



**TRAVERSE CITY FOREST MANAGEMENT UNIT
COMPARTMENT REVIEW PRESENTATION**

COMPARTMENT # 015 ENTRY YEAR: 2014

Compartment Acreage: 1190 County: Benzie

Stand Examiner: Timothy Webb

Legal Description: T26N - R14W - Sections 22-24, 26, 31-33, 35-36

Management Goals: There are numerous conifer plantations of various species throughout the compartment. Red pine plantations predominate, are growing well and should be maintained with periodic thinnings. One forty acre block was recently final-harvested and replanted to red pine; other blocks should be considered for regeneration in future entry periods. Mature aspen clones within plantation blocks can be clearcut and expanded to diversify wildlife habitat. White spruce and white pine plantations, some including mixed hardwoods, also provide habitat diversity. One mature jack pine strip plantation is proposed for final harvest and natural regeneration.

Aspen stands scattered through the compartment represent several age classes. One 80-acre parcel in section 35 provides opportunity for multiple age classes in one small area. Two previous clearcuts in the compartment have resulted in proliferation of honeysuckle and autumn olive along with the regenerated aspen. Additional aspen regeneration attempts should be planned if possible to avoid this negative consequence.

Hardwoods in the compartment are of low to medium timber quality. Periodic selection harvests can be used to maintain these stands in an uneven-aged condition, although poorer quality stands with an aspen component should be considered for final harvest when mature and regenerated to mixed aspen and hardwoods.

Forest openings on old homesteads and fields should be maintained for wildlife habitat diversity. Those with Scotch pine encroachment should be treated to remove this exotic species.

Lowlands along the Platte River and Carter Creek include mixed stands of cedar, hemlock, yellow birch, and red maple. These stands should be left to provide important winter cover for deer and habitat for numerous other species, as well as shading along these water bodies to maintain cold water temperatures.

A 1997 proposed old growth area covered state lands in section 22 west of the Platte River State Forest Campground. Several factors contribute to nomination of the entire 120 acre block in sections 22 and 23 as a Special Conservation Area, including the campground and the Platte Springs Pathway. These values include concentrated recreation, riparian habitat, deer winter cover and well-developed mature forest. Incidentally, much of this area is inoperable for commercial logging. Active management should be limited to practices that enhance the values listed above, e.g. hazard tree removal, browse cuts, invasive species control, improving aesthetics, etc.

Soil and Topography: Most of the compartment is level. Steeper slopes are associated with the valleys of Carter Creek and Platte River. Soils are predominantly Nessen and Kaleva sands, which are well drained to excessively drained. Some Dair-Adrian muck soils occur in bottomlands.

Ownership Patterns, Development, and Land Use in and Around the Compartment: State ownership within this compartment is quite fragmented, with individual blocks ranging from 20 to 360 acres. These blocks are scattered within a large area of highly subdivided private lands, mostly rural residential lots and recreational properties on old fields and fragmented forest patches. This compartment abuts large areas of predominantly state land to the south and east.

Unique, Natural Features: Carter Creek and the Platte River flow through the compartment and have some relatively old timber stands adjacent.

Archeological, Historical, and Cultural Features: There is evidence of old homesteads in the southwest part of the compartment. An old, abandoned rail grade passes through state lands in section 24 alongside Carter Creek. This grade was associated with the former Carter's Siding town site and Desmond Chemical Company. The former Ann Arbor rail grade in the southwest part of the compartment now serves as the Betsie Valley Trail.

Special Management Designations or Considerations: The 120 acre block of state land in sections 22 & 23 is being proposed as a special conservation area. Part of this area was a proposed old growth area in previous planning cycles. See "Management Goals" above for details.

Watershed and Fisheries Considerations:

Wildlife Habitat Considerations: State lands in this compartment fall within a broad flat outwash plain, characterized by flat terrain and well drained sandy soils. Historically, periodic large-scale wild fires were the major driving force for cover type changes. Today, the fragmented ownership and history of land use has left a varied array of habitats in State ownership. Thinning of pine and spruce plantations should promote some within-stand age and species diversity which will benefit wildlife. Future management of the several pine stands here should consider incorporating small (2-5 acre) islands that are left relatively un-thinned within mature stands to provide winter roosting cover for turkeys. Deciduous species should be encouraged within conifer plantations for diversity. Regenerating some aspen stands will create early successional forest cover, consistent with natural fire dynamics, as long as timber sales incorporate leave trees (particularly conifers and beech), snags, and woody debris. These practices will benefit pine warbler, red squirrel, deer, ruffed grouse, hog-nosed snake, broad-winged hawk and other species native to the diverse forests of the outwash plains. Others stands should be maintained in or allowed to succeed to hardwood types. Some maintenance of existing openings is also desirable. Maintenance of natural white pine will help retain an important conifer component in the landscape.

Parcels in the sections 22, 23, and 24 mostly lie northeast of water courses and a moraine landscape, both of which have afforded some protection from wildfires. Consequently, these parcels are best managed for later successional types and important riparian cover. Any harvests in this part of the compartment should be small and retain lots of residuals, mimicking blowdown.

Mineral Resource and Development Concerns and/or Restrictions: Surface sediments consist of glacial outwash sand and gravel and postglacial alluvium. The glacial drift thickness varies between 400 and 800 feet. Beneath the glacial drift is the Devonian Ellsworth Shale that is quarried for cement. A gravel pit is located in Section 28 and there may be some gravel potential in the compartment. This area is within the current Antrim Shale gas play. Some of the sections are leased for oil and gas development and the Antrim and two UAs are located in the Compartment.

Vehicle Access: Access is sufficient throughout the compartment, except that the state land south of the Platte River in sections 22 & 23 and a land-locked 40 acre parcel in section 35 are only accessible by vehicle via private land.

Survey Needs: There may be a need to install some property corners for the SWNE of section 36 unless private survey corners exist.

Recreational Facilities and Opportunities: The Platte River Snowmobile Trail runs along Aylsworth Road on the south edge of sections 35 and 36. Platte River State Forest Campground and the Platte Springs Pathway lie within the compartment. The Platte River is popular for fishing, canoeing, and kayaking.

Fire Protection: This compartment would normally be handled by the Platte River Field Office in Benzie County. Currently no fire officer is stationed at this field office so any fire covered will be directed from the Traverse City Field Office with fire equipment being dispatched from both Platte River and Traverse City. The compartment in question is in a historically low fire prone area with easy road access. (Rod Rader, Fire Supervisor, Traverse City Field Office.)

Additional Compartment Information: The isolated 19 acre parcel in section 26 and the landlocked 40 acre parcel in section 35 should be considered for disposal.

****** Cover type details and proposed treatments are listed in the attached reports:**

Cover Type by Age Class

Proposed Treatments – No Limiting Factors

Proposed Treatments – With Limiting Factors

****** The following information is displayed on the attached compartment maps:**

Base feature information, stand numbers, cover types

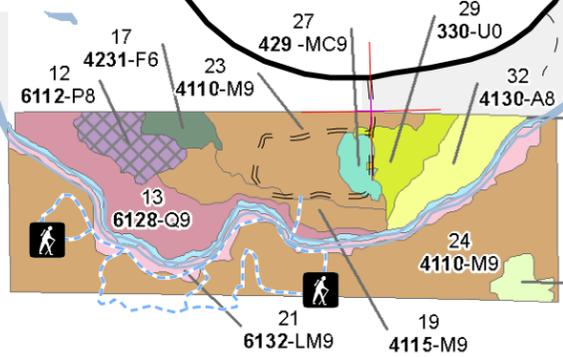
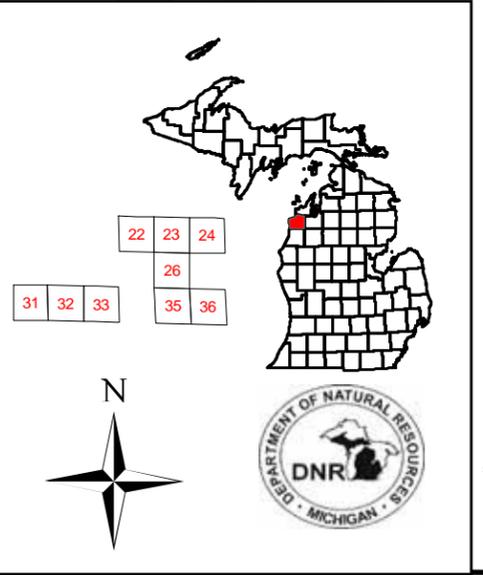
Proposed treatments

Proposed SCAs

Cover Type & Treatment Map

Compartment 15
 T26N, R14W, Sec. 22, 23, 24
 26, 31, 32, 33, 35, 36
 County: Benzie
 Unit: Traverse City
 YOE: 2014
 Acres: 1,190 GIS Calculated
 Stand Examiner: Tim Webb
 Map Revised: 5/22/2012
 Map Phase: Pre-Review

Stand #
 23
Stocking Density
 (4120) - A7
 Level 3 OI
 Level 4 Code
Cover Type Code



Legend

- ✚ Remonumented Section Corners
 - Miris Corners
 - County Paved Roads
 - Paved Roads
 - County Gravel Roads
 - == Gravel Roads
 - - Poor Dirt Roads
 - - County Poor Dirt Roads
 - - - Hiking Trail
 - 🚶 Hiking Trails
 - 🚙 Snowmobile Trails
 - Stream
 - Intermittent Stream
 - Lakes and Rivers
- Forest Stands**
- Level 3
- 411 - Northern Hardwood
 - 413 - Aspen Types
 - 419 - Mixed Upland Deciduous
 - 421 - Planted Pines
 - 422 - Natural Pines
 - 423 - Other Upland Conifers
 - 429 - Mixed Upland Conifers
 - 431 - Upland Mixed Forest
 - 611 - Lowland Deciduous Forest
 - 612 - Lowland Coniferous Forest
 - 613 - Lowland Mixed Forest
- Non-Forest Stands**
- Level 3
- 310 - Herbaceous Openland
 - 320 - Upland Shrub
 - 330 - Low-Density Trees
 - 500 - Water

Treatments

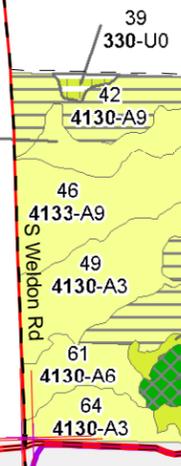
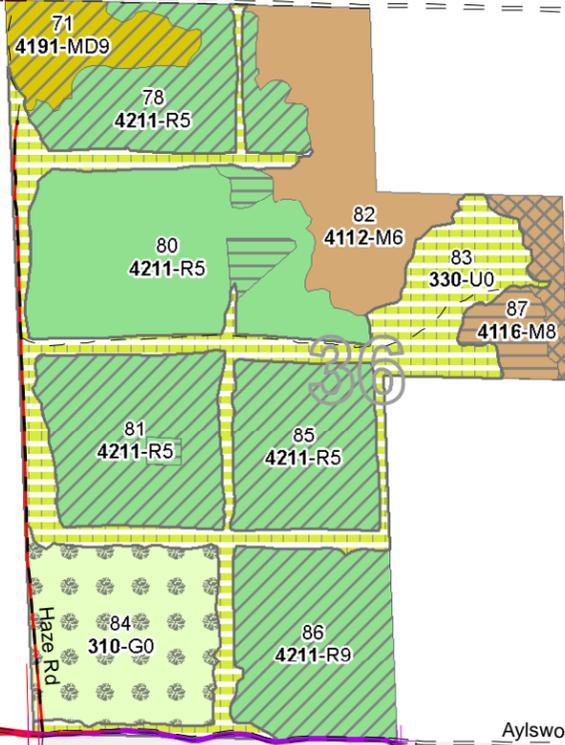
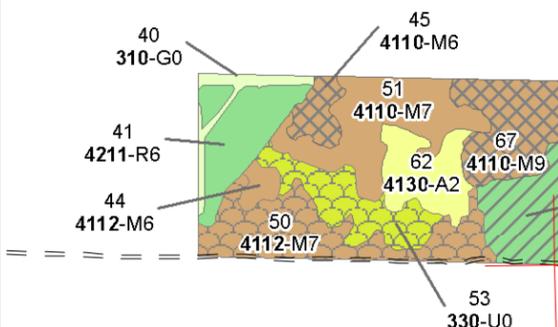
- ▭ Clearcut (w/Reserves, Patch/Strip)
- ▨ Thinning (Crown, Low, Systematic)
- ▩ Selection (Group, Single Tree)
- ▧ Site Preparation
- ▦ Opening Maintenance
- ▤ Planned Regeneration
- ▣ Planted

23

24

26

35



85°59'0"W 85°58'0"W 85°57'0"W

44°36'0"N

44°36'0"N

44°37'0"N

44°37'0"N

44°38'0"N

44°38'0"N

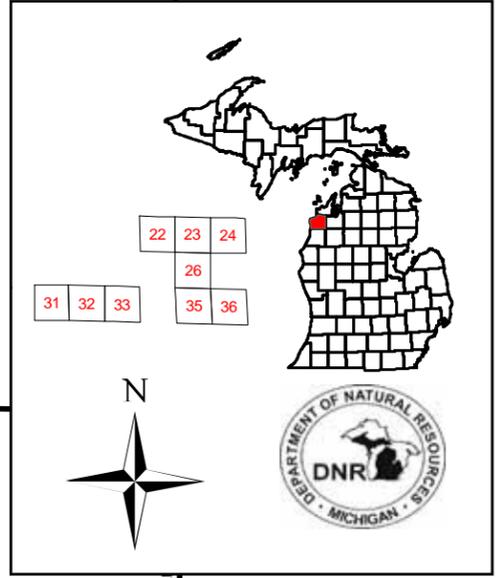
44°39'0"N

44°39'0"N

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 Stacking Density
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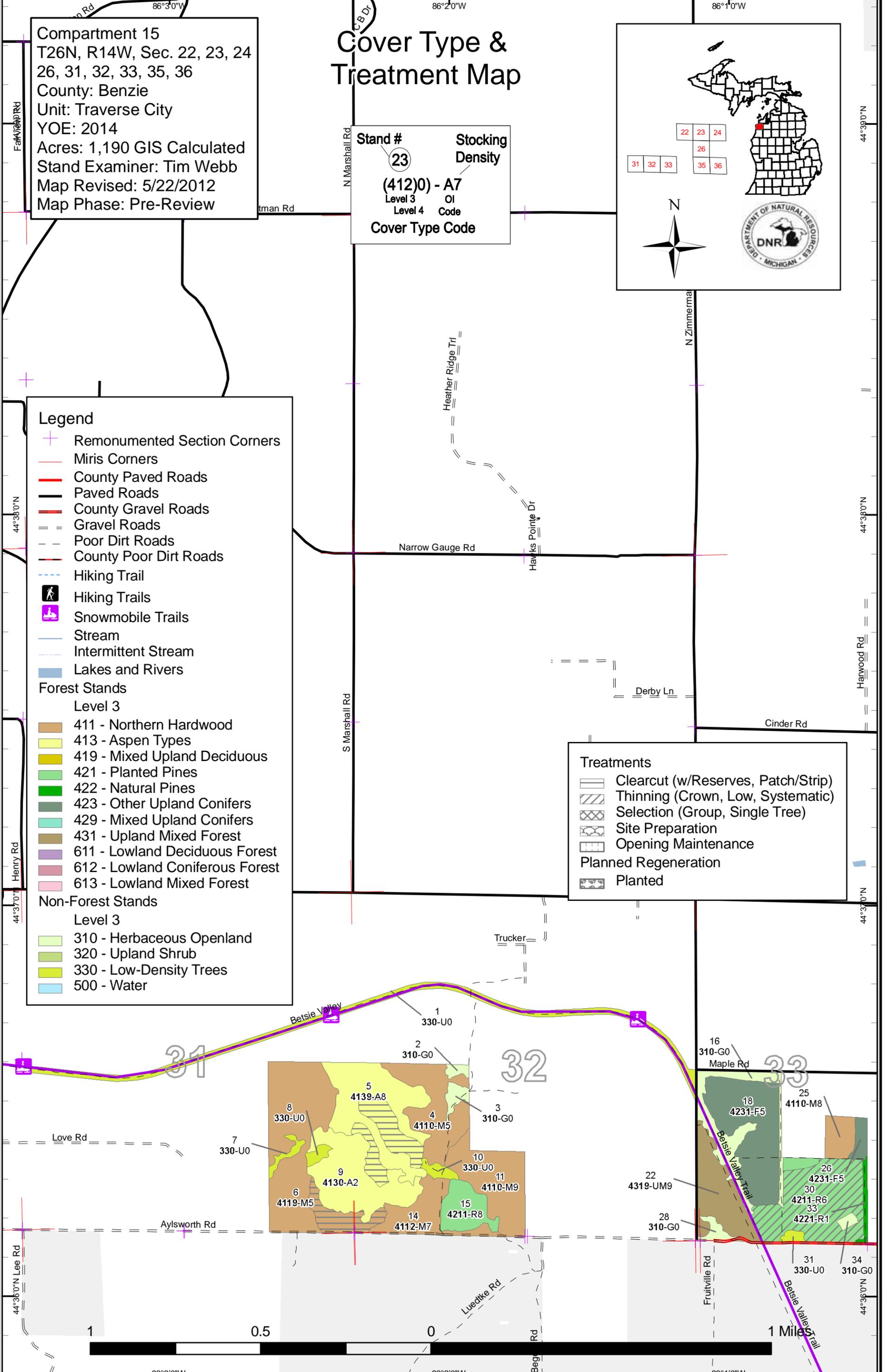


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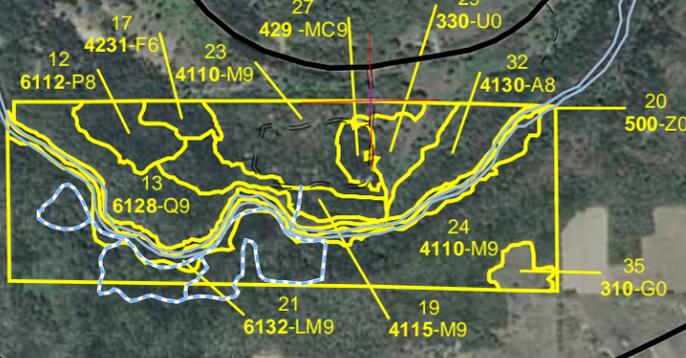
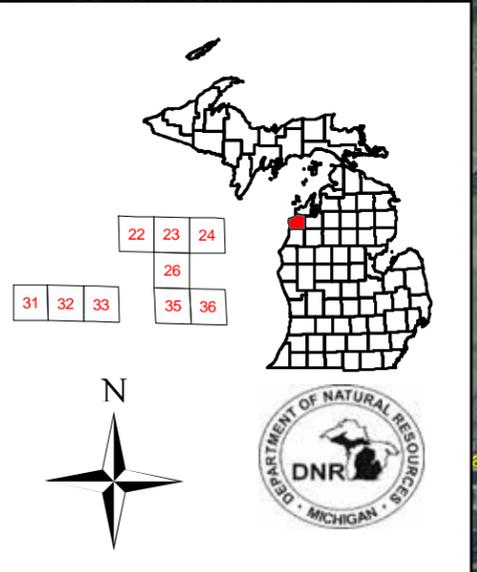
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Stand Boundary Map

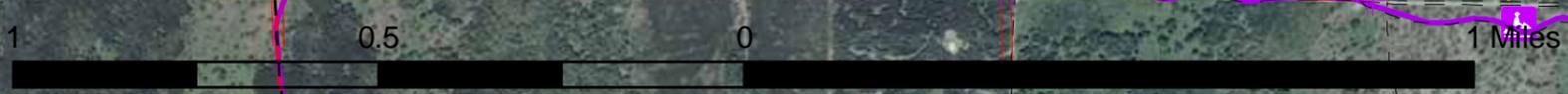
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 - Hiking Trails
 - Snowmobile Trails
 - Stand Boundaries

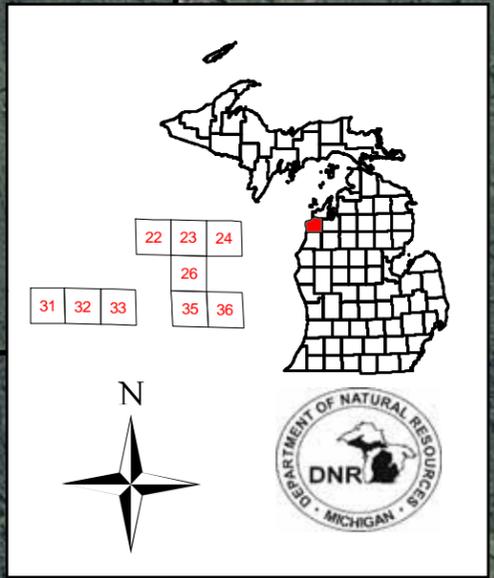
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Forest Stands

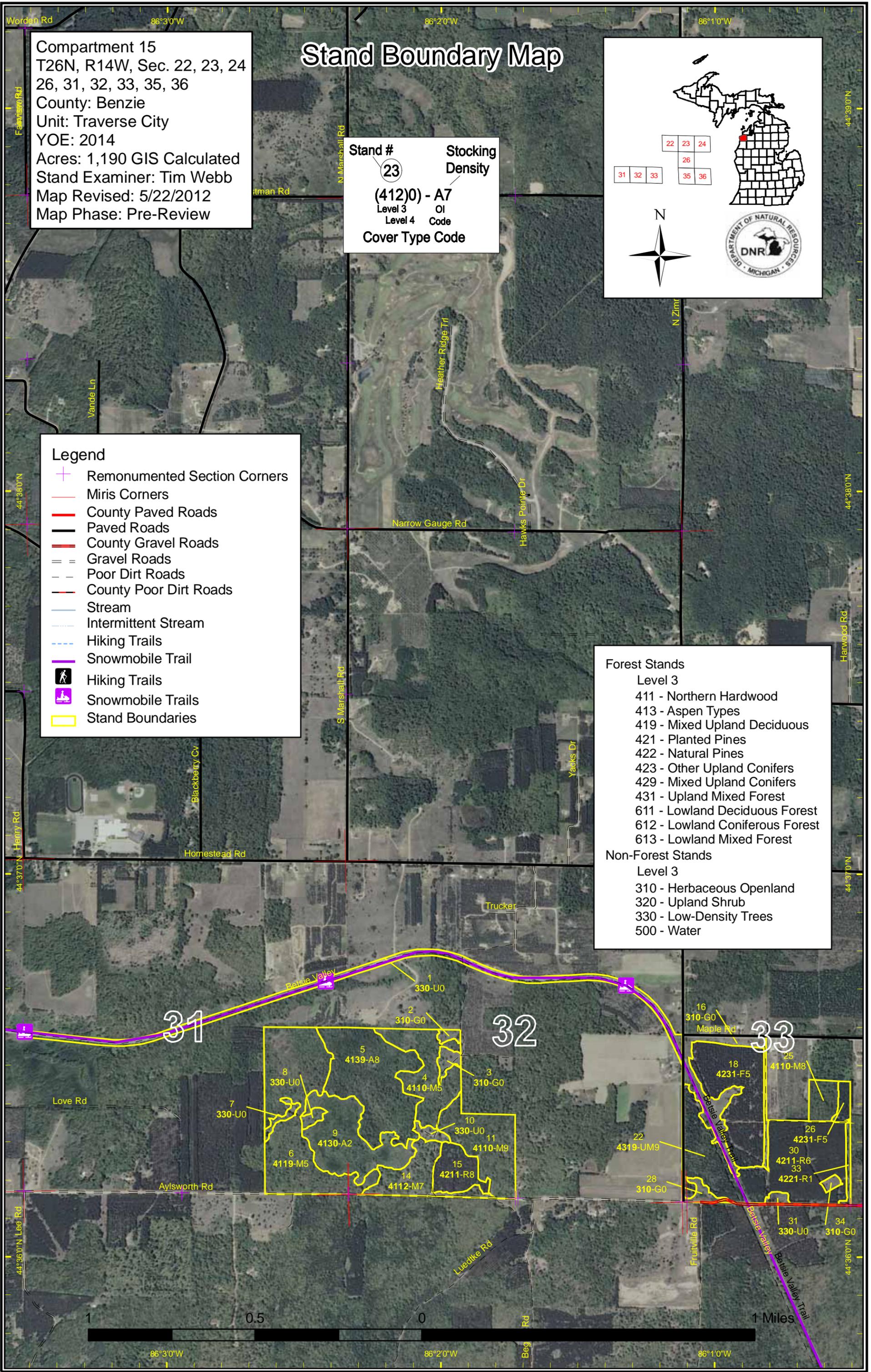
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Non-Forest Stands

Level 3

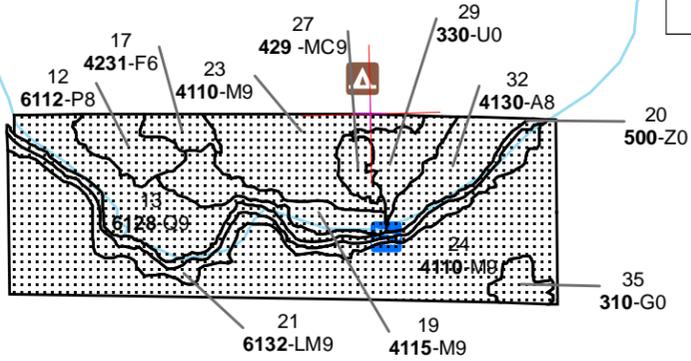
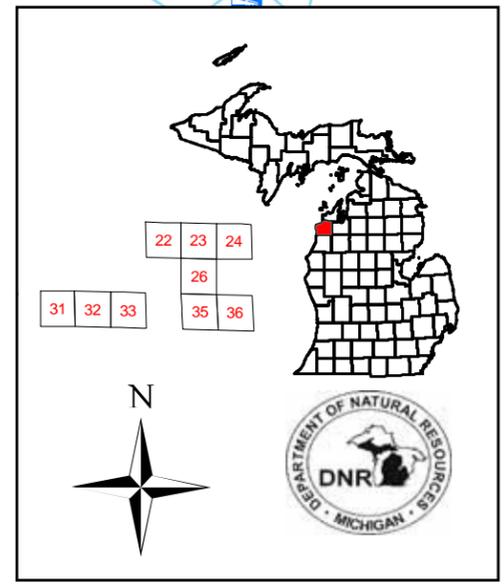
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Dedicated & Proposed Special Conservation Area Map

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 26, 31, 32, 33, 35, 36
 County: Benzie
 Unit: Traverse City
 YOE: 2014
 Acres: 1,190 GIS Calculated
 Stand Examiner: Tim Webb
 Map Revised: 5/22/2012
 Map Phase: Pre-Review

Stand #
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 Level 3 OI
 Level 4 Code
Cover Type Code

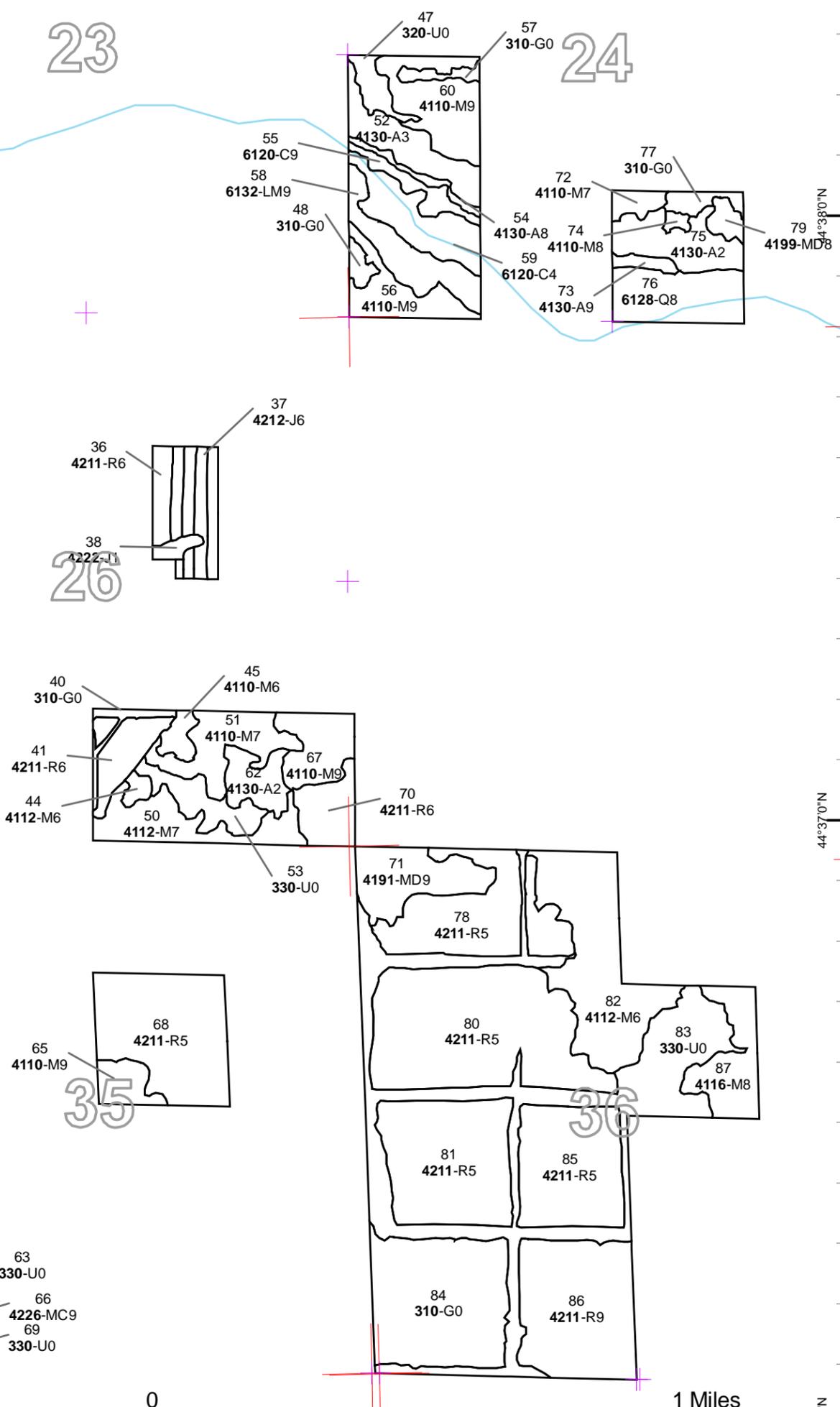


Legend

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- SCA - Special Conservation Area
- Special Conservation Areas
- ▲ Campgrounds
- ▣ Boat Access Sites
- Cold Water Streams

23

24



26

35

36

1 0.5 0 1 Miles

85°59'0"W 85°58'0"W 85°57'0"W

44°38'0"N

44°38'0"N

44°37'0"N

44°36'0"N

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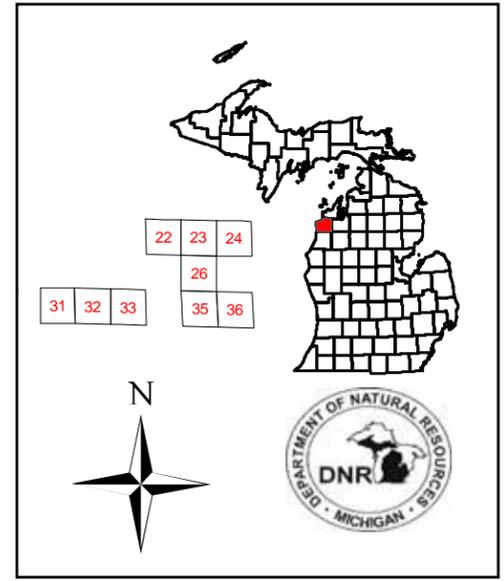
44°37'0"N

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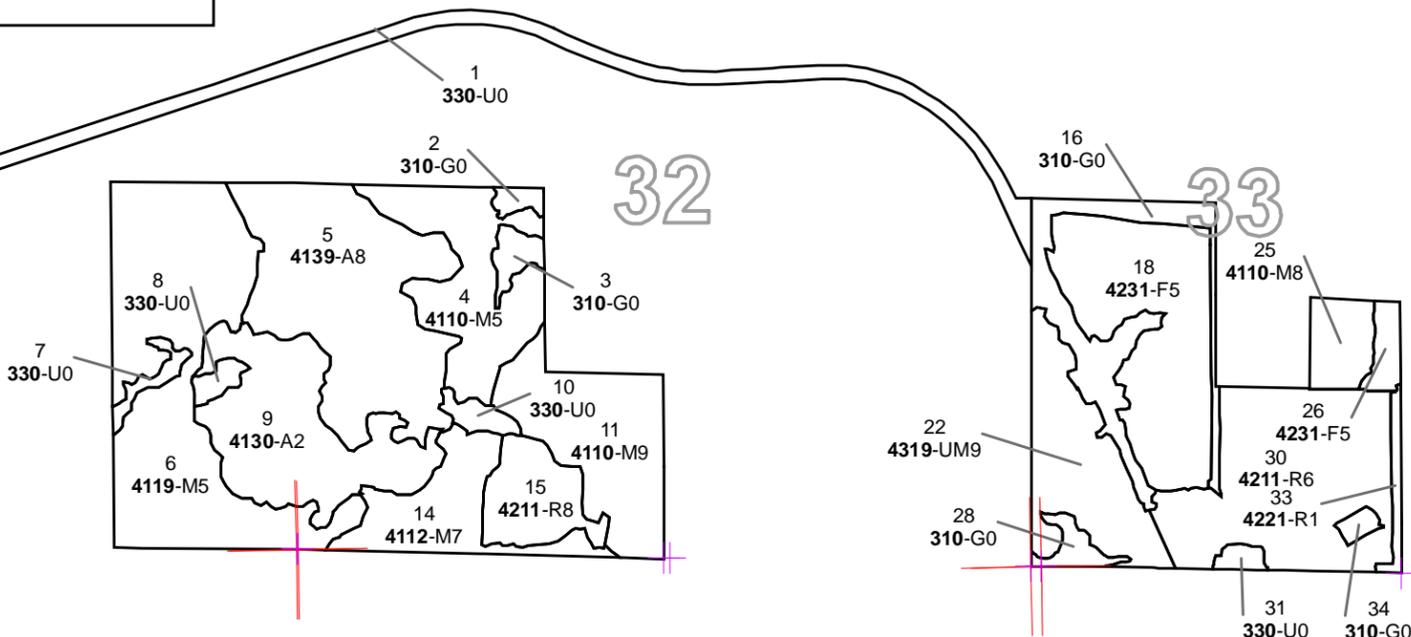
Dedicated & Proposed Special Conservation Area Map

Stand # **Stocking
Density**
 23
(4120) - A7
 Level 3 OI
 Level 4 Code
Cover Type Code



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86°3'0"W 86°2'0"W 86°1'0"W

44°38'0"N

44°38'0"N

44°37'0"N

44°36'0"N

44°39'0"N

44°38'0"N

44°37'0"N

44°36'0"N

Table 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	73	20	0	0	0	41	2	2	0	0	0	0	0	52	191
Cedar	0	0	0	0	0	0	0	0	0	14	0	5	0	0	18
Herbaceous Openland	77	0	0	0	0	0	0	0	0	0	0	0	0	0	77
Jack Pine	0	2	0	0	0	0	6	0	0	0	0	0	0	0	8
Low-Density Trees	119	0	0	0	0	0	0	0	0	0	0	0	0	0	119
Lowland Aspen/Balsam Poplar	0	0	0	0	0	0	6	0	0	0	0	0	0	0	6
Lowland Conifers	0	0	0	0	0	0	0	0	0	14	0	16	0	0	30
Lowland Mixed Forest	0	0	0	0	0	0	0	0	0	12	0	0	0	8	21
Mixed Upland Deciduous	0	0	0	0	3	0	15	0	0	0	0	0	0	0	18
Natural Mixed Pines	0	0	0	0	0	0	0	4	0	0	0	0	0	0	4
Northern Hardwood	0	0	0	0	0	14	0	38	49	52	21	0	47	103	323
Red Pine	0	0	2	0	214	87	0	0	0	0	0	0	0	0	303
Upland Conifers	0	0	0	0	0	2	0	0	0	0	0	0	0	0	2
Upland Mixed Forest	0	0	0	0	22	0	0	0	0	0	0	0	0	0	22
Upland Shrub	4	0	0	0	0	0	0	0	0	0	0	0	0	0	4
Upland Spruce/Fir	0	0	0	0	0	40	0	0	0	0	0	0	0	0	40
Water	5	0	0	0	0	0	0	0	0	0	0	0	0	0	5
Total	278	21	2	0	238	185	29	44	49	92	21	21	47	164	1190



Table 2 – Proposed Treatment Summaries

Traverse City Mgt. Unit
Year of Entry 2014

Compartment 015
Total Compartment Acres: 1190

Acres by Treatment Type

Commercial Harvest - 287	Site Prep - 23	Tree Planting - 0	Prescribed Burn - 0	Other - 0
Habitat Cut - 6	Opening Maintenance - 68	Tree Seeding - 0	Pesticide - 0	

Cover Type by Harvest Method

		Clearcut	Selection	Seed Tree	Shelterwood	Thinning	Other - Specify	Total Acres
Aspen	33	0	0	0	0	0	0	33
Jack Pine	6	0	0	0	0	0	0	6
Lowland Aspen/Balsam Poplar	0	6	0	0	0	0	0	6
Mixed Upland Deciduous	0	0	0	0	15	0	0	15
Natural Mixed Pines	0	4	0	0	0	0	0	4
Northern Hardwood	16	21	0	0	0	0	0	37
Red Pine	6	0	0	0	186	0	0	192
Total	61	30	0	0	202	0	0	293



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Treatment Name	Acres	CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
5 61015005-Cut	14.6	4139 - Aspen, Mixed Deciduous	Medium Density Log	62	51-80	Harvest	Clearcut with Reserves	4130 - Aspen	Cmpt. Review Proposal
<u>Prescription</u> Clearcut several patches from original stand, retaining up to 10% cover of mixed hardwoods and some deciduous shrubs (juneberry, witchhazel, hawthorn).									
<u>Specs:</u>									
<u>Other</u> Uncut remainder of stand may be left to succeed to hardwoods, allowing aspen/ash to die off.									
<u>Comments:</u>									
<u>Next</u> None needed - should regenerate adequately to aspen.									
<u>Steps:</u>									
<u>Proposed</u>									
<u>Start Date:</u> 10/01/2013									

6 61015006-Cut	8.8	4119 - Mixed Northern Hardwoods	Medium Density Pole	58	51-80	Harvest	Clearcut with Reserves	4130 - Aspen	Cmpt. Review Proposal
<u>Prescription</u> Clearcut to a 2" dbh diameter limit. Leave scattered hardwoods for retention, including some mast trees. Create some CWD.									
<u>Specs:</u>									
<u>Other</u>									
<u>Comments:</u>									
<u>Next</u> Allow natural regeneration to aspen and mixed hardwoods.									
<u>Steps:</u>									
<u>Proposed</u>									
<u>Start Date:</u> 10/01/2013									

30 61015030-Cut	38.2	42110 - Planted Red Pine	High Density Pole	56	171-200	Harvest	Systematic Thinning	42110 - Planted Red Pine	Cmpt. Review Proposal
<u>Prescription</u> Cut every 3rd tree. Southwest lobe of the stand, which is mixed with hardwoods and more irregular, should be marked to a residual BA of about 130, including marking some hardwoods.									
<u>Specs:</u>									
<u>Other</u> West end of sale abuts Betsie Valley Trail: use appropriate sale specifications to protect use of the trail. A 2-acre patch on the north edge of the stand was left out of the prescribed thinning area for denser turkey roosting cover.									
<u>Comments:</u>									
<u>Next</u> None.									
<u>Steps:</u>									
<u>Proposed</u>									
<u>Start Date:</u> 10/01/2013									

36 61015036-Cut	10.8	42110 - Planted Red Pine	High Density Pole	57	141-170	Harvest	Low Thinning	42110 - Planted Red Pine	Cmpt. Review Proposal
<u>Prescription</u> Mark for a thinning down to a residual BA of 120-130. Focus removal on suppressed or defective trees.									
<u>Specs:</u>									
<u>Other</u> Intervening jack pine strips will also be cut in the same sale.									
<u>Comments:</u>									
<u>Next</u> None.									
<u>Steps:</u>									
<u>Proposed</u>									
<u>Start Date:</u> 10/01/2013									



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Treatment Name	Acres	CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
37 61015037-Cut	6.5	42120 - Planted Jack Pine	High Density Pole	61	111-140	Harvest	Clearcut with Reserves	42220 - Natural Jack Pine	Cmpt. Review Proposal

Prescription Clearcut all jack pine. Retain white pine and maple along Cinder Rd. If available, retain some windfirm trees adjacent to the private residence at the southwest corner of the stand.

Other Comments:

Next Steps: Stand should regenerate naturally to jack pine, with perhaps some red pine seeding in as well. Check for suitable regeneration at appropriate intervals following harvest.

Proposed Start Date: 10/01/2013

42 61015042-Cut	10.5	4130 - Aspen	High Density Log	50		Harvest	Clearcut with Reserves	4130 - Aspen	Cmpt. Review Proposal
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Prescription Clearcut aspen and ironwood. Retain some of the hardwood and pine, especially the denser area of hardwoods at the south-central edge of the stand.

Other Comments: Use adjacent stand 39 as a landing area and incorporate opening maintenance into the sale operation.

Next Steps: The stand should regenerate naturally to aspen, with maybe some hardwood seedlings and stump sprouts in the mix. Some white pine seedlings would also be acceptable in the regeneration.

Proposed Start Date: 10/01/2013

45 61015045-Cut	3.0	4110 - Sugar Maple Association	High Density Pole	90	81-110	Harvest	Single Tree Selection	4110 - Sugar Maple Association	Cmpt. Review Proposal
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Prescription Mark stand for harvest, focusing on removing low-quality and multi-stemmed trees and releasing better quality hardwoods and white pines.

Other Comments:

Next Steps: None.

Proposed Start Date: 10/01/2013

61 61015061-Cut	7.5	4130 - Aspen	High Density Pole	50		Harvest	Clearcut with Reserves	4130 - Aspen	Cmpt. Review Proposal
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Prescription Clearcut to a 2" diameter limit. Retain +/-5% canopy cover of hardwoods and pine; retain most of the hardwood clump at the NE tip of the stand.

Other Comments:

Next Steps: Stand should regenerate adequately to aspen and black cherry, with some white pine seedlings and hardwood stump sprouts.

Proposed Start Date: 10/01/2013

**Table 3 -- Treatments Prescribed
with No Limiting Factor**



S t a n d	Treatment Name	Acres	CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
66	61015066-Cut	3.8	42260 - Natural Pine, Mixed Deciduous	High Density Log	76	141-170	Harvest	Single Tree Selection	42201 - Natural White Pine, Mixed Deciduous	Cmpt. Review Proposal

Prescription Mark for thinning, focusing removal on lower quality trees. Residual BA: 100-110. Create some CWD.

Specs:

Other

Comments:

Next None.

Steps:

Proposed

Start Date: 10/01/2013

67	61015067-Cut	10.8	4110 - Sugar Maple Association	High Density Log	84	111-140	Harvest	Single Tree Selection	4110 - Sugar Maple Association	Cmpt. Review Proposal
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Prescription Mark for thinning, focusing on low quality and multi-stemmed trees. Cut all Scotch pine in NE corner. Target residual BA: 90, denser where white pines are clustered.

Specs:

Other

Comments:

Next None.

Steps:

Proposed

Start Date: 10/01/2013

70	61015070-Cut	8.8	42110 - Planted Red Pine	High Density Pole	49	171-200	Harvest	Low Thinning	42110 - Planted Red Pine	Cmpt. Review Proposal
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Prescription Mark for thinning. Leave most hardwoods for diversity. Marking may follow rows in some places; otherwise focus on removing lower quality trees as much as possible.

Specs:

Other

Comments: Previously unthinned; rows wide and erratic.

Next None.

Steps:

Proposed

Start Date: 10/01/2013

71	61015071-Cut	15.4	4191 - Mixed Upland Deciduous with Conifer	High Density Log	61	141-170	Harvest	Low Thinning	4191 - Mixed Upland Deciduous with Conifer	Cmpt. Review Proposal
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Prescription Thin to improve overall quality, focusing harvest on low quality hardwoods, suppressed and weeviled pine. Target residual BA of 90-100, a little denser where pine is concentrated.

Specs:

Other

Comments:

Next None.

Steps:

Proposed

Start Date: 10/01/2013



S t a n d	Treatment Name	Acres	CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
78	61015078-Cut	29.1	42110 - Planted Red Pine	Medium Density Pole	49	141-170	Harvest	Systematic Thinning	42110 - Planted Red Pine	Cmpt. Review Proposal
<p><u>Prescription</u> Cut every 4th red pine. Retain hardwoods for diversity. <u>Specs:</u> <u>Other</u> <u>Comments:</u> <u>Next</u> None. <u>Steps:</u> <u>Proposed</u> <u>Start Date:</u> 10/01/2013</p>										
80	61015080-Cut	6.0	42110 - Planted Red Pine	Medium Density Pole	49	141-170	Harvest	Clearcut with Reserves	4130 - Aspen	Cmpt. Review Proposal
<p><u>Prescription</u> Clearcut aspen clones within red pine plantations to regenerate aspen for local habitat diversity. Expand clones by cutting some surrounding red pine. Retain some scattered red pine within the cut boundaries for diversity. <u>Specs:</u> <u>Other</u> <u>Comments:</u> <u>Next</u> Cut areas should regenerate adequately with aspen sprouts, plus perhaps some red pine seedlings. <u>Steps:</u> <u>Proposed</u> <u>Start Date:</u> 10/01/2013</p>										
81	61015081-Cut	34.8	42110 - Planted Red Pine	Medium Density Pole	49	171-200	Harvest	Systematic Thinning	42110 - Planted Red Pine	Cmpt. Review Proposal
<p><u>Prescription</u> Cut every 3rd red pine. Mark denser patches of hardwoods within the plantation for thinning. <u>Specs:</u> <u>Other</u> <u>Comments:</u> <u>Next</u> None. <u>Steps:</u> <u>Proposed</u> <u>Start Date:</u> 10/01/2013</p>										
85	61015085-Cut	28.7	42110 - Planted Red Pine	Medium Density Pole	49	141-170	Harvest	Systematic Thinning	42110 - Planted Red Pine	Cmpt. Review Proposal
<p><u>Prescription</u> Cut every 3rd red pine. Mark denser patch of hardwoods within the plantation for thinning. <u>Specs:</u> <u>Other</u> <u>Comments:</u> <u>Next</u> None. <u>Steps:</u> <u>Proposed</u> <u>Start Date:</u> 10/01/2013</p>										



Stand	Treatment Name	Acres	CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
86	61015086-Cut	35.8	42110 - Planted Red Pine	High Density Log	57	141-170	Harvest	Crown Thinning	42110 - Planted Red Pine	Cmpt. Review Proposal
<p><u>Prescription</u> Mark for thinning, including hardwood patches. Target residual BA: 120-130. <u>Specs:</u> <u>Other Comments:</u> <u>Next Steps:</u> None. <u>Proposed Start Date:</u> 10/01/2013</p>										
87	61015087-clearcut	7.0	4116 - Mixed N. Hardwood - Aspen	Medium Density Log	55	81-110	Harvest	Clearcut with Reserves	4130 - Aspen	Cmpt. Review Proposal
<p><u>Prescription</u> Clearcut to a 2" diameter limit; mark scattered individual hardwoods for retention. <u>Specs:</u> <u>Other Comments:</u> <u>Next Steps:</u> Stand should regenerate adequately to aspen with some hardwood seedlings and stump sprouts. <u>Proposed Start Date:</u> 10/01/2013</p>										
87	61015087-selection	7.0	4116 - Mixed N. Hardwood - Aspen	Medium Density Log	55	81-110	Harvest	Single Tree Selection	4112 - Maple, Beech, Cherry Association	Cmpt. Review Proposal
<p><u>Prescription</u> Mark for thinning to a residual BA of about 80, concentrating on removal of low quality and multi-stemmed trees. <u>Specs:</u> <u>Other Comments:</u> <u>Next Steps:</u> None. <u>Proposed Start Date:</u> 10/01/2013</p>										
50	61015050-Prep	23.2	4112 - Maple, Beech, Cherry Association	Low Density Log	84	51-80	Site Prep	Scarification	4110 - Sugar Maple Association	Cmpt. Review Proposal
<p><u>Prescription</u> Use a mechanical method, such as roller-chopping, to eliminate Scotch pine and to simultaneously scarify the soil for natural seeding. Conduct during spring through mid-summer so soil is exposed prior to late summer/early fall seeding from adjacent sugar maple, white pine and basswood. Work around existing patches of desirable advanced hardwood/aspen regeneration. <u>Specs:</u> <u>Other Comments:</u> If at all possible, time this operation to coincide with a peak seed year in the sugar maple. <u>Next Steps:</u> Conduct regeneration checks at appropriate intervals after scarification. Acceptable regeneration includes sugar maple, red maple, basswood, cherry, and white pine. If inadequate, follow up with trenching and hand planting of red or white pine. <u>Proposed Start Date:</u> Unspecified</p>										
39	NF_61015039-NonFor	1.2	3303 - Mixed Low Density Trees				Non-Forest Management	Brush Cutting	3303 - Mixed Low Density Trees	Cmpt. Review Proposal
<p><u>Prescription</u> Use this non-forested stand as a timber landing when adjacent aspen stand is harvested. Incorporate cutting of Scotch pine into the sale specifications to establish the timber landing. <u>Specs:</u> <u>Other Comments:</u> Other trees/shrubs may also need to be removed to facilitate use as a landing. <u>Next Steps:</u> None. <u>Proposed Start Date:</u> Unspecified</p>										

**Table 3 -- Treatments Prescribed
with No Limiting Factor**



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Treatment Name	Acres	CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
83 NF_61015083-NonFor	67.0	3301 - Low Density Deciduous Trees				Non-Forest Management	Brush Cutting	3205 - Mixed Upland Shrub	Cmpt. Review Proposal

Prescription Selectively hand fell woody encroachment to maintain upland brush/grassland community. Leave scattered mast producing trees and shrubs and/or conifers for wildlife food and cover. Preferably via adjacent timber sales.

Other Comments:

Next Steps:

Proposed Start Date: Unspecified

Total Treatment Acreage Proposed: 378.6



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Treatment Name	Acres	CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
12 61015012-Cut	5.5	6112 - Lowland Aspen	Medium Density Log	65		Harvest	Group Selection	4130 - Aspen	Cmpt. Review Proposal

Prescription Cut all aspen in stand (or patches) to create an immediate browse resource in harsh winters and to regenerate aspen via root sprouting.
Specs:

Other Comment:

Next Steps: Allow cut area to regenerate naturally to aspen and red maple.

Proposed Start Date: 10/01/2013

Limiting Factor and No Treatment Reason 3A: Potential old growth / biodiversity
120 acre block corresponds to a proposed SCA including the Platte River State Forest Campground, Platte Springs Pathway, and surrounding state land.

Total Treatment Acreage Proposed: 5.5

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

Year of Entry: 2014



Treatment Name	Acres	CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
61043_OutOfY OE-Cut	2.1					Harvest	Clearcut with Reserves	4131 - Aspen, Oak	Cmpt. Review Proposal - Incomplete

Prescription

Specs: retain some pine and osk for mast and seed production, Follwo WLD guidance for CWD creation. Harvest all stems that are not retained.

Other New stand should have mix of oak, pine, aspen and maple.

Comments:

Next

Steps:

Proposed

Start Date: 09/01/2009

61231_OutOfY OE-Thin	4.6			0		Harvest	Low Thinning	4122 - Oak, Pine	Cmpt. Review Proposal
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Prescription Within harvest area, remove all aspen. Heavily thin oak and maple to a residual BA of about 50 sf. Leave retention in patches or strips sufficient to meet minimum retention goals.

Other Topography is rather hilly. Combine with treatment in Compartment 133.

Comments:

Next

Steps:

Proposed

Start Date: 10/01/2013

**Total Treatment
Acreage Proposed: 6.7**

Stand	Traverse City Mgt. Unit		5 – Forested Stands			Compartment: 015	General Comments:
	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Year of Entry: 2014	
4	4110 - Sugar Maple Association	Medium Density Pole	23.1	Uneven Age	81-110		Stand is well stocked with younger hardwoods, plus sparse mature hardwoods and aspen. Scattered black cherry, beech, elm.
5	4139 - Aspen, Mixed Deciduous	Medium Density Log	44.8	Uneven Age	51-80		Aspen is of poor quality; some mortality, lots of phelinus.
6	4119 - Mixed Northern Hardwoods	Medium Density Pole	54.2	Uneven Age	51-80		Stand is quite variable in size and age; some scattered older hardwoods, good stocking of poles and saplings. Scattered elm, bigtooth aspen, beech. Some thick witch hazel patches, honeysuckle, and juneberry.
9	4130 - Aspen	Medium Density	30.6	7			Stand was cut and regenerated in 2005, includes 2 residual islands, about 1 acre each, of mixed aspen/hardwood. Stand is hilly. There are several open, shrubby patches within the stand. Scattered residual juneberry and elm overtop the aspen sprouts.
11	4110 - Sugar Maple Association	High Density Log	25.3	98	81-110		Significant regen patches in parts of the stand.
12	6112 - Lowland Aspen	Medium Density Log	5.5	65			
13	6128 - Lowland Coniferous, Mixed Deciduous	High Density Log	14.0	90			Stand is in the Platte River floodplain with numerous seeps. Trace amounts of tamarack, white pine, aspen.
14	4112 - Maple, Beech, Cherry Association	Low Density Log	15.9	Uneven Age	1-50		There are some old cottonwoods along the road in the SE part of the stand. Stand includes numerous small openings slowly filling in with maple. Scattered honeysuckle, hawthorn, and juneberry.
15	42110 - Planted Red Pine	Medium Density Log	11.3	49	111-140		Stand was 3rd-row thinned in 2006. Numerous hardwood seedlings including beech, sugar maple, ironwood.
17	42310 - Planted Spruce	High Density Pole	2.5	51	141-170		
18	42310 - Planted Spruce	Medium Density Pole	34.9	51	81-110		Stand was 3rd-row thinned in 2006. Scattered hardwoods on edges.
19	4115 - Y.Birch, Hemlock NH	High Density Log	7.0	90	200+		Stand has small amounts of quaking aspen and black cherry. Beech scale is present.
21	6132 - Mixed Lowland Forest with Cedar	High Density Log	8.4	Uneven Age	171-200		Platte River floodplain. There are numerous seeps and springs and a fair amount of blowdown.
22	4319 - Mixed Upland Forest	High Density Log	21.6	49	111-140		There is significant mortality/blowdown of the spruce, possibly from root rot, none very recent.
23	4110 - Sugar Maple Association	High Density Log	14.0	108	111-140		Platte River State Forest Campground. Stand has scattered red maple, basswood and ash.



Stand	Traverse City Mgt. Unit		5 – Forested Stands			Compartment: 015	General Comments:
	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Year of Entry: 2014	
24	4110 - Sugar Maple Association	High Density Log	46.6	145	111-140		Most of the stand is on a steep bluff along the Platte River cut by numerous draws with seeps/springs.
25	4110 - Sugar Maple Association	Medium Density Log	6.7	102	81-110		Stand was thinned in 2005. Thick flush of ironwood seedlings and saplings. Scattered understory hemlock.
26	42310 - Planted Spruce	Medium Density Pole	3.0	51	141-170		Stand was thinned in 2006. Some mortality/blowdown, possibly from root rot.
27	429 - Mixed Upland Conifers	High Density Log	2.4	51	141-170		Platte River State Forest Campground
30	42110 - Planted Red Pine	High Density Pole	40.4	56	171-200		Stand was pruned in 1992, 3rd-row thinned in 1996. There are some mature white pine and sugar maple along Aylsworth Road. There are some sapling hardwoods and red pines in the open lane that bisects the stand, but otherwise virtually no understory.
32	4130 - Aspen	Medium Density Log	7.2	Uneven Age			Stand is borderline upland/lowland; high water table. Scattered paper birch, hemlock, cherry, and elm.
33	42210 - Natural Red Pine	Low Density Sapling	2.2	22			Stand consists of volunteer red pine saplings and small poles of various ages up to about 22, plus a few ironwood, sugar maple and beech saplings.
36	42110 - Planted Red Pine	High Density Pole	10.8	57	141-170		Stand was 3rd-row thinned in 2005. Narrow strip of white pine and old sugar maple along Cinder Rd.
37	42120 - Planted Jack Pine	High Density Pole	6.5	61	111-140		Fair amount of mortality/blowdown.
38	42220 - Natural Jack Pine	Low Density Sapling	1.8	13			Stand originated from a 1999 wildfire and follow-up salvage cut. There are 2 solid patches of 10-20' tall jack pine saplings where there was plantation jack pine pre-fire; remainder of the stand is filling in with a mix of volunteer red pine and jack pine.
41	42110 - Planted Red Pine	High Density Pole	8.8	49	111-140		Stand was 3rd-row thinned in 2005.
42	4130 - Aspen	High Density Log	10.5	50			Red pine is in a single row along the north edge of the stand. Scattered basswood and black cherry.
43	4130 - Aspen	High Density Sapling	7.1	7			Stand resulted from a 2005 clearcut with residuals. 2-storied stand, with remnant white pine and hardwoods over aspen saplings.
44	4112 - Maple, Beech, Cherry Association	High Density Pole	1.6	72	111-140		Planted white pine.
45	4110 - Sugar Maple Association	High Density Pole	3.0	90	81-110		Underplanted white pine.





	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
46	4133 - Aspen, Mixed Pine	High Density Log	16.1	50	111-140	Scattered red maple, basswood.
49	4130 - Aspen	High Density Sapling	15.8	7		Stand resulted from a 2005 clearcut with residuals. There are scattered mixed residual hardwoods and white pine.
50	4112 - Maple, Beech, Cherry Association	Low Density Log	14.9	84	51-80	Fairly open understory with many Scotch pine saplings and scattered clumps of mixed hardwood saplings and quaking aspen sprouts. Stand includes remnant patches of planted white pine.
51	4110 - Sugar Maple Association	Low Density Log	13.7	84	1-50	Stand was cut through in 1996 with larger hardwoods retained creating a two-storied stand. Regeneration varies in species and density, being thicker where more open. Regen. includes sugar maple, white ash, black cherry, ironwood, Scotch pine, white pine, and scattered thickets of quaking aspen.
52	4130 - Aspen	High Density Sapling	12.1	16		Cut/regenerated in 1996. Fruiting shrubs include autumn olive, hawthorn, juneberry. Patch of mature remnant aspen at northwest end of stand, with a few maple & basswood. Scattered residual red oaks.
54	4130 - Aspen	Medium Density Log	2.4	72		Stand is a narrow strip of overmature aspen on a north facing slope, between an aspen sapling stand and swamp conifers along Carter Creek.
55	6120 - Lowland Cedar	High Density Log	4.7	112		Carter Creek floodplain. Old RR grade runs through the stand. Scattered white birch, cherry, super-canopy white pine.
56	4110 - Sugar Maple Association	High Density Log	10.3	Uneven Age	81-110	The stand varies considerably in age and density. Most of the hemlock is concentrated east of the spring/stream and along the edge of the adjacent conifer swamp. Appears to be some abuse by firewood cutters.
58	6132 - Mixed Lowland Forest with Cedar	High Density Log	12.2	98	141-170	Stand slopes gradually from southwest to northeast towards creek. Quite a bit of blowdown.
59	6120 - Lowland Cedar	Low Density Pole	13.7	98	81-110	Lots of standing dead and blowdown cedar, resulting in a sparse canopy. Carter Creek flows through the stand. Scattered balsam fir, hemlock, white pine, and yellow birch.
60	4110 - Sugar Maple Association	High Density Log	16.3	92	81-110	Variable in size and density, Some open gaps. Scattered red maple, red oak, aspen; clone of aspen in NW corner.
61	4130 - Aspen	High Density Pole	14.6	50		Scattered red maple and black cherry.
62	4130 - Aspen	Medium Density	7.5	16		Stand was cut in 1996. Remnant mature hardwoods.
64	4130 - Aspen	High Density Sapling	7.4	7		Stand resulted from a 2005 clearcut with scattered residual black cherry, red maple, ironwood and white pine; some scattered white pine saplings in the understory.



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
65	4110 - Sugar Maple Association	High Density Log	5.5	89	81-110	Numerous cavity trees.
66	42260 - Natural Pine, Mixed Deciduous	High Density Log	3.8	76	141-170	
67	4110 - Sugar Maple Association	High Density Log	10.8	84	111-140	Hardwood stand underplanted with white pine. Scotch pine and white pine plantations on adjacent property to the north extend onto state land in the north part of this stand.
68	42110 - Planted Red Pine	Medium Density Pole	34.4	49	141-170	Stand was 3rd-row thinned in 2007.
70	42110 - Planted Red Pine	High Density Pole	8.8	49	171-200	Hardwoods along road and scattered throughout stand, many multi-stemmed. Lots of advanced deciduous seedlings, mostly sugar maple and beech.
71	4191 - Mixed Upland Deciduous with Conifer	High Density Log	15.4	61	141-170	
72	4110 - Sugar Maple Association	Low Density Log	3.0	81	51-80	A utility R.O.W. and Rosa Road pass through the stand.
73	4130 - Aspen	High Density Log	1.9	60		
74	4110 - Sugar Maple Association	Medium Density Log	1.0	81	111-140	
75	4130 - Aspen	Medium Density	12.5	6		Stand was clearcut in 2006. Scattered residual pole-sized white pine and red oak. Dense bracken fern ground cover with blackberry.
76	6128 - Lowland Coniferous, Mixed Deciduous	Medium Density Log	15.9	112		Scattered aspen, paper birch, cherry, and super-canopy white pine. The stand has some significant patches of blowdown and standing flood-killed cedar, especially in the west half.
78	42110 - Planted Red Pine	Medium Density Pole	29.1	49	141-170	Stand was 3rd-row thinned in 2005, crowns starting to close back in. Hardwoods are low quality, multi-stemmed.
79	4199 - Other Mixed Upland Deciduous	Medium Density Log	2.7	45	81-110	A few honeysuckle, autumn olive shrubs.
80	42110 - Planted Red Pine	Medium Density Pole	56.5	49	141-170	Stand was 3rd-row thinned in 2005, still a fair amount of headroom in the canopy. Hardwoods are low quality, multi-stemmed.
81	42110 - Planted Red Pine	Medium Density Pole	35.9	49	171-200	Stand was 3rd-row thinned in 2005, crowns are starting to close in. Hardwoods are low quality, multi-stemmed.

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Traverse City Mgt. Unit

5 – Forested Stands

Compartment: 015
Year of Entry: 2014

	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
82	4112 - Maple, Beech, Cherry Association	High Density Pole	36.6	75	81-110	Generally low quality, numerous multi-stemned trees. Scattered white pine, sugar maple, black cherry, red oak. One part of stand has underplanted white pine, spruce, & Douglas-fir. Bigtooth aspen is in scattered clones.
85	42110 - Planted Red Pine	Medium Density Pole	28.7	49	141-170	Stand was 3rd-row thinned in 2005, crowns starting to re-close. Deciduous cover is mostly in the NW corner of the stand. Hardwoods are low quality, multi-stemmed.
86	42110 - Planted Red Pine	High Density Log	35.8	57	141-170	Stand was 3rd-row thinned in 1996. Includes 2 hardwood patches in NE and SC parts of stand, plus scattered old black cherry throughout.
87	4116 - Mixed N. Hardwood - Aspen	Medium Density Log	14.0	55	81-110	Numerous multi-stemmed hardwoods, generally low quality.



Stand	Cover Type	Acres	Managed Site	Management Priority (Objective)	General Comments:
1	3301 - Low Density Deciduous Tree	26.5	Yes	High (NonForested)	Betsie Valley Trail corridor along former Ann Arbor railroad grade. Several bluebird boxes along trail. Mixed hardwoods include sugar maple, basswood, elm, black cherry, ironwood, quaking aspen, and paper birch. Mixed pines are mainly Scotch pine.
2	3102 - Grass	1.5	No	Medium (NonForested)	
3	3102 - Grass	2.6	No	Medium (NonForested)	
7	3301 - Low Density Deciduous Tree	2.0	No	Low (NonForested)	
8	3301 - Low Density Deciduous Tree	1.7	No	Low (NonForested)	
10	3301 - Low Density Deciduous Tree	2.3	No	Medium (NonForested)	
16	3102 - Grass	16.9	Yes	High (NonForested)	
20	50 - Water	4.8	No	Low (NonForested)	Platte River
28	3102 - Grass	2.6	No	Medium (NonForested)	Very uneven terrain; may be old excavations/homestead site.
29	3301 - Low Density Deciduous Tree	5.2	No	Medium (NonForested)	
31	3301 - Low Density Deciduous Tree	1.4	No	Medium (NonForested)	
34	3102 - Grass	1.2	No	Medium (NonForested)	
35	31021 - Cool Season Grass	2.4	No	Low (NonForested)	
39	3303 - Mixed Low Density Trees	1.2	No	Medium (NonForested)	
40	3103 - Rubus-Fern	2.6	No	Low (NonForested)	
47	3205 - Mixed Upland Shrub	4.1	Yes	Medium (NonForested)	Two strips of planted conifers have autumn olive planted in between.
48	31021 - Cool Season Grass	2.0	No	Medium (NonForested)	



Stand	Cover Type	Acres	Managed Site	Management Priority (Objective)	General Comments:
53	3301 - Low Density Deciduous Tree	8.3	No	Medium (NonForested)	
57	3103 - Rubus-Fern	2.1	Yes	Medium (NonForested)	
63	3303 - Mixed Low Density Trees	1.3	No	Low (NonForested)	Succeeding to forested cover.
69	3303 - Mixed Low Density Trees	1.6	No	Medium (NonForested)	
77	3103 - Rubus-Fern	3.0	No	Medium (NonForested)	
83	3301 - Low Density Deciduous Tree	67.0	No	Medium (NonForested)	
84	3103 - Rubus-Fern	39.8	Planted	Red Pine	Prior mature RP plantation here was final harvested in 2009-2010, trenched 2010, replanted spring 2011. Some scattered hardwood stump sprouts and small patches of aspen sprouts.



7 – PROPOSED SPECIAL CONSERVATION AREA* (SCA) DETAILS

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

Stand	SCA Type	SCA Name	Acres	Comments
24	Unique Site - SCA	61015024	119.9	Consider managing the Platte River State Forest Campground and surrounding area as a Special Conservation Area for riparian, recreation, deer winter cover, and potential old growth values. This area also includes the Platte Springs Pathway. Commercial cutting may be considered if it will enhance the values listed above. Other treatments may be justified for wildlife habitat improvement, pest management, control of invasive species, public safety, etc.



8 – DEDICATED CONSERVATION AREA DETAILS

* This is a list of Dedicated Biodiversity Areas for this compartment along with a 1/4 mile buffer surrounding the compartment. Refer to Dedicated Conservation Area Map for areas that the below listed Conservation Areas are located.

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

Conservation Area	Type	Description
SCA	Cold Water Stream	A coldwater stream has temperature and dissolved oxygen conditions that allow naturally-reproduced or stocked trout populations and those of other coldwater fish species (e.g., slimy sculpin) to persist from year to year. Coldwater streams in Michigan typically provide these conditions due to substantial contributions of groundwater to their stream flows. Such streams are established by Director's action and designated as trout resources by Fisheries Order 210.
SCA	Concentrated Recreation Area	Facilities that are designed and maintained for routine or heavy recreational use, including State Parks, State Forest campgrounds, motorized and non-motorized trails, trailheads, staging areas and public access sites.