

# TRAVERSE CITY FOREST MANAGEMENT UNIT COMPARTMENT REVIEW PRESENTATION

# COMPARTMENT # 45 ENTRY YEAR: 2014

Compartment Acreage:

**Counties: Grand Traverse** 

Stand Examiner: Patrick Ruppen

Legal Description: T26N - R9W - Sections 25-35

Management Goals: Three sub-sections of the Land Type Association (LTA) VII .2 High Plains are found in this Compartment. A portion of the Compartment (lands in sections 25,26 and 35) falls within LTA 2221. This is described as coarse textured end moraine with Roselawn Loamy sands. Currently much of this land supports plantation pine which was planted on old depleted farm fields. Some of these plantations have been harvested recently and re-started while others are still under a thinning regime. State managed lands in sections 26-30 are found on LTA 5.1..1.1 which is described as flat or gently rolling with deep sandy outwash. This LTA is relatively low in fertility and productivity. Historically fire dependant conifers were found in association with oak and red maple. Jack, White and Red pine were common in mixed densities. Northern hardwoods would be found on less fire prone sites and in association with Kalkaska Sands. Fires on this sub-section were extensive, intense, and often covered several square miles. The stands on these sites were generally created after the last cycle of fires; which followed extensive harvesting in the early part of the last century. Stands of jack pine, oak aspen and birch were generated after the fires. Some stands have a red pine component due to planting efforts following the fires. The remaining (un harvested) pine oak stands from this genesis are past desired rotation age and attention should be given to restarting some of these stands. A definite trend is evident for some of these pine dominated stands to move toward a heavier oak component. Oak should be encouraged where possible. Red pine could be re-planted as a component of some of these stands to grow in with naturally forming white and jack pine, oak ,red maple and aspen. A number of stands were partially harvested with shelter wood or seed tree harvests in previous entries. If adequate regeneration has formed in the subcanopy, re-treat these stands to remove most remaining canopy; with the intention of releasing the advanced regeneration. Some aspen clones are found on this sub-section and should be managed for age class distribution. Subsection 5.1.2.1 is deep well drained outwash mainly composed of Rubicon and Croswell loamy sands. This cover the parts of this compartment in Sections 32-34. These soils are slightly more fertile than surrounding soils. This area is laced with drainages of Parker Creek and associated headwaters. Upland areas are mainly aspen dominated stands with pines and oak. These stands should be managed for age class distribution. Some lowland areas in this part of the compartment have extensive blowdown but associated with this is heavy natural regeneration with an impressive amount of cedar. The tangled blowdown areas seem to be impenetrable for deer An opportunity exists on a part of this compartment to manage for a high aged natural pine complex. This area between forks of Twenty-two Creek involves stands 108, 103, 118, 126, 141, 147, 149. A Special Conservation Area has been proposed for this area to manage towards old aged natural pine/oak.

**Soil and Topography:** Rubicon –Roselawn, Croswell and Roscommon Sands with Rifle Peat and Lupton Muck along creeks. The area is level to very slightly rolling.

**Ownership Patterns, Development, and Land Use in and Around the Compartment:** Stand and private land are inter-mingled. Primarily state lands to the north and west. Private lands are rural in nature.

Unique, Natural Features: a branch of twenty-two creek goes underground in sec 28.

Archeological, Historical, and Cultural Features (include only non-site specific and non-sensitive information): The grave of Emma Northrup '1875' ("The Little girl's grave") is located within this compartment. An old homestead was located in section 25.

Special Management Designations or Considerations: Headwaters of Parker Creek in Sections 33 and 34

**Watershed and Fisheries Considerations:** This compartment contains portions of Parker Creek (both the North and the South Branches) and Twenty Two Creek. All of these streams are State designated trout streams, and Twenty Two Creek falls under the jurisdiction of the Boardman River Natural Rivers Plan. Parker Creek has a history of beaver activity which impacts the local trout population, and cuts that encourage beaver activity should be avoided. All three of these streams are hosts to naturally reproducing populations of brook trout and brown trout, and are considered high quality cold-water tributaries to the Boardman River.

**Wildlife Habitat Considerations:** A very small percentage of this compartment falls on a ground moraine which typically has some of the better soils in this area. Existing mixes of pine/oak/aspen/hardwood forest should be maintained with small patch cuts and thinning, retaining snags and other habitat elements as much as possible. Some succession to mature white pine forest and hardwood is desirable in the long run.

Most of the compartment falls on an outwash plain which was historically prone to frequent burning and harbored mixed pine forests, barrens, and some components of oak and northern hardwoods. This landscape should continue to be managed for a variety of successional stages of pine-oak-aspen forest and grass-scrub openings, with some mid to late successional forest in places. A few stands could be allowed to gradually succeed to mixed pine forest, while others should be set back through timber harvesting. Such harvesting should incorporate residual live trees, snags, and some down logs to replicate within-stand habitat structure left after wildfires. Prescribed burning will also help maintain barrens habitat. Oak is a very important component of forests here and should be maintained or regenerated as much as possible. Species associated with pine-oak-aspen mixed forest and Openland habitat, such as badger, wild turkey, scarlet tanager, hognosed snake, ruffed grouse, Cooper's hawk, red-backed salamander, deer, hairy woodpecker, and gray squirrel will benefit from management here. Pine plantations should incorporate tree species and structural diversity as much as possible. Important deer yarding areas along creek bottoms should be maintained in swamp conifer cover.

There is also a section of outwash plain that lies south of Parker Creek and is somewhat protected from running wildfires by the ground moraine to the southwest and the creek to the north. Consequently, historic forests consisted of beech-maple, mixed pine-hemlock, and cedar in low areas. Past management resulted in stands of aspen. Much of the area has a high water table. The productive game habitat here is popular with many hunters. Some areas could be allowed to succeed naturally if access is a barrier. Beaver flooding along Parker Creek has created important aquatic habitat for herons, wood duck, tree swallows, and bats, and many other species.

**Mineral Resource and Development Concerns and/or Restrictions:** Surface sediments consist of glacial outwash sand and gravel and postglacial alluvium and an end moraine of coarse-textured till. The glacial drift thickness varies between 400 and 600 feet. Beneath the glacial drift is the Mississippian Coldwater Shale that has no current economic use. The nearest gravel pit is two miles to the east and potential should be good along the south and east. This area is located along the south edge of the prolific Silurian Guelph (Niagaran) reef trend. Most of the Compartment is leased and held by old leases. Additional

reefs may be found in this compartment. The Antrim Shale has not been developed in this area and may be too deep

**Vehicle Access:** Access south or Parker Creek drainages is difficult due to private lands. Access is generally good throughout the rest of the compartment.

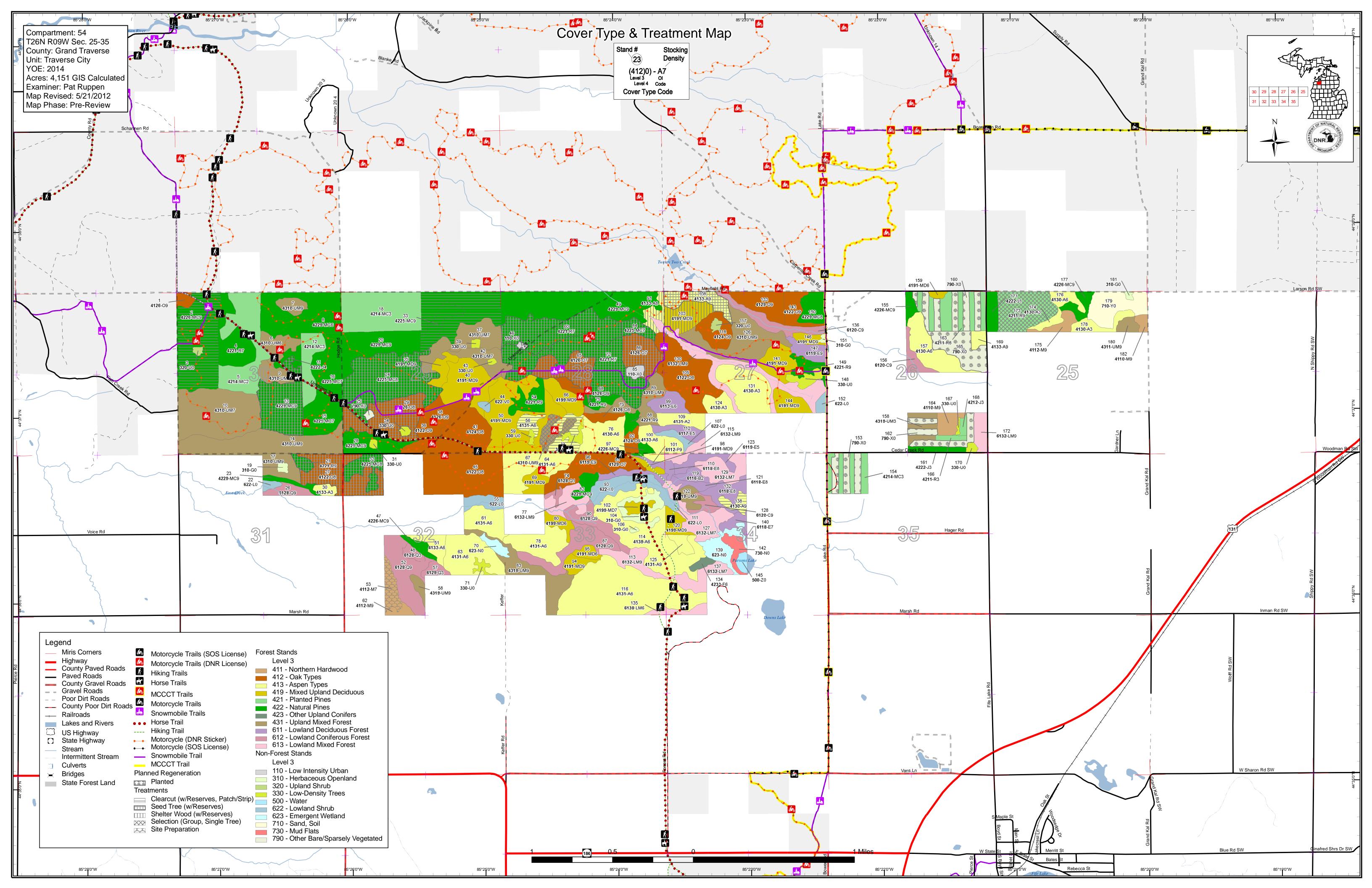
Survey Needs: None known at this time.

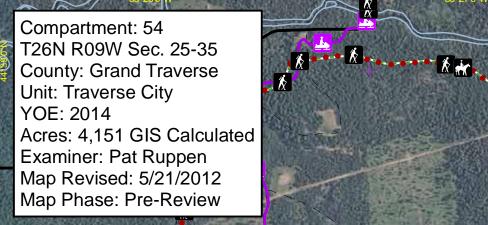
**Recreational Facilities and Opportunities:** North Country Trail, Shore to Shore Horseback Trail, Grand Traverse Motorcycle Trail and the Boardman Valley Snowmobile Trail **Fire Protection:** 

# **Additional Compartment Information:**

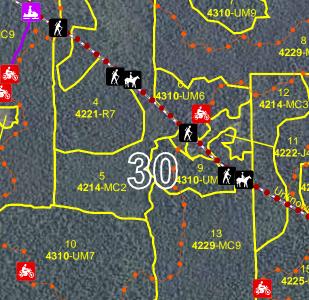
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\*\*\*\* The following information is displayed on the attached compartment maps: Base feature information, stand numbers, cover types Suggested potential old growth





Contra Barrer







1229-MC

ZSD

32

# Legend

1

	Miris Corners
_	Highway
	County Paved Roads
	Paved Roads
	County Gravel Roads
_ =	Gravel Roads
	Poor Dirt Roads
	County Poor Dirt Road
<del></del>	Railroads
	Stream
	Intermittent Stream
Д	Culverts
$\widetilde{\prec}$	Bridges
<i>,</i> , ,	J

0	IVIOTORCYCIE I RAIIS (SUS LICENSE)	Otaria Douridanes
5	Motorcycle Trails (DNR License) Fore	st Stands
X	Hiking Trails	Level 3
Ŷ	Horse Trails	411 - Northern Hardwood
		412 - Oak Types
56	MCCCT Trails	413 - Aspen Types
56	Motorcycle Trails	419 - Mixed Upland Deciduous
5	Snowmobile Trails	421 - Planted Pines
	Horse Trail	422 - Natural Pines
		423 - Other Upland Conifers 431 - Upland Mixed Forest
		611 - Lowland Deciduous Forest
•	Motorcycle (SOS License)	612 - Lowland Coniferous Forest
	Snowmobile Trail	613 - Lowland Mixed Forest

- Motorcycle (SOS License)
   Snowmobile Trail
- MCCCT Trail

Motorcycle Trails (SOS License) Stand Boundaries

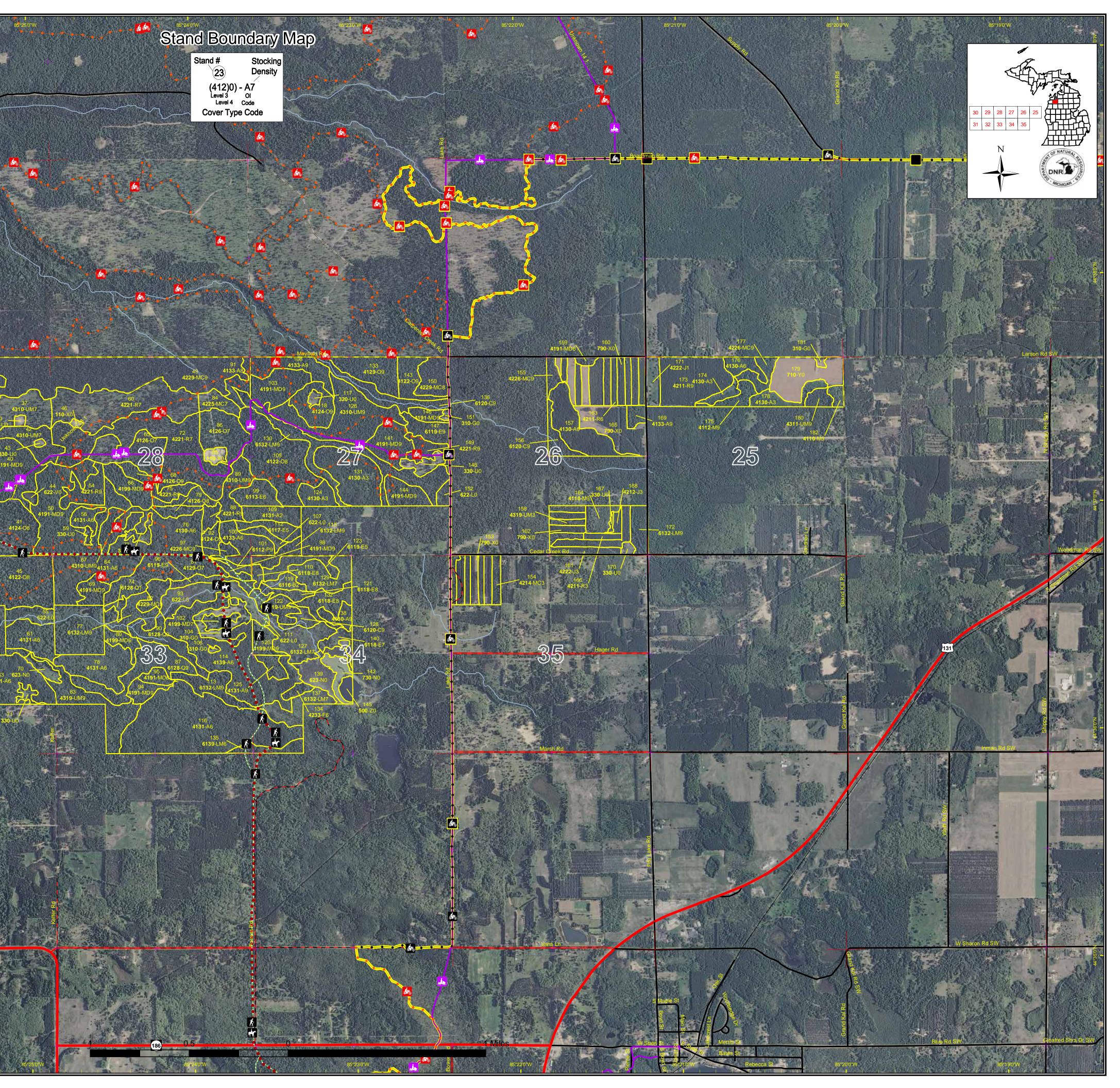
31

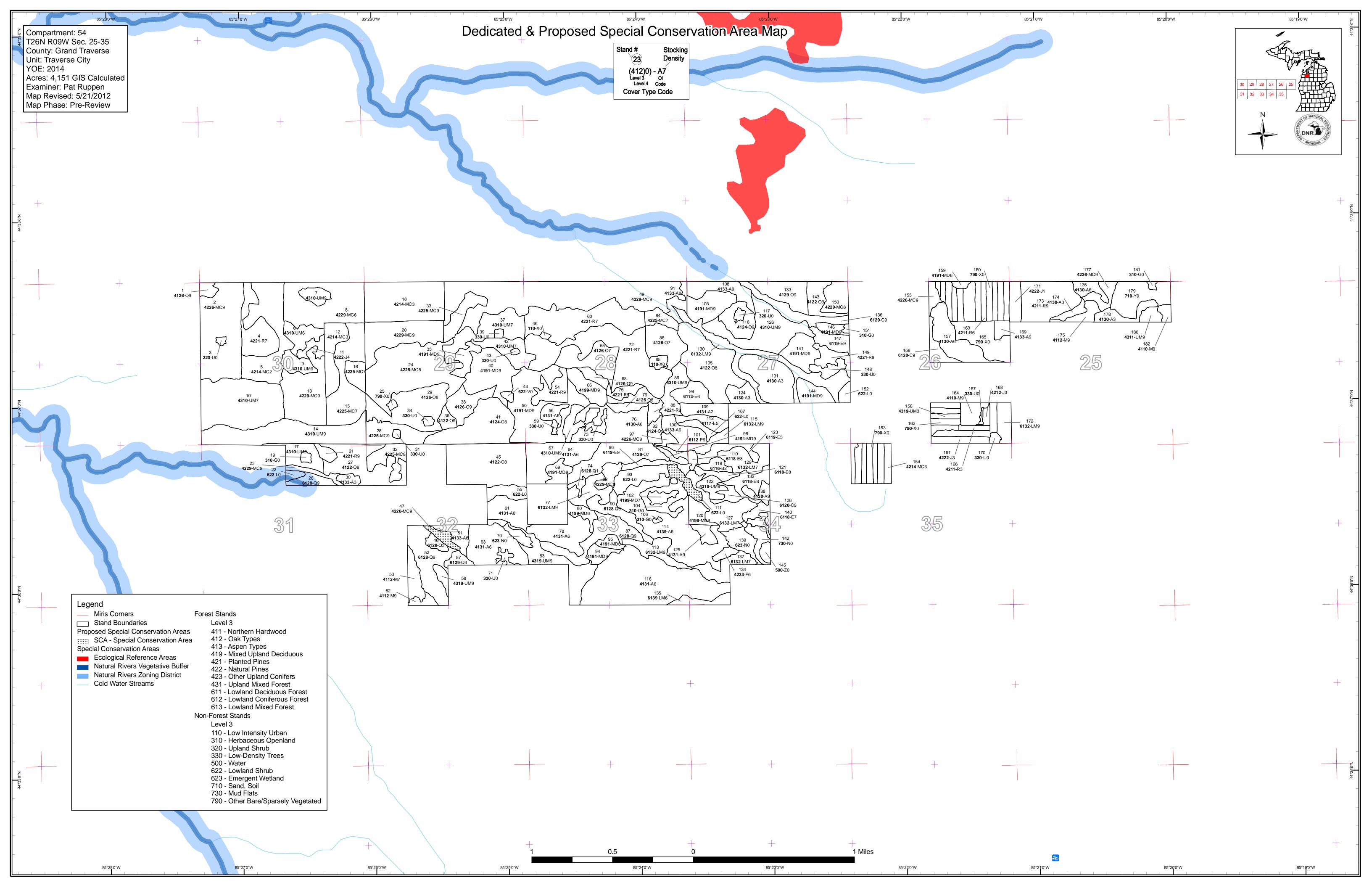
- - n Hardwood
  - pes
  - Types Upland Deciduous
  - d Pines
  - l Pines
- Upland Conifers

- Non-Forest Stands
  - Level 3

  - 110 Low Intensity Urban 310 Herbaceous Openland 320 Upland Shrub 330 Low-Density Trees 500 Water

  - 622 Lowland Shrub 623 Emergent Wetland 710 Sand, Soil 730 Mud Flats 790 Other Bare/Sparsely Vegetated





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

Traverse City Mgt. Unit Patrick Ruppen : Examiner

## Compartment 054 Year of Entry 2014



Age Class

	/	°.0	0,13	100 C	100 m	100 A2	an a	00-00 10-00		89 89 89 89	, 68 J	00,100	11a,179	RA X	AND LO
														1	
Aspen	20	63	0	351	144	8	9	23	18	0	0	0	0	35	669
Bare/Sparsely Vegetated	108	0	0	0	0	0	0	0	0	0	0	0	0	0	108
Bog	2	0	0	0	0	0	0	0	0	0	0	0	0	0	2
Cedar	0	0	0	0	0	0	0	0	0	0	0	23	18	0	41
Herbaceous Openland	24	0	0	0	0	0	0	0	0	0	0	0	0	0	24
Jack Pine	0	25	8	0	0	0	0	0	0	0	0	0	0	0	33
Low-Density Trees	30	0	0	0	0	0	0	0	0	0	0	0	0	0	30
Lowland Aspen/Balsam Poplar	0	0	0	0	0	0	0	0	3	0	0	0	0	0	3
Lowland Conifers	0	3	5	0	0	0	0	37	0	0	0	0	10	69	126
Lowland Deciduous	0	0	0	13	0	28	18	14	29	0	0	0	0	0	101
Lowland Mixed Forest	0	0	0	0	0	0	0	10	33	51	30	19	25	33	202
Lowland Shrub	63	0	0	0	0	0	0	0	0	0	0	0	0	0	63
Marsh	28	0	0	0	0	0	0	0	0	0	0	0	0	0	28
Mixed Upland Deciduous	0	0	0	16	7	0	25	23	36	0	4	0	0	177	288
Natural Mixed Pines	0	0	0	0	0	0	4	396	169	0	29	0	0	152	749
Northern Hardwood	0	0	0	0	0	0	20	10	0	5	12	0	0	0	46
Oak	0	0	0	0	0	0	0	30	60	79	52	93	0	234	548
Paper Birch	0	7	0	0	0	0	0	0	0	0	0	0	0	0	7
Planted Mixed Pines	0	20	170	0	0	0	0	0	0	0	0	0	0	0	191
Red Pine	0	37	0	0	0	50	0	222	12	0	13	0	0	18	351
Sand, Soil	46	0	0	0	0	0	0	0	0	0	0	0	0	0	46
Upland Mixed Forest	0	12	0	0	0	17	5	65	11	0	19	134	10	199	472
Upland Shrub	4	0	0	0	0	0	0	0	0	0	0	0	0	0	4
Upland Spruce/Fir	0	0	0	0	5	0	0	0	0	0	0	0	0	0	5
Urban	6	0	0	0	0	0	0	0	0	0	0	0	0	0	6
Water	5	0	0	0	0	0	0	0	0	0	0	0	0	0	5
Total	337	167	184	379	155	102	81	830	372	135	158	270	63	917	4151



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# Table 2 – Proposed Treatment Summaries

Traverse City Mgt. Unit Year of Entry 2014									
		А	cres by	Treatme	nt Type				
Commercial Harvest - 875	Site Prep - 14		Tree F	Planting -	0	Preso	ribed Burn - 0	Other - 0	
Habitat Cut - 0	Opening Maintena	ince - 0	Tree S	Seeding -	0	Pesti	cide - 0		
			Cover Ty	vpe by H	arvest I	lethod			
		See.	Selection of the section of the sect	See of Lee	oo linin	Survey Section 10	A A A A A A A A A A A A A A A A A A A		
Aspen		34	0 23	10	0	0 <b>66</b>			
Mixed L	Ipland Deciduous	0	0 0	27	0				
				21	0	0 <b>27</b>			
Natural	Mixed Pines	171	0 191	0	0	0 27 0 362			
Natural Oak	Mixed Pines		0 191 0 173		0				
		0		0	0	0 <b>362</b>			
Oak Red Pin		0 0 {	0 173	0	0 0 0 0	0 <b>362</b> 0 <b>173</b>			
	Year of Entry 2014 Commercial Harvest - 875 Habitat Cut - 0	Year of Entry 2014 Commercial Harvest - 875 Site Prep - 14 Habitat Cut - 0 Opening Maintena	Year of Entry 2014 Commercial Harvest - 875 Site Prep - 14 Habitat Cut - 0 Opening Maintenance - 0 Control Control	Year of Entry 2014         Acres by 7         Commercial Harvest - 875       Site Prep - 14       Tree F         Habitat Cut - 0       Opening Maintenance - 0       Tree S         Cover Ty       Stop       Stop         Aspen       34       0       23	Year of Entry 2014         Acres by Treatme         Commercial Harvest - 875       Site Prep - 14       Tree Planting -         Habitat Cut - 0       Opening Maintenance - 0       Tree Seeding -         Cover Type by H         Good       Good       Good       Good         Aspen       34       0       23       10	Year of Entry 2014         Acres by Treatment Type         Commercial Harvest - 875       Site Prep - 14       Tree Planting - 0         Habitat Cut - 0       Opening Maintenance - 0       Tree Seeding - 0         Cover Type by Harvest M         Cover Type by Harvest M       Cover Type by Harvest M         Aspen       34       0       23       10       0	Year of Entry 2014         Acres by Treatment Type         Commercial Harvest - 875       Site Prep - 14       Tree Planting - 0       Presc         Habitat Cut - 0       Opening Maintenance - 0       Tree Seeding - 0       Pestid         Cover Type by Harvest Method       Cover Type by Harvest Method       Cover Type by Harvest Method         Aspen       34       0       23       10       0       66	Year of Entry 2014         Acres by Treatment Type         Commercial Harvest - 875       Site Prep - 14       Tree Planting - 0       Prescribed Burn - 0         Habitat Cut - 0       Opening Maintenance - 0       Tree Seeding - 0       Pesticide - 0         Cover Type by Harvest Method       Opening Maintenance - 0       Cover Type by Harvest Method         Aspen       34       0       23       10       0       66	Officiend of Comparison Total Comparison Total Comparison Total Comparison Acress         Year of Entry 2014       Total Comparison Acress         Acres by Treatment Type       Commercial Harvest - 875       Site Prep - 14       Tree Planting - 0       Prescribed Burn - 0       Other - 0         Habitat Cut - 0       Opening Maintenance - 0       Tree Seeding - 0       Pesticide - 0       Other - 0         Cover Type by Harvest Method       Cover Type by Harvest Method       Cover Type by Harvest Method       Cover Type by Harvest Method

S t		Traverse	City Mgt. Unit	Tab			ents Prescri iting Factor	bed	Compartment: 054 Year of Entry 2014	DR NATURAL PRO
a n d	Treatment Name	Acres	CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
2	61054002-Cu	<b>t</b> 92.0	42260 - Natural Pine, Mixed Deciduous	High Density Log	75 g	51-80	Harvest	Clearcut with Reserves	4122 - Oak, Pine	Cmpt. Review Proposal
<u>Pres</u> Spec	cs: to prot	ect advance ments due t	e and well formed oal d regeneration. Reta	in only trees	of good	form and I	health that can re	main through next	ed stand is converting t generation. Consider g heavier retention -grea	green up
<u>Othe</u> Com	r <u></u> Expec ments:	new stand	to form consisting of o	oak, jack pine	e, red ma	aple and to	o a lesser amoun	t white and red pin	е.	
<u>Next</u> Step										
Propo Start	<u>osed</u> Date: 10/01/2	013								
13	61054013-Cu	t 59.5	42290 - Natural Mixed Pine	High Density Log	75 g	111-140	Harvest	Seed Tree with Reserves	4122 - Oak, Pine	Cmpt. Review Proposal
<u>Pres</u> Spec	<u>s:</u> poorly young	formed oak.	Retain (some/all) rees. Stand should fill i	d and white p	pine and	large dian	neter oak 20+" dt	oh. Mark some oth	bine, cherry, aspen, red er well formed oak to re if found in stand. OR	etain from
<u>Othe</u> <u>Com</u>	<u>r</u> Stand ments:	should rege	nrate to mixed pine, o	ak, red mapl	le,aspen					
<u>Next</u> Step										
Propo Start	<u>osed</u> <u>Date:</u> 10/01/2	013								
21	61054021-Cu	t 5.8	42210 - Natural Red Pine	High Density Log	82 g	81-110	Harvest	Seed Tree with Reserves	4122 - Oak, Pine	Cmpt. Review Proposal
<u>Pres</u> Spec		ve most red	pine to promote adva	nced regene	ration tha	at has form	ned in understory	Attempt to prote	ct regeration as possibl	е.
<u>Othe</u> Com	e <u>r</u> Harves ments:	st with surrou	unding stand. Cruise	this stand se	eperate.					
<u>Next</u> <u>Step</u>										
Propo Start	<u>osed</u> Date: 10/01/2	013								
24	61054024-Cu	<b>t</b> 101.1	42250 - Pine, Oak	Medium Density Log	83 g	51-80	Harvest	Seed Tree with Reserves	4122 - Oak, Pine	Cmpt. Review Proposal
Pres Spec			aining overstory to rel mobile and motorcycle						well formed oak for ma	ast and seed
<u>Othe</u> Com	<u>r</u> Expec ments:	new age to	consist of mixed oak	, pine, aspen	n, red ma	iple.				
<u>Next</u> <u>Step</u>										
Propo	osed									

Proposed Start Date: 10/01/2013

S t		Traverse	e City Mgt. Unit	Tab			ents Prescril iting Factor	bed	Compartment: 054 Year of Entry 2014	DNR DNR
a n d	Treatment Name	Acres	CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
27	61054027-Cu	<b>it</b> 51.8	4122 - Oak, Pine	Medium Density Log	102 g	1-50	Harvest	Seed Tree with Reserves	4122 - Oak, Pine	Cmpt. Review Proposal
<u>Preso</u> Spec			erstory to release adva	nced regenra	ation tha	t has form	ed in understory.	Retain well forme	d oak and pine 10-30 B	a. Attempt to
<u>Other</u> Comr	r_ Expec ments:	t regeration	of mixed oak and pine	and red ma	ple with	some asp	en.			
<u>Next</u> Steps	<u>s:</u>									
<u>Propo</u> <u>Start [</u>		2013								
29	61054029-Cu	<b>it</b> 57.1	4126 - White, Black, N. Pin Oak	Medium Density Log	117 g	51-80	Harvest	Seed Tree with Reserves	4122 - Oak, Pine	Cmpt. Review Proposal
<u>Preso</u> Spec			ormed oak and pine for ljacent to SW corner o						advanced regeneration	in understory.
<u>Other</u> Comr	<u>r</u> Attem ments:	pt to protect	heavy pockets of rege	eneration. E	xpect reg	generation	of mixed oak and	d pine with red ma	ole and aspen.	
<u>Next</u> Steps	<u>s:</u>									
<u>Propo</u> Start [		2013								
32	61054032-Cu	<b>it</b> 19.1	42250 - Pine, Oak	Medium Density Log	82 g	51-80	Harvest	Seed Tree with Reserves	4122 - Oak, Pine	Cmpt. Review Proposal
Preso Spec		ve most red	pine to promote advar	nced regene	ration th	at has forn	ned in understory	<ul> <li>Attempt to protect</li> </ul>	ct regeneration as poss	ible.
<u>Other</u> Comr	<u>r</u> Harve ments:	st with surro	unding stand. Cruise	this stand se	eperate.					
<u>Next</u> Steps	<u>8:</u>									
<u>Propo</u> <u>Start [</u>		2013								
33	61054033-Cu	<b>it</b> 18.0	42250 - Pine, Oak	High Density Log	75 g	81-110	Harvest	Clearcut with Reserves	4122 - Oak, Pine	Cmpt. Review Proposal
<u>Preso</u> Spec	<u>s:</u> more Consi	of a compor der green-up	ent of large crowned of	bak than surr	ounding	stand R	etain 10-40 ba of	well fomed oak to	formed oak >6"dbh. The keep this strip heavier n issue by the time that the time the t	to oak.
<u>Other</u> Comr	<u>r</u> expec ments:	t regeneratio	on of oak, jack pine an	d red maple	with a si	maller com	ponent of red pir	ne and white pine.		
<u>Next</u> Steps										
<u>Propo</u> <u>Start [</u>		2013								

S t		Traverse	City Mgt. Unit	Tabl			ents Prescrik ting Factor	bed	Compartment: 054 Year of Entry 2014		
a n d	Treatment Name	Acres	CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Approval Status	
49 6 <sup>-</sup>	1054049_sm all-Cut	61.2	42290 - Natural Mixed Pine	High Density Loo	75 9	81-110	Harvest	Clearcut with Reserves	4122 - Oak, Pine	Cmpt. Reviev Proposal	
<u>Prescrip</u> Specs:	retentior	n and final h	narvest remaining me	erchantable s	tems. F	etained ste	ems will remain t	hrough next cycle.	me well formed (over 6 Consider green up rec ated due to the age of	quirements due	
<u>Other</u> Comme		stand to reg	enerate to oak, jack	pine, and rec	I maple	with a sma	ller amount of wh	nite pine and red pir	ne.		
<u>Vext</u> Steps:											
roposed tart Dat		13									
56 6 <sup>-</sup>	1054056-Cut	8.9	4131 - Aspen, Oak	High Density Pole	60	81-110	Harvest	Clearcut with Reserves	4131 - Aspen, Oak	Cmpt. Revie Proposal	
rescrip pecs:	regenera	ation unless		nd. Mark 1-3					nerate. Retain no aspe vcle trail passes throug		
<u>Other</u> Comme		ke remnant	barrens area extend	ing through s	mall nat	ural openir	ngs and stand 79	. Treat with adjace	nt stands.		
<u>Vext</u> Steps:											
roposed tart Dat		13									
60 6 <sup>,</sup>	1054060-Cut	74.7	42210 - Natural Red Pine	Low Density Log	75	81-110	Harvest	Seed Tree	4122 - Oak, Pine	Cmpt. Reviev Proposal	
Prescrip Specs:	specifica								taining small diameter Consider during sale p		
<u>Dther</u> Comme	ents:										
<u>lext</u> Steps:	Trench	open areas	of stand and plant re	ed pine in a w	eave pa	ttern.					
oposeo art Dat		13									
65 6 <sup>-</sup>	1054065-Cut	34.0	4126 - White,	Low	75	51-80	Harvest	Seed Tree	4122 - Oak, Pine	Cmpt. Revie	

65 6105	<b>4065-Cut</b> 34.0	4126 - White, Black, N. Pin Oak	Low Density Log	75	51-80	Harvest	Seed Tree	4122 - Oak, Pine	Cmpt. Review Proposal	
Prescriptior Specs:		maining overstory to re and seed production.		0		,			lifferent age	
<u>Other</u> Comments:	expect regeneration of mixed oak and pine along with red maple and aspen (POSSIBLE PLANTED PINE) Evaluate after harvest if it would be feasible to supplement natural regeneration with planted pine. Adjacent stands will be trenched and planted.									
<u>Next</u> <u>Steps:</u>	Monitor regenerat	tion and supplement w	ith planted red	pine if	needed to	attain desired sto	cking.			
Proposed Start Date:	10/01/2013									

Traverse City Mgt. Unit

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

Compartment: 054 Year of Entry 2014



t a n d	Treatment Name	Acres	CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
67	61054067-Cut	14.1	4310 - Pine, Oak Mix	High Density Log	80 9	81-110	Harvest	Single Tree Selection	42250 - Pine, Oak	Cmpt. Review Proposal
<u>Pres</u> Spec	cs: areas of	thick white	•	y need to be				•	and for crop tree releas I, Motorcycle trail pass	

<u>Other</u> Comments:

<u>Next</u>

s

Steps:

Proposed 10/01/2013 Start Date:

Red Pine     Density Log     Red Pine, Mixed     Proposal       Deciduous     Deciduous	72 610	054072-Cut	102.2	42210 - Natural Red Pine	Low Density Log	75	81-110	Harvest	Seed Tree	42111 - Planted Red Pine, Mixed Deciduous	Cmpt. Review Proposal
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Prescription Remove most remaining overstory to release advanced regeneration and to prep site for planting. Require chipping in contract to reduce slash load so that trenching is possible. Retain some well formed oak and pine for mast and seed production. Motorcycle trail and Snowmobile trail Specs: pass through stand. Consider during sale preparation.

<u>Other</u> Trench and plant red pine in a weave patterm, planting open areas after harvest. Comments:

<u>Next</u>

Steps:

Proposed Start Date: 10/01/2013

76	61054076_sm all-Cut	16.5	4130 - Aspen	High Density	47	51-80	Harvest	Clearcut with Reserves	4131 - Aspen, Oak	Cmpt. Review Proposal
				Pole						

Prescription Retain some well formed oak, pine, maple and final harvest remaining stems to regenerate stand. No aspen will be retained unless cavities are found to encourage aspen regeneration. Mark 1-3 trees /acre to drop and leave for CWD/drumming logs following TC guidelines. Motorcycle Specs: trail in northwest part of stand and North Country and Shore to Shore follow Cedar Creek Road. Consider during sale prep.

Other\_ Expect regeneration of oak, aspe, pine, maple and cherry.

Comments:

Next Steps:

Proposed 10/01/2013 Start Date:

84	61054084-Cut	10.9	42250 - Pine, Oak	Low	75	1-50	Harvest	Seed Tree with	4122 - Oak, Pine	
				Density Log				Reserves		

Prescription Remove most of remaining canopy to promote advanced regeneration in sub-canopy. Retain some well formed oak and pine from represented age classes. Specs:

Other expect regeneration of oak and pine, maple and aspen. Comments: Next Steps:

Proposed

10/01/2013 Start Date:

Cmpt. Review Proposal

S t		Traverse	City Mgt. Unit	Tab			ents Prescrik ting Factor	bed	Compartment: 054 Year of Entry 2014	DP NATURAL PRODUCES
a n d	Treatment Name	Acres	CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
86	61054086-Cu	30.2	4126 - White, Black, N. Pin Oak	Low Density Log	75 9	51-80	Harvest	Seed Tree	4122 - Oak, Pine	Cmpt. Review Proposal
Prese Spec			emaining overstory to North Country, ORV a						well formed pine and c prep.	ak for mast and
	ments:	regeneratio	on od mixed oak, pine	, aspen and i	maple.					
<u>Next</u> Steps										
<u>Propo</u> Start I		013								
91	61054091-Cu	10.1	4133 - Aspen, Mixed Pine	Medium Density Log	87 9	81-110	Harvest	Shelter Wood with Reserves	4136 - Aspen, Mixed Conifer	Cmpt. Review Proposal
Prese Spec			d jack pine and red m	aple-possible	e low qu	ality oak ar	nd pine to regene	erate through canop	by of pine and oak. Tre	eat with stands
<u>Othe</u> Com	<u>r</u> Expect ments:	regeneratio	on of aspen, oak, pine	s and maple						
<u>Next</u> Steps										
Propo Start I		013								
	61054103-Cu	26.9					Harvest	Shelter Wood with Reserves	42260 - Natural Pine, Mixed Deciduous	Cmpt. Review Proposal
Preso Spec	<u>s:</u> pine lo with the	ok and stan e intention o	d is filling in with white	e and red pin v stand is ma	e. Stan ture. Th	ds betweer	these two drain	ages will be manag	nation of new stand. A ged to old pine and oak etween the drainages.	. Retain trees
<u>Othe</u> Com	r_ Expect ments:	new age cl	ass to form of mixed p	oine, oak asp	en and	red maple.	Manage this sta	ands toward old pin	e and oak	
<u>Next</u> Steps										
Propo Start I		013								
	61054108-Cu	22.7					Harvest	Seed Tree	42260 - Natural Pine, Mixed Deciduous	Cmpt. Review Proposal
Preso Spec	<u>s:</u> manag	e the area l		age for old pi					n this stand but in the lo eneration is present. F	
<u>Othe</u> Com	<u>r</u> Expect ments:	regeneratio	on of pine. oak, aspen	and red map	ole.					
<u>Next</u> Steps										
Propo Start I		013								

Traverse	City	Mat	Unit
naverse	City	wgı.	Unit

# Table 3 -- Treatments Prescribed

se	City Mgt. Unit	Tabl			ents Prescrib ing Factor	ed	Compartment: 054 Year of Entry 2014	DIR NATURAL PRODUCT
	CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
	42110 - Planted Red Pine	High Density Log	54	171-200	Harvest	Single Tree Selection	42110 - Planted Red Pine	Cmpt. Review Proposal

Prescription Reduce basal area to approximately 120.

Acres

49.5

Specs:

s t а

n

d 173

May need marked or may be able to achieve goal with contract specification -every third or fourth tree. <u>Other</u>

Comments:

<u>Next</u>

Steps:

Proposed 10/01/2013 Start Date:

Treatment

Name

61054173-Cut

**Total Treatment** 866.5 Acreage Proposed:

S t		Traverse C	ity Mgt. Unit	Table 4		eatments imiting	s Prescribed Factor	with	Compartment: 054 Year of Entry 2014	THE NATURAL PRODUCT
a n d	Treatment Name	Acres	CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
138	61054138-Cut	8.1	4130 - Aspen	High Density Log	89 9	111- 140	Harvest	Clearcut with Reserves	4136 - Aspen, Mixed Conifer	Cmpt. Review Proposal
Presc Spece		ome well for	med red maple and	d pine if found	d and fin	al harvest	aspen to regene	erate.		
<u>Other</u> <u>Comn</u> <u>Next</u> <u>Steps</u> <u>Propos</u>	<u>nent:</u>		f aspen, red maple,	pine and bla	sam fir					
	<u>Date:</u> 10/01/20 ng Factor and Ne ment Reason	o 2B: L adjad	Jnknown if access th cent landowner(s) is Id be desirable if acc	possible	e attaine	d.				
53	61054053- Prep	14.4	4112 - Maple, Beech, Cherry Association	Low Density Log	62 J	1-50	Site Prep	Trenching	42111 - Planted Red Pine, Mixed Deciduous	Cmpt. Review Proposal
Presc Spece	ription Trench a	and plant rec	d pine							
<u>Other</u> Comr		access need	ed							
<u>Next</u> <u>Steps</u>	<u>:</u>									
Propos Start D		ied								
	ng Factor and No ment Reason	adjac	Jnknown if access th cent landowner(s) is d was accessed in p	possible	nt acces	s not knov	wn			
Ac	Total Treatmer reage Propose	nt								

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

Year of Entry: 2014

OF NATURA

	tment me	Acres	CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
	OutOfY -Cut	2.1					Harvest	Clearcut with Reserves	4131 - Aspen, Oak	Cmpt. Review Proposal - Incomplete
Prescription Specs:	retain sor	me pine and	d osk for mast and s	eed producti	on, Follio	ow WLD gu	uidance for CWD	creation. Harvest	all stems that are not	retained.
<u>Other</u> Comments:	New stan	id should ha	ave mix of oak, pine,	aspen and	maple.					
<u>Next</u> <u>Steps:</u>										
Proposed Start Date:	09/01/20	09								
_	OutOfY Thin	4.6			0		Harvest	Low Thinning	4122 - Oak, Pine	Cmpt. Review Proposal - Incomplete
		arvest area, retention g		leavily thin o	ak and n	naple to a i	residual BA of at	oout 50 sf. Leave re	tention by acreage suf	ficient to meet
<u>Other</u> Comments:	Topograp	ohy is rathe	r hilly. Combine with	treatment in	Compai	rtment 133				
<u>Next</u> Steps:										
Proposed Start Date:	10/01/20	13								
Total 1 Acreage I	Freatmen Proposed		7							

S t				5 – For	ested Stands	Compartment: 054 Year of Entry: 2014
a n d	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
1	4126 - White, Black, N. Pin Oak	High Density Log	5.5	112	81-110	
2	42260 - Natural Pine, Mixed Deciduous	High Density Log	92.0	75	51-80	
4	42210 - Natural Red Pine	Low Density Log	36.3	73	51-80	Was R7 stand age 83. 20 may be first age.
5	42141 - Planted Mixed Pine, Mixed Deciduous	Medium Density	66.7	20	1-50	
6	4310 - Pine, Oak Mix	High Density Pole	17.5	57	81-110	New stand added.
7	4310 - Pine, Oak Mix	High Density Log	9.7	140	111-140	
8	42290 - Natural Mixed Pine	High Density Pole	73.7	75	51-80	
9	4310 - Pine, Oak Mix	High Density Log	12.9	75	51-80	stands 12,8,7 were all one J6 stand in o/i.
10	4310 - Pine, Oak Mix	Low Density Log	92.9	115	1-50	
11	42220 - Natural Jack Pine	Low Density Pole	8.1	20	1-50	
12	42141 - Planted Mixed Pine, Mixed Deciduous	High Density Sapling	26.2	20	1-50	
13	42290 - Natural Mixed Pine	High Density Log	59.5	Uneven Age	111-140	
14	4310 - Pine, Oak Mix	High Density Log	79.7	Uneven Age	81-110	
15	42250 - Pine, Oak	Low Density Log	59.6	Uneven Age	1-50	
16	42250 - Pine, Oak	Low Density Log	12.4	75	1-50	
17	4310 - Pine, Oak Mix	High Density Log	18.7	102	51-80	
18	42141 - Planted Mixed Pine, Mixed Deciduous	High Density Sapling	77.4	20	1-50	
20	42290 - Natural Mixed Pine	High Density Log	51.0	83	81-110	

S t	Traverse City Mgt. Unit			5 – For	ested Star	nds Compartment: 054 Year of Entry: 2014
a n d	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
21	42210 - Natural Red Pine	High Density Log	5.8	82	81-110	
23	42290 - Natural Mixed Pine	High Density Log	6.8	82	81-110	
24	42250 - Pine, Oak	Medium Density Log	101.1	83	51-80	
26	6128 - Lowland Coniferous, Mixed Deciduous	High Density Log	10.2	136	111-140	
27	4122 - Oak, Pine	Medium Density Log	51.8	102	1-50	First age 102 or 83 from previous.
28	42250 - Pine, Oak	High Density Log	28.4	75	81-110	
29	4126 - White, Black, N. Pin Oak	Medium Density Log	57.1	117	51-80	
30	4133 - Aspen, Mixed Pine	High Density Sapling	5.5	15	1-50	was hooked with PI stand 23 in o/i and was in TS# 044-95 with PI stand 23, 28. TCR 11/96.
32	42250 - Pine, Oak	Medium Density Log	19.1	Uneven Age	51-80	
33	42250 - Pine, Oak	High Density Log	18.0	75	81-110	
35	4191 - Mixed Upland Deciduous with Conifer	High Density Log	11.9	75	81-110	
36	4122 - Oak, Pine	High Density Log	6.8	Uneven Age	81-110	New stand added.
37	4310 - Pine, Oak Mix	Low Density Log	41.4	112	1-50	TS# 069-06 Cut all jp aspen wp rm bc. TCR 5/09.
38	4126 - White, Black, N. Pin Oak	High Density Log	22.2	110	81-110	New stand added.
40	4191 - Mixed Upland Deciduous with Conifer	High Density Log	45.7	Uneven Age	81-110	
41	4124 - Red with White Oak	Medium Density Log	60.3	83	1-50	
42	4310 - Pine, Oak Mix	Low Density Log	22.0	75	1-50	
45	4122 - Oak, Pine	Medium Density Log	81.6	Uneven Age	1-50	

S t	Traverse Cit	y Mgt. Unit		5 – For	ested Sta	nds Compartment: 054 Year of Entry: 2014
a n d	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
47	42260 - Natural Pine, Mixed Deciduous	High Density Log	7.2	Uneven Age	171-200	
48	6128 - Lowland Coniferous, Mixed Deciduous	High Density Sapling	5.5	20	1-50	2002FMD: C5F5C7E4 s tand 42 is main part of o/i stand that also included stands 38 45 and east half 49. 2011FMD; Most of old canopy is blown down. Stand is thick saplings and poles with a lot of cedar.
49	42290 - Natural Mixed Pine	High Density Log	160.1	75	81-110	
50	4191 - Mixed Upland Deciduous with Conifer	High Density Log	78.1	Uneven Age	81-110	
51	4133 - Aspen, Mixed Pine	High Density Pole	12.7	Uneven Age	111-140	
52	6128 - Lowland Coniferous, Mixed Deciduous	High Density Log	42.8	Uneven Age	51-80	
53	4112 - Maple, Beech, Cherry Association	Low Density Log	14.4	62	1-50	
54	42211 - Natural Red Pine, Mixed Deciduous	High Density Log	18.2	Uneven Age		
56	4131 - Aspen, Oak	High Density Pole	8.9	60	81-110	New stand added.
57	6129 - Mixed Coniferous Lowland Forest	High Density Sapling	6.6	Uneven Age	1-50	
58	4319 - Mixed Upland Forest	High Density Log	5.4	60	111-140	2002FMD: M5 Hardwood Ridge in swamp. 2011FMD red maple oak and white pine with balsam and spruce.
60	42210 - Natural Red Pine	Low Density Log	74.7	75	81-110	New stand added.
61	4131 - Aspen, Oak	High Density Pole	25.0	48	51-80	
62	4112 - Maple, Beech, Cherry Association	High Density Log	5.4	62	51-80	
63	4131 - Aspen, Oak	High Density Pole	45.4	39	81-110	
64	4131 - Aspen, Oak	High Density Pole	44.9	34	81-110	
65	4126 - White, Black, N. Pin Oak	Low Density Log	34.0	Uneven Age	51-80	New stand added.

S t	Traverse City	y Mgt. Unit		5 – For	ested Stands	Compartment: 054 Year of Entry: 2014
a n d	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
66	4199 - Other Mixed Upland Deciduous	High Density Log	18.6	Uneven Age	51-80	
67	4310 - Pine, Oak Mix	High Density Log	14.1	Uneven Age	81-110	
68	4126 - White, Black, N. Pin Oak	High Density Log	7.0	92	51-80	
69	4191 - Mixed Upland Deciduous with Conifer	High Density Log	11.4	Uneven Age	81-110	
72	42210 - Natural Red Pine	Low Density Log	102.2	75	81-110	New stand added.
74	6128 - Lowland Coniferous, Mixed Deciduous	Low Density Sapling	3.4	13	1-50	
75	42211 - Natural Red Pine, Mixed Deciduous	High Density Log	8.4	75	81-110	
76	4130 - Aspen	High Density Pole	51.0	47	51-80	· ·
77	6132 - Mixed Lowland Forest with Cedar	High Density Log	19.0	107	81-110	
78	4131 - Aspen, Oak	High Density Pole	34.4	34	51-80	
79	4126 - White, Black, N. Pin Oak	Medium Density Log	7.2	92	51-80	
80	4199 - Other Mixed Upland Deciduous	High Density Pole	9.0	34	51-80	
81	4129 - Mixed Oak	Low Density Log	43.4	92	1-50	
82	42290 - Natural Mixed Pine	High Density Log	10.0	85	51-80	
83	4319 - Mixed Upland Forest	High Density Log	39.0	Uneven Age	111-140	
84	42250 - Pine, Oak	Low Density Log	10.9	75	1-50	New stand added.
86	4126 - White, Black, N. Pin Oak	Low Density Log	30.2	75	51-80	New stand added.
87	6128 - Lowland Coniferous, Mixed Deciduous	High Density Log	37.4	75	81-110	

S t				5 – Foi	ested Stan	ds Compartment: 054 Year of Entry: 2014
a n d	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
88	42210 - Natural Red Pine	High Density Log	6.3	82	111-140	
89	4310 - Pine, Oak Mix	High Density Log	30.2	75	81-110	
90	6128 - Lowland Coniferous, Mixed Deciduous	High Density Log	19.7	Uneven Age	51-80	
91	4133 - Aspen, Mixed Pine	Medium Density Log	10.1	87	81-110	
92	4124 - Red with White Oak	High Density Log	8.0	110	81-110	
94	4191 - Mixed Upland Deciduous with Conifer	High Density Log	9.4	65	81-110	New stand added.
95	4191 - Mixed Upland Deciduous with Conifer	High Density Pole	6.6	34	81-110	2002FMD: E5
96	6119 - Mixed Lowland Deciduous Forest	High Density Log	9.7	82	81-110	
97	42260 - Natural Pine, Mixed Deciduous	High Density Log	4.1	65	111-140	
98	4191 - Mixed Upland Deciduous with Conifer	High Density Log	4.3	103	51-80	
99	6113 - Lowland Maple	High Density Pole	15.8	55	51-80	
100	4133 - Aspen, Mixed Pine	High Density Pole	21.9	42	81-110	
101	6112 - Lowland Aspen	High Density Log	3.5	85	171-200	
102	4199 - Other Mixed Upland Deciduous	Low Density Log	6.6	43	1-50	
103	4191 - Mixed Upland Deciduous with Conifer	High Density Log	26.9	83		
105	4122 - Oak, Pine	Medium Density Log	67.6	Uneven Age	1-50	
108	4133 - Aspen, Mixed Pine	High Density Log	22.7	75		Scattered old pine and oak then most is 75 age. Some ioak and opine poles seem to be 40-50 yr old. Big old aspen. Areas with a lot of white pine saps and poles. Could cut this and grow aspen/oak and pine regen through retained oak and pine.

S t	Traverse Cit	y Mgt. Unit		5 – For	ested Stands	Compartment: 054 Year of Entry: 2014
a n d	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
109	4131 - Aspen, Oak	Medium Density	15.4	Uneven Age	1-50	
110	6118 - Lowland Deciduous with Cedar	Medium Density Log	3.6	89	1-50	
112	6117 - Lowland Deciduous, Mixed Coniferous	Medium Density Pole	11.9	55	81-110	
113	6132 - Mixed Lowland Forest with Cedar	High Density Log	19.5	111	141-170	
114	4139 - Aspen, Mixed Deciduous	High Density Pole	91.9	32	81-110	
115	6132 - Mixed Lowland Forest with Cedar	High Density Log	10.5	106	111-140	
116	4131 - Aspen, Oak	High Density Pole	134.0	34	81-110	
118	4124 - Red with White Oak	High Density Log	21.0	92	81-110	
119	6116 - Lowland Birch	Medium Density	7.5	18	1-50	
120	4199 - Other Mixed Upland Deciduous	High Density Log	11.1	72	111-140	
121	6118 - Lowland Deciduous with Cedar	Medium Density Log	7.3	89	51-80	
122	4319 - Mixed Upland Forest	High Density Log	10.7	89	141-170	New stand added.
123	6119 - Mixed Lowland Deciduous Forest	Medium Density Pole	12.5	30	51-80	
124	4130 - Aspen	High Density Sapling	12.5	14	1-50	
125	4131 - Aspen, Oak	High Density Log	7.6	55	81-110	
126	4310 - Pine, Oak Mix	High Density Log	59.3	Uneven Age	81-110	
127	6132 - Mixed Lowland Forest with Cedar	Low Density Log	33.0	88		
128	6120 - Lowland Cedar	High Density Log	7.3	125	171-200	New stand added.

S t	Traverse City	/ Mgt. Unit		5 – For	ested Stands	Compartment: 054 Year of Entry: 2014
a n d	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
129	6132 - Mixed Lowland Forest with Cedar	Low Density Log	25.3	120	1-50	
130	6132 - Mixed Lowland Forest with Cedar	High Density Log	51.3	96	111-140	
131	4130 - Aspen	High Density Sapling	44.8	14	1-50	
132	6118 - Lowland Deciduous with Cedar	Medium Density Log	17.6	65		
133	4129 - Mixed Oak	High Density Log	27.7	Uneven Age	51-80	
134	42330 - Upland Fir	High Density Pole	4.8	42	111-140	
135	6139 - Mixed Lowland Forest	High Density Pole	10.2	75	141-170	
136	6120 - Lowland Cedar	High Density Log	23.2	116	200+	
137	6132 - Mixed Lowland Forest with Cedar	Low Density Log	19.6	Uneven Age	1-50	
138	4130 - Aspen	High Density Log	8.1	89	111-140	New stand added.
140	6118 - Lowland Deciduous with Cedar	Low Density Log	8.3	89	1-50	New stand added.
141	4191 - Mixed Upland Deciduous with Conifer	High Density Log	23.5	Uneven Age	111-140	New stand added.
143	4122 - Oak, Pine	High Density Log	16.7	Uneven Age	81-110	
144	4191 - Mixed Upland Deciduous with Conifer	High Density Log	15.9	65	111-140	
146	4191 - Mixed Upland Deciduous with Conifer	High Density Log	6.7	80	51-80	New stand added.
147	6119 - Mixed Lowland Deciduous Forest	High Density Log	14.3	78	51-80	
149	42210 - Natural Red Pine	High Density Log	12.9	106	81-110	
150	42290 - Natural Mixed Pine	Medium Density Log	18.1	106	51-80	

S t	Traverse City Mgt. Unit			5 – Forested Stands		Compartment: 054 Year of Entry: 2014
a n d	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
154	42140 - Planted Mixed Pine	High Density Sapling	20.5	16		
155	42260 - Natural Pine, Mixed Deciduous	High Density Log	6.2	Uneven Age	51-80	
156	6120 - Lowland Cedar	High Density Log	10.7	124	141-170	
157	4130 - Aspen	High Density Pole	36.5	46	111-140	
158	4319 - Mixed Upland Forest	High Density Sapling	11.6	15	1-50	
159	4191 - Mixed Upland Deciduous with Conifer	High Density Pole	2.7	85	51-80	
161	42220 - Natural Jack Pine	High Density Sapling	9.6	15		
163	42110 - Planted Red Pine	High Density Pole	32.6	16		
164	4110 - Sugar Maple Association	High Density Log	11.9	105	81-110	
166	42110 - Planted Red Pine	High Density Sapling	4.0	15		
168	42121 - Planted Jack Pine, Mixed Deciduous	High Density Sapling	3.4	15		
169	4133 - Aspen, Mixed Pine	High Density Log	6.3	Uneven Age	51-80	
171	42220 - Natural Jack Pine	Low Density Sapling	11.8	10		
172	6132 - Mixed Lowland Forest with Cedar	High Density Log	13.5	Uneven Age	51-80	
173	42110 - Planted Red Pine	High Density Log	49.5	54	171-200	
174	4130 - Aspen	High Density Sapling	6.1	7	1-50	2002FMD A5
175	4112 - Maple, Beech, Cherry Association	High Density Log	10.0	75	1-50	
176	4130 - Aspen	High Density Pole	9.7	47	111-140	2002 FMD A6 47 age

S t n d	Traverse City Mgt. Unit			5 – Foi	rested Stands	Compartment: 054 Year of Entry: 2014	DNR DNR
	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:	MICHIGAN .
177	42260 - Natural Pine, Mixed Deciduous	High Density Log	11.0	105	81-110		
178	4130 - Aspen	High Density Sapling	13.5	7		2002:A5	
180	4311 - Pine, Aspen Mix	High Density Log	7.0	Uneven Age	51-80		
182	4110 - Sugar Maple Association	High Density Log	4.6	92	51-80		

Traverse City Mgt. Unit

Compartment: 054 Year of Entry: 2014



Stand	Cover Type	Acres	Managed Site	Management Priority (Objective)	General Comments:
3	3202 - Autumn Olive/Honeysuckle		No	Unspecified	Old well pad planted to autumn olive-filling in with jack pine.
19	3102 - Grass		No	Unspecified	
22	6229 - Mixed lowland shrub	3.6	No	Unspecified	
25	790 - Other Bare/Sparsely Vegetate	1.7	No	Unspecified	
31	3302 - Low Density Conifer Trees	1.6	No	Unspecified	
34	3303 - Mixed Low Density Trees	2.3	No	Unspecified	
39	3302 - Low Density Conifer Trees	1.9	No	Unspecified	
43	3302 - Low Density Conifer Trees	1.2	No	Unspecified	
44	6225 - Bog	2.4	No	Unspecified	
46	11 - Low Intensity Urban	1.3	No	Unspecified	
55	6220 - Alder/willow	16.9	No	Unspecified	Stand swapped from Forested to Non-Forested.
59	3303 - Mixed Low Density Trees	1.8	No	Unspecified	
70	6232 - Wet Prairie	6.6	No	Unspecified	dead cedar killed by high water small pond flowing water grassy
71	3303 - Mixed Low Density Trees	3.7	No	Unspecified	
73	3303 - Mixed Low Density Trees	5.2	No	Unspecified	
85	11 - Low Intensity Urban	5.1	No	Unspecified	
93	6223 - Inundated Shrub Swamp	21.7	No	Unspecified	Beaver flooded area. Trees dead-cattail and tag alder.
104	3102 - Grass	18.2	No	Unspecified	

Traverse City Mgt. Unit

Stand

106

107

111

117

139

142

145

148

151

152

153

160

162

165

167

170

179

#### 6 - Nonforested Stands

Compartment: 054 Year of Entry: 2014



Managed **Management Priority General Comments: Cover Type** Acres Site (Objective) Unspecified 3102 - Grass 1.0 No 6229 - Mixed lowland shrub 6.0 Unspecified No 10.2 6223 - Inundated Shrub Swamp No Unspecified 2.6 3202 - Autumn Olive/Honeysuckle No Unspecified 6230 - Cattail 21.1 No Unspecified 730 - Mud Flats 10.3 No Unspecified 50 - Water 4.6 No Unspecified 3302 - Low Density Conifer Trees 8.7 No Unspecified 3102 - Grass 1.2 No Unspecified 6229 - Mixed lowland shrub 4.8 No Unspecified Site harvested 2010 and trenched 2011to be re-planted in 790 - Other Bare/Sparsely Vegetate 19.5 Planted Red Pine spring 2012 if trees available. Red Pine FMD 2008: nominated for out of YOE harvest and re-plant in 790 - Other Bare/Sparsely Vegetate 29.7 Planted 2008. RPP. Trenched 1n 2011. Should plant in 2012 if trees available. 22.2 Red Pine FMD 2008: Nominated for out of YOE harvest and re-plant. 790 - Other Bare/Sparsely Vegetate Planted RPP. Trenched in 2011. Should re-plant rp in 2012 if trees available. Red Pine 2008FMD: nominated in 2008 for out of YOE harvest and re-790 - Other Bare/Sparsely Vegetate 35.0 Planted planting RPP. Trenched in 2011. Plant in 2012 if trees available. Scattered apple trees. 3302 - Low Density Conifer Trees 1.1 No Unspecified 3301 - Low Density Deciduous Tree 2.6 Unspecified No apple trees

710 - Sand, Soil

Red Pine

36.1

Yes

## 6 – Nonforested Stands

Compartment: 054 Year of Entry: 2014



Stand	Stand Cover Type		Managed Management Priority es Site (Objective)		General Comments:	CHIGH
181	3105 - Mixed Upland Herbaceous	1.5	No	Unspecified		



## 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 Туре	SCA Name	Acres	Comments
47	Unique Site - SCA	61054047	7.2	2002FMD: W9 W8M4W4 Old Growth Stand. 2011FMD: Stnad has old growth characteristics but aslpen and red maple have been cut in past. Should set up as unique site -type 2 old growth? Left large white pine, hemlodk and oak last entry in pretty good stocking levels. Keep as old stand.
111	Unique Site - SCA	NF_61054111	10.2	part of SCA old aged stands



#### 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.

Conservation Area	n Type	Description	ERA = Ecological Reference Area HCVA = High Conservation Value Area SCA = Special Conservation Area		
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.			
HCVA	Natural Rivers	There are two Natural Rivers datasets which are derived from spatial buffers set from an established approved distance from the river centerlines. The Natural Rivers Zoning District is a 400 foot buffer most Natural Rivers. The Vegetative Buffer ranges from 25 to 100 feet. To view specific Zoning Diand Vegetative Buffers for each Natural River see the table located on the I:\Documentation\GDSE folder.			