



Compartment Review Presentation

Traverse City Forest Management Unit

Compartment 61148

Entry Year 2028

Acreage: 1,831

County: Kalkaska

Management Area: High Sand Plains

Stand Examiner: Thomas Peterson III

Legal Description:

T25N-R05W- Sections 25, 26 & 27

Identified Planning Goals:

Compartment 61148 is part of the High Sand Plains Management area. Within this management area the majority of the compartment is managed for Kirtland Warbler. The Kirtland's Warbler management area (MA) consists of fifteen units of land that are managed for the federally endangered Kirtland's warbler. Kirtland's warbler management is guided by two documents: Kirtland's Warbler Breeding Range Conservation Plan and Operational Plan for Kirtland's Warbler Habitat Management on Michigan State Forests. Of the 148,017 acres of state forest land that make up the Kirtland's Warbler management area, approximately 90,000 acres, most of the jack pine in the management area, have been identified as essential habitat where management is done in accordance with the Kirtland's Warbler Conservation Plan and Operational Plan. Management on the portion that is not classified as essential habitat will emphasize balancing the age classes of aspen and red pine and regenerating the aging oak resource. Management activities may be constrained or modified based on management recommendations described in the Conservation Strategy Expected trends within this 10-year planning period are introduced pests and diseases and assuring jack pine regeneration on Kirtland's warbler sites.

Soil and topography:

Grayling Sand, Rubicon and Saugatuck Sand

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

Almost complete and solid state ownership within and around the Compartment. Small 78 ac. private ownership in the Southwest corner of Section 26, multiple parcels. Land uses consist of forestry, oil and gas and recreation.

Unique Natural Features:

There is Hills Thistle in the compartment.

Archeological, Historical, and Cultural Features:

There is an old foundation found in section 27.

Special Management Designations or Considerations:

Kirtland Warbler Habitat

Watershed and Fisheries Considerations:

There is no water in this compartment

Wildlife Habitat Considerations:

Compartment 148 is part of a broad, flat outwash plain, comprised mainly of excessively drained soils. Grayling sand predominates, creating a flat, drought-prone landscape adapted to frequent wildfires. The Fletcher Road Area Kirtland's Warbler (KW) Management Unit includes nearly all of Compartment 148, making habitat management for KW's a priority in this compartment. Management is guided by the Kirtland's Warbler Recovery Plan.

Jack pine stands are regenerated naturally by wildfires which were common on the sandy outwash plains. However modern fire prevention and suppression techniques, inhibit natural regeneration of jack pine after a wildfire. Breeding habitat for the KW is provided by logging and replanting in a distinctive converging wave pattern on a rotational basis to provide approximately 38,000 acres of productive nesting habitat at all times. Carrying these stands to a 50 year rotational age permits nesting habitat to be maintained for the warblers with little loss of jack pine from the commercial harvest. These jack pine stands also provide habitat for the upland sandpiper, Eastern bluebird, white tailed deer, black bear snowshoe hare, and for several protected prairie plants, including the Allegheny plum, Hill's thistle, and rough fescue.

The west ½ of section 27 of this compartment (W½ Sec. 27 T25N R05W) was purchased with Game Funds in 1938. Future management of these 320 acres should incorporate adjacent management plans in compartment 150 to the west as well as

KW habitat considerations. Compartment 150 management goals are to maintain a nearly contiguous large grassland and savanna community. The west half of section 27 is currently dominated by a stand of moderately stocked jack pine and a mature red pine stand that is nursing a healthy understory of oak-cherry with plentiful shrubs. Deer are using this area for bedding and turkeys are finding ample roosting habitat here year round.

The south 1/3 of section 25 has several moderately sized upland brush stands that are actively used by wildlife. These upland brush/grass communities should be maintained by burning, selective felling of woody encroachment and possibly the addition of native grasses, forbs, shrubs for biological diversity. This pattern of scattered brushy openings is appropriate and was commonly found on this fire driven outwash plain.

Mineral Resource and Development Concerns and/or Restrictions

There is no known potential for the occurrence of economic deposits of metallic minerals in this part of the state. No active sand/gravel operations are known to occur in the area. Potential for the aggregate resource development within the compartment appears limited. The Beaver Creek oil & gas field occurs approximately one mile east of the compartment. The Beaver Creek is a mature field that has been undergoing secondary recovery operations. Expansion into the compartment is unlikely, and potential for discovery of hydrocarbons from other known producing formations is considered low at this time. State-owned mineral rights within the compartment were leased earlier this year by Lambda Energy. Lambda's potential interest in the area is not known at this time. There has been no recent well permit activity in the area. Much of the compartment is designated as an area managed for Kirtland's warbler habitat, which may restrict some mineral development activity.

Vehicle Access:

Road system is made up of mostly seasonal county roads and poor dirt state forest roads. Roads are narrow and sandy.

Survey Needs:

Survey is needed in S1/2SW in section 26 to establish private property lines.

Recreational Facilities and Opportunities:

The Kalkaska ORV Route, and Snowmobile Trail #76 are located on Four Point Rd in the Southwest corner of this compartment--then both head N/S along Maple Rd on the western edge of the compartment. While these recreational amenities are located on county roads, trail protection specifications should be considered if there are potential impacts to the trail systems. (T.N. 1/26/16)

Fire Protection:

Michigan DNR and Garfield Township fire Department have fire protection responsibilities in this area. Area is mostly Kirtland Warbler Habitat consisting mostly of Jack Pine. Area has high potential for larger wildfire.

Additional Compartment Information:

The following reports from the Inventory are attached:

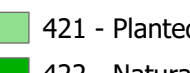
- Total Acres by Cover Type and Age Class**
- Cover Type by Harvest Method**
- Proposed Treatments – No Limiting Factors**
- Proposed Treatments – With Limiting Factors**
- Stand Details (Forested and Nonforested)**
- Dedicated and Proposed Special Conservation Areas**
- Site Condition Details**

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

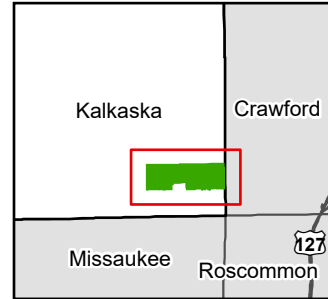
- Base feature information, stand boundaries, cover types, and numbers**
- Proposed treatments**
- Site condition boundaries**
- Details on the road access system**



0 0.5 1

- 
- 419 - Mixed Upland Deciduous
 - 421 - Planted Pines
 - 422 - Natural Pines
 - 122 - Road/Parking Lot
 - 310 - Herbaceous Openland
 - 330 - Low Density Trees
 - 623 - Emergent Wetland
 - 629 - Mixed non-forested Wetland

Stand Boundary Map

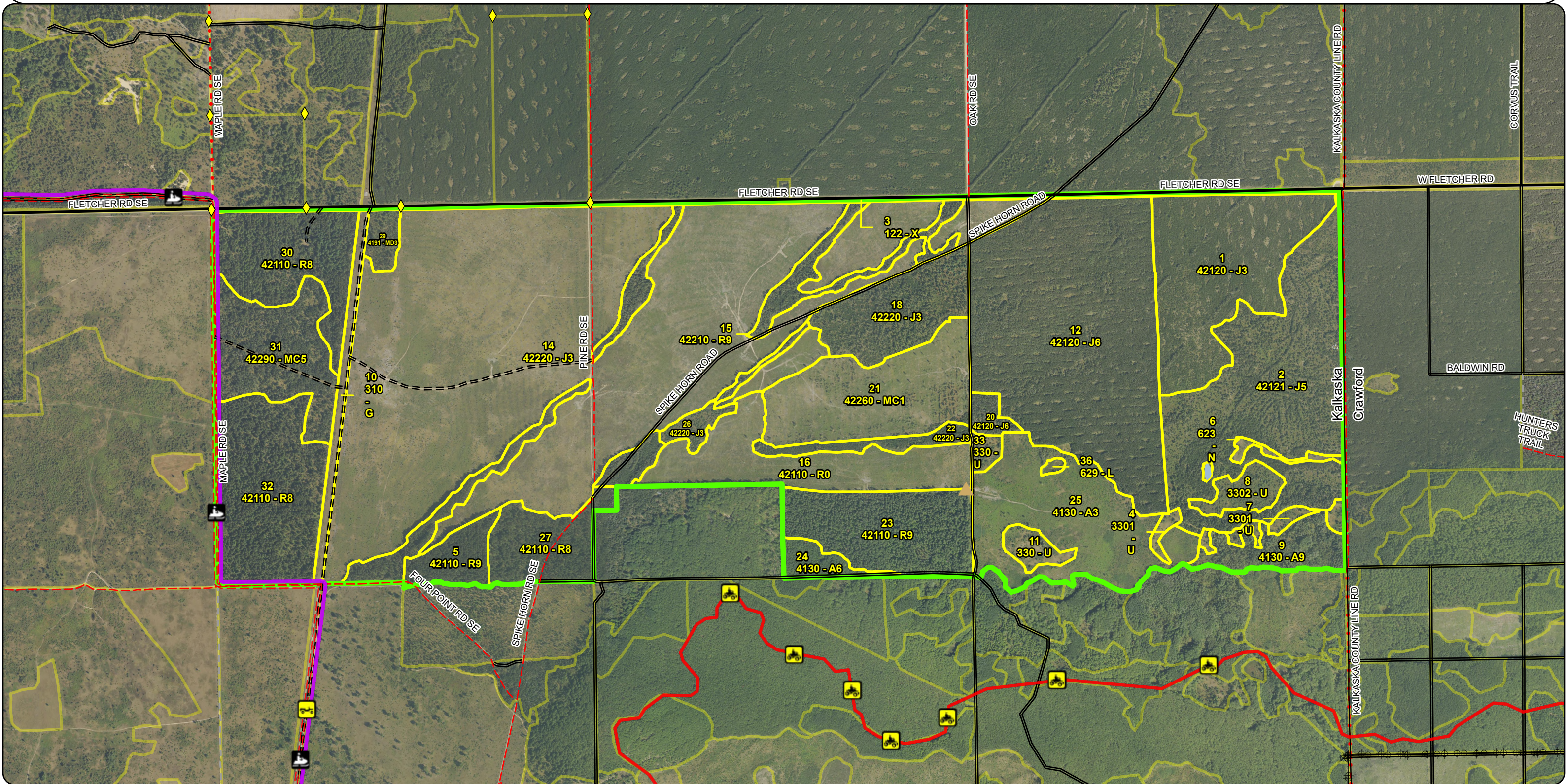


Compartment: 61148
T25N R05W Sec. 25-27
County: Kalkaska
Unit: Traverse City
Mgmt. Area: High Sand Plains
YOE: 2028
Acres: 1,831 GIS Calculated
Examiner: Thomas Peterson III
Date Exported: 06/29/2026
Map Phase: Web Post

- Survey Grade Corners
- Berm
- Designated ORV Routes
- Designated ATV Trails
- Designated Snowmobile
- DNR - Secondary Forest Road
- DNR - Forest Access Route
- Federal / State / County - Paved Road

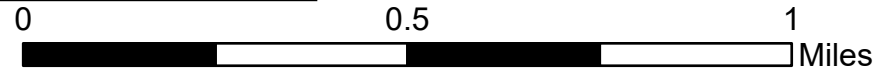
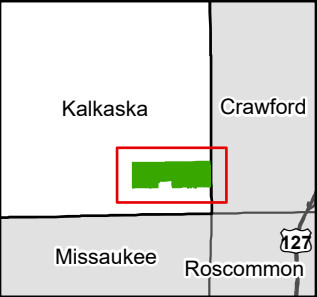
- County - Gravel Road
- County - Dirt Road (Seasonal)
- Private - Dirt / Gravel Road
- Lakes and Rivers
- Electric
- Compartment Boundary
- Compartment Stand Yellow Outline (PD)
- 413 - Aspen

- 419 - Mixed Upland Deciduous
- 421 - Planted Pines
- 422 - Natural Pines
- 122 - Road/Parking Lot
- 310 - Herbaceous Openland
- 330 - Low Density Trees
- 623 - Emergent Wetland
- 629 - Mixed non-forested Wetland



**Special Conservation Areas
& Site Conditions Map**

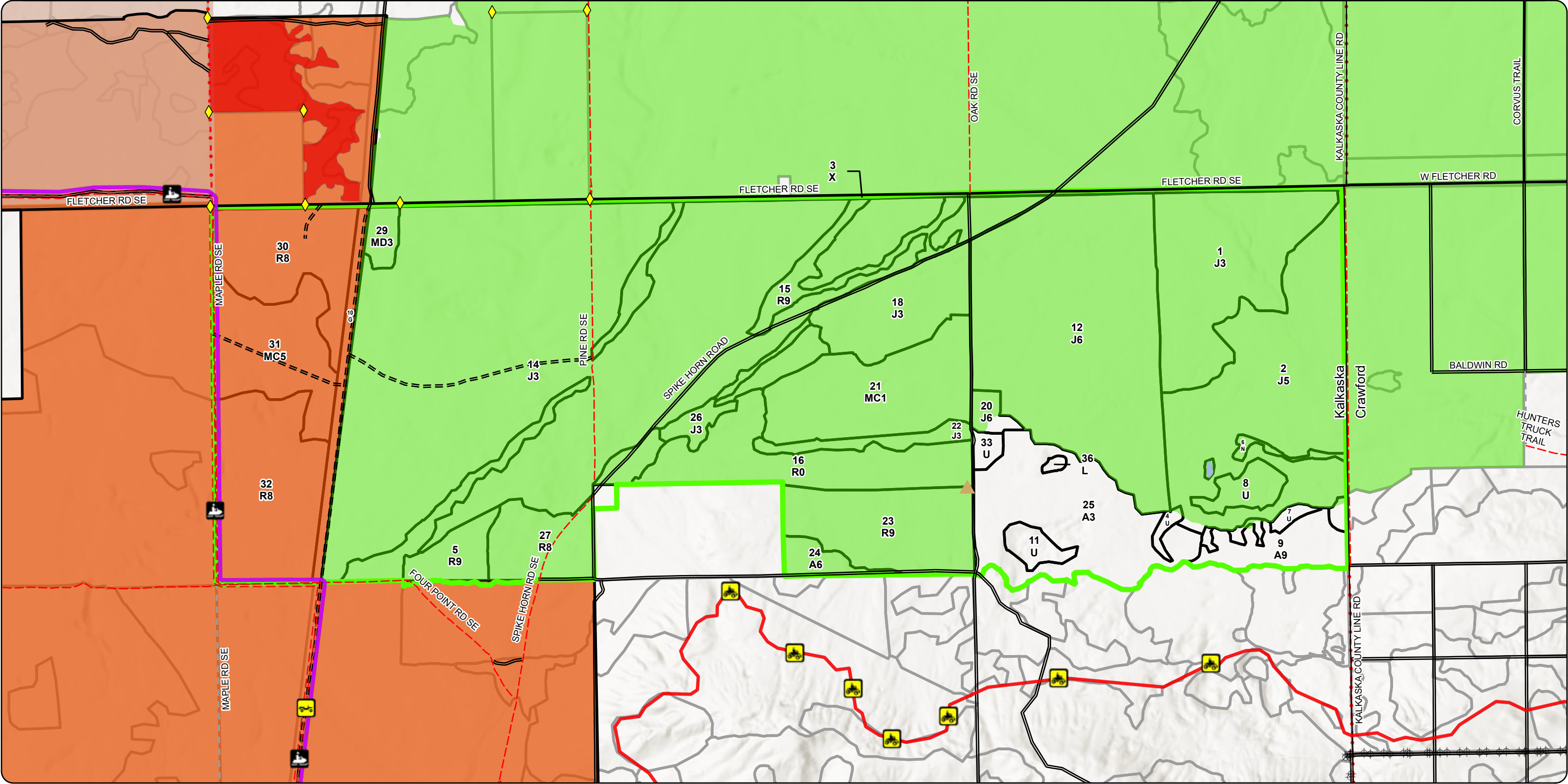
Compartment: 61148
T25N R05W Sec. 25-27
County: Kalkaska
Unit: Traverse City
Mgmt. Area: High Sand Plains
YOE: 2028
Acres: 1,831 GIS Calculated
Examiner: Thomas Peterson III
Date Exported: 06/29/2026
Map Phase: Web Post



- Survey Grade Corners
- Berm
- Designated ORV Routes
- Designated ATV Trails
- Designated Snowmobile
- DNR - Secondary Forest Road
- DNR - Forest Access Route

- Federal / State / County - Paved Road
- County - Gravel Road
- County - Dirt Road (Seasonal)
- Private - Dirt / Gravel Road
- Lakes and Rivers
- Electric
- Compartment Boundary

- High Conservation Value Areas
- Ecological Reference Areas
- Dedicated Habitat Areas
- Kirtland's Warbler Habitat
 - SCA
 - Research, Development, and Military Lands
 - Other Habitat Area



Report 1 – Total Acres by Cover Type and Age Class

Traverse City Mgt. Unit

Compartment 148 Year of Entry 2028

Thomas Peterson III: Examiner



Age Class

	Non-Forest	0-9	10-19	20-29	30-39	40-49	50-59	60-69	70-79	80-89	90-99	100-109	110-119	120-129	130-139	140-149	150+	Uneven-Aged	Total
Aspen	0	90	0	0	0	11	26	0	0	0	0	0	0	0	0	0	0	0	127
Herbaceous Openland	16	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	16
Jack Pine	0	569	48	119	358	0	0	0	0	7	0	0	0	0	0	0	0	0	1100
Low-Density Trees	36	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	36
Lowland Shrub	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
Marsh	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4
Mixed Upland Deciduous	0	0	8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	8
Natural Mixed Pines	0	76	0	0	0	59	0	0	0	0	0	0	0	0	0	0	0	0	135
Red Pine	67	0	0	0	0	0	0	0	0	322	0	0	0	0	0	0	0	0	389
Urban	15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	14
Total	139	735	56	119	358	70	26	0	0	329	0	0	0	0	0	0	0	0	1830



Report 2 – Treatment Summary

Traverse City Mgt. Unit
Year of Entry: 2028

Acres of Harvest

Compartment 148
Total Compartment Acres: 1,831

Commercial Harvest - 397
Harvests with Site Condition - 718
Next Step Harvest - 0
Habitat Cut - 0

Cover Type by Harvest Method

	Clearcut	Selection	Patch Clearcut	Seed Tree	Shelterwood	Thinning	Overshoot Removal	Salvage	Other	Total Acres
Aspen	26	0	0	0	0	0	0	0	0	26
Red Pine	62	18	0	45	58	0	36	0	0	219
Total	88	18	0	45	58	0	36	0	0	245

Proposed and Next Step Treatments by Method

	Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current	245	0	0	0	131	0	62	0	0	439
Next Step	0	124	186	32	202	124	271	0	0	1001
Total	245	124	186	32	334	124	333	0	0	1439



S t a n d	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
-----------------------	-------------------	-------	--------------------	-----------------	--------------	-------------	-------------------	---------------------	-------------------------	------------------	----------------

Proposed Treatments:

4	61148004-Burn	2.8	3301 - Low Density Deciduous Trees	99			Burn	Prescribed Burn	31022 - Warm Season Grass	Previous Inventory	No
<u>Prescription</u> Avoid plowing or discing firelines <u>Specs:</u> <u>Next Step</u> Seeding, Other - Specify <u>Treatments:</u> <u>Acceptable</u> <u>Regen:</u> <u>Other</u> This stand is within the Fletcher Road Area Kirtland Warbler Management Unit. Thick little bluestem, poverty grass, sedge, rice grass, sweetfern, scattered cherry saps and poles. Occasional jack pine, Juneberry, prairie willow, and blueberry spp. Ideal <u>Comment:</u> <u>Site Condition:</u> <u>Proposed Start Date:</u> 10/01/2027											
5	61148005-Cut	18.4	42110 - Planted Red Pine	9	86	141- 170	Harvest	Selection	42111 - Planted Red Pine, Mixed Deciduous	Cutting Record	No
<u>Prescription</u> Thin stand down to 80-100 removing approximately 1/3 of stand canopy. Thin stand harder were there are oak seedlings already established <u>Specs:</u> holding at least 60 Basal area in this areas. Use oak wilt spec no exemptions during harvest. Stand is within 1/4 mi <u>Next Step</u> Monitoring, Natural Regen (Re-Inventory) <u>Treatments:</u> <u>Acceptable</u> Any mixture of Oak, red pine, and or Jack Pine <u>Regen:</u> <u>Other</u> <u>Comment:</u> <u>Site Condition:</u> <u>Proposed Start Date:</u> 10/01/2027											
7	61148007-Burn	8.0	3301 - Low Density Deciduous Trees	99			Burn	Prescribed Burn	31022 - Warm Season Grass	Previous Inventory	No
<u>Prescription</u> Try to avoid disk or plow lines <u>Specs:</u> <u>Next Step</u> Seeding, Other - Specify <u>Treatments:</u> <u>Acceptable</u> <u>Regen:</u> <u>Other</u> This stand is within the Fletcher Road Area Kirtland Warbler Management Unit. Thick little bluestem, poverty grass, sedge, rice grass, sweetfern, scattered cherry saps and poles. Occasional jack pine, Juneberry, prairie willow, and blueberry spp. Ideal <u>Comment:</u> <u>Site Condition:</u> <u>Proposed Start Date:</u> 10/01/2027											

S
t
a
n
d

Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
8 61148008-Burn	12.4	3302 - Low Density Conifer Trees	99			Burn	Prescribed Burn	31022 - Warm Season Grass	Previous Inventory	No
<u>Prescription</u> Avoid disk or plow lines if possible. <u>Specs:</u> <u>Next Step</u> Seeding, Other - Specify <u>Treatments:</u> <u>Acceptable Regen:</u> <u>Other Comment:</u> This stand is within the Fletcher Road Area Kirtland Warbler Management Unit. Thick little bluestem, poverty grass, sedge, rice grass, sweetfern, scattered cherry saps and poles. Occasional jack pine, Juneberry, prairie willow, and blueberry spp. Ideal <u>Site Condition:</u> <u>Proposed Start Date:</u> 10/01/2027										
9 61148009-Cut	25.8	4130 - Aspen	9	59	51-80	Harvest	Clearcut	4139 - Aspen, Mixed Deciduous	Planting Record	No
<u>Prescription</u> Clear cut stand and leave standard area retention. Leave retention in Southwest part of stand to avoid any green up issues. Cut all trees down to 2 inches in DBH. Use grouse drumming log spec. <u>Specs:</u> <u>Next Step</u> Monitoring, Natural Regen (Re-Inventory) <u>Treatments:</u> <u>Acceptable Regen:</u> Fully Stocked aspen stand with any mixture of cherry, maple or pine. <u>Other Comment:</u> Where possible leave a half to one chain buffer around the openings comprising the Upland Shrub stand 7 to maintain an edge of trees for cover around these openings and to reduce aspen encroachment into the non-forested stands. <u>Site Condition:</u> <u>Proposed Start Date:</u> 10/01/2027										
11 61148011-Burn	8.4	330 - Low-Density Trees	99			Burn	Prescribed Burn	31022 - Warm Season Grass	Previous Inventory	No
<u>Prescription</u> Avoid soil disturbance for fire lines. <u>Specs:</u> <u>Next Step</u> Seeding, Other - Specify <u>Treatments:</u> <u>Acceptable Regen:</u> <u>Other Comment:</u> This stand is within the Fletcher Road Area Kirtland Warbler Management Unit. Thick little bluestem, poverty grass, sedge, rice grass, sweetfern, scattered cherry saps and poles. Occasional jack pine, Juneberry, prairie willow, and blueberry spp. Ideal <u>Site Condition:</u> <u>Proposed Start Date:</u> 10/01/2027										
23 61148023-Cut	62.0	42110 - Planted Red Pine	9	86	81-110	Harvest	Clearcut	4211 - Planted Red Pine	Planting Record	No
<u>Prescription</u> Clearcut Stand down to 1 inch at DBH. Leave standard Area Retention on North Side of Stand. Chipping spec should be used. <u>Specs:</u> <u>Next Step</u> SitePrep, Roller Chopping; SitePrep, Trenching; Pesticide, Aerial - Site Prep; Planting, Trenched Plant; Monitoring, Artificial Regen; <u>Treatments:</u> Monitoring, Artificial Regen; Planting, Unfurrowed; NonCommCut, Brush Saw Release; Planting, Interplant; <u>Acceptable Regen:</u> Fully Stocked Stand of Planted Red Pine that is free to grow. <u>Other Comment:</u> <u>Site Condition:</u> Survey Needed <u>Proposed Start Date:</u> 10/01/2027										



S t a n d	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
-----------------------	-------------------	-------	--------------------	-----------------	--------------	-------------	-------------------	---------------------	-------------------------	------------------	----------------

27	61148027-Cut	36.1	42110 - Planted Red Pine	8	86	81-110	Harvest	Overstory Removal	4122 - Oak, Pine	Planting Record	No
----	--------------	------	-----------------------------	---	----	--------	---------	----------------------	------------------	--------------------	----

Prescription Overstory removal with standard area retention. Cut all trees greater than 6 inches at DBH. All advance regeneration should be protected.
Specs: Oak wilt no exemption should be used to protect oak during harvest. Green tree less than 2 trees per acre to leave

Next Step
Treatments:

Acceptable Advance Regeneration is present in Stand and should be protected during harvest. Stand should be oak stand with a any component of
Regen: pine.

Other
Comment:

Site Condition: Survey Needed

Proposed Start Date: 10/01/2027

30	61148030-Cut	57.6	42110 - Planted Red Pine	8	86	81-110	Harvest	Shelterwood	42111 - Planted Red Pine, Mixed Deciduous	Cutting Record	No
----	--------------	------	-----------------------------	---	----	--------	---------	-------------	---	-------------------	----

Prescription Mark red pine down to basal area of 40-60. Were heavy oak understory present cutting all pine is acceptable. Protect all oak regardless of
Specs: size in stand. Use oak wilt spec no exemption. Snowmobile trail runs on west side of stand use snowmobile protecti

Next Step Burn, Prescribed Fire; Monitoring, Natural Regen (Re-Inventory)
Treatments:

Acceptable Moderate to low stocked stand of oak, aspen, cherry or pine. Areas throughout stand will have lower initial stocking right after harvest. Follow
Regen: up burn will help keep regeneration in check.

Other Wildlife Division is working on updating management plans Barrens and grasslands management and associated rare species. The Division
Comment: is currently reviewing the potential for managing rare invertebrate habitats outside of its current range to improve pop

Site Condition:

Proposed Start Date: 10/01/2027

31	61148031- Burn	59.4	42290 - Natural Mixed Pine	5	42	51-80	Burn	Prescribed Burn	42290 - Natural Mixed Pine	Current	No
----	-------------------	------	-------------------------------	---	----	-------	------	-----------------	-------------------------------	---------	----

Prescription The goals of this burn is to maintain the scattered openings in stand 31, open up the understory the entire stand both forested and non-
Specs: forested parts in order to promote native ground flora, grasses, forbs, and mast producing shrubs. The burn should be

Next Step Burn, Understory
Treatments:

Acceptable
Regen:

Other Burn along with stands 30 (north) and 32 (south) post timber sales in stand 30 and the south half of stand 32. Minimize timber mortality in
Comment: order to preserve opportunity for future timber harvests that should be designed to promote a heterogenous mix of

Site Condition:

Proposed Start Date: 10/01/2027



Stand

Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
----------------	-------	-----------------	--------------	-----------	----------	----------------	------------------	----------------------	---------------	-------------

32 61148032-Burn	40.3	42110 - Planted Red Pine	8	86	81-110	Burn	Prescribed Burn	42111 - Planted Red Pine, Mixed Deciduous	Current	No
------------------	------	--------------------------	---	----	--------	------	-----------------	---	---------	----

Prescription The goals of this burn is to maintain the scattered openings in stand 32, open up the understory the entire stand in order to promote pak spp.
Specs: native ground flora, grasses, forbs, and mast producing shrubs. The burn should be designed to minimize mortal

Next Step Burn, Prescribed Fire

Treatments:

Acceptable

Regen:

Other

Comment:

Site Condition:

Proposed Start Date: 10/01/2027

32 61148032-Cut	45.0	42110 - Planted Red Pine	8	86	81-110	Harvest	Seed Tree	42111 - Planted Red Pine, Mixed Deciduous	Cutting Record	No
-----------------	------	--------------------------	---	----	--------	---------	-----------	---	----------------	----

Prescription Seed tree harvest around half of stand 32. Mark red pine down to basal area of 10-20. Were heavy oak understory present cutting all pine is acceptable. Protect all oak regardless of size in stand. Use oak wilt spec no exemption. Snowmobile trail runs on

Next Step Burn, Prescribed Fire; Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Moderate to low stocked stand of oak, aspen, cherry or pine. Areas throughout stand will have lower initial stocking right after harvest. Follow up burn will help keep regeneration in check.

Other Wildlife Division is working on updating management plans Barrens and grasslands management and associated rare species. The Division
Comment: is currently reviewing the potential for managing rare invertebrate habitats outside of its current range to improve pop

Site Condition:

Proposed Start Date: 10/01/2027

Approved Treatments:

16 61148016-Monitor	62.3	42110 - Planted Red Pine	0	3	Immature	Monitoring	Monitoring - Regeneration	4211 - Planted Red Pine		No
---------------------	------	--------------------------	---	---	----------	------------	---------------------------	-------------------------	--	----

Prescription

Specs:

Next Step

Treatments:

Acceptable red pine

Regen:

Other Percent to Treat = 100%

Comment:

Site Condition:

Proposed Start Date: 01/01/2027

Total Treatment 438.5
Acreage Proposed:

Report 4 – Site Conditions

Compartment: 148
Year of Entry: 2028



Traverse City Mgt. Unit

Thomas Peterson III: Examiner

Availability for Management

Total Acres	Acres Available	Acres With Condition	Acres Not Available
-------------	-----------------	----------------------	---------------------

Dominant Site Conditions

2I 5E

127	127	0	0	Aspen		
16	16	0	0	Herbaceous Openland		
1101	1094	0	7	Jack Pine		7
36	36	0	0	Low-Density Trees		
1	1	0	0	Lowland Shrub		
4	4	0	0	Marsh		
8	8	0	0	Mixed Upland Deciduous		
135	135	0	0	Natural Mixed Pines		
388	228	99	62	Red Pine	99	62
14	15	0	0	Urban		
1,832	1,665	99	68	Total Forested Acres	99	68
	91%	5%	4%	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	Dominant Site Availability	Dominant Site Condition	Acres	Other Site Condition	Other Site Condition	Other Site Condition	Other Site Condition
1	Unavailable	5E: Long-Term Retention	7	Unspecified	Unspecified	Unspecified	Unspecified	Unspecified
Comments:								
2	Unavailable	5E: Long-Term Retention	62	Unspecified	Unspecified	Unspecified	Unspecified	Unspecified
Comments: 2025 - Retention left for stand 14. Fletcher KW Timber Sale.								
3	Available	2I: Survey needed	63	Unspecified	Unspecified	Unspecified	Unspecified	Unspecified
Comments:								

Report 4 – Site Conditions

Traverse City Mgt. Unit
Thomas Peterson III: Examiner

Compartment: 148
Year of Entry: 2028



4	Available	2I: Survey needed	36	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
6	Unavailable	5E: Long-Term Retention	3	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Mgt. Unit

Compartment: #Type!

Year of Entry:



Report 5 – 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



MICHIGAN

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments			
1	42120 - Planted Jack Pine	Sapling Well	99.0	21	Immature	N/A	2026 - Stand is KW planted jack pine stand. Trees are 10-15 foot tall at this time.2006 - Stand was planted under FTP - W-62-692. Started Planting in in 2005 and finished up 2006.			
Canopy Species		% Cover	Size Class	DBH	Age					
Jack Pine		100	Sapling	2	21					
2	42121 - Planted Jack Pine, Mixed Deciduous	Poletimber Medium	149.9	31	1-50	N/A	2026 - Stand is multi age Jack Pine Stand. Stands DBH range from 10 inches at DBH to 1 inch at DBH. Basal Areas range from 70 to 0. There are some open pockets that have some scattered cherry and aspen within them. Some portions of stand appear to be planted were other portion of stand seems to be natural.2015 - Pockets of pole sized timber but a good amount of saplings. Stand is in the process of converting to a pole sized stand. Variable tree sizes, stocking is highly variable. Dense J3 pockets around the vernal ponds in the south part of the stand. 1996 - 1/23/1996 shows FTP to plant Jack Pine has been completed. 1989 - Stand was final harvested under Sale Section 25 Sale (046-087-01).			
Canopy Species		% Cover	Size Class	DBH	Age					
Jack Pine		80	Pole/Sapling	5	31					
Black Cherry		15	Sapling	2						
Bigtooth Aspen		5	Pole/Log/Sap	9						
3	122 - Road/Parking Lot	None	14.5			No	2025 - Fletcher Road			
4	3301 - Low Density Deciduous Trees	None	2.8			No	2026 - Scattered cherry and aspen filling into stand. Should slowly fill in over time if left alone.			
5	42110 - Planted Red Pine	Sawtimber Well	18.4	86	141-170	N/A	2026 - Stand has an average basal area of 143 at this time. Stand has some oak in understory, it increases as you go south in stand. . Where there is no understory canopy is tight and can use a thinning. 2009 - Stand was thinned under timber sale Worn-Out Red (61-041-08).2001 - Stand was thinned under timber Sale Maple Jack (154-98-01).			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size
Red Pine		100	Log/Pole/XLog	16	86	White Oak		Medium	>20 feet	>20 feet
						Red Oak		Medium	10 - 20 feet	10 - 20 feet
						Red Maple		Trace	5 - 10 feet	5 - 10 feet
6	623 - Emergent Wetland	None	4.2			No	2025 - Areas looks likr it holds seasonl water. No trees going in it. A slightly lower dip compared to the topagrapjh around jt			
7	3301 - Low Density Deciduous Trees	None	8.0			No	2025 - Scattered cherry and aspen filling into stand. Should slowly fill in over time if left alone.			
8	3302 - Low Density Conifer Trees	None	12.4			No	2025 - Scattered Jack Pine and Cherry filling into stand. Should slowly fill in over time if left alone.			
9	4130 - Aspen	Sawtimber Well	25.8	59	51-80	N/A	2026 - A few open pockets dominated by Black cherry are scattered throughout stand. Were aspen in present stand if fully stocked.			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size
Quaking Aspen		70	Log/Pole	10	59	Black Cherry		Low	Variable	Variable
Black Cherry		25	Pole	8						
Jack Pine		5	Pole	8						
10	310 - Herbaceous Openland	None	15.9				2025 - Gas Pipeline runs through stand. Pipeline ROW.			



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																														
11	330 - Low-Density Trees	None	8.4			Yes	2025 - Scattered cherry and aspen filling into stand. Should slowly fill in over time if left alone.																														
12	42120 - Planted Jack Pine	Poletimber Well	207.9	38	51-80	N/A	2025 - Stand transitioned to pole size stand this YOE. Stand is planted in KW Weave Pattern. 1988 - Stand has planting under FTP 7-75-3. 1979 - Stand was final harvested under sale name Warbler Block (11-78A).																														
<table><tr><th>Canopy Species</th><th>% Cover</th><th>Size Class</th><th>DBH</th><th>Age</th></tr><tr><td>Jack Pine</td><td>100</td><td>Pole</td><td>6</td><td>38</td></tr></table>						Canopy Species		% Cover	Size Class	DBH	Age	Jack Pine	100	Pole	6	38																					
Canopy Species	% Cover	Size Class	DBH	Age																																	
Jack Pine	100	Pole	6	38																																	
14	42220 - Natural Jack Pine	Sapling Well	569.2	6	Immature	N/A	2024 - Natural Regeneration survey was completed 10/21/2024 and 10/22/2024. Portions of stand were broken up with several different follow up treatments. All treatments have passed there natural regeneration checks with variable Jack Pine Trees per acre from 1208 to over 2000 TPA. Stand did have some minor competition. 10/1/2021 - Stand Scarification completed to promote Natural Jack Pine Regeneration for KW habitat. 10/1/2021 - Stand Cut Fletcher KW Block 61-143-182016 - FMD: Part of old Fletcher burnDense stocking but very small diameters for the age. Mostly 1-3 stick trees. There are some veins of red pine that survived the fire. Some portions of this stand are still in the sapling size class.																														
<table><tr><th>Canopy Species</th><th>% Cover</th><th>Size Class</th><th>DBH</th><th>Age</th></tr><tr><td>Jack Pine</td><td>80</td><td>Sapling</td><td>1</td><td>6</td></tr><tr><td>Black Cherry</td><td>12</td><td>Sapling</td><td>1</td><td>6</td></tr><tr><td>Red Pine</td><td>4</td><td>Sapling</td><td>1</td><td>6</td></tr><tr><td>Black/Red (Hybrid) Oak</td><td>2</td><td>Sapling</td><td>1</td><td>6</td></tr><tr><td>Quaking Aspen</td><td>2</td><td>Sapling</td><td>1</td><td>6</td></tr></table>						Canopy Species		% Cover	Size Class	DBH	Age	Jack Pine	80	Sapling	1	6	Black Cherry	12	Sapling	1	6	Red Pine	4	Sapling	1	6	Black/Red (Hybrid) Oak	2	Sapling	1	6	Quaking Aspen	2	Sapling	1	6	
Canopy Species	% Cover	Size Class	DBH	Age																																	
Jack Pine	80	Sapling	1	6																																	
Black Cherry	12	Sapling	1	6																																	
Red Pine	4	Sapling	1	6																																	
Black/Red (Hybrid) Oak	2	Sapling	1	6																																	
Quaking Aspen	2	Sapling	1	6																																	
15	42210 - Natural Red Pine	Sawtimber Well	61.8	86	81-110	N/A	2025 - Retention Left from Fletcher KW Cut for Stand 14.																														
<table><tr><th>Canopy Species</th><th>% Cover</th><th>Size Class</th><th>DBH</th><th>Age</th></tr><tr><td>Red Pine</td><td>80</td><td>Log/Pole</td><td>12</td><td>86</td></tr><tr><td>Jack Pine</td><td>20</td><td>Pole/Log</td><td>9</td><td></td></tr></table>								Canopy Species	% Cover	Size Class	DBH	Age	Red Pine	80	Log/Pole	12	86	Jack Pine	20	Pole/Log	9																
Canopy Species	% Cover	Size Class	DBH	Age																																	
Red Pine	80	Log/Pole	12	86																																	
Jack Pine	20	Pole/Log	9																																		
16	42110 - Planted Red Pine	Unspecifed	66.6	3	Immature		2024 - Stand has passed Year 1 Regeneration Check on 10/16/2024. Stand has an estimated 751 TPA and is currently 100% Free to grow at this time. 2024 - Stand was Planted to 807 Trees per Acre of Red Pine on 4/29/20242023 - Stand was Helicopter Site Prep Sprayed 8/16/2023 by Hamilton Helicopters Inc. 10/13/2022 - Stand was Trenched in 2022.Stand was cut Fletcher KW Block 61-143-18 - 10/12/2021																														
18	42220 - Natural Jack Pine	Sapling Well	48.4	15	1-50	N/A	2026 - Stand has a fully stocked stand of jack pine in it at this time. Stand has an average basal are of 36. Red pine basal area from shelterwood harvest ranges from 110-0. Jack pine is about 15 tall. Suggest walking away from this stand till the jack pine is merchantable2009 - Sale was shelterwood harvested under Sale Vortex Pine (61-008-08).																														
<table><tr><th>Canopy Species</th><th>% Cover</th><th>Size Class</th><th>DBH</th><th>Age</th></tr><tr><td>Red Pine</td><td>28</td><td>Log/Pole</td><td>12</td><td>86</td></tr><tr><td>Jack Pine</td><td>70</td><td>Sapling</td><td>1</td><td>15</td></tr><tr><td>White Oak</td><td>2</td><td>Pole/Sapling</td><td>5</td><td></td></tr></table>						Canopy Species		% Cover	Size Class	DBH	Age	Red Pine	28	Log/Pole	12	86	Jack Pine	70	Sapling	1	15	White Oak	2	Pole/Sapling	5		<table><tr><th>Sub-Canopy Species</th><th>Density</th><th>Avg. Height</th><th>Size</th></tr><tr><td>Jack Pine</td><td>High</td><td>< 5 feet</td><td>< 5 feet</td></tr></table>	Sub-Canopy Species	Density	Avg. Height	Size	Jack Pine	High	< 5 feet	< 5 feet		
Canopy Species	% Cover	Size Class	DBH	Age																																	
Red Pine	28	Log/Pole	12	86																																	
Jack Pine	70	Sapling	1	15																																	
White Oak	2	Pole/Sapling	5																																		
Sub-Canopy Species	Density	Avg. Height	Size																																		
Jack Pine	High	< 5 feet	< 5 feet																																		
20	42120 - Planted Jack Pine	Poletimber Well	6.5	86	51-80	N/A	2026 - Retention for stand 12. Can cut with stand 12 in when it is ready to be final harvested.																														
<table><tr><th>Canopy Species</th><th>% Cover</th><th>Size Class</th><th>DBH</th><th>Age</th></tr><tr><td>Jack Pine</td><td>100</td><td>Pole</td><td>8</td><td>86</td></tr></table>								Canopy Species	% Cover	Size Class	DBH	Age	Jack Pine	100	Pole	8	86	<table><tr><th>Sub-Canopy Species</th><th>Density</th><th>Avg. Height</th><th>Size</th></tr><tr><td>Black Cherry</td><td>Low</td><td>5 - 10 feet</td><td>5 - 10 feet</td></tr></table>	Sub-Canopy Species	Density	Avg. Height	Size	Black Cherry	Low	5 - 10 feet	5 - 10 feet											
Canopy Species	% Cover	Size Class	DBH	Age																																	
Jack Pine	100	Pole	8	86																																	
Sub-Canopy Species	Density	Avg. Height	Size																																		
Black Cherry	Low	5 - 10 feet	5 - 10 feet																																		



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																			
21	42260 - Natural Pine, Mixed Deciduous	Sapling Poor	76.0	5	Immature	N/A	2026 - Lots of small Jack pine and red pine starting to stick out in snow. Stand should continue to fill in over time. Poorly Stocked at this time.2021 - Stand Cut Fletcher KW Block 61-143-18 - 10/12/2021 TP																																																			
<table><tr><th>Canopy Species</th><th>% Cover</th><th>Size Class</th><th>DBH</th><th>Age</th></tr><tr><td>Red Pine</td><td>10</td><td>Log/XLog</td><td>16</td><td></td></tr><tr><td>Jack Pine</td><td>32</td><td>Sapling</td><td>1</td><td>5</td></tr><tr><td>Quaking Aspen</td><td>8</td><td>Sapling</td><td>1</td><td></td></tr><tr><td>Black Cherry</td><td>15</td><td>Sapling</td><td>1</td><td></td></tr><tr><td>Red Maple</td><td>5</td><td>Sapling</td><td>1</td><td></td></tr><tr><td>White Oak</td><td>5</td><td>Sapling</td><td>1</td><td></td></tr><tr><td>Red Pine</td><td>25</td><td>Sapling</td><td>1</td><td></td></tr></table>		Canopy Species	% Cover	Size Class	DBH	Age		Red Pine	10	Log/XLog	16		Jack Pine	32	Sapling	1	5	Quaking Aspen	8	Sapling	1		Black Cherry	15	Sapling	1		Red Maple	5	Sapling	1		White Oak	5	Sapling	1		Red Pine	25	Sapling	1		<table><tr><th>Sub-Canopy Species</th><th>Density</th><th>Avg. Height</th><th>Size</th></tr><tr><td>Jack Pine</td><td>Medium</td><td>< 5 feet</td><td>< 5 feet</td></tr><tr><td>Red Pine</td><td>Medium</td><td>< 5 feet</td><td>< 5 feet</td></tr></table>				Sub-Canopy Species	Density	Avg. Height	Size	Jack Pine	Medium	< 5 feet	< 5 feet	Red Pine	Medium	< 5 feet	< 5 feet
Canopy Species	% Cover	Size Class	DBH	Age																																																						
Red Pine	10	Log/XLog	16																																																							
Jack Pine	32	Sapling	1	5																																																						
Quaking Aspen	8	Sapling	1																																																							
Black Cherry	15	Sapling	1																																																							
Red Maple	5	Sapling	1																																																							
White Oak	5	Sapling	1																																																							
Red Pine	25	Sapling	1																																																							
Sub-Canopy Species	Density	Avg. Height	Size																																																							
Jack Pine	Medium	< 5 feet	< 5 feet																																																							
Red Pine	Medium	< 5 feet	< 5 feet																																																							
22	42220 - Natural Jack Pine	Sapling Well	12.4	26	Immature	N/A	2026 - Fully stocked of jack pine. Stand has a few red pine mixed in it along with a couple aspen clones.																																																			
<table><tr><th>Canopy Species</th><th>% Cover</th><th>Size Class</th><th>DBH</th><th>Age</th></tr><tr><td>Jack Pine</td><td>80</td><td>Sapling</td><td>3</td><td>26</td></tr><tr><td>Red Pine</td><td>15</td><td>Sapling</td><td>2</td><td></td></tr><tr><td>Black Cherry</td><td>2</td><td>Sapling</td><td>2</td><td></td></tr><tr><td>Quaking Aspen</td><td>3</td><td>Sapling</td><td>2</td><td></td></tr></table>		Canopy Species	% Cover	Size Class	DBH	Age		Jack Pine	80	Sapling	3	26	Red Pine	15	Sapling	2		Black Cherry	2	Sapling	2		Quaking Aspen	3	Sapling	2																																
Canopy Species	% Cover	Size Class	DBH	Age																																																						
Jack Pine	80	Sapling	3	26																																																						
Red Pine	15	Sapling	2																																																							
Black Cherry	2	Sapling	2																																																							
Quaking Aspen	3	Sapling	2																																																							
23	42110 - Planted Red Pine	Sawtimber Well	62.5	86	81-110	N/A	2025 - Stand average basal area is 95. BA ranged from 60 to 130. Stand has fully stocked stand of red maple in under story.2001 - Stand was thinned under timber Sale Maple Jack (154-98-01).																																																			
<table><tr><th>Canopy Species</th><th>% Cover</th><th>Size Class</th><th>DBH</th><th>Age</th></tr><tr><td>Red Pine</td><td>90</td><td>XLog/Log</td><td>18</td><td>86</td></tr><tr><td>Black Cherry</td><td>3</td><td>Pole</td><td>9</td><td></td></tr><tr><td>White Oak</td><td>3</td><td>Log/Pole/XLog</td><td>12</td><td></td></tr><tr><td>Red Oak</td><td>4</td><td>Log/Pole/XLog</td><td>12</td><td></td></tr></table>		Canopy Species	% Cover	Size Class	DBH	Age		Red Pine	90	XLog/Log	18	86	Black Cherry	3	Pole	9		White Oak	3	Log/Pole/XLog	12		Red Oak	4	Log/Pole/XLog	12		<table><tr><th>Sub-Canopy Species</th><th>Density</th><th>Avg. Height</th><th>Size</th></tr><tr><td>Red Maple</td><td>Full</td><td>10 - 20 feet</td><td>10 - 20 feet</td></tr><tr><td>Red Pine</td><td>Trace</td><td>< 5 feet</td><td>< 5 feet</td></tr><tr><td>Red Oak</td><td>Trace</td><td>>20 feet</td><td>>20 feet</td></tr><tr><td>White Oak</td><td>Trace</td><td>>20 feet</td><td>>20 feet</td></tr><tr><td>Black Cherry</td><td>Trace</td><td>5 - 10 feet</td><td>5 - 10 feet</td></tr></table>				Sub-Canopy Species	Density	Avg. Height	Size	Red Maple	Full	10 - 20 feet	10 - 20 feet	Red Pine	Trace	< 5 feet	< 5 feet	Red Oak	Trace	>20 feet	>20 feet	White Oak	Trace	>20 feet	>20 feet	Black Cherry	Trace	5 - 10 feet	5 - 10 feet			
Canopy Species	% Cover	Size Class	DBH	Age																																																						
Red Pine	90	XLog/Log	18	86																																																						
Black Cherry	3	Pole	9																																																							
White Oak	3	Log/Pole/XLog	12																																																							
Red Oak	4	Log/Pole/XLog	12																																																							
Sub-Canopy Species	Density	Avg. Height	Size																																																							
Red Maple	Full	10 - 20 feet	10 - 20 feet																																																							
Red Pine	Trace	< 5 feet	< 5 feet																																																							
Red Oak	Trace	>20 feet	>20 feet																																																							
White Oak	Trace	>20 feet	>20 feet																																																							
Black Cherry	Trace	5 - 10 feet	5 - 10 feet																																																							
24	4130 - Aspen	Poletimber Well	10.7	47	111-140	N/A	2026 - Big tooth aspen makes up most of stand. Pockets of Red oak and clumps of red maple make up the rest. Stand seems healthy could be harvested or held until next year of entry.																																																			
<table><tr><th>Canopy Species</th><th>% Cover</th><th>Size Class</th><th>DBH</th><th>Age</th></tr><tr><td>Bigtooth Aspen</td><td>65</td><td>Pole/Log</td><td>9</td><td>47</td></tr><tr><td>Red Oak</td><td>15</td><td>Pole/Log</td><td>9</td><td></td></tr><tr><td>Red Maple</td><td>20</td><td>Pole/Sapling</td><td>6</td><td></td></tr></table>		Canopy Species	% Cover	Size Class	DBH	Age		Bigtooth Aspen	65	Pole/Log	9	47	Red Oak	15	Pole/Log	9		Red Maple	20	Pole/Sapling	6																																					
Canopy Species	% Cover	Size Class	DBH	Age																																																						
Bigtooth Aspen	65	Pole/Log	9	47																																																						
Red Oak	15	Pole/Log	9																																																							
Red Maple	20	Pole/Sapling	6																																																							
25	4130 - Aspen	Sapling Well	90.2	5	Immature	N/A	2026 - Stand is fully stocked Aspen stand. Stand does have pockets of black cherry scattered throughout it. Stand has passed its regeneration monitoring treatment. 2021 - Stand clearcut Fletcher KW Block 61-143-18																																																			
<table><tr><th>Canopy Species</th><th>% Cover</th><th>Size Class</th><th>DBH</th><th>Age</th></tr><tr><td>Bigtooth Aspen</td><td>60</td><td>Sapling</td><td>1</td><td>5</td></tr><tr><td>Black Cherry</td><td>30</td><td>Sapling</td><td>1</td><td>5</td></tr><tr><td>Red Maple</td><td>10</td><td>Sapling</td><td>1</td><td>5</td></tr></table>		Canopy Species	% Cover	Size Class	DBH	Age		Bigtooth Aspen	60	Sapling	1	5	Black Cherry	30	Sapling	1	5	Red Maple	10	Sapling	1	5																																				
Canopy Species	% Cover	Size Class	DBH	Age																																																						
Bigtooth Aspen	60	Sapling	1	5																																																						
Black Cherry	30	Sapling	1	5																																																						
Red Maple	10	Sapling	1	5																																																						
26	42220 - Natural Jack Pine	Sapling Well	7.4	23	Immature	N/A	2025 - Fully stocked Jack Pine stand.																																																			
<table><tr><th>Canopy Species</th><th>% Cover</th><th>Size Class</th><th>DBH</th><th>Age</th></tr><tr><td>Jack Pine</td><td>80</td><td>Sapling</td><td>2</td><td>23</td></tr><tr><td>Black Cherry</td><td>20</td><td>Sapling</td><td>2</td><td></td></tr></table>		Canopy Species	% Cover	Size Class	DBH	Age		Jack Pine	80	Sapling	2	23	Black Cherry	20	Sapling	2																																										
Canopy Species	% Cover	Size Class	DBH	Age																																																						
Jack Pine	80	Sapling	2	23																																																						
Black Cherry	20	Sapling	2																																																							



<



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
33	330 - Low-Density Trees	None	4.6			Yes	2025 - Scattered Aspen, Black Cherry and Jack Pine. Stand was well used as hunting camp during deer season.
36	629 - Mixed non-forested Wetland	None	1.3			No	2025 - Vernal pond. Very unique for area.