre of state timber with difficult operability.						
009	Not Available	2G: Too wet (sensitive soils, does not include access issues)	288	3J: Water quality / BMPs (stream, river, or lake)	5D: Unproductive Forest Land	3H: Deer Wintering Areas
Comments: Area includes extensive lowland conifer blowdown stands, streams/rivers, lowland brushlands, some floating bog.						
011	Not Available	3J: Water quality / BMPs (stream, river, or lake)	8	3B: Threatened, endangered, and special concern species/communities		
Comments: Stream crosses SE corner of stand, plus several ditches/natural drainages within stand, making operability extremely difficult if rutting/water quality issues are to be avoided.						
012	Not Available	2G: Too wet (sensitive soils, does not include access issues)	6	2B: Unknown if access through adjacent landowner(s) is possible	3J: Water quality / BMPs (stream, river, or lake)	2I: Survey needed
Comments: Small, land-locked lowland parcel on Little Platte Lake.						

Report 5 – Site Conditions

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013	Not Available	3B: Threatened, endangered, and special concern species/communities	2	2G: Too wet (sensitive soils, does not include access issues)	4A: No merchantable products (see product standards)	
Comments: MNFI listed element occurrence: northern fen community.						
014	Available	2B: Unknown if access through adjacent landowner(s) is possible	19			
Comments: Even if mgmt. access is attainable across private land to the west, there are some wet draws in the stand that should probably be left alone, as well as a possible riparian buffer. Access from north or south is not feasible because of terrain.						
015	Not Available	3B: Threatened, endangered, and special concern species/communities	2	2G: Too wet (sensitive soils, does not include access issues)	4A: No merchantable products (see product standards)	
Comments: MNFI listed element occurrence: northern fen community.						
016	Not Available	2G: Too wet (sensitive soils, does not include access issues)	2	3J: Water quality / BMPs (stream, river, or lake)	3H: Deer Wintering Areas	3B: Threatened, endangered, and special concern species/communities
Comments: Streamside - riparian.						
017	Not Available	3J: Water quality / BMPs (stream, river, or lake)	5	4A: No merchantable products (see product standards)		
Comments: floodplain of N. Branch Platte River						

Report 5 – Site Conditions

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018	Not Available	3B: Threatened, endangered, and special concern species/communities	1,002	2G: Too wet (sensitive soils, does not include access issues)	3H: Deer Wintering Areas	3J: Water quality / BMPs (stream, river, or lake)
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Comments:

MNFI lists this area as an element occurrence: rich conifer swamp community.

019	Available	2B: Unknown if access through adjacent landowner(s) is possible	38			
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Comments:

026	Not Available	3B: Threatened, endangered, and special concern species/communities	10	3L: Other wildlife concerns		
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Comments:

027	Not Available	2G: Too wet (sensitive soils, does not include access issues)	5			
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Comments:

028	Available	2B: Unknown if access through adjacent landowner(s) is possible	12			
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Comments:

Report 5 – Site Conditions

Traverse City Mgt. Unit

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Compartment 007

Year of Entry 2016

029	Available	2B: Unknown if access through adjacent landowner(s) is possible	16	3B: Threatened, endangered, and special concern species/communities
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Comments:

Part of a proposed SCA focused on a MNFI-listed rich conifer swamp. However, cutting is proposed here to enhance winter deer habitat in this locally important deer yarding area.



Report 6 – 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
Walters Loop	Habitat Areas or Corridors	Other Habitat Area	SCA	143.7
Comments				
Proposed for a New SCA due to difficult management access, high quality northern hardwoods of advanced age, multiple species of concern, and potential future habitat values. Habitat-related management should remain a possibility in this area.				
Deadstream Swamp	Habitat Areas or Corridors	Other Habitat Area	SCA	1340.8
Comments				
Proposed for SCA status, coincident MNFI EOs. Poor access and low timber productivity. Wildlife depends on this area for winter cover. This SCA should be left unmanaged beyond habitat improvement, exotic species control, and improved recreational access				



Report 7 – 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	Archaeological Site	An aquatic or terrestrial area of the State that contains physical remains of human occupation. These are sites of cultural and historical significance that may occur upon terrestrial areas and Great Lakes bottomlands. They include thousands of Native American settlements and burial sites, as well as French and British outposts, nineteenth century logging camps, mines and homesteads. Beneath the waters of the Great Lakes, there are shipwrecks and other remains documenting the maritime trade. Such sites may be identified by Natural heritage data from the State Historic Preservation Office. Proposed treatments in this compartment will be implemented in such a manner as to maintain the integrity of these sites. Due to the sensitive nature of this information, no further detail about location is available.
SCA	Cold Water Lake	A coldwater lake has temperature and dissolved oxygen conditions that allow naturally-reproduced or stocked trout populations and those of other coldwater fish species to persist from year to year. Suitable conditions for coldwater fishes may occur in Michigan lakes if they are relatively deep, have substantial groundwater inflows, or are located in colder (northern) areas of the state. Such lakes are established by Director's action and designated as trout resources by Fisheries Order 200.
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.
SCA	Riparian Area	A transitional area between aquatic and terrestrial ecosystems in which the terrestrial ecosystem influences the aquatic ecosystem and vice-versa. Because of the unique conditions adjacent to lakes, streams and open water wetlands, riparian areas harbor a high diversity of plants and wildlife. Riparian communities are ecologically and socially significant in their effects on water quality and quantity, as well as aesthetics, habitat, bank stability, timber production, and their contribution to overall biodiversity.



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
1	6128 - Lowland Coniferous, Mixed Deciduous	Medium Density Pole	5.5	Uneven Age		Lots blowdown; doghair BF saplings. Tried coring a WP and WC -- both punky cores and tight rings, but both well over 100, probably 125+ yrs. old.
3	6128 - Lowland Coniferous, Mixed Deciduous	Low Density Pole	16.6	Uneven Age		Blowdown swamp w/remnant WP/RM/et al., thick BF regen and BA, a few WC/BS/EH. BF sapling age may reflect blowdown date.
4	6121 - Tamarack	Medium Density Pole	16.3	85		mixed saplings include black ash, paper birch, red maple
6	6112 - Lowland Aspen	High Density Pole	26.6	38		A few old remnant basswood, b. ash, hemlock along with cedar among A/BF regen from past cut.
7	6116 - Lowland Birch	Medium Density	22.4	37		
9	6123 - Lowland Fir	Medium Density	66.7	Uneven Age		Formerly understory cedar now share canopy w/BF saplings after blowdown/regen event.
10	6113 - Lowland Maple	Medium Density Log	10.8	Uneven Age	51-80	Some CWD; overmature aspen, a few hemlock, paper birch, yellow birch, cherry & basswood. Deer wintering area.
12	4130 - Aspen	High Density Pole	18.5	42		Ridge and valley, very hilly. Traces of hemlock, red oak, cherry, and yellow birch.
16	4130 - Aspen	High Density Log	11.7	59	81-110	Hummocky, puddles in places. Natural opening SW corner w/AO, CC, filling in with BF. Some of the aspen is bigtooth. Three large white pines are near the river.
18	4130 - Aspen	High Density Pole	16.2	42		Some conks on aspen. Some ash, sugar maple, paper birch, elm and yellow birch, but not 2 % of any of these. A little older aspen patch on south end. Year of origin per OI: 1971 north end, 1957 south end. Misc. subcanopy conifers are cedar, hemlock, fir, and white pine.
20	6120 - Lowland Cedar	Medium Density Log	9.8	135		
21	6132 - Mixed Lowland Forest with Cedar	High Density Log	40.9	91	111-140	Lots of poison ivy. Some big quaking aspen. Occasional black cherry.
22	4112 - Maple, Beech, Cherry Association	Medium Density Log	92.9	83	51-80	Trace of YB. Some cavity trees. Some big aspen, beech. Scattered regen pockets. Trace of BC and WA.
23	6112 - Lowland Aspen	Medium Density Pole	33.4	45		Standing dead ash, elm. Fir understory is denser in the west end of the stand. There is a patch of more concentrated hardwoods/less aspen in the northeast part of the stand. Aspen age varies from mid-30s to mid-40s because of extended cutting period in the stand from 1969-1977.



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
25	4130 - Aspen	Medium Density Log	1.2	60		aspen age estimated from difficult ring count stand includes cleared right of way for county road
27	4112 - Maple, Beech, Cherry Association	Medium Density Log	17.4	85	51-80	Trace of YB, BC.
28	6119 - Mixed Lowland Deciduous Forest	Low Density Log	12.8	95		This is a dying stand of mature black ash. Some of the ash are still alive, or have dead tops & stem sprouting. Stand may be essentially non-forested in a year or two. Trace amounts of paper birch, cedar, and q. aspen present.
29	4130 - Aspen	Medium Density Log	8.2	54		Traces of ash, basswood, yellow birch, elm, black cherry.
30	6128 - Lowland Coniferous, Mixed Deciduous	Low Density Sapling	103.8	35		sparse mixed regen in old blowdown, some remnant cedars
31	4115 - Y.Birch, Hemlock NH	High Density Log	11.5	Uneven Age	171-200	"Upland", but hummocky, high water table. Very little seedlings, saplings. Hemlock age estimated from ring count. Deer yard.
33	6117 - Lowland Deciduous, Mixed Coniferous	Low Density Log	28.0	Uneven Age		Some winter deer use. Lots of blowdown. Scattered old white pine. Good mixed regeneration in open gaps; mixed conifer saplings includes hemlock, cedar, white pine, black spruce. 2004 comments: Much of type is on slight ridges in swamp. Variable type, but large old RM throughout.
34	4110 - Sugar Maple Association	Medium Density Log	125.7	108	81-110	Trace of hemlock near road; also scattered elm, bigtooth aspen.
35	6121 - Tamarack	Low Density Pole	37.7	Uneven Age		Pitcher plant, labrador tea, leatherleaf. Floating bog. Patches of phragmites. May be some poison sumac, but unsure of ID.
38	4116 - Mixed N. Hardwood - Aspen	Medium Density Pole	4.0	58	1-50	1 red oak log. Scattered log sized trees but mostly M regen.
39	6112 - Lowland Aspen	Low Density Pole	11.6	59		Standing dead/dying ash throughout. Age is from older/larger aspen; there are smaller/younger aspen present which spread from the original clones to fill adjacent open areas. Mixed shrubs include honeysuckle, red osier dogwood, high-bush cranberry, hawthorn, and some autumn olive. Scattered cedar, fir. Red maple is mostly in the west end.
40	6112 - Lowland Aspen	High Density Sapling	23.2	32		May be partly old habitat cut. BF seedlings. Some patches WC seedlings. Lots of CWD. A few elm.
42	4112 - Maple, Beech, Cherry Association	High Density Log	4.1	Uneven Age	171-200	High water table, numerous depressions/puddles. Some CWD. The 3% for yellow birch includes cherry, beech, paper birch, and red oak. Small clearing with some concrete foundation, old outhouse pad, old utility pole (former park??). Garlic mustard is encroaching from the adjacent private land to the northwest.



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
44	4110 - Sugar Maple Association	High Density Pole	3.1	48	1-50	Multiple dead and live apple trees. Lilac hedge. Stand has many dead or dying white ash (these are not included in the stand BA).
45	6121 - Tamarack	Low Density Pole	40.6	115		2014: viewed/updated from roadside. Phragmites along the road. Some Michigan holly. 2004 comments: Boggy. Numerous WC seedlings 1-5'. Dense rings on tamarack - hard to count accurately. Some poison sumac.
46	4111 - S.Maple, Hard Mast Association	Medium Density Log	389.0	103	81-110	North 1/2, m/l north of loop road, was select harvested 5/08 through 3/10; some live ash remaining as of 12/13, but not expected to live much longer. South 1/2: salvage sales in 2013-2014 to remove all ash; south 1/3 of sale area done Dec. 2013, north 2/3 pending harvest. Canopy includes small numbers of cherry, hemlock, ironwood, & elm trees.
47	4119 - Mixed Northern Hardwoods	High Density Log	0.9	87	81-110	Low & wet along the road and powerline R.O.W.
48	4136 - Aspen, Mixed Conifer	High Density Pole	5.9	44		Heavy winter deer use. Several old white pines.
49	6121 - Tamarack	Medium Density Pole	357.1	82		Light blowdown. A few witches brooms on BS. Some WP in SE part of stand. Scattered paper birch, poison sumac, winterberry, black spruce and cedar seedlings. Poor winter cover; no deer sign.
50	42110 - Planted Red Pine	High Density Pole	8.5	45	171-200	Row-thinned summer 2008.
51	4130 - Aspen	High Density Log	6.5	56		Trace of AB, BC, WA.
52	4110 - Sugar Maple Association	Medium Density Log	46.5	98	51-80	Traces of BC, IW, Bass, YB, QA.
53	4110 - Sugar Maple Association	High Density Pole	4.2	45	1-50	Hardwood regen poles and saps with occassional log. Stand has many dead or dying white ash (these are not included in the stand BA).
54	4110 - Sugar Maple Association	Medium Density Pole	3.6	53	51-80	Lots of SM saplings into canopy. Scattered old apple trees, black cherry poles, autumn olive. Stand has many dead or dying white ash (these are not included in the stand BA).
56	6132 - Mixed Lowland Forest with Cedar	High Density Log	8.1	110	81-110	Dead ash; scattered cedar & hemlock seedlings. 2004: age approximated from poor ring count.
58	6120 - Lowland Cedar	Low Density Pole	36.6	Uneven Age		moderate blowdown WC and BA have dead tops
59	42110 - Planted Red Pine	High Density Log	4.3	52	171-200	1/2 acre grassy opening in SE corner. Austrian pine component is adjacent to the road on the bank.



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
63	42110 - Planted Red Pine	High Density Pole	16.7	45	141-170	Thinned summer 2008. Stand has a 0.8 acre block of very poor quality hybrid pine (Austrian x Japanese red) toward the south end with a thick hardwood understory. Mean of 6 BA plots = 152. Several bent/broken trees from winter storm damage; also some old weeviling and porcupine damage in places. Small strip of old sugar maple along north edge of stand. The SM understory is patchy, mostly under the Austrian pine.
64	4112 - Maple, Beech, Cherry Association	High Density Log	10.4	102	111-140	Trace amounts of red oak, basswood. Numerous standing dead white ash. Stand is on lower slope of a large hardwood area.
65	6121 - Tamarack	Medium Density Pole	18.1	92		Labrador tea, skunk cabbage, scattered black spruce poles. Phragmites along road.
66	6121 - Tamarack	Low Density Log	5.5	99		
67	4130 - Aspen	Medium Density	30.8	15		Many semi-open patches. No snags/residuals from previous harvest. Mixed deciduous saplings = cherry, ironwood, ash.
70	6117 - Lowland Deciduous, Mixed Coniferous	Low Density Log	4.5	76	1-50	Small openings with cattails. Much of the standing timber is dead or dying, especially ash. Mixed deciduous regen. includes beech, yellow birch & ironwood.
72	4130 - Aspen	Medium Density	2.7	11		
73	6120 - Lowland Cedar	Low Density Pole	53.2	97		Standing dead black ash poles; canopy changed to more cedar dominance with a lower canopy closure than in 2004 survey because of ash die-off. 2004 comments: Some blowdown. Skunk cabbage. Alder thick in canopy gaps.
76	4110 - Sugar Maple Association	Medium Density Pole	5.4	46	1-50	This is an old field, with scattered dead fruit trees, succeeding to hardwoods; has a mix of dense maple regeneration and open patches, with a row of mature, planted sugar maple along both sides of the road. Standing dead ash. Mixed red pine and Scotch pine saplings and poles.
77	6120 - Lowland Cedar	Medium Density Log	12.1	137		Lots of skunk cabbage. Much blowdown.
78	42110 - Planted Red Pine	High Density Log	61.2	54	171-200	Stand was thinned in 1998 according to OIPC. TSC-8-96. Stand has some old sugar maple along north edge and some scattered black and pin cherry.
79	6120 - Lowland Cedar	Medium Density Log	18.2	94		Standing dead, dying ash; canopy giving way to cedar. Alder pockets along the river. 2004 comments: Lots of blowdown. Some very large WC in patches.
80	6120 - Lowland Cedar	Low Density Pole	7.3	Uneven Age		lots blowdown; skunk cabbage



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
81	4130 - Aspen	High Density Sapling	18.6	14		Some paper birch, white ash and sugar maple saplings; scattered rubus patches. Supercanopy of remnant mature red oak. Small amount of autumn olive along west edge. Some small openings.
82	6116 - Lowland Birch	High Density Log	21.8	94		Type includes a couple stretches of alder along river. Older blowdown, not as difficult walking as other stands nearby. difficult ring count on birch -- best guess
83	4110 - Sugar Maple Association	Medium Density Log	8.7	92	81-110	Some of the canopy gaps are filling in with saplings and seedlings. West side has some red pine volunteer saplings.
84	4110 - Sugar Maple Association	Medium Density Log	82.2	89	51-80	Some forbs, moderate cwd, occassional snag.
87	6120 - Lowland Cedar	Medium Density Pole	67.7	95		lots of blowdown in patches
88	6121 - Tamarack	High Density Pole	63.3	91		relatively little blowdown
89	4110 - Sugar Maple Association	High Density Pole	7.0	45	51-80	Single row of mature, planted sugar maple along the road. Standing dead/dying white ash (not included in BA). Small number of black walnut trees at south end (10-12" dbh). Scotch pine is mostly in a 1/2 acre planted block in the NE part of the stand.
90	6123 - Lowland Fir	Low Density Pole	8.4	51		Standing dead/dying ash was the previous overstory; understory fir, etc. is now the overstory. Some of the ash have live stem suckers.
91	6123 - Lowland Fir	Low Density Pole	26.6	46		Standing dead/dying ash was the previous overstory; understory fir, etc. is now the overstory. Some of the ash have live stem sprouts. Scattered white pine. Some areas without conifer cover; just dead ash and brush.
92	6129 - Mixed Coniferous Lowland Forest	High Density Pole	5.3	Uneven Age		2014 reinventory from roadside observation. Standing dead ash.
95	6112 - Lowland Aspen	Low Density Log	5.0	50		Some big, wolfy open grown aspen. Aspen is in poor condition; some mortality. Standing dead/dying black ash, some with live suckers.
98	6128 - Lowland Coniferous, Mixed Deciduous	Low Density Pole	9.5	Uneven Age		Part of this stand was a past habitat cut. Small amounts of yellow birch, elm. Lots of cedar is dead or has dead tops.
99	4130 - Aspen	Medium Density	1.3	3		Stand originated from patch clearcut in 7/2010. Scattered residual sugar maple, beech, yellow birch and hemlock, mostly on steep bank along road.

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Traverse City Mgt. Unit

Report 8 – Forested Stands

Compartment: 007
Year of Entry: 2016



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
100	4110 - Sugar Maple Association	High Density Log	105.6	103	81-110	Dead/dying white ash. 2004 comments: Some aspen has shelf fungi and some are over 20" in diameter and concentrated somewhat in draws. Some slash and windfall and decent cwd. Lots of relief in topography. Moderate amount of snags.
102	6117 - Lowland Deciduous, Mixed Coniferous	High Density Log	1.7	88		Riparian area.



Stand	Cover Type	Acres	Managed Site	Management Priority (Objective)	General Comments:
2	6224 - Treed Bog	13.8	No	Low	Floating bog, stunted cedar. Some pitcher plant. Phragmites invading.
5	6220 - Alder/willow	4.1	No	Low	
8	6233 - Wet Meadow	7.9	No	Low	
11	6233 - Wet Meadow	5.5	No	Low	appears same as preinv. stand #7 on imagery
13	6220 - Alder/willow	2.9	No	Low	Numerous standing dead cedar, blowdown. Stream bottoms.
14	6220 - Alder/willow	6.8	No	Low	
15	6220 - Alder/willow	5.1	No	Low	Inactive beaver ponds along N. Branch Platte River. Numerous snags, down logs.
17	122 - Road/Parking Lot	0.7	No	Low	Gudemoos Rd.
19	6220 - Alder/willow	36.2	No	Low	
24	6239 - Mixed Emergent Wetland	2.1	No	Low	Old habitat cut. Numerous snags.
26	6230 - Cattail	5.3	No	Low	Mixed sparse seedlings and saplings. Lots of standing dead ash, dying b. spruce poles. Marsh marigolds.
32	122 - Road/Parking Lot	2.2	No	Low	Indian Hill Rd.
36	3102 - Grass	3.4	No	Low	
37	50 - Water	3.8	No	Low	N. Branch Platte River
41	6224 - Treed Bog	13.9	No	Low	Floating bog mat, stunted WC & T. Pitcher plant. Phragmites along the road.
43	3301 - Low Density Deciduous Trees	4.5	No	Low	Old field filling in with hardwoods.



Stand	Cover Type	Acres	Managed Site	Management Priority (Objective)	General Comments:
57	6220 - Alder/willow	1.8	No	Low	Scattered cedar, tamarack, and black spruce seedlings. Ground cover and some of the tree/shrub cover info is from 2004 inventory. 2004 comments: Old habitat cut - no sign of deer browsing, though abundant dogwood. Adjacent cover marginal. Unlisted plant = unidentified ferns.
60	6224 - Treed Bog	5.8	No	Low	Floating bog with pitcher plant, stagnant tamarack. (Fen?)
61	122 - Road/Parking Lot	1.1	No	Low	Valley Rd.
62	6220 - Alder/willow	26.8	No	Low	skunk cabbage
68	122 - Road/Parking Lot	6.1	No	Low	Deadstream Rd.
69	6220 - Alder/willow	17.1	No	Low	Lots of skunk cabbage.
71	6220 - Alder/willow	7.3	No	Low	Viewed from across river to southwest. Very similar to preinv. stand 63 on imagery.
74	50 - Water	12.7	No	Low	Platte River and lower stretch of N. Branch Platte River
75	6220 - Alder/willow	2.9	No	Low	Viewed from across river to south.
85	3103 - Rubus-Fern	3.6	No	Low	
86	6233 - Wet Meadow	2.1	No	Low	Waterfowl loafing area along this shore. Mouth of a stream here.
93	3102 - Grass	1.0	No	Low	
94	6220 - Alder/willow	13.0	No	Low	Standing dead/dying black ash.
96	3102 - Grass	6.3	No	Low	Scattered spruce saplings, black cherry poles, dead ash. Mixed fruiting shrubs include mostly honeysuckle, plus highbush cranberry, red osier dogwood, hawthorn, autumn olive, and grape.
97	122 - Road/Parking Lot	1.0	No	Low	Platte Rd.
101	6220 - Alder/willow	7.4	No	Low	Mixed lowland conifers = WC, BF, T.