



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

**COMPARTMENT # 014    ENTRY YEAR: 2013**

**Compartment Acreage: 3319      County: Benzie**

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**Stand Examiner:** Timothy Webb

**Legal Description:** T26N - R14W - Sections 1-3, 8, 10-16

**Management Goals:** Compartment 14 was previously managed under the Pere Marquette State Forest Plan as Resource Management Unit 109, designated for mixed use management. Past emphasis was on maintenance of fair to good quality northern hardwood stands and pine plantations; conversion of poorer quality hardwoods to aspen where possible; multiple age-class management of aspen; and conversion of low quality jack pine plantations to red pine.

During this 10 year period, the next series of aspen regeneration blocks can be created, mostly in the eastern part of the compartment. The resulting age-class diversity of early-successional forest will benefit ruffed grouse, snowshoe hare, and other wildlife. Aging jack pine plantations can also be cut, with some allowed to regenerate naturally to jack pine and others converted to red pine; some blocks will be left uncut to provide wildlife cover and gradually succeed to hardwoods. Some better quality hardwood stands are being targeted for selection or shelterwood harvests to promote mixed hardwood regeneration. Lower quality parts of these stands with a high proportion of aspen can be clearcut and allowed to regenerate to aspen in this and future planning periods. Additional prescriptions include thinning red pine plantations, planting conifers in an old field and an old gravel pit, and dispersed non-commercial habitat cuts in the Platte River valley lowlands.

In 1997, an old growth area was proposed within sections 15 and 16, composed predominantly of lowland forest in the Platte River valley. Most of this same block of land is now being forwarded for possible Special Conservation Area (SCA) status, to be managed as a remote, mature, late-successional forest. Several stands in this block have a high percentage of black ash, which is succumbing to emerald ash borer. Thus, the overstory species composition will shift significantly in the next several years, with large areas opening up considerably. An additional area just northwest of the Platte River Hatchery is being added to a proposed SCA in adjacent compartment 13.

**Soil and Topography:** Most of the compartment is level to rolling with some kettle depressions and draws. The valleys of Collison Creek and the Platte River cut through the compartment. Soils are predominantly sand types, including Fogg-Benzonia, Benzonia, Kaleva, and Nessen sands. Muck soils and small areas of loam occur in the river valley.

**Ownership Patterns, Development, and Land Use in and Around the Compartment:** Adjacent lands are mostly private to the west, south, and northeast of the compartment. There is adjoining state land in compartment 13 to the east and compartments 8 and 9 to the north. Within the compartment, there is a large, fairly contiguous block of state land north of U.S. 31; south of the highway the state ownership is more fragmented into smaller parcels. Private lands are mostly dispersed rural residential properties. The Platte River State Fish Hatchery abuts the southeast corner of the compartment; the Village of Honor is on the west side.

**Unique, Natural Features:** Collison Creek and a stretch of the Platte River run through the compartment.

**Archeological, Historical, and Cultural Features:** A prehistoric camp/cemetery and woodland mounds are documented in this area. An old, abandoned rail grade follows the river valley in the south part of the compartment.

**Special Management Designations or Considerations:** Most of the block of state land in sections 15 & 16 west of Goose Road is being proposed as a SCA. This area was proposed old growth in previous planning cycles. Also, the bluff along the Platte River just west of the hatchery is being added to the proposed riparian SCA in adjacent compartment 13.

**Watershed and Fisheries Considerations:** Portions of both Collison Creek and the Platte River flow through Compartment 14. Collison Creek is a designated Type 1 trout stream and the Platte River is a designated Type 4 trout stream. Since both of these streams are of high quality their trout populations are supported by natural reproduction, and they are not stocked. The Platte River is also the only broodstock source for the State of Michigan's coho salmon production program, and is a back-up broodstock source for the State of Michigan's steelhead production program. To keep these water bodies in good condition it is critical that BMP's and buffers are strictly adhered to. No clear cuts should take place in riparian areas as the shading and recruitment of woody debris to trout streams is highly desirable. Additionally, forest management for young aspen regeneration in the stream corridors should be avoided to discourage beaver activity. Management in the stream corridors should instead be for old-growth coniferous species, or at least for coniferous species.

**Wildlife Habitat Considerations:** State lands in sections 15 & 16 fall within a flat, poorly drained lake plain (LTA 6149) along the Platte River floodplain. Forests in these areas have been nominated as potential old growth. Allowing these forests to succeed naturally will provide mature riparian forest cover beneficial to species such as winter wren, golden-crowned kinglet, otter, pileated woodpecker, wintering deer, barred owl, gray fox, and wood frog.

State land in this compartment is predominately on glacial outwash plains of dry sandy soils. Wildfires were a common phenomenon on these dry soils and represent an important natural disturbance. These fires created and sustained a variety of fire driven communities; however parts of this landscape were at times shielded from fire to a degree. Consequently, some management for successional advanced hardwood/white pine stands is fitting to this compartment. Hardwood treatments should be designed to incorporate the preservation of tree species diversity, the retention of mature mast producing trees, and the protection of den, cavity, and downed trees. Beech is particularly important to wildlife in these drier hardwood types. Tops should be left onsite, unchipped, and in scattered piles for habitat. Many wildlife species, including broad-winged hawks, wild turkeys, southern flying squirrels, eastern gray squirrels, and Baltimore orioles, are associated with these forest types.

The northeastern part of the compartment has a history of aspen cutting. Such early successional management is appropriate and should be continued in this area, with additional aspen harvests scheduled this inventory cycle in order to increase age class diversity. The incorporation of snags, leave trees, brush piles, and downed logs in these cuts will help to replicate a wildfire-altered forest and increase wildlife use by species like grouse, woodcock, golden-winged warbler, and deer.

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.

Openings are an important part of this dry and fire prone landscape. Opening maintenance will continue in the compartment to benefit grassland species and species utilizing the edge component of these openings, such as, cedar waxwing, deer, wild turkey, mourning dove, meadow vole, or red fox.

**Mineral Resource and Development Concerns and/or Restrictions:** Surface sediments consist of glacial outwash sand and gravel and postglacial alluvium and a very minor amount of coarse-textured glacial till. The glacial drift thickness varies between 400 and 600 feet. Beneath the glacial drift is the Devonian Ellsworth and Antrim Shales. These shales are used for cement products. A gravel pit is located in Section 11. Gravel potential in the compartment is considered good. This area is located northwest of the current Antrim Shale gas play. Section 13 is leased for oil and gas development. The Antrim Shale appears to have potential, as a location is on State mineral rights in Section 13.

**Vehicle Access:** Access is quite limited to the dispersed state land parcels south of U.S. 31. Most of these parcels are either landlocked or are wetlands. Some hardwood parcels desirable for harvesting can only be accessed via private lands. The rest of the compartment north of U.S. 31 has reasonably good access for management and recreation, except for some individual areas where terrain is prohibitive. Some trails on the bluff in section 12 could be closed to prevent erosion.

**Survey Needs:** The majority of property corners defining state ownership have already been surveyed, but several needed corners remain unmonumented, particularly around the landlocked forties south of U.S. 31. There is a possible trespass in the northeast corner of section 16 that may require a survey to confirm.

**Recreational Facilities and Opportunities:** Vet's Memorial State Forest Campground is within this compartment, as is the entrance to the Platte River State Forest Campground. The Platte River snowmobile trail is also within the compartment. The Platte River is popular for trout fishing. There are good grouse hunting opportunities in the compartment, as well as deer and turkey hunting, mushrooming, and some trapping and waterfowl hunting in the river bottoms.

**Fire Protection:** Fire protection for this area is the responsibility of the Platte River DNR Office which is located within this compartment. Assistance is also available from the Homestead Township Volunteer Fire Department also located within the compartment boundary. Road access is fair to poor due to wet low lying areas. Water access for suppression is readily available and should be considered a plus for fire suppression planning. Wildfires in this compartment have been historically low to date. (Comments by: Rod Rader, Fire Supervisor, Traverse City Field Office).

**Additional Compartment Information:** Two small, isolated parcels in the SW ¼ of section 10 should be considered for disposal. Landlocked 40s in sections 14 and 15 would be candidates for exchange if desirable parcels were offered.

**\*\*\*\* 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**

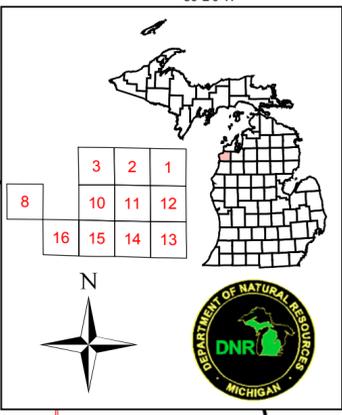
**Proposed treatments**

**Proposed SCAs**

# Cover Type & Treatment Map

Compartment 14  
 T26N, R14W, Sec. 1-3, 8, 10-16  
 County: Benzie  
 Unit: Traverse City  
 YOE: 2013  
 Acres: 3,319 GIS Calculated  
 Stand Examiner: Tim Webb  
 Map Revised: 6/6/2011  
 Map Phase: Pre-Review

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



**Legend**

- Highway
- Paved Roads
- Gravel Roads
- Poor Dirt Roads
- County Poor Dirt Roads
- Pipe
- Intermittent Stream/Drain
- Stream
- Lakes and Rivers
- Snowmobile Trails
- Snowmobile-Designated Trail

**Treatments**

- Thinning (Crown, Low, Systematic)
- Site Preparation
- Shelter Wood (w/Reserves)
- Selection (Group, Single Tree)
- Other Treatment - See Comments
- Clearcut (w/Reserves, Patch/Strip)

**Forest Stands**

Level 3

- 411 - Northern Hardwood
- 412 - Oak Types
- 413 - Aspen Types
- 421 - Planted Pines
- 422 - Natural Pines
- 423 - Other Upland Conifers
- 431 - Upland Mixed Forest
- 611 - Lowland Deciduous Forest
- 612 - Lowland Coniferous Forest
- 613 - Lowland Mixed Forest

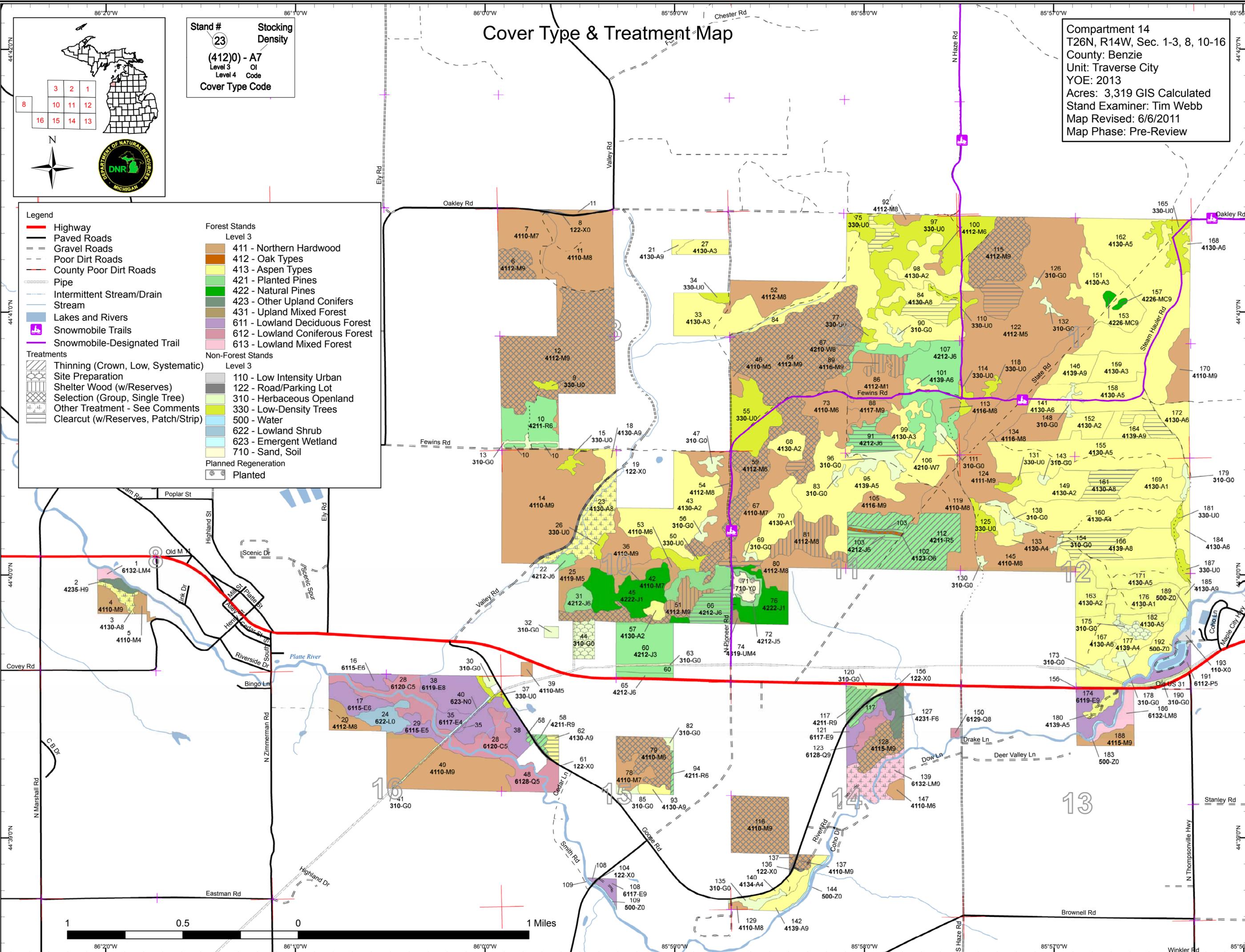
**Non-Forest Stands**

Level 3

- 110 - Low Intensity Urban
- 122 - Road/Parking Lot
- 310 - Herbaceous Openland
- 330 - Low-Density Trees
- 500 - Water
- 622 - Lowland Shrub
- 623 - Emergent Wetland
- 710 - Sand, Soil

**Planned Regeneration**

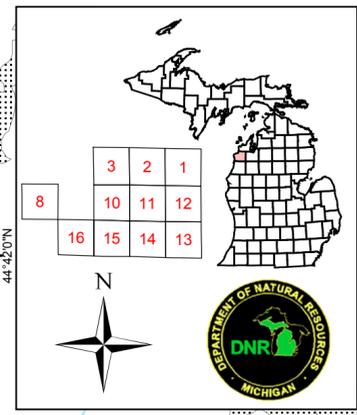
- Planted





# Dedicated & Proposed Special Conservation Area Map

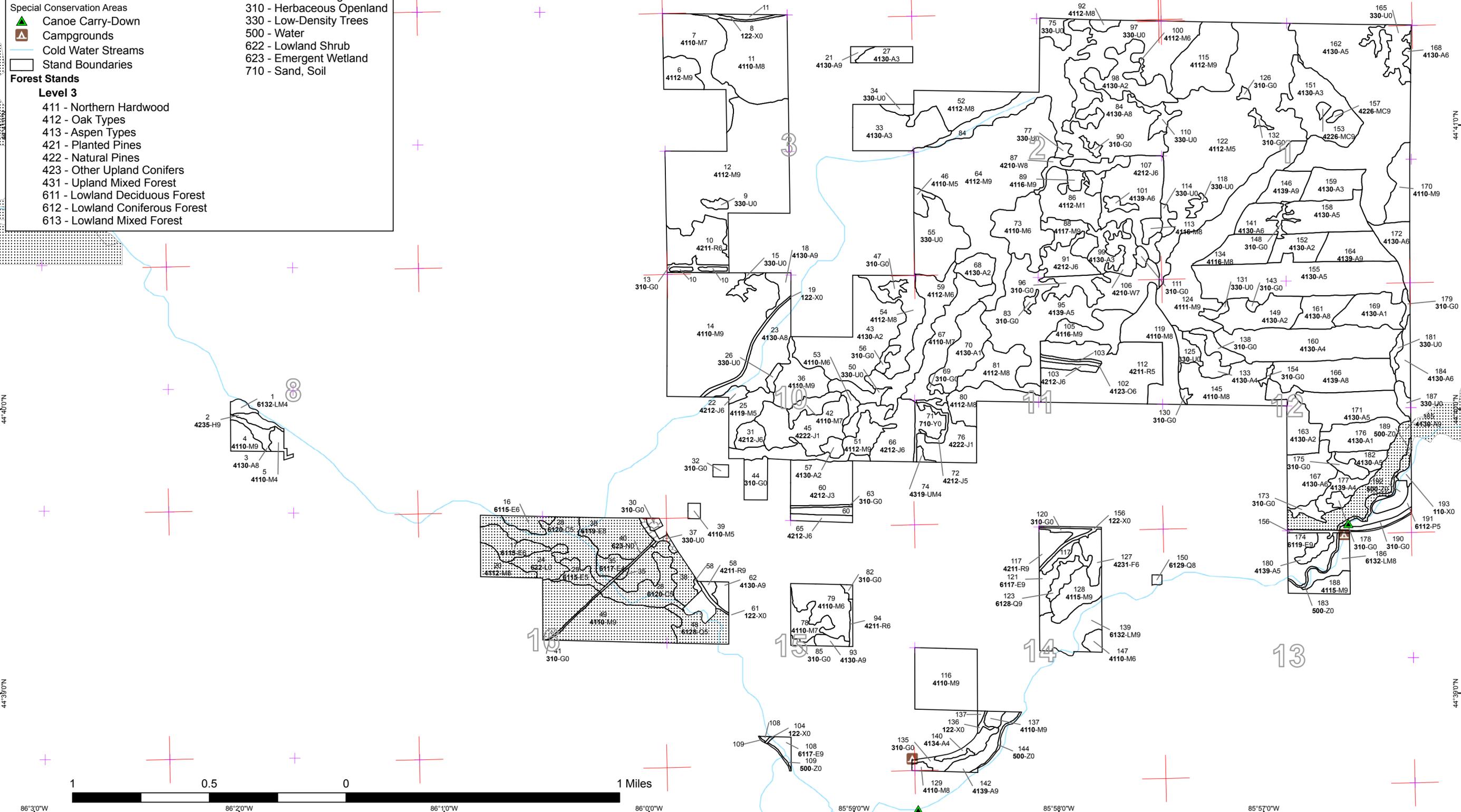
Compartment 14  
 T26N, R14W, Sec. 1-3, 8, 10-16  
 County: Benzie  
 Unit: Traverse City  
 YOE: 2013  
 Acres: 3,319 GIS Calculated  
 Stand Examiner: Tim Webb  
 Map Revised: 5/23/2011  
 Map Phase: Pre-Review



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

**Legend**

- Miris Corners
- Proposed Special Conservation Areas
  - SCA - Special Conservation Area
  - SCA Removal
- Special Conservation Areas
  - Canoe Carry-Down
  - Campgrounds
  - Cold Water Streams
  - Stand Boundaries
- Forest Stands**
  - Level 3**
    - 411 - Northern Hardwood
    - 412 - Oak Types
    - 413 - Aspen Types
    - 421 - Planted Pines
    - 422 - Natural Pines
    - 423 - Other Upland Conifers
    - 431 - Upland Mixed Forest
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    - 613 - Lowland Mixed Forest
- Non-Forest Stands**
  - Level 3**
    - 110 - Low Intensity Urban
    - 122 - Road/Parking Lot
    - 310 - Herbaceous Openland
    - 330 - Low-Density Trees
    - 500 - Water
    - 622 - Lowland Shrub
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    - 710 - Sand, Soil



**Table 1 – Total Acres by Cover Type and Age Class**



	Age Class														Total	
	Non-Forested	1-9	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	0	195	135	374	30	109	118	4	0	5	0	0	0	0	128	1098
Cedar	0	0	0	0	0	0	0	0	0	0	0	46	0	0	0	46
Hemlock	0	0	0	0	0	0	0	0	0	0	0	4	0	0	0	4
Herbaceous Openland	85	0	0	0	0	0	0	0	0	0	0	0	0	0	0	85
Jack Pine	0	54	34	0	0	0	45	59	0	0	0	0	0	0	0	192
Low-Density Trees	162	0	0	0	0	0	0	0	0	0	0	0	0	0	0	162
Lowland Aspen/Balsam Poplar	0	0	0	0	0	0	0	0	0	0	0	0	0	0	7	7
Lowland Conifers	0	0	0	0	0	0	0	0	6	0	0	0	0	38	1	45
Lowland Deciduous	0	0	0	0	7	13	7	15	0	9	0	0	0	0	55	106
Lowland Mixed Forest	0	0	0	0	0	0	0	32	0	0	0	0	0	0	3	35
Lowland Shrub	11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	11
Marsh	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
Natural Mixed Pines	0	0	0	0	0	0	0	3	0	0	0	0	0	0	0	3
Northern Hardwood	0	0	0	0	30	4	4	9	317	283	507	3	0	0	191	1347
Oak	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	2
Red Pine	0	0	0	27	1	0	76	2	0	0	0	0	0	0	0	106
Sand, Soil	8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	8
Upland Mixed Forest	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	1
Upland Spruce/Fir	0	0	0	0	0	0	8	0	0	0	0	0	0	0	0	8
Urban	16	0	0	0	0	0	0	0	0	0	0	0	0	0	0	16
Water	15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	15
White Pine	0	0	0	0	0	0	0	19	0	0	0	0	0	0	0	19
<b>Total</b>	<b>299</b>	<b>249</b>	<b>168</b>	<b>400</b>	<b>68</b>	<b>125</b>	<b>261</b>	<b>142</b>	<b>324</b>	<b>298</b>	<b>507</b>	<b>53</b>	<b>0</b>	<b>38</b>	<b>386</b>	<b>3319</b>



## Table 2 – Proposed Treatment Summaries

**Traverse City Mgt. Unit**  
**Year of Entry 2013**

**Compartment 014**  
**Total Compartment Acres: 3319**

### Acres by Treatment Type

Commercial Harvest - 675	Site Prep - 15	Tree Planting - 0	Prescribed Burn - 0	Other - 55
Habitat Cut - 0	Opening Maintenance - 0	Tree Seeding - 0	Pesticide - 0	

### Cover Type by Harvest Method

		Clearcut	Selection	Seed Tree	Shelterwood	Thinning	Other - Specify	Total Acres
<b>Aspen</b>	65	0	0	0	0	0		<b>65</b>
<b>Jack Pine</b>	33	0	0	0	0	0		<b>33</b>
<b>Northern Hardwood</b>	21	427	0	39	0	0		<b>488</b>
<b>Oak</b>	0	2	0	0	0	0		<b>2</b>
<b>Red Pine</b>	0	0	0	0	80	0		<b>80</b>
<b>Upland Spruce/Fir</b>	0	0	0	0	7	0		<b>7</b>
<b>Total</b>	<b>119</b>	<b>429</b>	<b>0</b>	<b>39</b>	<b>87</b>	<b>0</b>		<b>675</b>



S t a n d	Treatment Name	Acres	Stage1 CoverType	Size Density	Stand Age	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
6	<b>61014006-Cut</b>	12.1	4112 - Maple, Beech, Cherry Association	High Density Log	91	Harvest	Single Tree Selection	4112 - Maple, Beech, Cherry Association	Cmpt. Review Proposal
<p><u>Prescription</u> Mark for thinning, focussing removal on poorer quality and multi-stemmed trees. Lower BA to 80-90. Retain some cherry, beech for mast production.</p> <p><u>Specs:</u></p> <p><u>Other</u> <u>Comments:</u></p> <p><u>Next</u> None. <u>Steps:</u></p>									
51	<b>61014051- selection</b>	14.1	4112 - Maple, Beech, Cherry Association	High Density Log	90	Harvest	Single Tree Selection	4112 - Maple, Beech, Cherry Association	Cmpt. Review Proposal
<p><u>Prescription</u> Mark for thinning with a residual BA of about 80-90. Create some CWD during harvest.</p> <p><u>Specs:</u></p> <p><u>Other</u> <u>Comments:</u></p> <p><u>Next</u> None. <u>Steps:</u></p>									
51	<b>61014051- shelterwood</b>	8.7	4112 - Maple, Beech, Cherry Association	High Density Log	90	Harvest	Shelterwood	4112 - Maple, Beech, Cherry Association	Cmpt. Review Proposal
<p><u>Prescription</u> Mark for harvest with a residual BA of 30-50, retaining some better quality hardwoods for seed/shade. Remove jack pine. Leave some coarse woody debris (1-2 logs per acre).</p> <p><u>Specs:</u></p> <p><u>Other</u> <u>Comments:</u></p> <p><u>Next</u> Conduct regeneration checks at appropriate intervals. Mixed hardwood saplings are desired regeneration, although initial dominance of ironwood and beech is likely. <u>Steps:</u></p>									
58	<b>61014058-Cut</b>	2.4	42110 - Planted Red Pine	High Density Log	61	Harvest	Crown Thinning	42110 - Planted Red Pine	Cmpt. Review Proposal
<p><u>Prescription</u> Mark for thinning, removing about 1/3 of the trees.</p> <p><u>Specs:</u></p> <p><u>Other</u> <u>Comments:</u> Access for harvesting may be difficult. The part of the stand west of Goose Rd. has little room for a landing and may have to be left out of the sale. The part east of the road was previously thinned with access across private land, which may have to be used again if the landowner grants permission.</p> <p><u>Next</u> None. <u>Steps:</u></p>									
59	<b>61014059-Cut</b>	33.2	4112 - Maple, Beech, Cherry Association	High Density Pole	85	Harvest	Single Tree Selection	4112 - Maple, Beech, Cherry Association	Cmpt. Review Proposal
<p><u>Prescription</u> Mark for thinning, with a residual BA of 80-90. Create some coarse woody debris (1-2 logs per acre). Focus removal on multi-stemmed and low-quality trees. Use contract specs to protect the adjacent snowmobile trail.</p> <p><u>Specs:</u></p> <p><u>Other</u> <u>Comments:</u></p> <p><u>Next</u> None. <u>Steps:</u></p>									



S t a n d	Treatment Name	Acres	Stage1 CoverType	Size Density	Stand Age	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
62	61014062-Cut	3.6	4130 - Aspen	High Density Log	61	Harvest	Clearcut with Reserves	4130 - Aspen	Cmpt. Review Proposal
<p><u>Prescription</u> Cut all aspen over 2" dbh. Leave most or all trees of other species for retention.  <u>Specs:</u>  <u>Other</u> Combine with adjacent pine thinning on one sale. Access will probably be restricted to adjacent private land.  <u>Comments:</u>  <u>Next</u> None. Should regenerate adequately with aspen sprouts.  <u>Steps:</u></p>									
64	61014064-Cut	134.2	4112 - Maple, Beech, Cherry Association	High Density Log	91	Harvest	Single Tree Selection	4112 - Maple, Beech, Cherry Association	Cmpt. Review Proposal
<p><u>Prescription</u> Mark for harvest with a residual BA of 80-90. Retain some beech/cherry for mast. Create some coarse woody debris (1-2 logs per acre). Use contract specs to protect the adjacent snowmobile trail.  <u>Specs:</u>  <u>Other</u>  <u>Comments:</u>  <u>Next</u> None.  <u>Steps:</u></p>									
66	61014066-Cut	14.5	42120 - Planted Jack Pine	High Density Pole	60	Harvest	Clearcut with Reserves	42110 - Planted Red Pine	Cmpt. Review Proposal
<p><u>Prescription</u> Clearcut, retaining only some scattered hardwoods and/or a small reserve island dominated by hardwoods. Use contract specs to protect the adjacent snowmobile trail.  <u>Specs:</u>  <u>Other</u>  <u>Comments:</u>  <u>Next</u> Site prep for red pine planting. Control of jack pine volunteers may be necessary. An alternative would be to just allow jack pine to regenerate the site on its own.  <u>Steps:</u></p>									
67	61014067-Cut	6.0	4110 - Sugar Maple Association	Low Density Log	71	Harvest	Clearcut with Reserves	4130 - Aspen	Cmpt. Review Proposal
<p><u>Prescription</u> Clearcut to a 2" diameter limit, marking some individual hardwoods for retention. Use contract specs to protect the adjacent snowmobile trail.  <u>Specs:</u>  <u>Other</u>  <u>Comments:</u>  <u>Next</u> Site should regenerate adequately with aspen sprouts.  <u>Steps:</u></p>									
81	61014081-Cut	22.9	4112 - Maple, Beech, Cherry Association	Medium Density Log	90	Harvest	Shelter Wood with Reserves	4112 - Maple, Beech, Cherry Association	Cmpt. Review Proposal
<p><u>Prescription</u> Shelterwood cut, retaining some single-stemmed hardwood poles &amp; saplings along with some mature leave trees. Residual BA of 30-50.  <u>Specs:</u>  <u>Other</u>  <u>Comments:</u>  <u>Next</u> Check for hardwood regeneration at appropriate intervals following harvest. Harvest should result in a mix of hardwood seedlings and saplings, including new in-growth as well as advanced regeneration retained in the harvest operation.  <u>Steps:</u></p>									



S t a n d	Treatment Name	Acres	Stage1 CoverType	Size Density	Stand Age	Treatment Type	Treatment Method	Cover Type Objective	Approval
									Status
84	61014084-Cut	17.9	4130 - Aspen	Medium Density Log	51	Harvest	Clearcut with Reserves	4130 - Aspen	Cmpt. Review Proposal
<p><u>Prescription</u> Clearcut to a 2" diameter limit, retaining individually marked hardwoods or small reserve islands totalling about 5% of the area. Use contract <u>Specs:</u> specs to protect the adjacent snowmobile trail.</p> <p><u>Other</u> <u>Comments:</u></p> <p><u>Next</u> Harvesting should result in adequate aspen regeneration. <u>Steps:</u></p>									
89	61014089-Cut	7.7	4116 - Mixed N. Hardwood - Aspen	High Density Log	88	Harvest	Shelter Wood with Reserves	4116 - Mixed N. Hardwood - Aspen	Cmpt. Review Proposal
<p><u>Prescription</u> Shelterwood cut, removing all the aspen and much of the older poor-quality maple, resulting in a younger mixed aspen/hardwood stand. Create <u>Specs:</u> some CWD during harvest. Residual BA: +/- 50.</p> <p><u>Other</u> <u>Comments:</u></p> <p><u>Next</u> Check for hardwood regeneration at appropriate intervals following harvest. Harvest should result in a mix of hardwood seedlings and saplings, <u>Steps:</u> including new in-growth as well as advanced regeneration retained in the harvest operation.</p>									
91	61014091-Cut	13.8	42120 - Planted Jack Pine	High Density Pole	60	Harvest	Clearcut with Reserves	42220 - Natural Jack Pine	Cmpt. Review Proposal
<p><u>Prescription</u> Clearcut to a 2" diameter limit. Mark small clumps of trees for retention, focusing on mature hardwoods or hardwood saplings. <u>Specs:</u></p> <p><u>Other</u> <u>Comments:</u></p> <p><u>Next</u> Stand should regenerate naturally with mixed jack pine and hardwood seedlings, plus some retained advanced hardwood regeneration. <u>Steps:</u></p>									
102	61014102-Cut	2.0	4123 - Red Oak	High Density Pole	59	Harvest	Single Tree Selection	4123 - Red Oak	Cmpt. Review Proposal
<p><u>Prescription</u> Mark for thinning to release oak crop trees. Residual BA: 90-100. <u>Specs:</u></p> <p><u>Other</u> Set up for sale in conjunction with adjacent pine thinning. <u>Comments:</u></p> <p><u>Next</u> None. <u>Steps:</u></p>									
103	61014103-Cut	5.2	42120 - Planted Jack Pine	High Density Pole	59	Harvest	Clearcut with Reserves	42290 - Natural Mixed Pine	Cmpt. Review Proposal
<p><u>Prescription</u> Clearcut jack pine, retain red pine. Whole-tree harvest and chip. Consider limiting harvest to snow-free seasons to encourage soil scarification. <u>Specs:</u></p> <p><u>Other</u> Set up sale in conjunction with adjacent red pine thinning. <u>Comments:</u></p> <p><u>Next</u> Allow natural regeneration. Seed sources include jack pine seed bank in soil, as well as retained within-stand red pine and red pine in adjacent <u>Steps:</u> stand. A mix of pine regeneration is desirable, although jack pine may dominate if there is a lot of dormant seed on site.</p>									



S t a n d	Treatment Name	Acres	Stage1 CoverType	Size Density	Stand Age	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
112	61014112-Cut	65.8	42110 - Planted Red Pine	Medium Density Pole	59	Harvest	Crown Thinning	42110 - Planted Red Pine	Cmpt. Review Proposal
<p><u>Prescription</u> Mark for thinning, taking out about 1/3 of the trees to a residual BA of +/- 120. Leave any species other than red pine standing as much as possible.</p> <p><u>Specs:</u></p> <p><u>Other Comments:</u></p> <p><u>Next Steps:</u> None.</p>									
115	61014115-Cut	37.1	4112 - Maple, Beech, Cherry Association	High Density Log	85	Harvest	Single Tree Selection	4112 - Maple, Beech, Cherry Association	Cmpt. Review Proposal
<p><u>Prescription</u> Mark for thinning; focus on removing lower quality trees, overmature beech, multi-stemmed trees, etc. Residual BA: +/- 90. Create some regeneration holes and CWD. Use contract specs to protect the adjacent snowmobile trail.</p> <p><u>Specs:</u></p> <p><u>Other Comments:</u></p> <p><u>Next Steps:</u> None. Some mixed hardwood stump sprouts and seedlings are desirable in the regeneration holes.</p>									
117	61014117-Cut	10.1	42110 - Planted Red Pine	High Density Log	55	Harvest	Crown Thinning	42110 - Planted Red Pine	Cmpt. Review Proposal
<p><u>Prescription</u> Mark for thinning. Remove about 1/3 of BA. Retain cherry for diversity as much as possible.</p> <p><u>Specs:</u></p> <p><u>Other Comments:</u> Significant slopes and utility lines may reduce harvestable acreage.</p> <p><u>Next Steps:</u> None.</p>									
122	61014122-Cut	15.1	4112 - Maple, Beech, Cherry Association	Medium Density Pole	73	Harvest	Clearcut with Reserves	4130 - Aspen	Cmpt. Review Proposal
<p><u>Prescription</u> Clearcut to a 2" diameter limit. Mark individuals/clumps of hardwoods for retention. Use contract specs to protect the adjacent snowmobile trail.</p> <p><u>Specs:</u></p> <p><u>Other Comments:</u> This is a patch cut within a hardwood stand, focused on a part of the stand with a higher proportion of mature aspen.</p> <p><u>Next Steps:</u> None. The cut area should regenerate adequately with stump sprouts. Some hardwood seedlings and stump sprouts are also likely and desirable in the mix.</p>									
127	61014127-Cut	7.4	42310 - Planted Spruce	High Density Pole	51	Harvest	Systematic Thinning	42310 - Planted Spruce	Cmpt. Review Proposal
<p><u>Prescription</u> Cut about 1/3 of the spruce and white pine BA, cut all Austrian pine. Do a third-row thinning if possible; otherwise mark swaths to cut through the plantation. Retain hardwoods as much as possible for in-stand diversity.</p> <p><u>Specs:</u></p> <p><u>Other Comments:</u></p> <p><u>Next Steps:</u> None.</p>									
128	61014128-Cut	15.4	4115 - Y.Birch, Hemlock NH	High Density Log	87	Harvest	Group Selection	4115 - Y.Birch, Hemlock NH	Cmpt. Review Proposal
<p><u>Prescription</u> Cut small patches of hardwoods/aspen throughout the stand, avoiding denser concentrations of hemlock as much as possible. Connecting swaths may also have to be marked between cut patches for operability.</p> <p><u>Specs:</u></p> <p><u>Other Comments:</u> Set up this sale in concert with the adjacent spruce plantation thinning. Harvesting during winter months is desirable to make slash available for deer browse.</p> <p><u>Next Steps:</u> None. Hardwood stump sprouts and seedlings, and aspen root sprouts, are desired regeneration in cut patches. These will likely be heavily browsed by deer in winter, retarding growth. With time some may grow past the deer and eventually become canopy trees.</p>									



S t a n d	Treatment Name	Acres	Stage1 CoverType	Size Density	Stand Age	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
137	61014137-Cut	3.4	4110 - Sugar Maple Association	High Density Log	105	Harvest	Single Tree Selection	4110 - Sugar Maple Association	Cmpt. Review Proposal
<p><u>Prescription</u> Mark for thinning down to a residual BA of about 90.  <u>Specs:</u>  <u>Other</u> Small stand; set up sale in conjunction with larger stand to the NW if possible.  <u>Comments:</u>  <u>Next</u> None.  <u>Steps:</u></p>									
161	61014161-Cut	14.7	4130 - Aspen	Medium Density Log	51	Harvest	Clearcut with Reserves	4130 - Aspen	Cmpt. Review Proposal
<p><u>Prescription</u> Clearcut to a 2" diameter limit, retaining all conifers and marked individuals/clumps of hardwoods.  <u>Specs:</u>  <u>Other</u>  <u>Comments:</u>  <u>Next</u> None. Stand should regenerate adequately with aspen sprouts. Some hardwood seedlings and stump sprouts are also likely and desirable.  <u>Steps:</u></p>									
164	61014164-Cut	9.5	4139 - Aspen, Mixed Deciduous	High Density Log	59	Harvest	Clearcut with Reserves	4130 - Aspen	Cmpt. Review Proposal
<p><u>Prescription</u> Clearcut to a 2" diameter limit, retaining all conifers and marked individuals/clumps of hardwoods.  <u>Specs:</u>  <u>Other</u>  <u>Comments:</u>  <u>Next</u> None. Stand should regenerate adequately with aspen sprouts. Some hardwood seedlings and stump sprouts are also likely and desirable.  <u>Steps:</u></p>									
166	61014166-Cut	19.0	4139 - Aspen, Mixed Deciduous	Medium Density Log	51	Harvest	Clearcut with Reserves	4130 - Aspen	Cmpt. Review Proposal
<p><u>Prescription</u> Clearcut to a 2" diameter limit, retaining all conifers and marked individuals/clumps of hardwoods.  <u>Specs:</u>  <u>Other</u>  <u>Comments:</u>  <u>Next</u> None. Stand should regenerate adequately with aspen sprouts. Some hardwood seedlings and stump sprouts are also likely and desirable.  <u>Steps:</u></p>									
175	NF_61014175- Prep	5.0	Non-Forested		0	Site Prep	Trenching	42310 - Planted Spruce	Cmpt. Review Proposal
<p><u>Prescription</u> Trench for subsequent white spruce planting.  <u>Specs:</u>  <u>Other</u>  <u>Comments:</u>  <u>Next</u> Plant white spruce seedlings.  <u>Steps:</u></p>									
3	61014003- habitat cut	4.5	4130 - Aspen	Medium Density Log	57	Other	Unspecified	4130 - Aspen	Cmpt. Review Proposal
<p><u>Prescription</u> Cut aspen non-commercially in winter to create a browse resource for deer and to regenerate aspen.  <u>Specs:</u>  <u>Other</u> If not all cut in the same winter, cut in solid blocks for better regeneration.  <u>Comments:</u>  <u>Next</u> None.  <u>Steps:</u></p>									

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



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Treatment Name	Acres	Stage1 CoverType	Size Density	Stand Age	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
<b>23 61014023-habitat cut</b>	27.8	4130 - Aspen	Medium Density Log	82	Other	Unspecified	4130 - Aspen	Cmpt. Review Proposal

Prescription: Cut small patches of aspen non-commercially in winters to produce browse for deer and to create small regeneration patches. Avoid cutting in heavy concentrations of hemlock and cedar.

Other Comments: Cutting will only occur in small patches (<1 acre) and will not cover the entire stand. Allow the stand to generally move successional toward red maple/hemlock.

Next Steps: None.

<b>139 61014139-Other</b>	22.9	6132 - Mixed Lowland Forest with Cedar	High Density Log	66	Other	Unspecified	6132 - Mixed Lowland Forest with Cedar	Cmpt. Review Proposal
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Prescription: Cut small patches of deciduous trees as needed during the 10-year planning cycle to create browse from slash and to regenerate trees as a future browse resource.

Other Comments: Only select areas of the stand may be cut. Exact locations will be determined on an as-needed basis.

Next Steps: None.

**Total Treatment  
Acreage Proposed: 555.9**



Stand	Treatment Name	Acres	Stage1 CoverType	Size Density	Stand Age	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
12	61014012-Cut	115.4	4112 - Maple, Beech, Cherry Association	High Density Log	91	Harvest	Single Tree Selection	4112 - Maple, Beech, Cherry Association	Cmpt. Review Proposal
<p><u>Prescription</u> Mark for thinning, with a residual BA of 80-90. Marking and sale specs should consider the presence of EAB and beech scale in the stand.  <u>Specs:</u> Create some regeneration holes. Mark judiciously around existing hemlock to prevent damage and to promote release or regeneration of additional hemlock.</p> <p><u>Other Comment:</u></p> <p><u>Next Steps:</u> None. Mixed hardwood saplings are desired in regeneration holes, although initial dominance of ironwood and beech is likely.</p> <p><u>Limiting Factor and No. Treatment Reason</u> 3B: T &amp; E or special concern (name) Stick nest found in stand needs to be checked for occupancy/species prior to marking stand for harvest.</p>									
79	61014079-Cut	22.5	4110 - Sugar Maple Association	High Density Pole	78	Harvest	Single Tree Selection	4110 - Sugar Maple Association	Cmpt. Review Proposal
<p><u>Prescription</u> Mark for thinning; focus harvest on low quality, multi-stemmed sugar maple; residual BA 80-90. Create some CWD during harvest.  <u>Specs:</u></p> <p><u>Other Comment:</u></p> <p><u>Next Steps:</u> None needed.</p> <p><u>Limiting Factor and No. Treatment Reason</u> 1G: Neighbor Parcel is landlocked, will need to obtain private access for any management. Also, a survey may be necessary to establish property boundaries.</p>									
94	61014094-Cut	1.5	42110 - Planted Red Pine	High Density Pole	35	Harvest	Systematic Thinning	42110 - Planted Red Pine	Cmpt. Review Proposal
<p><u>Prescription</u> 3rd row thin. Rows to be cut may need to be marked periodically if irregular.  <u>Specs:</u></p> <p><u>Other Comment:</u></p> <p><u>Next Steps:</u> None.</p> <p><u>Limiting Factor and No. Treatment Reason</u> 1G: Neighbor Parcel is landlocked and will require permission from private neighbors for access.</p>									
116	61014116-Cut	40.0	4110 - Sugar Maple Association	High Density Log	98	Harvest	Single Tree Selection	4110 - Sugar Maple Association	Cmpt. Review Proposal
<p><u>Prescription</u> Mark for thinning with a residual BA of about 80-90. Create some CWD during harvest.  <u>Specs:</u></p> <p><u>Other Comment:</u></p> <p><u>Next Steps:</u> None.</p> <p><u>Limiting Factor and No. Treatment Reason</u> 1G: Neighbor Parcel is landlocked, will need to obtain private access for any management. Also, a survey may be necessary to establish property boundaries.</p>									

**Table 4 -- Treatments Prescribed with a Limiting Factor**



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Treatment Name	Acres	Stage1 CoverType	Size Density	Stand Age	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
44 NF_61014044-Prep	10.0	Non-Forested		0	Site Prep	Trenching	42110 - Planted Red Pine	Cmpt. Review Proposal

Prescription Trench for pine planting in old field.

Specs:

Other May need a land survey to determine property boundaries.

Comment:

Next Plant red pine after trenching is completed.

Steps:

Limiting Factor and No 2H: Survey needed

Treatment Reason May need a land survey to determine property boundaries.

**Total Treatment  
Acreage Proposed: 189.4**

Stand	Traverse City Mgt. Unit		5 – Forested Stands			Compartment: 014	General Comments:
	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Year of Entry: 2013	
1	6132 - Mixed Lowland Forest with Cedar	Low Density Pole	2.8	Uneven Age			Stand is in the Platte River floodplain. Some highbush cranberry and red-osier dogwood along the river bank.
2	42350 - Upland Hemlock	High Density Log	3.6	105	171-200		Stand is in the Platte River floodplain. Cedar is concentrated along the river. Scattered yellow and paper birch present. Hemlock is of excellent quality.
3	4130 - Aspen	Medium Density Log	4.5	Uneven Age			Stand has some aspen blowdown, is succeeding to sugar maple.
4	4110 - Sugar Maple Association	High Density Log	7.3	87	111-140		Good quality sugar maple.
5	4110 - Sugar Maple Association	Low Density Pole	3.7	32	1-50		Hardwoods encroaching into an old field, mainly open-grown cherry with maple regeneration under the cherry. There is a patch of mature sugar maple by the road access point in the southeast corner, and scattered Scotch pine, white pine, and elm pole trees.
6	4112 - Maple, Beech, Cherry Association	High Density Log	12.1	91	81-110		Mixed quality, density stand: generally poor, open grown trees, but a little better on hill in NE part of stand.
7	4110 - Sugar Maple Association	Low Density Log	34.8	86	1-50		2-aged stand, with reasonably well- stocked hardwood saplings under scattered, older open-grown cherry and maple, plus open patches.
10	42110 - Planted Red Pine	High Density Pole	26.6	29	111-140		
11	4110 - Sugar Maple Association	Medium Density Log	57.6	91	81-110		Good quality timber. Patchy distribution of sugar maple saplings; black cherry is stump sprouting well. There is a flush of ironwood seedlings resulting from the last thinning. Small amounts of white ash & yellow birch.
12	4112 - Maple, Beech, Cherry Association	High Density Log	116.5	91	141-170		Patches of nice hemlock regeneration in the south end of the stand, plus a few older canopy hemlock. Generally good quality timber.
14	4110 - Sugar Maple Association	High Density Log	108.3	Uneven Age	81-110		Stand is hilly with a steep, mostly inoperable bluff paralleling Valley Road. There are several patches of advanced hardwood regeneration. Density and quality are somewhat variable. Stand includes some small, scattered patches of quaking aspen.
16	6115 - Lowland Ash	High Density Pole	6.2	Uneven Age			Some red maple, white pine, paper birch in stand.
17	6115 - Lowland Ash	High Density Pole	12.7	46			
18	4130 - Aspen	High Density Log	5.5	83	51-80		The stand is low, seasonally wet along Valley Road, brushy, with numerous blowdowns. Stand is succeeding to hardwoods.





Stand	Traverse City Mgt. Unit		5 – Forested Stands			Compartment: 014 Year of Entry: 2013	
	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:	
20	4112 - Maple, Beech, Cherry Association	Medium Density Log	10.0	Uneven Age	81-110		
21	4130 - Aspen	High Density Log	2.0	46		A flowage separates this stand from the adjacent aspen stand. Quaking aspen has phellinus.	
22	42120 - Planted Jack Pine	High Density Pole	3.1	60		Some mortality in JP.	
23	4130 - Aspen	Medium Density Log	27.8	Uneven Age	81-110	Collison Creek runs through the stand. Aspen is generally overmature, but there appears to be some variation in age. There is a lot of phellinus, and some mortality in aspen. Low areas along the creek have saturated soil.	
25	4119 - Mixed Northern Hardwoods	Medium Density Pole	12.1	85	51-80	steep hills	
27	4130 - Aspen	High Density Sapling	8.4	17			
28	6120 - Lowland Cedar	Medium Density Pole	45.8	106		Riparian, along Platte River. Some areas are fairly open with a significant amount of dead or poor condition cedar.	
29	6115 - Lowland Ash	Medium Density Pole	7.2	50		Some hemlock, basswood in stand.	
31	42120 - Planted Jack Pine	High Density Pole	7.1	60		Some mortality in jack pine. Most of the stand has a good stocking of advanced maple regeneration.	
33	4130 - Aspen	High Density Sapling	36.4	17		Stand has some remnant mature trees, mostly along Pioneer Rd.: sugar maple, red maple, black cherry, & quaking aspen.	
35	6117 - Lowland Deciduous, Mixed Coniferous	Low Density Pole	6.6	34			
36	4110 - Sugar Maple Association	High Density Log	20.5	77	81-110		
38	6119 - Mixed Lowland Deciduous Forest	Medium Density Log	45.2	Uneven Age		There are some old apple trees in the SE lobe of the stand.	
39	4110 - Sugar Maple Association	Medium Density Pole	2.0	38	51-80	This is a small parcel with hardwood poletimber on a steep hillside and an open field at the top of the hill.	
42	4110 - Sugar Maple Association	Low Density Log	7.6	90	51-80	Stand has mostly low quality, multi-stemmed sugar maple.	
43	4130 - Aspen	Medium Density	58.9	17		Scattered residual hardwoods, mostly sugar maple.	
45	42220 - Natural Jack Pine	Low Density Sapling	34.1	5		Well stocked with jack pine volunteers to 5'.	

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## Traverse City Mgt. Unit

## 5 – Forested Stands

Compartment: 014

Year of Entry: 2013



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
46	4110 - Sugar Maple Association	Medium Density Pole	3.8	40	1-50	
48	6128 - Lowland Coniferous, Mixed Deciduous	Medium Density Pole	37.6	120		Red pine is on upland bank along Goose Road; stand slopes downward from there toward the river.
49	4110 - Sugar Maple Association	High Density Log	42.4	85	111-140	Several draws cut through the stand; steep hillsides.
51	4112 - Maple, Beech, Cherry Association	High Density Log	22.9	90	81-110	NE part of stand is sparser, lower quality.
52	4112 - Maple, Beech, Cherry Association	Medium Density Log	25.9	84	81-110	Thinned in 2009. there are scattered areas with aspen sprouts as a result of the thinning.
53	4110 - Sugar Maple Association	High Density Pole	3.0	90	81-110	scattered quaking aspen & jack pine
54	4112 - Maple, Beech, Cherry Association	Medium Density Log	24.4	86	51-80	Patchy distribution of trees, some open gaps, some regen patches. Generally low quality, many multi-stemmed trees.
57	4130 - Aspen	Medium Density	3.5	5		
58	42110 - Planted Red Pine	High Density Log	2.4	61	200+	Part of stand east of road was thinned in 2005.
59	4112 - Maple, Beech, Cherry Association	High Density Pole	33.2	85	111-140	Low to medium quality timber, numerous multi-stemmed trees.
60	42120 - Planted Jack Pine	High Density Sapling	33.6	15		1/2 acre inclusion near middle of stand is a pure patch of black cherry, +/- 5" dbh.
62	4130 - Aspen	High Density Log	3.6	61		North end of stand is open hardwoods, steep.
64	4112 - Maple, Beech, Cherry Association	High Density Log	134.2	91	111-140	
65	42120 - Planted Jack Pine	High Density Pole	4.4	60		Stand is a buffer strip between U.S. 31 and a young pine plantation.
66	42120 - Planted Jack Pine	High Density Pole	27.4	60	81-110	
67	4110 - Sugar Maple Association	Low Density Log	33.1	71	51-80	Some scattered red and white pine, honeysuckle; aspen is in scattered clones, mostly at the south end; jack pine also is mainly in the south end. Cherry is open-grown, low quality. Good game habitat.
68	4130 - Aspen	Medium Density	9.5	5		

Stand	Traverse City Mgt. Unit		5 – Forested Stands			Compartment: 014	General Comments:
	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Year of Entry: 2013	
70	4130 - Aspen	Low Density Sapling	24.8	5			The stand has scattered young jack and red pine, juneberry, and residual red maple saplings and poles. Stand is reasonably well stocked with aspen, but there are some open patches, which may eventually fill in.
72	42120 - Planted Jack Pine	Medium Density Pole	3.4	60			
73	4110 - Sugar Maple Association	High Density Pole	27.7	71	81-110		
74	4319 - Mixed Upland Forest	Low Density Pole	1.3	70			
76	42220 - Natural Jack Pine	Low Density Sapling	20.0	5			Planted to red pine in 2007, but volunteer jack pine is dominating the regeneration.
78	4110 - Sugar Maple Association	Low Density Log	9.8	Uneven Age	1-50		Open grown hardwoods are gradually reforesting this site. Small amount of a red pine plantation on adjacent private land appears to extend into the west edge of this stand.
79	4110 - Sugar Maple Association	High Density Pole	22.5	78	111-140		
80	4112 - Maple, Beech, Cherry Association	Medium Density Log	18.7	90	81-110		
81	4112 - Maple, Beech, Cherry Association	Medium Density Log	22.9	90	81-110		Aspen is in scattered clones. Older maple is of low quality, mostly multi-stemmed.
84	4130 - Aspen	Medium Density Log	92.4	Uneven Age	51-80		Stand has patchy aspen clones serving as a nurse crop for fairly well-stocked maple regeneration. Aspen has some variation in age, mainly +/- 50, and is beginning to deteriorate. Hemlock is concentrated in the SW finger of the stand. Cherry is generally old, low quality.
86	4112 - Maple, Beech, Cherry Association	Low Density Sapling	23.8	38	1-50		This former jack pine plantation was cut in 2007 and replanted to red pine in 2008. Residual hardwood saplings and poles define the cover type, but the long-term intention is for pine. Jack pine seedlings are coming in thicker than the planted red pine. There are 2 inclusions, one in the NW corner of the stand (immature hardwoods with some mature aspen), and one in the SW corner (mature hardwoods).
87	42101 - Planted White Pine, Mixed Deciduous	Medium Density Log	9.1	60	51-80		
88	4117 - Mixed N. Hardwood - Pine	High Density Log	13.8	71	111-140		
89	4116 - Mixed N. Hardwood - Aspen	High Density Log	7.7	Uneven Age	51-80		The stand is a mosaic of mature aspen, older hardwoods, and younger patches of sapling/pole maple. Much of the older maple is multi-stemmed, lower quality.



S t a n d	Traverse City Mgt. Unit		5 – Forested Stands			Compartment: 014	General Comments:
	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Year of Entry: 2013	
91	42120 - Planted Jack Pine	High Density Pole	13.8	60			Some mortality in jack pine. Much of the stand has advanced red maple & beech regeneration.
92	4112 - Maple, Beech, Cherry Association	Medium Density Log	2.7	90	81-110		Generally low quality hardwoods, numerous multi-stemmed trees.
93	4130 - Aspen	High Density Log	3.4	51			
94	42110 - Planted Red Pine	High Density Pole	1.5	35	171-200		This stand is a private land plantation that extends onto state land; 8-9 rows on state side.
95	4139 - Aspen, Mixed Deciduous	Medium Density Pole	88.1	44	1-50		This stand is a mosaic of aspen patches, some with advanced maple regeneration, and patches of mature hardwoods, much of which is multi-stemmed. There are some mature white pines in the east end of the stand.
98	4130 - Aspen	Medium Density	25.1	7			The stand has some scattered remnant black cherry pole timber.
99	4130 - Aspen	High Density Sapling	11.3	15			
100	4112 - Maple, Beech, Cherry Association	High Density Pole	2.3	Uneven Age	81-110		
101	4139 - Aspen, Mixed Deciduous	High Density Pole	3.2	Uneven Age	51-80		
102	4123 - Red Oak	High Density Pole	2.0	59	111-140		Successful red oak plantation, good quality.
103	42120 - Planted Jack Pine	High Density Pole	5.2	59	81-110		Some mortality.
105	4116 - Mixed N. Hardwood - Aspen	High Density Log	18.6	71	111-140		Stand is a patchy mix of hardwoods and good quality bigtooth aspen.
106	42100 - Planted White Pine	Low Density Log	10.3	60	51-80		There are a few mature hardwoods along the edge.
107	42120 - Planted Jack Pine	High Density Pole	40.3	59			Stand has scattered pockets of young maple. White pine is in scattered clumps. Hardwood understory varies in density.
108	6117 - Lowland Deciduous, Mixed Coniferous	High Density Log	4.1	Uneven Age			Platte River access
112	42110 - Planted Red Pine	Medium Density Pole	65.8	59	141-170		Big, old sugar maple and much of the sugar maple understory is concentrated along State Rd.



S t a n d	Traverse City Mgt. Unit		5 – Forested Stands			Compartment: 014
	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Year of Entry: 2013
						General Comments:
113	4116 - Mixed N. Hardwood - Aspen	Medium Density Log	3.9	Uneven Age	51-80	Poor quality quaking aspen.
115	4112 - Maple, Beech, Cherry Association	High Density Log	37.1	85	141-170	
116	4110 - Sugar Maple Association	High Density Log	40.0	98	111-140	Stand has occasional hemlock, white ash, beech, and elm; patches of heavily browsed red elderberry. Good quality timber.
117	42110 - Planted Red Pine	High Density Log	10.1	55	141-170	
119	4110 - Sugar Maple Association	Medium Density Log	32.6	86	81-110	Scattered red maple and white ash.
121	6117 - Lowland Deciduous, Mixed Coniferous	High Density Log	9.2	84	141-170	
122	4112 - Maple, Beech, Cherry Association	Medium Density Pole	180.7	73	51-80	Low quality timber, many multi-stemmed trees. Aspen is unevenly distributed.
123	6128 - Lowland Coniferous, Mixed Deciduous	High Density Log	6.0	75	200+	Streams run through the stand. Stand has scattered super- canopy white pines, 30"dbh.
124	4111 - S.Maple, Hard Mast Association	High Density Log	67.1	96	81-110	
127	42310 - Planted Spruce	High Density Pole	8.3	51	171-200	Valley/pond in the northeast corner of the stand.
128	4115 - Y.Birch, Hemlock NH	High Density Log	15.4	Uneven Age	141-170	A stream runs through the stand. Planted white spruce is in scattered patches.
129	4110 - Sugar Maple Association	Medium Density Log	1.4	95	51-80	Small stand, adjacent to campground entrance.
133	4130 - Aspen	Low Density Pole	8.7	33		
134	4116 - Mixed N. Hardwood - Aspen	Medium Density Log	18.1	80	81-110	Some phellinus in aspen.
137	4110 - Sugar Maple Association	High Density Log	3.4	105	111-140	
139	6132 - Mixed Lowland Forest with Cedar	High Density Log	22.9	66		The Platte River and an old RR grade run through the stand. There is a small opening along the east side of the river with a lot of autumn olive and some pole-sized white spruce. Small amounts of balsam poplar and super canopy white pine.





	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
140	4134 - Aspen, Spruce/Fir	Low Density Pole	6.1	47		Mostly aspen to SW, spruce is concentrated to NE. Scattered old apple trees and fruiting shrubs: juneberry, autumn olive, hawthorn, sumac.
141	4130 - Aspen	High Density Pole	12.2	28		
142	4139 - Aspen, Mixed Deciduous	High Density Log	9.3	50	111-140	Riparian area: Platte River floodplain. Stand has scattered elm, red pine, white pine. Cedar and hemlock are concentrated along the river.
145	4110 - Sugar Maple Association	Medium Density Log	33.7	Uneven Age	51-80	Stand has medium to low quality timber; some small openings; scattered elm, white pine and red maple; and some good patches of sugar maple regeneration.
146	4139 - Aspen, Mixed Deciduous	High Density Log	12.8	44	81-110	
147	4110 - Sugar Maple Association	High Density Pole	3.7	50	81-110	
149	4130 - Aspen	Medium Density	23.3	7		
150	6129 - Mixed Coniferous Lowland Forest	Medium Density Log	1.0	Uneven Age		Small access site @ Platte River x Haze Rd.
151	4130 - Aspen	High Density Sapling	37.2	7		2-storied stand: residual white pine over aspen regeneration.
152	4130 - Aspen	Medium Density	13.5	7		There are some open patches with only ironwood seedlings, but the rest of the stand is well stocked with aspen regeneration. Scattered residuals: mixed hardwoods and white pine.
153	42260 - Natural Pine, Mixed Deciduous	High Density Log	1.5	65	111-140	This stand is a cover island left as retention for the surrounding area cut in 2004.
155	4130 - Aspen	Medium Density Pole	74.3	28		The stand has scattered elm, basswood, white pine, juneberry, and hawthorn.
157	42260 - Natural Pine, Mixed Deciduous	High Density Log	1.1	65	111-140	This stand is a cover island left as retention for the surrounding area cut in 2004.
158	4130 - Aspen	Medium Density Pole	27.1	28		scattered white pine
159	4130 - Aspen	High Density Sapling	17.3	7		Most of the stand is well stocked.
160	4130 - Aspen	Low Density Pole	56.8	28		Poorly stocked, brushy.

S t a n d	Traverse City Mgt. Unit		5 – Forested Stands			Compartment: 014	General Comments:
	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Year of Entry: 2013	
161	4130 - Aspen	Medium Density Log	14.7	51			scattered pines
162	4130 - Aspen	Medium Density Pole	130.1	24			Variable density; some frost pockets.
163	4130 - Aspen	Medium Density	19.9	15			snowshoe hares present
164	4139 - Aspen, Mixed Deciduous	High Density Log	19.3	59	51-80		
166	4139 - Aspen, Mixed Deciduous	Medium Density Log	38.7	51	51-80		This stand is a mosaic of mature quaking aspen, older hardwoods, and hardwood regeneration patches. East end is on a steep slope.
167	4130 - Aspen	High Density Pole	23.3	28			The stand has scattered American elm, sugar maple and rock elm pole-sized trees.
168	4130 - Aspen	High Density Pole	1.9	24			
169	4130 - Aspen	Low Density Sapling	19.8	7			Bigtooth aspen is doing significantly better than quaking aspen. Black cherry is slowly filling in areas devoid of aspen regeneration.
170	4110 - Sugar Maple Association	High Density Log	15.5	82	111-140		Fair to good quality sugar maple & basswood; aspen is old and declining. Stand has small amounts of white ash (with EAB), beech, black cherry, and ironwood.
171	4130 - Aspen	Medium Density Pole	31.2	28			Small amounts of elm and white pine in the stand.
172	4130 - Aspen	High Density Pole	13.8	36			Much of the stand is on a sidehill. The top of the hill has more hardwoods, the slope and base have more aspen.
174	6119 - Mixed Lowland Deciduous Forest	High Density Log	14.6	67			This stand surrounds the Veterans Memorial campground. Riparian area, along the Platte river. Stand is transitional between upland along the highway and lowland along the river floodplain.
176	4130 - Aspen	Low Density Sapling	21.2	7			The stand is moderately-well stocked, slowly filling in. Open patches that did not regenerate with aspen are filling in with black cherry seedlings and stump sprouts. Remnant trees include scattered sugar maple, black cherry and white pine.
177	4139 - Aspen, Mixed Deciduous	Low Density Pole	9.4	28			This stand is a heterogenous mix of aspen poles, older open-grown hardwoods, and open patches. Poor timber, very brushy, good game habitat. There are some scattered basswood, rock elm, and balsam poplar.
180	4139 - Aspen, Mixed Deciduous	Medium Density Pole	4.9	50	51-80		Veteran's Memorial Campground



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## Traverse City Mgt. Unit

## 5 – Forested Stands

Compartment: 014  
Year of Entry: 2013

	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
<b>182</b>	4130 - Aspen	Medium Density Pole	7.4	28		Stand has scattered elm, maple, ash and white pine.
<b>184</b>	4130 - Aspen	High Density Pole	7.7	36		Stand has juneberry, hawthorn in understory. [copied data from adjacent compartment]
<b>185</b>	4130 - Aspen	High Density Log	28.0	55		Stand is on a steep bluff along the west side of the Platte River. South half mostly aspen, north half mostly hardwood.
<b>186</b>	6132 - Mixed Lowland Forest with Cedar	Medium Density Log	8.8	69		Riparian - along Platte River. Sparser with standing dead trees in middle part of stand.
<b>188</b>	4115 - Y.Birch, Hemlock NH	High Density Log	8.7	67	141-170	Sidehill with high water table; springs & streams.
<b>191</b>	6112 - Lowland Aspen	Medium Density Pole	7.1	Uneven Age		Stand is transitional between upland & lowland. There are a few hemlocks, and a few black willows along the river bank.



Stand	Cover Type	Acres	Managed Site	Management Priority (Objective)	General Comments:
8	122 - Road/Parking Lot	2.1	No	Unspecified	Oakley Road
9	3301 - Low Density Deciduous Tree	2.2	No	Medium (NonForested)	
13	310 - Herbaceous Openland	3.3	Yes	Medium (NonForested)	Stand is parallel rights-of-way for Fewins Road & an overhead power line.
15	3301 - Low Density Deciduous Tree	3.1	No	Low (NonForested)	
19	122 - Road/Parking Lot	3.4	No	Low (NonForested)	Valley Road
24	6220 - Alder/willow	11.4	No	Low (NonForested)	
26	3301 - Low Density Deciduous Tree	2.2	No	Low (NonForested)	steep hillside
30	310 - Herbaceous Openland	1.5	No	Low (NonForested)	
32	310 - Herbaceous Openland	2.0	No	Low (NonForested)	
34	3301 - Low Density Deciduous Tree	2.9	No	Low (NonForested)	
37	3303 - Mixed Low Density Trees	3.0	No	Low (NonForested)	
40	6233 - Wet Meadow	1.6	No	Low (NonForested)	gas pipeline R.O.W.
41	310 - Herbaceous Openland	1.1	No	Low (NonForested)	gas pipeline R.O.W.
44	310 - Herbaceous Openland	10.0	No	Low (NonForested)	mixed pines = jack, white, a few red
47	310 - Herbaceous Openland	2.8	No	Low (NonForested)	frost hole
50	3301 - Low Density Deciduous Tree	7.2	No	Low (NonForested)	Mixed hardwoods in patches: mostly sugar maple, some cherry, beech, and ash. Aspen is scraggly.
55	3301 - Low Density Deciduous Tree	30.8	No	Medium (NonForested)	
56	3103 - Rubus-Fern	2.8	No	Low (NonForested)	



Stand	Cover Type	Acres	Managed Site	Management Priority (Objective)	General Comments:
61	122 - Road/Parking Lot	1.3	No	Low (NonForested)	Goose Road
63	310 - Herbaceous Openland	1.3	No	Low (NonForested)	gas pipeline R.O.W.
69	310 - Herbaceous Openland	1.2	No	Low (NonForested)	
71	710 - Sand, Soil	8.4	Planted	Jack Pine	Old county gravel pit, furrowed and planted to JP in 2007; fill in planted with RP in 2009. Delineated stand includes a stretch of Pioneer Road.
75	3301 - Low Density Deciduous Tree	6.9	No	Low (NonForested)	Mixed pines = Scotch pine, red pine, thicker along west side.
77	3301 - Low Density Deciduous Tree	2.2	No	Low (NonForested)	
82	310 - Herbaceous Openland	1.1	No	Low (NonForested)	
83	310 - Herbaceous Openland	1.5	No	Low (NonForested)	
85	310 - Herbaceous Openland	1.5	No	Medium (NonForested)	
90	310 - Herbaceous Openland	1.8	No	Low (NonForested)	
96	310 - Herbaceous Openland	10.7	No	Low (NonForested)	
97	3301 - Low Density Deciduous Tree	60.8	No	Low (NonForested)	
104	122 - Road/Parking Lot	0.2	No	Low (NonForested)	Pioneer Road
109	50 - Water	0.8	No	Low (NonForested)	Platte River
110	3301 - Low Density Deciduous Tree	6.2	No	Low (NonForested)	
111	3103 - Rubus-Fern	2.1	Yes	Low (NonForested)	
114	3301 - Low Density Deciduous Tree	3.4	No	Low (NonForested)	Mature hardwoods: black cherry, sugar maple, red maple, basswood; sapling hardwoods: sugar maple, ironwood, red maple.



Stand	Cover Type	Acres	Managed Site	Management Priority (Objective)	General Comments:
118	3301 - Low Density Deciduous Tree	2.4	No	Low (NonForested)	Deciduous trees: mostly sugar maple with some black cherry, red maple, and ironwood.
120	310 - Herbaceous Openland	2.5	No	Low (NonForested)	Open road side along U.S. 31 and Goose Road; overhead utility line.
125	3301 - Low Density Deciduous Tree	5.9	No	Low (NonForested)	The stand has black cherry, sugar maple, ironwood, elm, juneberry, hawthorn, and honeysuckle.
126	3103 - Rubus-Fern	1.1	No	Low (NonForested)	sugar maple, black cherry, red maple
130	3103 - Rubus-Fern	1.1	No	Low (NonForested)	
131	3301 - Low Density Deciduous Tree	2.4	No	Low (NonForested)	New stand added.
132	3103 - Rubus-Fern	1.6	No	Low (NonForested)	Trees: basswood, black cherry, sugar maple, ironwood, quaking aspen; fruiting shrubs: juneberry, hawthorn.
135	3103 - Rubus-Fern	4.4	No	Medium (NonForested)	
136	122 - Road/Parking Lot	1.0	No	Low (NonForested)	Goose Road and connecting dirt road
138	310 - Herbaceous Openland	6.8	No	Low (NonForested)	Shrubs include black cherry, juneberry, honeysuckle, and hawthorn.
143	310 - Herbaceous Openland	1.1	No	Low (NonForested)	
144	50 - Water	1.6	No	Low (NonForested)	Platte River
148	3103 - Rubus-Fern	2.9	No	Low (NonForested)	Deciduous trees = ironwood, maple, cherry, and aspen.
154	310 - Herbaceous Openland	1.1	No	Low (NonForested)	
156	122 - Road/Parking Lot	6.0	No	Low (NonForested)	U.S. 31 and Goose Road
165	3301 - Low Density Deciduous Tree	13.7	No	Low (NonForested)	
173	310 - Herbaceous Openland	3.8	No	Low (NonForested)	Shrubs include hawthorn, juneberry, honeysuckle, black cherry, and autumn olive.



Stand	Cover Type	Acres	Managed Site	Management Priority (Objective)	General Comments:
175	310 - Herbaceous Openland	5.0	No	Medium (NonForested)	This is an abandoned borrow pit. It appears rather barren. Aspens are of very poor form.
178	310 - Herbaceous Openland	2.7	No	Low (NonForested)	
179	3103 - Rubus-Fern	2.1	No	Low (NonForested)	Fruiting shrubs include juneberry, honeysuckle, and hawthorn.
181	3301 - Low Density Deciduous Tree	2.5	No	Low (NonForested)	Scattered juneberry & hawthorn.
183	50 - Water	2.0	No	Low (NonForested)	Platte River
187	3301 - Low Density Deciduous Tree	3.8	No	Low (NonForested)	
189	50 - Water	5.3	No	Low (NonForested)	Platte River
190	3102 - Grass	3.6	No	Low (NonForested)	U.S. 31 R.O.W. High water table.
192	50 - Water	5.8	Yes	High (NonForested)	Platte River State Fish Hatchery settling pond
193	11 - Low Intensity Urban	2.0	Yes	High (NonForested)	Platte River State Fish Hatchery grounds



**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
49	Unique Site - SCA	61014049	228.0	This area was formerly listed as a potential old growth area and is now being forwarded for consideration as a SCA. Most of this block of state forest land is lowland/riparian area in the Platte River valley. Access is limited to frontage along Goose Road or through adjacent private land. There is a fair amount of evidence of wintering deer. SCA designation would aim at allowing this area to mature and further develop old-growth characteristics, protecting riparian habitat values, and protecting water quality in the river. Periodic thinning of upland hardwoods on the south side of this block might be possible if it does not compromise the aims listed above.
185	Unique Site - SCA	61014185	33.3	This Area of Interest is comprised of all or parts of numerous stands within compartment 13, and this stand in adjacent compartment 14, merged to create a proposed Special Conservation Area. The primary intention is to maintain forest cover to protect water quality in the Platte River and several tributary streams, particularly with regard to the needs of the Platte River State Fish Hatchery. Additional values include protection of riparian plant and animal habitats, protection of soils on steep bluffs, recreational and aesthetic values along roadways and waterways, maintenance of deer winter cover, and possible development of old growth forest characteristics. Limit timber management to specific habitat needs, biodiversity enhancement, pest control, recreation enhancement, etc.
30	SCA Removal	NF_61014030	1.5	This is a non-forested stand that was formerly listed as potential old growth. It is not being forwarded for SCA designation because it is right along the road, adjacent to residences and a MichCon facility, and may be valuable in the future for active wildlife habitat management.
37	SCA Removal	NF_61014037	3.0	This is a non-forested stand that was formerly listed as potential old growth. It is not being forwarded for SCA designation because it is right along the road, adjacent to residences and a MichCon facility, and may be valuable in the future for active wildlife habitat management.



**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.