

Report 1 – Compartment Review Presentation

Traverse City Forest Management Unit

Compartment 24 Entry Year 2015 Acreage: 1,565 County Benzie Management Area: Benzie Outwash

Revision Date: 04/24/2013

Stand Examiner: Craig Allen

Legal Description:

T25N- R14W; Sections 2, 11, 14

Identified Planning Goals:

This compartment is a part of the Benzie Outwash Management Area. Within this compartment there is a high percentage of early successional forest types consisting primarily of aspen, red maple and cherry that will continue to require harvest treatments to balance age class distributions. We will concentrate our harvest efforts on the oldest age classes to regenerate. Most of the proposed treatments are targeting these stands. These cuts will have retention islands as well as various scattered retention trees remaining.

Soil and topography:

The topography is mostly level with some low lying areas. The upland areas consist of the well drained Kalkaska- Rubicon soil association. Lowland areas of wet and semi- wet flats are made up of permeable Roscommon- Augres- Croswell soils.

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

This compartment is part of a large block of State land, which includes some scattered private ownerships. The areas lying to the west, south and east of this compartment are also mostly State owned. The area lying to the north is private, and parceled into various ownerships.

Unique, Natural Features:

The headwaters for Dair Creek start in this compartment.

Archeological, Historical, and Cultural Features:

There are no known sites within the compartment.

Special Management Designations or Considerations:

The forested lowland headwaters of Dair Creek form an important deeryard area.

Watershed and Fisheries Considerations:

Compartment 24 comprises the headwater area for Dair Creek, a significant tributary of the Betsie River. Dair Creek is a Designated Trout Stream, with naturally reproducing populations of brook trout, brown trout, and rainbow trout (steelhead). Dair Creek is critical in that it produces a large percentage of the wild steelhead parr from the Betsie River watershed. Therefore, Dair Creek should receive the utmost protection. For that reason, we recommend managing for species other than aspen in stands near the streams, in order to reduce the potential for major beaver impacts on the headwaters of this important stream. (Comments by Mark Tonello)

Wildlife Habitat Considerations:

This compartment lies entirely within a broad flat outwash plain which typically exhibits excessively drained soils and few lakes or wetlands. Upland areas are normally managed for a variety of forest age classes, successional stages, and patch sizes, as well as grass/shrub openings consistent with fire driven dynamics that historically shaped vegetation on this LTA. Several large non-forested stands on the west edge of section 2 will be managed in conjunction with adjacent non-forested stands west of Weldon Road, as a large opening complex. Treatments may include bracken and invasive species control, seeding, mowing, and prescribed fire. This type of treatment regime would benefit species such as American Redstarts, chestnut-sided warblers, ruffed grouse, and white-tailed deer, and amphibians associated with vernal pools occasionally found in this area.

There is an inclusion of poorly drained soils in section 14 which supports lowland hardwoods and lowland conifers. Some low areas could be allowed to succeed to uneven-aged stands of mixed coniferous and deciduous species and treated with selective harvest. Patch cuts can be used to mimic wind events and should be designed to maximize stem densities of the regenerating stand. High stem densities provide cover for wildlife and prevent the water table from rising. Treatments should leave tops unchipped and utilize timber operations to create coarse woody debris to provide horizontal cover for hares and other animals. Cuts should be designed to prevent loss of evapotranspiration, or otherwise altering that natural

hydrologic cycle. This low lying area comprises a moderately sized deer yard that is drained by Dair Creek. The aspen stands in this area have a component of conifer and hardwoods that should be used as leave trees/clumps as the aspen is harvested. An occasional oak is also found and are normally used as leave trees when harvesting surrounding aspen. Tops should be left unchipped for horizontal cover. When harvesting aspen that is adjacent to lowland stands, falling edge trees that occur on the upland/lowland interface provides needed horizontal cover for hares and other animals. The boundary marked trees can be felled into the uncut swamp after harvest is completed.

The southeastern portion of this compartment is slightly hilly and dominated by northern hardwoods. This area more resembles an LTA associated with small ground moraines. Hardwood treatments of any style should be designed to leave snags and coarse woody debris as well as within stand species diversity and vertical structure. Species benefiting from management of this community type include the red-eyed vireo, four-toed salamander, gray fox, and broad-winged hawk. (comments by Steve Griffith).

Mineral Resource and Development Concerns and/or Restrictions

Surface sediments consist of glacial outwash sand and gravel and postglacial alluvium. The glacial drift thickness varies between 600 and 800 feet. Beneath the glacial drift is the Devonian Ellsworth Shale. The Ellsworth is used for cement products. A gravel pit is located two and one-half miles to the east and potential appears to be good especially North Hills. This area is located northwest of the Antrim Shale gas play and a few parcels in section 14 are leased for oil and gas development. The Antrim Shale appears to have potential, with the nearest well located in Section 23. (Comments by Tom Hoane).

Vehicle Access:

There are good gravel county roads on the edges of this compartment, offering good and easy access to State lands. There are also many forest "2-track" roads in various areas of the compartment that are in good condition and are used for public and DNR land management accessibility

Survey Needs:

Although not needed for prescribed treatments during this entry year, there are several corners adjacent to private lands where currently there are no known registered land survey corners. These may be necessary for future land management needs.

Recreational Facilities and Opportunities:

Snowmobile trail #3 (Platte River Snowmobile Trail) runs along Weldon Rd, and Aylsworth Rd, which are the western and northern boundary lines of this compartment. Snowmobile trails located on straight, county roads tend to invite high speeds, which increases safety concerns. Proposed timber management activities should include trail protection specifications to reduce impacts, increase safety, as well as serve as an example of how silviculturally sound timber harvesting practices can co-exist, and often improve recreation and wildlife experiences for future generations. Non-winter harvests, coupled with a "flush cut" specification adjacent to the trails are suggested considerations. Hunting and dispersed camping are also popular recreational activities throughout the compartment. (Comments by Todd Neiss, 3/13)

Fire Protection:

This area has wildfire protection by DNR and local volunteer Fire Departments.

Additional Compartment Information:

The following reports from the Inventory are attached:

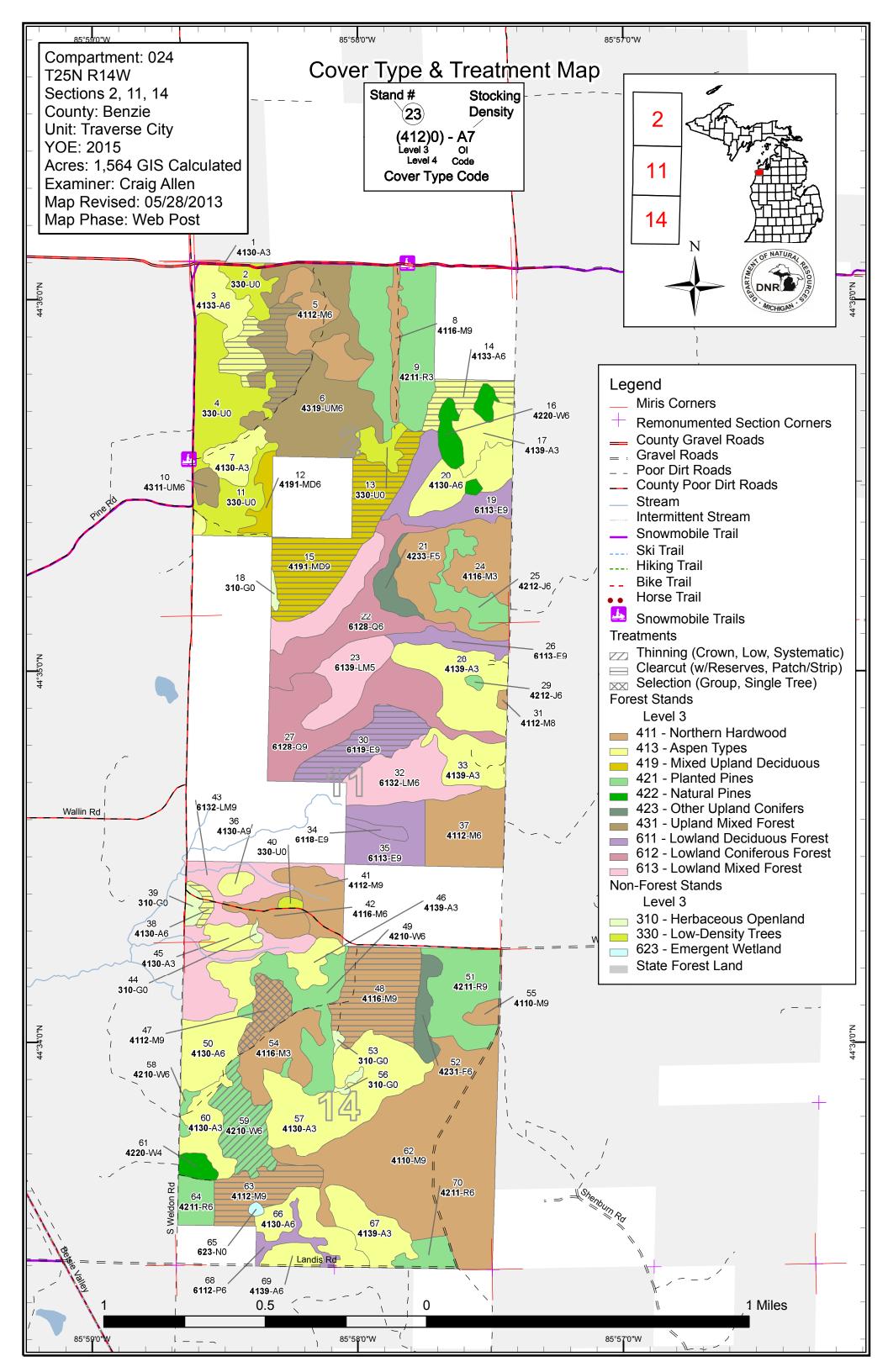
Total Acres by Cover Type and Age Class Cover Type by Harvest Method Proposed Treatments – No Limiting Factors Proposed Treatments – With Limiting Factors Stand Details (Forested and Nonforested) Dedicated and Proposed Special Conservation Areas Site Condition Details

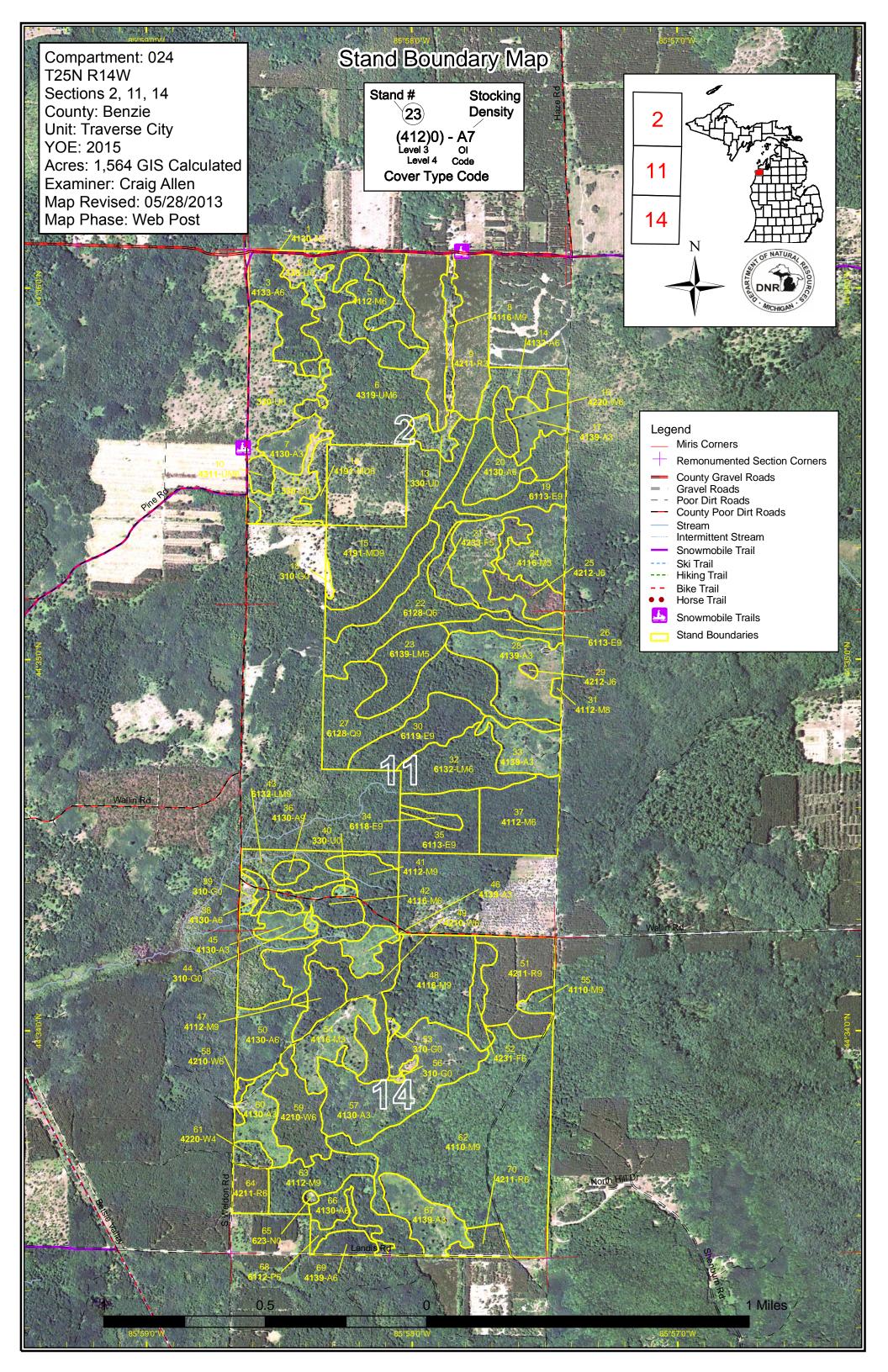
The following information is displayed, where pertinent, on the attached compartment maps: Base feature information, stand boundaries, cover types, and numbers

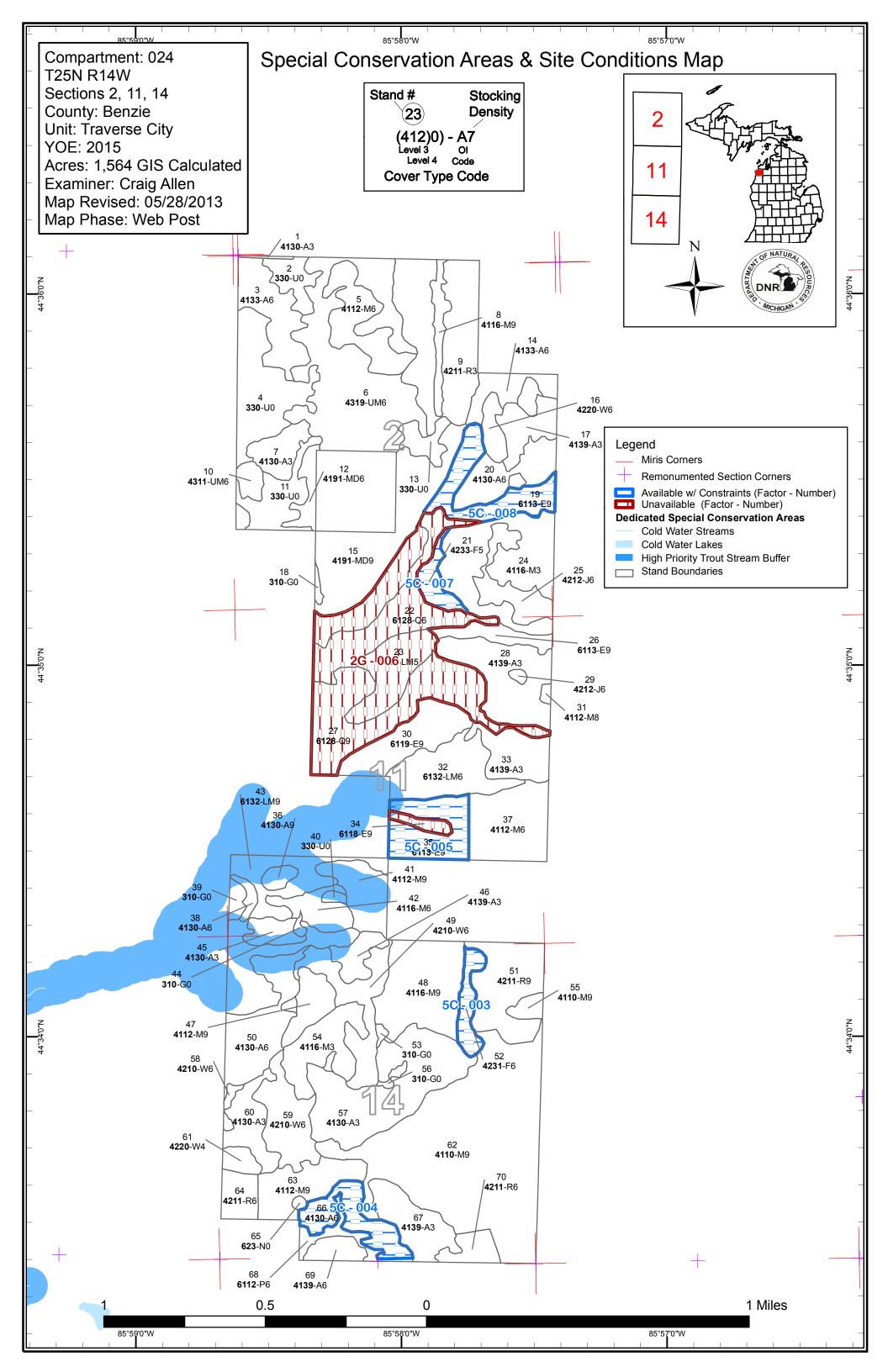
Proposed treatments

Site condition boundaries

Details on the road access system







Report 2 – Total Acres by Cover Type and Age Class

Traverse City Mgt. Unit

Craig Allen : Examiner

Compartment 024 Year of Entry 2015



Age Class

	/	00	72,79	103 123	30.39 13	100 Mar	30. 30. 10	60.00	and a start	00 00 00 00	66.00	100'00'	120,179	178× 156	AND A	, do ¹⁰
Aspen	144	96	0	0	90	3	4	0	0	0	0	0	0	0	337	ĺ
Herbaceous Openland	8	0	0	0	0	0	0	0	0	0	0	0	0	0	8	
Jack Pine	0	0	0	0	0	18	0	0	0	0	0	0	0	0	18	1
Low-Density Trees	77	0	0	0	0	0	0	0	0	0	0	0	0	0	77	1
Lowland Aspen/Balsam Poplar	0	0	0	0	7	0	0	0	0	0	0	0	0	0	7	
Lowland Conifers	0	0	0	0	0	0	0	0	60	40	0	0	0	0	99	
Lowland Deciduous	0	0	0	0	0	0	0	10	83	0	0	0	0	0	94	
Lowland Mixed Forest	0	0	0	0	0	0	0	0	0	127	0	0	0	0	127	
Marsh	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	
Mixed Upland Deciduous	0	0	0	0	8	0	0	0	0	55	0	0	0	0	63	
Northern Hardwood	25	0	52	0	35	0	13	50	204	45	0	0	0	0	425	
Red Pine	0	63	0	0	0	55	0	0	0	0	0	0	0	0	118	
Upland Mixed Forest	0	0	0	0	5	90	0	0	0	0	0	0	0	0	96	
Upland Spruce/Fir	0	0	0	0	0	19	0	0	0	0	0	0	0	0	19	
White Pine	0	0	0	0	0	75	0	0	0	0	0	0	0	0	75	
Total	256	159	52	0	145	260	17	61	347	267	0	0	0	0	1564	



MICHIGAN .	Traverse City Mgt. Unit Year of Entry 2015								Compartment Total Compartment Acres:	
			Ac	res by T	reatm	ent Ty	ре			
	Commercial Harvest - 237 Tre	e Planting - 0		Other ·	0					
	Habitat Cut - 0 Opening Maintenance - 0									
			c	over Ty	pe by l	larves	t Meth	od		
			Clear	Celection of	2000 111 1000 15	eternood	tinning 055	A LAND LAND LAND LAND LAND LAND LAND LAN		
	Aspen Types		47 0	0	0	0	0	47		
	Lowland Deciduous Forest		28 0	0	0	0	0	28		
	Mixed Upland Deciduous		55 0	0	0	0	0	55		
	Northern Hardwood		68 13	3 0	0	0	0	81		
	Planted Pines		0 0	0	0	25	0	25		
		Total	199 13	3 0	0	25	0	237		
		L								

S t		Traverse	City Mgt. Unit	Repo			ents Prescri ing Factor	bed	Compartment: 024 Year of Entry 2015	DNR DNR
a n d	Treatment Name	Acres	CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
3	61024003and -Cut	3 31.5	4133 - Aspen, Mixed Pine	High Density Pole	47		Harvest	Clearcut with Reserves	4130 - Aspen	Cmpt. Review Proposal
Pres Spec	<u>cs:</u> mast.	Leave a cou		hich should	be a mi	nimum of 3	% of the total ha		althy cherry trees (if ava Also, create some CV	
<u>Othe</u> Com	er iments:									
<u>Vext</u> Step: ropc										
	Date: 10/01/2	014								
14	61024014-Cu	12.8	4133 - Aspen, Mixed Pine	High Density Pole	47		Harvest	Clearcut with Reserves	4130 - Aspen	Cmpt. Review Proposal
<u>Pres</u> Spec	<u>cs:</u> some s	cattered ch		nd retention.	Leave	retention is	sland(s) of a min	nimum of 3% of the	rhite pine 6" to 12" DBH e total harvest area. Cr	
<u>Othe</u> Com	e <u>r</u> iments:									
<u>Vext</u> Step										
	<u>osed</u> <u>Date:</u> 10/01/2	014								
15	61024015-Cu	55.3	4191 - Mixed Upland Deciduous with Conifer	High Density Log	90		Harvest	Clearcut with Reserves	4136 - Aspen, Mixed Conifer	Cmpt. Reviev Proposal
Pres Spec	cs: leave s	cattered an	d/or groups trees of all	species. Le	eave a fe . Try to s that m	ew retention leave som	n islands, one pa le pockets of sub	articularly around a	DBH white pine. For rea an area along west edge Create some CWD du	e near private
	operati	ons and lea	ve any standing dead		ell some	boundary		ent lowland stand f	or purposes of creating	hare habitat.
<u>)</u> Dthe	operati Per rec <u>er</u> iments:	ons and lea	ve any standing dead		ell some	boundary		ent lowland stand f	or purposes of creating	hare habitat.
Othe	operati Per rec <u>er</u> iments:	ons and lea	ve any standing dead		ell some	boundary		ent lowland stand f	or purposes of creating	hare habitat.
<u>Othe</u> Com Next Step: ropc	operati Per rec <u>er</u> iments:	ons and lea juest of Wild	ve any standing dead		ell some	boundary		ent lowland stand f	or purposes of creating	hare habitat.
<u>Othe</u> Com Next Step: ropc	operati Per rec iments: is: osed	ons and lea juest of Wild	ve any standing dead a dlife Biologist, add spe dlife Biologist, add spe		80	81-110		ent lowland stand f Clearcut with Reserves	or purposes of creating 6119 - Mixed Lowland Deciduous Forest	
Dthe Com Next Step: ropc tart	operati Per rec sr_ iments: ss: <u>osed</u> <u>Date:</u> 10/01/2 61024030-Cu cription Manag cs: loggers area. and de	ons and lea juest of Wild 014 t 27.8 ement goal t to work arc Possibly als n trees that	ve any standing dead a dife Biologist, add spe 6119 - Mixed Lowland Deciduous Forest primarily to regenerate bund submerchantable o leave some scattered	High Density Log cherry, but fir as much d retention tr	80 will also as poss ees as v	81-110 regenerate ible. Mark well. Creat	Harvest Harvest e red maple and to leave a few re e some CWD du	Clearcut with Reserves aspen. Cut all ch etention islands lea uring harvest opera	6119 - Mixed Lowland Deciduous	Cmpt. Revie Proposal en. Advise of total harves anding dead
Dthe Com <u>Vext</u> Step: ropc tart 30 <u>Pres</u> Spec	operati Per rec iments: ss: <u>osed</u> <u>Date:</u> 10/01/2 61024030-Cu 61024030-Cu scription Manag cs: loggers area. la purpos er iments:	ons and lea juest of Wild 014 t 27.8 ement goal t to work arc Possibly als n trees that	6119 - Mixed 6119 - Mixed Lowland Deciduous Forest primarily to regenerate ound submerchantable o leave some scattered may be on site. Per re	High Density Log cherry, but fir as much d retention tr	80 will also as poss ees as v	81-110 regenerate ible. Mark well. Creat	Harvest Harvest e red maple and to leave a few re e some CWD du	Clearcut with Reserves aspen. Cut all ch etention islands lea uring harvest opera	6119 - Mixed Lowland Deciduous Forest erry, maple, fir and aspe aving a minimum of 3% ations and leave any sta	Cmpt. Review Proposal en. Advise of total harves anding dead
Othe Com Vext Step: ropc tart 30 Press Spec Othe Com Vext Step:	operati Per rec iments: ss: <u>bsed</u> <u>Date:</u> 10/01/2 61024030-Cu 61024030-Cu 61024030-Cu scription loggers area. I and de purpos er iments:	ons and lea juest of Wild 014 t 27.8 ement goal t to work arc Possibly als n trees that	6119 - Mixed 6119 - Mixed Lowland Deciduous Forest primarily to regenerate ound submerchantable o leave some scattered may be on site. Per re	High Density Log cherry, but fir as much d retention tr	80 will also as poss ees as v	81-110 regenerate ible. Mark well. Creat	Harvest Harvest e red maple and to leave a few re e some CWD du	Clearcut with Reserves aspen. Cut all ch etention islands lea uring harvest opera	6119 - Mixed Lowland Deciduous Forest erry, maple, fir and aspe aving a minimum of 3% ations and leave any sta	Cmpt. Revie Proposal en. Advise of total harves anding dead

Traverse City Mgt. Unit S t				Repo			nents Prescri ting Factor	ibed	Compartment: 024 Year of Entry 2015	19 A 18	
a n d	Treatment Name	Acres	CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Approval Status	
38	61024038-Cut	3.0	4130 - Aspen	High Density Pole	55		Harvest	Clearcut with Reserves	4130 - Aspen	Cmpt. Review Proposal	
<u>Prese</u> Spec	s: Due to s	small size o		no other rete	ntion ne	eds other t	han the species		e, cedar and submerch Create some CWD dur		
<u>Othe</u> Com	<u>r</u> ments:										
Next Steps											
Propo Start I		14									
47	61024047-Cut	13.1	4112 - Maple, Beech, Cherry Association	High Density Log	90 9	111-140	Harvest	Single Tree Selection	4112 - Maple, Beech, Cherry Association	Cmpt. Review Proposal	
Prese Spec		nin following	g compleat marker gi	uidelines mar	naging fo	or best tree	in place. Thin E	3A down to approxi	mately 80-90 BA residu	ual.	
<u>Othe</u>	_										
	ments:										
Next											
Steps	5.										
Propo	sed	14									
- Propo	sed	14 44.3	4116 - Mixed N. Hardwood - Aspen	High Density Log	88	51-80	Harvest	Clearcut with Reserves	4139 - Aspen, Mixed Deciduous	Cmpt. Review Proposal	
Propo Start I 48	<u>sed</u> Date: 10/01/20 61024048-Cut cription Cut to re s: Leave a	44.3 egenerate a ny conifers	Hardwood - Aspen and expand aspen an	Density Log d cherry. Als ary greatly fr	g so cut re om 0 to	d maple bu 50 BA dep	it leave most sug ending on where	Reserves gar maple possibly the aspen is located	• •	Proposal poor form.	
Preso Spec	<u>sed</u> Date: 10/01/20 61024048-Cut cription Cut to re s: Leave a standing	44.3 egenerate a ny conifers	Hardwood - Aspen and expand aspen an . Residual BA may v	Density Log d cherry. Als ary greatly fr	g so cut re om 0 to	d maple bu 50 BA dep	it leave most sug ending on where	Reserves gar maple possibly the aspen is located	Mixed Deciduous cutting only those with	poor form.	
Propo Start I 48 Preso Spec	<u>sed</u> Date: 10/01/20 61024048-Cut cription Cut to re s: Leave a standing L ments:	44.3 egenerate a ny conifers	Hardwood - Aspen and expand aspen an . Residual BA may v	Density Log d cherry. Als ary greatly fr	g so cut re om 0 to	d maple bu 50 BA dep	it leave most sug ending on where	Reserves gar maple possibly the aspen is located	Mixed Deciduous cutting only those with	Proposal poor form.	
48 Prese Spec Othe Com Next Steps Propo	<u>sed</u> Date: 10/01/20 61024048-Cut cription Cut to re s: Leave a standing r ments: S: sed	44.3 egenerate a ny conifers dead and	Hardwood - Aspen and expand aspen an . Residual BA may v	Density Log d cherry. Als ary greatly fr	g so cut re om 0 to	d maple bu 50 BA dep	it leave most sug ending on where	Reserves gar maple possibly the aspen is located	Mixed Deciduous cutting only those with	Proposal poor form.	
48 Prese Spec Othe Com Next Steps Propo	<u>sed</u> Date: 10/01/20 61024048-Cut cription Cut to re s: Leave a standing r ments: S: sed	44.3 egenerate a ny conifers dead and	Hardwood - Aspen and expand aspen an . Residual BA may v	Density Log d cherry. Als ary greatly fr	g so cut re om 0 to eate sor	d maple bu 50 BA dep	it leave most sug ending on where	Reserves gar maple possibly the aspen is located	Mixed Deciduous cutting only those with ed (more open there).	Proposal poor form. Leave any	
48 Presso 48 Presso Spec Othe Com Next Steps Propo Start I 59	sed Date: 10/01/20 61024048-Cut cription Cut to restrict to restrestrict to restrict to restrict to restrestrict to restring to res	44.3 egenerate a ny conifers dead and 14 25.3 nark trees to a minimum	Hardwood - Aspen and expand aspen an . Residual BA may v den trees that may b 42101 - Planted White Pine, Mixed Deciduous o remove poor-forme	Density Log d cherry. Als vary greatly fr e on site. Cr High Density Pole ed white pine ith higher BA	3 so cut re om 0 to eate sor 50 that has more de	d maple bu 50 BA dep ne CWD d 141-170 been dam esirable if p	ut leave most sug ending on where uring harvest op Harvest daged from weev possible dependi	Reserves gar maple possibly the aspen is locate erations. Crown Thinning il (green mark leaving on amount and	Mixed Deciduous cutting only those with ed (more open there). 42100 - Planted	Proposal poor form. Leave any Cmpt. Review Proposal	
48 Press Spec Othe Com Next Step: Propo Start I 59 Press Spec Othe	sed 10/01/20 61024048-Cut cription cription Cut to restrict to restresto restrict to restrestrict to restrict to r	44.3 egenerate a ny conifers dead and 14 25.3 nark trees to a minimum	Hardwood - Aspen and expand aspen an . Residual BA may v den trees that may b 42101 - Planted White Pine, Mixed Deciduous o remove poor-forme n of 50 BA residual w	Density Log d cherry. Als vary greatly fr e on site. Cr High Density Pole ed white pine ith higher BA	3 so cut re om 0 to eate sor 50 that has more de	d maple bu 50 BA dep ne CWD d 141-170 been dam esirable if p	ut leave most sug ending on where uring harvest op Harvest daged from weev possible dependi	Reserves gar maple possibly the aspen is locate erations. Crown Thinning il (green mark leaving on amount and	Mixed Deciduous cutting only those with ed (more open there). 42100 - Planted White Pine ve trees will likely be mo	Proposal poor form. Leave any Cmpt. Review Proposal	
Area of the second seco	sed 10/01/20 61024048-Cut cription Cut to resserve a standing Leave a standing r standing ments: 10/01/20 61024059-Cut 61024059-Cut cription Select n ss: to leave cut all a: r to leave cut all a:	44.3 egenerate a ny conifers dead and 14 25.3 nark trees to a minimum	Hardwood - Aspen and expand aspen an . Residual BA may v den trees that may b 42101 - Planted White Pine, Mixed Deciduous o remove poor-forme n of 50 BA residual w	Density Log d cherry. Als vary greatly fr e on site. Cr High Density Pole ed white pine ith higher BA	3 so cut re om 0 to eate sor 50 that has more de	d maple bu 50 BA dep ne CWD d 141-170 been dam esirable if p	ut leave most sug ending on where uring harvest op Harvest daged from weev possible dependi	Reserves gar maple possibly the aspen is locate erations. Crown Thinning il (green mark leaving on amount and	Mixed Deciduous cutting only those with ed (more open there). 42100 - Planted White Pine ve trees will likely be mo	Proposal poor form. Leave any Cmpt. Review Proposal	

Traverse City Mgt. Unit

Report 4 -- Treatments Prescribed with No Limiting Factor

Compartment: 024 Year of Entry 2015

t a n d	Treatment Name	Acres	CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
63	61024063-Cut	24.1	4112 - Maple, Beech, Cherry Association	High Density Log	70 9	51-80	Harvest	Clearcut with Reserves	4139 - Aspen, Mixed Deciduous	Cmpt. Review Proposal

 Prescription
 Cut all aspen and maple in areas of where aspen is more prevelant. Other parts of the stand have pockets of sugar maple and better formed red

 Specs:
 maple...in these areas individually mark poor formed trees to thin these pockets. Majority of stand will regenerate to aspen. Retention may consist of one or two small leave islands in addition to the maple trees that will be left in the maple pocket areas. Leave any standing dead and den trees that may be on site. Also, create some CWD during the harvest operation.

 Other

Comments:

Next

S

Steps:

Proposed Start Date: 10/01/2014

Total Treatment

Acreage Proposed: 237.1

S t		Traverse City	Mgt. Unit	Report \$		eatment imiting	ts Prescribed Factor	l with	Compartment: 024 Year of Entry 2015	DNR DNR
a n d	Treatment Name	Acres	CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
			#Type!							
Presc Spec: Other Comr	:									
<u>Next</u> <u>Steps</u>	<u>.</u>									
<u>Propo</u> <u>Start</u>										
<u>Limiti</u>	ng Factor									
Ac	Total Treatme creage Propos									

Report 6 – Out of YOE – Treatments Prescribed with No Limiting Factor Year of Entry: 2015



	Treatment Name	Acres	CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Approval Status
	28218	5.9	Unspecified				Harvest	Other - Specify in Comments	Unspecified	Cmpt. Review Proposal
<u>Prescri</u> Specs:										
<u>Other</u> Comme	ents:									
<u>Next</u> Steps:										
<u>Propos</u> <u>Start D</u>										
	28219	7.2	Unspecified				Harvest	Other - Specify in Comments	Unspecified	Cmpt. Review Proposal - Incomplete
<u>Prescri</u> Specs:										
<u>Other</u> Comme	ents:									
<u>Next</u> Steps:										
<u>Propos</u> <u>Start D</u>										
6	01043_OutOfY OE-Cut	2.1					Harvest	Clearcut with Reserves	4131 - Aspen, Oak	Cmpt. Review Proposal - Incomplete
<u>Prescri</u> Specs:		ome pine an	d osk for mast and s	eed product	ion, Follle	ow WLD gi	uidance for CWI	O creation. Harvest	all stems that are not	retained.
<u>Other</u> Comme		and should h	ave mix of oak, pine	, aspen and	maple.					
<u>Next</u> <u>Steps:</u>										
<u>Propos</u> Start D		009								
1	Total Treatme	nt	•							

Acreage Proposed: 15.3

Traverse City Mgt. Unit

Compartment 024 Year of Entry 2015

Craig Allen : Examiner

Availability for Management

	-	-					
Total	Acres	Acres	D	omina	nt Site	e Conc	lition
Acres	Available	Not Available		No	5C	2G	
336	336		Aspen	315	21		
18	18		Jack Pine	18			
7	7		Lowland Aspen/Balsam Poplar	7			
99		99	Lowland Conifers			99	
93	89	4	Lowland Deciduous	38	51	4	
127	82	45	Lowland Mixed Forest	82		45	
63	63		Mixed Upland Deciduous	63			
424	424		Northern Hardwood	424			
118	118		Red Pine	118			
96	96		Upland Mixed Forest	96			
19	19		Upland Spruce/Fir		19		
75	75		White Pine	75			
1,474	1,327	147	Total Forested Acres	1,236	91	147	
	90%	10%	Relative Percent				

*Due to limitations in the current Site Conditions Analysis tool, all nonforested acres are considered available. Future development will enable analysis of nonforested types.

Site No.	Dominant Site Cond Availability	Dominant Site Condition	Acres	Other Site Condition	Other Site Condition	Other Site Condition	Other Site Condition
003	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	10				
(Comments:						
004	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	21				
(Comments:						

	Traverse City Mgt. Unit Craig Allen : Examiner			Report 7 – Site Conditions	Compartment 024 Year of Entry 2015
005	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	26		
Co	omments:				
006	Not Available	2G: Too wet (sensitive soils, does not include access issues)	148		
Co	omments:				
007	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	9		
Co	omments:				
008	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	25		
Co	omments:				



Report 8 – PROPOSED SPECIAL CONSERVATION AREA* (SCA) DETAILS

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

SCA Name SCA Category Detail Type Recommendation Acres

Comments



Report 9 – 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	Riparian Area	A transitional area between aquatic and terrestrial ecosystems influences the aquatic ecosystem and vice-versa. Because of streams and open water wetlands, riparian areas harbor a high communities are ecologically and socially significant in their ef as aesthetics, habitat, bank stability, timber production, and the	the unique conditions adjacent to lakes, n diversity of plants and wildlife. Riparian fects on water quality and quantity, as well

S t	Traverse City	/ Mgt. Unit		Report 10	– Forestec	d Stands Compartment: 024 Year of Entry: 2015
a n d	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
1	4130 - Aspen	High Density Sapling	0.7	8		
3	4133 - Aspen, Mixed Pine	High Density Pole	26.2	47		
5	4112 - Maple, Beech, Cherry Association	High Density Pole	26.3	75	81-110	
6	4319 - Mixed Upland Forest	High Density Pole	90.5	58	81-110	
7	4130 - Aspen	High Density Sapling	14.4	6		
8	4116 - Mixed N. Hardwood - Aspen	High Density Log	8.8	90	51-80	
9	42110 - Planted Red Pine	High Density Sapling	63.1	14		Stand was clearcut in 1994, Trenched in 1999then handplanted to 2-0 red pine bare root stock in April of 2000.
10	4311 - Pine, Aspen Mix	High Density Pole	5.2	47		
12	4191 - Mixed Upland Deciduous with Conifer	High Density Pole	7.7	47		
14	4133 - Aspen, Mixed Pine	High Density Pole	12.8	47		
15	4191 - Mixed Upland Deciduous with Conifer	High Density Log	55.3	90		cut all merchantable trees. leave some large white pine and protect young understory as much as possible
16	42200 - Natural White Pine	High Density Pole	12.4	55	81-110	
17	4139 - Aspen, Mixed Deciduous	High Density Sapling	14.9	7		Also contains many scattered mature leave trees,
19	6113 - Lowland Maple	High Density Log	25.5	85	81-110	
20	4130 - Aspen	High Density Pole	21.4	45		
21	42330 - Upland Fir	Medium Density Pole	8.9	55	51-80	
22	6128 - Lowland Coniferous, Mixed Deciduous	High Density Pole	39.9	90	51-80	
23	6139 - Mixed Lowland Forest	Medium Density Pole	44.8	91	1-50	Part of drainage system formulating headwaters for Dair Creek. water year round

S t	Traverse City Mgt. Unit			Report 10	– Forested	Stands Compartment: 024 Year of Entry: 2015	
a n d	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:	
24	4116 - Mixed N. Hardwood - Aspen	High Density Sapling	51.8	21			
25	42120 - Planted Jack Pine	High Density Pole	17.2	55	81-110		
26	6113 - Lowland Maple	High Density Log	10.4	77	51-80		
27	6128 - Lowland Coniferous, Mixed Deciduous	High Density Log	59.6	85	51-80		
28	4139 - Aspen, Mixed Deciduous	High Density Sapling	37.8	7		Contains scattered mature leave trees and islands for diversity that were left uncut during the harvest in 2006.	
29	42120 - Planted Jack Pine	High Density Pole	1.2	57	81-110	Small island that was left out in harvest area to provide wildlife cover and diversity	
30	6119 - Mixed Lowland Deciduous Forest	High Density Log	27.8	80	81-110	east 1/3 of stand much higher quality and diameter compared to rest of stand.	
31	4112 - Maple, Beech, Cherry Association	Medium Density Log	1.2	85	51-80	Small island of mix tree species that was left as a save island for wildlife and species diversity as well as visual purposes along road.	
32	6132 - Mixed Lowland Forest with Cedar	High Density Pole	32.7	90	51-80		
33	4139 - Aspen, Mixed Deciduous	High Density Sapling	19.5	7		Contains scattered leave trees and islands	
34	6118 - Lowland Deciduous with Cedar	High Density Log	4.0	85	51-80	winter cover	
35	6113 - Lowland Maple	High Density Log	25.9	85	81-110		
36	4130 - Aspen	High Density Log	4.0	60			
37	4112 - Maple, Beech, Cherry Association	High Density Pole	35.3	47	81-110		
38	4130 - Aspen	High Density Pole	3.0	55			
41	4112 - Maple, Beech, Cherry Association	High Density Log	19.1	90	81-110		
42	4116 - Mixed N. Hardwood - Aspen	High Density Pole	13.1	60			

S t	Traverse City Mgt. Unit			Report 10	– Forestec	Stands Compartment: 024 Year of Entry: 2015	
a n d	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:	
43	6132 - Mixed Lowland Forest with Cedar	High Density Log	49.5	95	81-110		
45	4130 - Aspen	High Density Sapling	8.1	7			
46	4139 - Aspen, Mixed Deciduous	High Density Sapling	9.7	7			
47	4112 - Maple, Beech, Cherry Association	High Density Log	13.1	90	111-140	select thin	
48	4116 - Mixed N. Hardwood - Aspen	High Density Log	44.3	88	51-80	clearcut to regenerate and expand aspen and cherry. leave all sugar or possibly mark lower quality ones to harvest. leave any conifers. aspen is getting old	
49	42101 - Planted White Pine, Mixed Deciduous	High Density Pole	29.8	50	141-170		
50	4130 - Aspen	High Density Pole	33.0	19			
51	42110 - Planted Red Pine	High Density Log	35.3	55	111-140		
52	42311 - Planted Spruce, Mixed Deciduous	High Density Pole	10.3	52	81-110		
54	4116 - Mixed N. Hardwood - Aspen	High Density Sapling	25.0	7			
55	4110 - Sugar Maple Association	High Density Log	4.3	90	81-110		
57	4130 - Aspen	High Density Sapling	62.7	18			
58	42101 - Planted White Pine, Mixed Deciduous	High Density Pole	2.2	50	141-170		
59	42101 - Planted White Pine, Mixed Deciduous	High Density Pole	25.3	50	141-170	select mark	
60	4130 - Aspen	High Density Sapling	16.9	7			
61	42200 - Natural White Pine	Low Density Pole	5.2	50	1-50		
62	4110 - Sugar Maple Association	High Density Log	158.3	85	81-110		
63	4112 - Maple, Beech, Cherry Association	High Density Log	24.1	70	51-80	clearcut to regen and expand aspen. mark to leave better quality sugar maple.	

S t	Traverse City Mgt. Unit			Report 10	 Forested Stands 	Compartment: 024 Year of Entry: 2015	
a n d	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:	P. MICHIGAN .
64	42110 - Planted Red Pine	High Density Pole	10.5	50	141-170		
66	4130 - Aspen	High Density Pole	22.0	48			
67	4139 - Aspen, Mixed Deciduous	High Density Sapling	22.3	7			
68	6112 - Lowland Aspen	High Density Pole	7.3	47		drainagewet most of year	
69	4139 - Aspen, Mixed Deciduous	High Density Pole	7.6	47			
70	42110 - Planted Red Pine	High Density Pole	8.8	50	111-140		

Traverse City Mgt. Unit

Compartment: 024

Year of Entry: 2015

NATURA

Stand	Cover Type	Acres	Managed Site	Management Priority (Objective)	General Comments:
2	330 - Low-Density Trees	10.5	N\A	Unspecified	
4	330 - Low-Density Trees	38.6	N\A	Unspecified	
11	330 - Low-Density Trees	18.6	N\A	Unspecified	
13	330 - Low-Density Trees	8.0	N\A	Unspecified	
18	310 - Herbaceous Openland	1.2	N\A	Unspecified	
39	310 - Herbaceous Openland	3.4	N\A	Unspecified	
40	330 - Low-Density Trees	1.5	N\A	Unspecified	
44	310 - Herbaceous Openland	1.0	N\A	Unspecified	
53	310 - Herbaceous Openland	1.1	N\A	Unspecified	
56	310 - Herbaceous Openland	1.6	N\A	Unspecified	
65	623 - Emergent Wetland	1.0	N\A	Unspecified	