



Compartment Review Presentation

Grayling Forest Management Unit

Compartment 72256

Entry Year 2020

Acreage: 1,888

County Crawford

Management Area: Camp Grayling

Revision Date: 2018-07-11

Stand Examiner: Thomas Barnes

Legal Description:

T27N R02W Section 28, 29 & 30.

Identified Planning Goals:

To provide an area that allows for National Guard training while maintaining forest health, productivity, sustainability, species diversification, and structural diversity within the compartment. A fenced military training area, Range 30 Complex, is located in the northwest part of the compartment and is inaccessible for general forest management purposes.

Soil and topography:

Generally flat terrain with some rolling hills in the N1/2 of section 30. Soil types consist primarily of Grayling sands.

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

State land leased by the National Guard with some Military Board Lands. Part of Sections 29 and 30 are fenced off by the National Guard for Range 30. The rest of the compartment is also used by the National Guard for training.

Unique Natural Features:

Compartment contains Alleghaney plum, a species of special concern.

Archeological, Historical, and Cultural Features:

There are a couple locations that have been identified throughout the compartment. Though these locations have not been deemed significant, precautions will need to be taken during timber sale preparation and administration as well as during other planned intrusive activities.

Special Management Designations or Considerations:

Michigan National Guard Range 30 Complex. Protect the Alleghaney plum, and work with the Military on summer training and Range 30 firing schedules.

Watershed and Fisheries Considerations:

None

Wildlife Habitat Considerations:

Maintain existing and preferred types for ruffed grouse, white-tailed deer, wild turkey, squirrel and non-game species.

Mineral Resource and Development Concerns and/or Restrictions

An active, state-owned sand/gravel pit is located in Section 30 (Camp Grayling MPRC Pit) and another adjacent to it in Section 25 (Redhead Lane). The pit in Section 30 is currently leased to the DMVA. There appears to be potential for additional sand & gravel within the compartment in Section 30. Currently, there are no oil and gas leases in the compartment, though there are active leases in the surrounding area. The parcels were leased in 2015 (by Marathon) and are due to expire in 2020. There has been no oil & gas production in this area to date. No known metallic mineral potential exists in this part of the state. The state does not own the mineral rights beneath some of the compartment. Private mineral rights owners must be allowed reasonable access to the surface should they choose to explore and/or develop the minerals.

Vehicle Access:

The trails are used periodically by the National Guard. The trails are primarily located in section 28 and along the range fence in sections 29 and 30. Stephan Bridge Road runs north and south through the compartment and is gated when military training is occurring. ORV's are prohibited on any forest roads in this compartment.

Survey Needs:

None

Recreational Facilities and Opportunities:

No designated recreational facilities or trails exist within the compartment, but there are recreational opportunities such as hunting, mushrooming and wildlife watching when military training is not occurring. ORV's are prohibited on all forest roads in this compartment.

Fire Protection:

Fire protection falls under the jurisdiction of the Grayling Volunteer Fire Department, Camp Grayling Fire Department and the Michigan Department of Natural Resources. Kyle Lake, inside the MPRC (Range 30) in section 19, is the closest water source. With permission of the military, this water source is accessible. Wildfires are likely to occur within this compartment due to the heavy military use in the spring and summer months. There is also a water source at the MPRC building.

Additional Compartment Information:

This compartment is inaccessible to the public during military training in the spring and summer months. Stephan Bridge Road and other two-track roads are gated during this time.

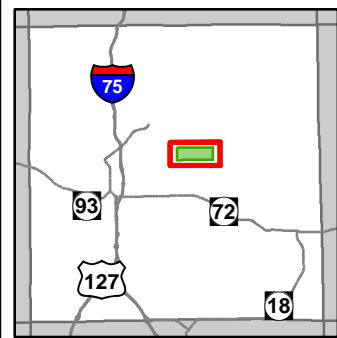
The following reports from the Inventory are attached:

- 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:

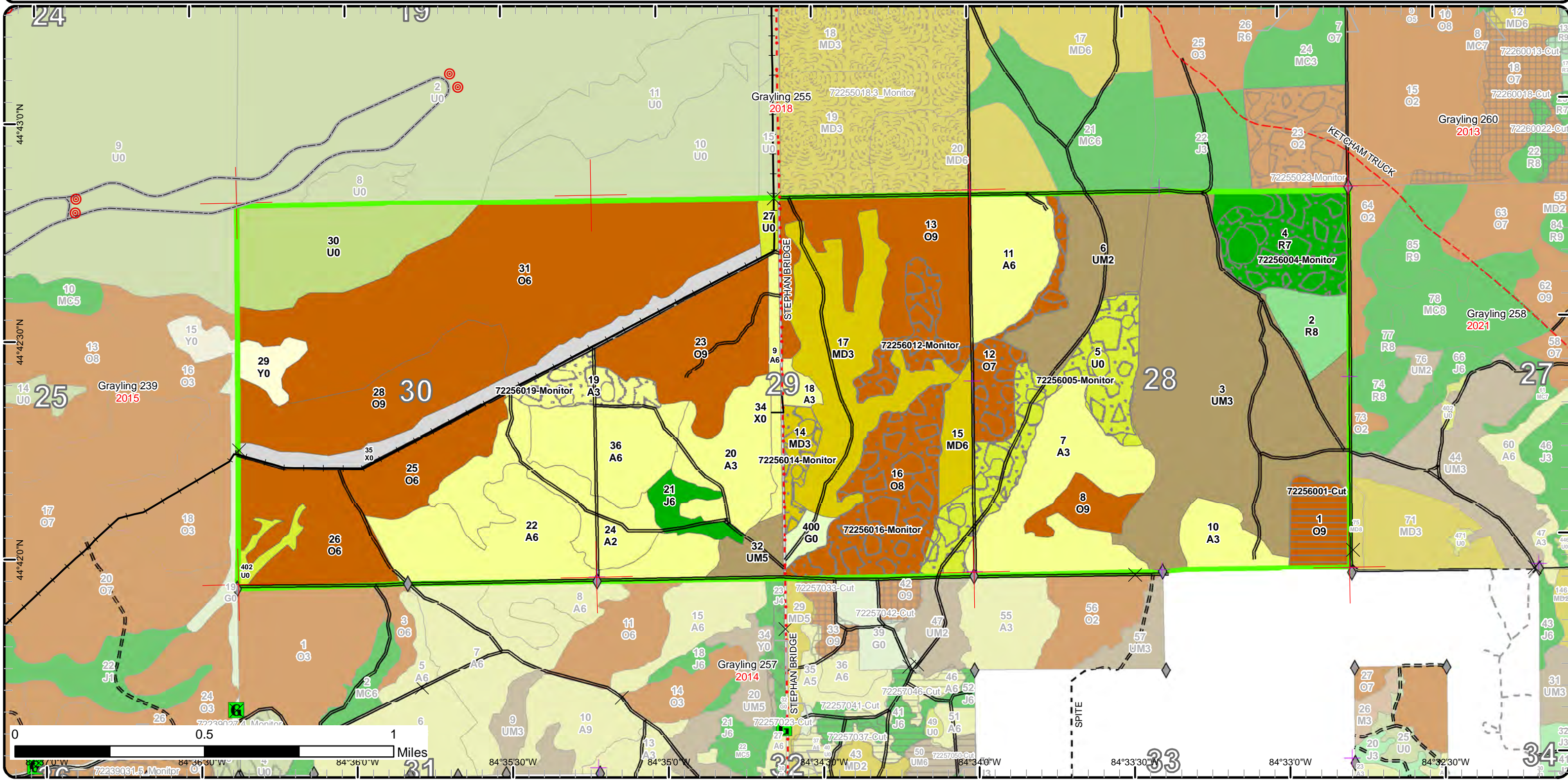
- Base feature information, stand boundaries, cover types, and numbers**
- Proposed treatments**
- Site condition boundaries**
- Details on the road access system**

Cover Type & Treatments Map



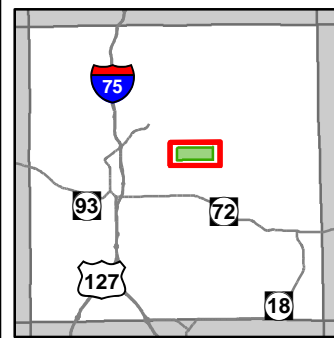
Compartment: 256
 T27N, R02W, Sec. 28-30
 County: Crawford
 Unit: Grayling
 Mgmt Area: Camp Grayling
 YOE: 2020
 Acres: 1,888 GIS Calculated
 Examiner: Thomas Barnes
 Map Revised: 2/1/2019
 Map Phase: Post-Review

- Miris Corners
 - + Remonumented Section Corners
 - ◆ Field Grade Corners
 - Counties
 - DNR - Secondary Forest Road
 - DNR - Forest Access Route
 - Federal / State - Dirt / Gravel Road
 - County - Gravel Road
 - County - Dirt Road (Seasonal)
 - Private - Dirt / Gravel Road
 - Berms
 - G Gate
 - Compartment Boundary
 - Clearcut (w/Reserves)
- 412 - Oak Types
 - 413 - Aspen
 - 419 - Mixed Upland Deciduous
 - 421 - Planted Pines
 - 422 - Natural Pines
 - 430 - Upland Mixed Forest
 - 110 - Low Intensity Urban
 - 310 - Herbaceous Openland
 - 320 - Upland Shrub
 - 330 - Low Density Trees
 - 710 - Sand/Soil

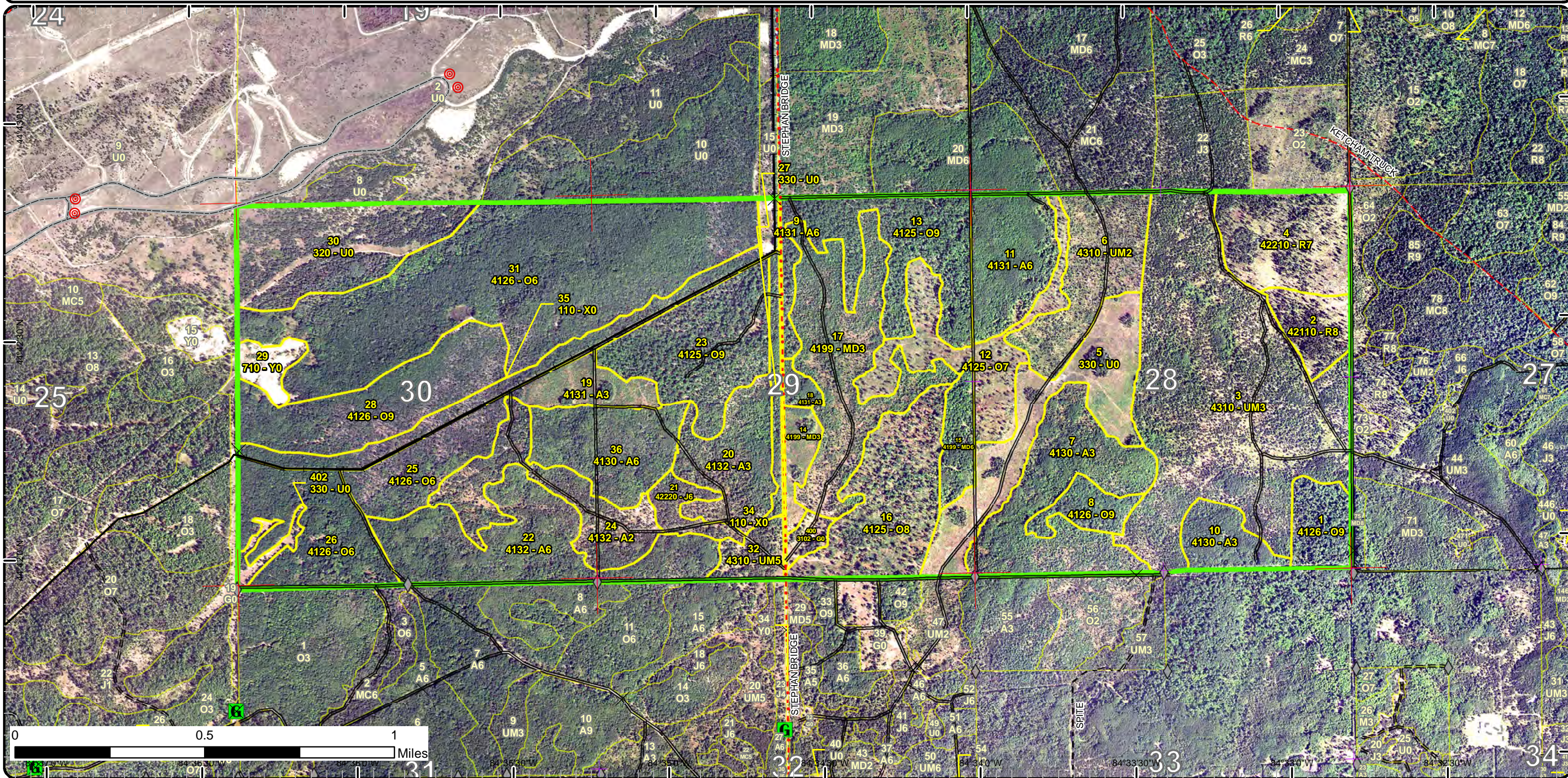


Stand Boundary Map

Compartment: 256
 T27N, R02W, Sec. 28-30
 County: Crawford
 Unit: Grayling
 Mgmt Area: Camp Grayling
 YOE: 2020
 Acres: 1,888 GIS Calculated
 Examiner: Thomas Barnes
 Map Revised: 2/1/2019
 Map Phase: Post-Review

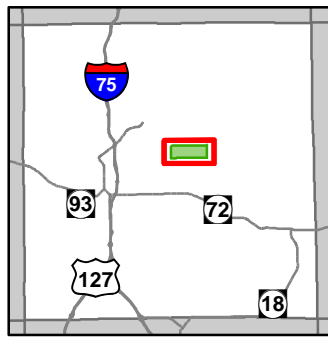


- Miris Corners
 - + Remonumented Section Corners
 - ◆ Field Grade Corners
 - Counties
 - DNR - Secondary Forest Road
 - DNR - Forest Access Route
 - Federal / State - Dirt / Gravel Road
 - County - Gravel Road
 - County - Dirt Road (Seasonal)
 - Private - Dirt / Gravel Road
 - ▲ Berms
 - G Gate
 - Compartment Boundary
 - Stand Boundaries
- 412 - Oak Types
 - 413 - Aspen
 - 419 - Mixed Upland Deciduous
 - 421 - Planted Pines
 - 422 - Natural Pines
 - 430 - Upland Mixed Forest
 - 110 - Low Intensity Urban
 - 310 - Herbaceous Openland
 - 320 - Upland Shrub
 - 330 - Low Density Trees
 - 710 - Sand/Soil

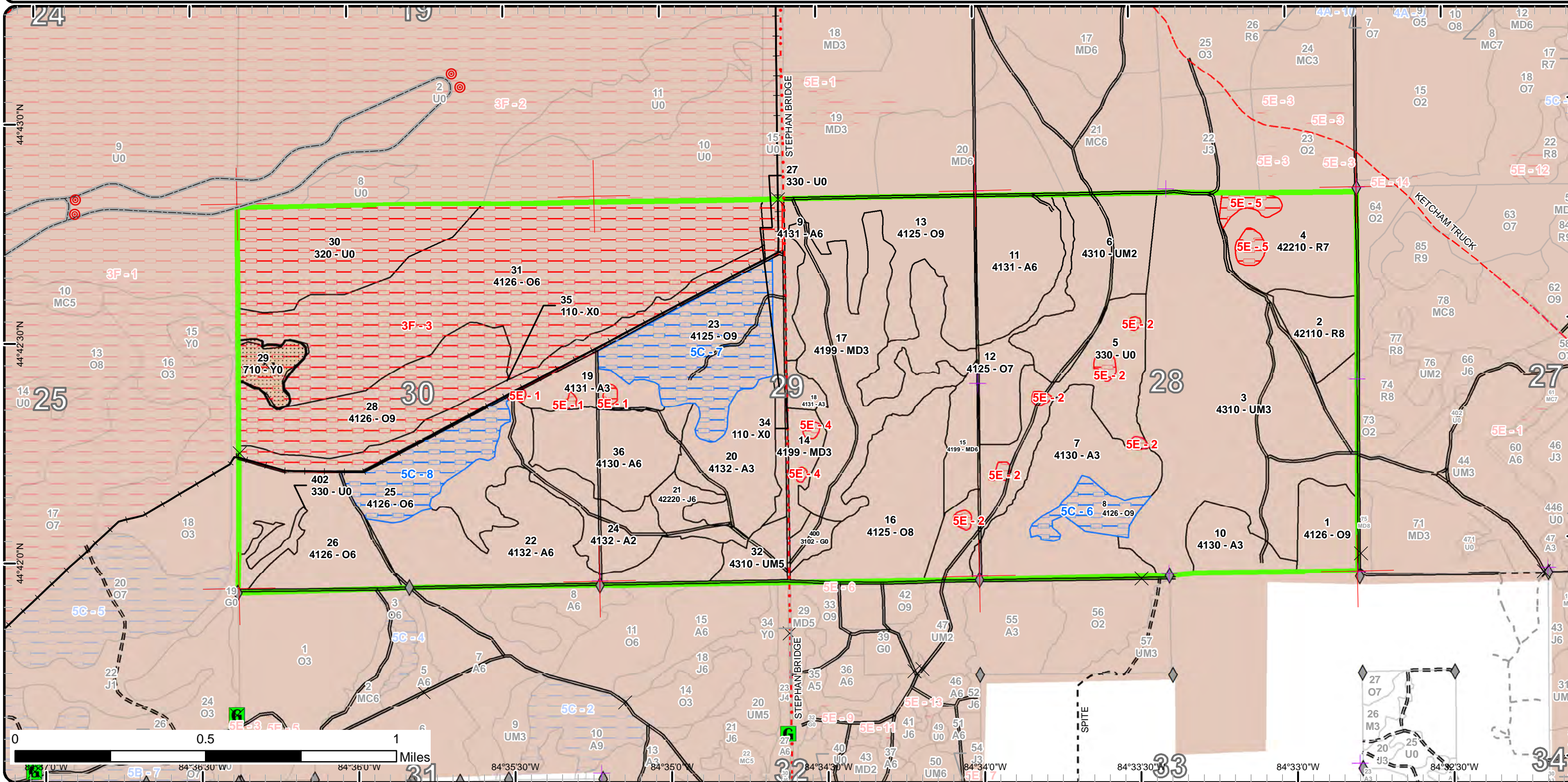


Special Conservation Areas & Site Conditions Map

Compartment: 256
 T27N, R02W, Sec. 28-30
 County: Crawford
 Unit: Grayling
 Mgmt Area: Camp Grayling
 YOE: 2020
 Acres: 1,888 GIS Calculated
 Examiner: Thomas Barnes
 Map Revised: 2/1/2019
 Map Phase: Post-Review



- Miris Corners
- + Remonumented Section Corners
- ◆ Field Grade Corners
- Counties
- DNR - Secondary Forest Road
- DNR - Forest Access Route
- Federal / State - Dirt / Gravel Road
- County - Gravel Road
- County - Dirt Road (Seasonal)
- Private - Dirt / Gravel Road
- Berms
- G Gate
- Compartment Boundary
- Available w/ Constraints
- Unavailable
- 5C: Delay treatment for age/size class diversity or exceptional site quality
- 3F: Military easement / lease
- 5E: Long-Term Retention
- Stand Boundaries
- SCA
- Research, Development, and Military Lands
- Sand or Gravel Pit
- Sand or Gravel Pit





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	22	180	0	88	139	0	0	0	0	0	0	0	0	0	0	0	0	429
Herbaceous Openland	7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	7
Jack Pine	0	0	0	0	0	14	0	0	0	0	0	0	0	0	0	0	0	0	14
Low-Density Trees	84	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	84
Mixed Upland Deciduous	0	13	91	0	17	0	0	0	0	0	0	0	0	0	0	0	0	0	121
Oak	0	0	0	0	0	64	0	0	0	147	510	0	0	0	0	0	0	0	720
Red Pine	0	0	0	0	0	0	0	0	79	0	0	0	0	0	0	0	0	0	79
Sand, Soil	12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	12
Upland Mixed Forest	0	0	56	229	0	15	0	0	0	0	0	0	0	0	0	0	0	0	300
Upland Shrub	78	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	78
Urban	45	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	45
Total	226	35	327	229	105	232	0	0	79	147	510	0	0	0	0	0	0	0	1889



Report 2 – Treatment Summary

Grayling Mgt. Unit

Year of Entry: 2020

Acres of Harvest

Compartment 256

Total Compartment Acres: 1,888

Commercial Harvest - 23
 Harvests with Site Condition - 0
 Next Step Harvest - 0
 Habitat Cut - 0

Cover Type by Harvest Method

	Clearcut	Selection	Patch Clearcut	Seed Tree	Shelterwood	Thinning	Overstory Removal	Salvage	Other	Total Acres
Oak	23	0	0	0	0	0	0	0	0	23
Total	23	0	0	0	0	0	0	0	0	23

Proposed and Next Step Treatments by Method

	Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current	23	0	0	0	0	0	269	0	0	292
Next Step	0	0	0	0	0	0	23	0	0	23
Total	23	0	0	0	0	0	292	0	0	314



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	Approval Status
1	72256001-Cut	22.8	4126 - White, Black, N. Pin Oak	Sawtimber Well	98	81-110	Harvest	Clearcut with Retention	4199 - Other Mixed Upland Deciduous	Even-Aged	Draft Field Boundary

Habitat Cut: No

Site Condition:

Prescription Final harvest with retention. Follow retention standard guidelines. Military specs will be included with chipping being optional.
Specs:

Next Step Monitoring, Natural Regen (Re-Inventry)
Treatments:

Acceptable Acceptable oak regeneration is between 30 and 40 percent along with maple, aspen and pine. Stocking level should be medium to well stocked.
Regen:

Other
Comment:

Proposed Start Date: 10/1 /2019

4	72256004-Monitor	47.3	42210 - Natural Red Pine	Sawtimber Poor	73	1-50	Monitoring	Natural Regen (Re-Inventry)	42290 - Natural Mixed Pine	Even-Aged	Draft Field Boundary
---	------------------	------	--------------------------	----------------	----	------	------------	-----------------------------	----------------------------	-----------	----------------------

Habitat Cut: No

Site Condition:

Prescription
Specs:

Next Step
Treatments:

Acceptable mixed pine oak
Regen:

Other Percent to Treat = 100%
Comment:

Proposed Start Date: 12/22/2015

5	72256005-Monitor	63.0	330 - Low-Density Trees	Nonstocked			Monitoring	Natural Regen (Re-Inventry)	42221 - Natural Jack Pine, Mixed Deciduous	Even-Aged	Draft Field Boundary
---	------------------	------	-------------------------	------------	--	--	------------	-----------------------------	--	-----------	----------------------

Habitat Cut: No

Site Condition:

Prescription Monitor regeneration and treat stand the same a stands harvested under sale name Hogan's Goat.
Specs:

Next Step
Treatments:

Acceptable jack pine and mixed species regeneration meeting minimum stocking levels or less.
Regen:

Other Percent to Treat = 100%
Comment:

Proposed Start Date: 3 /11/2015

12	72256012-Monitor	54.0	4125 - Black, N. Pin Oak	Sawtimber Poor	98	1-50	Monitoring	Natural Regen (Re-Inventry)	41299 - Oak (OI)	Even-Aged	Field Boundary
----	------------------	------	--------------------------	----------------	----	------	------------	-----------------------------	------------------	-----------	----------------

Habitat Cut: No

Site Condition:

Prescription Monitor regen.
Specs:

Next Step
Treatments:

Acceptable Oak regen with a mixture of species will be acceptable.
Regen:

Other Percent to Treat = 100%
Comment:

Proposed Start Date: 3 /16/2015



Stand	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Approval Status
14	72256014-Monitor	11.6	4199 - Other Mixed Upland Deciduous	Sapling Well	6	Immature	Monitoring	Natural Regen (Re-Inventory)	412 - Oak Types	Even-Aged	Draft Field Boundary

Habitat Cut: No **Site Condition:**

Prescription Monitor during next inventory cycle.
Specs:

Next Step
Treatments:

Acceptable Acceptable regen is oak naturally and what ever other species regenerates meeting minimum stocking levels.
Regen:

Other
Comment:

Proposed Start Date: 10/1 /2019

16	72256016-Monitor	72.8	4125 - Black, N. Pin Oak	Sawtimber Medium	92	1-50	Monitoring	Natural Regen (Re-Inventory)	41299 - Oak (OI)	Even-Aged	Field Boundary
----	------------------	------	--------------------------	------------------	----	------	------------	------------------------------	------------------	-----------	----------------

Habitat Cut: No **Site Condition:**

Prescription Monitor regen.
Specs:

Next Step
Treatments:

Acceptable Oak regen with mixed species meeting minimum stocking levels.
Regen:

Other Percent to Treat = 100%
Comment:

Proposed Start Date: 3 /11/2015

19	72256019-Monitor	20.1	4131 - Aspen, Oak	Sapling Well	6	Immature	Monitoring	Natural Regen (Re-Inventory)	412 - Oak Types	Even-Aged	Draft Field Boundary
----	------------------	------	-------------------	--------------	---	----------	------------	------------------------------	-----------------	-----------	----------------------

Habitat Cut: No **Site Condition:**

Prescription Monitor during inventory
Specs:

Next Step
Treatments:

Acceptable Acceptable regeneration will be natural to an Aspen, Oak and Red Maple meeting minimum stocking levels.
Regen:

Other Old OI MO was listed as oak, but old stand comments list regen as aspen, oak and red maple.
Comment:

Proposed Start Date: 10/1 /2019

Total Treatment Acreage Proposed: 291.6

Report 4 – Site Conditions

Grayling Mgt. Unit

Thomas Barnes : Examiner

Compartment: 256

Year of Entry: 2020

Availability for Management

Total Acres	Acres Available	Acres Avail		Dominant Site Conditions	Dominant Site Conditions		
		With Condition	Not Available		5C	3F	5E
429	427	0	2	Aspen	0		2
7	7	0	0	Herbaceous Openland			
14	14	0	0	Jack Pine			
84	72	0	12	Low-Density Trees	0	5	7
121	120	0	2	Mixed Upland Deciduous			2
720	289	125	306	Oak	125	306	
79	70	0	9	Red Pine			9
12	0	0	12	Sand, Soil		12	
300	300	0	0	Upland Mixed Forest	0		0
78	0	0	78	Upland Shrub		78	
45	4	0	41	Urban	0	41	0
1,888	1,301	125	462	Total Forested Acres	125	442	20
	69%	7%	24%	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
1	Unavailable	5E: Long-Term Retention	2	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
2	Unavailable	5E: Long-Term Retention	7	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
3	Unavailable	3F: Military easement / lease	442	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Range 30 Complex							

Report 4 – Site Conditions

Grayling Mgt. Unit
Thomas Barnes : Examiner

Compartment: 256
Year of Entry: 2020

4	Unavailable	5E: Long-Term Retention	2	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
5	Unavailable	5E: Long-Term Retention	9	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
6	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	16	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
7	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	71	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
8	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	38	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Treat stand when adjacent stand 22 is treated.							

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



Report 6 – EXISTING SPECIAL CONSERVATION AREA DETAILS

* This is a list of SCA's for this compartment along with a 1/4 mile buffer surrounding the compartment. Refer to the Special Conservation Area Map for locations of the below listed Conservation Areas.

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

Conservation Area	Type	Description
SCA	Research and Military Areas	These areas provide facilities and lands specifically dedicated for research, or other purposes. They include the 5,847 acre Forest Fire Experiment Station, the 12,000 acre Houghton Lake Wildlife Research Area, the Beaver Islands Archipelago Wildlife Research Area (that includes most of Garden Island, all of High and Hog Islands, all state owned land on Beaver, South Fox and North Fox Islands), the Cusino Wildlife Research Area, the 3,000 acre Hunt Creek Fisheries Research Station, the 125 acre Wyman Nursery, and over 144,000 acres of Military Lands.



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
1	4126 - White, Black, N. Pin Oak	Sawtimber Well	22.8	98	81-110	<p>Stand was thinned during 01/02 winter. Great oak regen from small seedling to advanced oak regen upto 10' in height. Also good white pine regen along with other species. Evidence of past military activity. Small component of red and white pine, pole to log size. Three BA swings were taken with stand average of 83.</p> <p>OPIC - FMD: 2008 Notes : MILITARY USE, SOME RED & WHITE PINE LOG TREES. FIRE SCARS ON MOST TREES. Thinned December 01 and January 02 contract #72-025-01-01, Fire Scarred Oak Block.</p>
2	42110 - Planted Red Pine	Sawtimber Medium	22.3	77	81-110	<p>Pure red pine of pole y small boy, by dominant. Fair quality crowns about 40-50%of tree. 3BA swings average of 80. Stand was thinned under 726251001 red and jack tank trail. When transferred over to MIFI, cut code was botched and it does not reflect proper treatment type.</p> <p>OPIC - FMD: 2008 Notes: Red Pine stand. Military lease land. Recommend thinning stand to 90BA. Treat with stand 4 to the north.</p>
3	4310 - Pine, Oak Mix	Sapling Well	229.3	28	Immature	<p>Stand was harvested in 1991. Has regenerated to a mix of jack pine and oak with some scattered pockets of aspen. There are also numerous small opening throughout the stand. Tree form is poor as the jack pine a bushy from being open grown conditions. Oak is stump sprout origin. Some cherry is scattered about as well. OPIC - FMD: NE OF SE PURCHASED IN 1979 NO EXISTING LAND RECORD CARD AT THIS TIME. SOME J1.</p>
4	42210 - Natural Red Pine	Sawtimber Poor	56.7	73	1-50	<p>Harvested stand where all red pine was left. Five BA swings were taken, wit one falling in a retention island. Average BA for stand was 30. Good oak stump sprouting of less than 5 ft. Traces of red Jack pine regen. Stand was cut under 726251001 red and jack tank trail. OPIC - FMD: 2008 Notes: Jack pine stand mixed with Red Pine and some Oak. Final harvest/ Cut all Jack Pine and Oak and leave all the Red Pine. Also leave two 4 acre patches within the stand on the northwest side and on the southeast side for retention. Prescribe burn possibly after harvest to promote Red Pine, Oak and Jack Pine natural regeneration. Military leased land.</p> <p>Old notes: SOME JP AGE 70+ WITH DEAD TOPS, AREAS OF J2J4.</p>
6	4310 - Pine, Oak Mix	Sapling Medium	55.6	19	Immature	<p>Final harvest in 2001 contract #72-018-00-01 West Buffer 28 block. The 4 inch and under residual was left. This is a mixed stand dominated by jack pine. Some residual pole stems of the same mixed species. There are grassy open areas mixed thru out. OPIC - FMD: Final harvest in 2001 contract #72-018-00-01 West Buffer 28 block. The 4 inch and under residual was left.</p>
7	4130 - Aspen	Sapling Well	80.9	19	Immature	<p>Stand harvested in 2001. Has regenerated to a thick aspen stand with some jack pine and oak scattered about. Stand is doing well. OPIC - FMD: Final harvest in 2001 contract #72-018-00-01 West Buffer 28 Block. The 4 inch and under residual was left.</p>



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
8	4126 - White, Black, N. Pin Oak	Sawtimber Well	16.0	90	81-110	Mature stand of Oak surrounded by natural regeneration from surrounding stands (Island). No access to stand without damaging regeneration to get to stand. Stand is dominantly White Oak with some Red Maple, Jack Pine and some Black Oak/Red Oak. Stand is under long term military lease.
9	4131 - Aspen, Oak	Poletimber Well	12.4	38	51-80	Old notes indicated this stand was treated to be a fuel break. Primarily aspen with mixed oak and maple. OPIC - FMD: 2008 Notes: A two chain wide strip of Aspen, Oak, Jack Pine and Red Maple along the west side of Stephan Bridge Road. Immature in age. Designated as a fuel break.
10	4130 - Aspen	Sapling Well	22.5	32	Immature	Young aspen stand on verge of being a pole size stand. OPIC - FMD: 2008 Notes: Stand is approaching pole size.
11	4131 - Aspen, Oak	Poletimber Well	46.9	38	51-80	Young stand of aspen, oak and maple. Stand is pole to sapling with fairly equal distribution. Oak and maple stems primarily stump sprouts and clumps. OPIC - FMD: OI Stand Year Origin was 1981
12	4125 - Black, N. Pin Oak	Sawtimber Poor	53.9	98	1-50	Seed tree cut left about 20BA of Red and White Oak, higher BA in the finger that jets out to the south west into stand 17 as per request of wildlife. Contract # 72-620-10-01. Regen is coming back aspen, maple and oak, not as well advanced as stand 16. Some mortality of residual seed trees.
13	4125 - Black, N. Pin Oak	Sawtimber Well	75.6	88	51-80	Stand was thinned with removal of all maple and aspen as well as some oak. Overstory is scattered with log trees average BA 60. Understory is developing nicely with a good component to oak with clumped maple and aspen regen. Regen height varies but is averaging between 5-20ft. Mature oak looks healthy and can hold for another 10 years as logs are on the smaller end of the spectrum. OPIC - FMD: COULD CUT THE 7 INCH AND UNDER OAK PULP. SOME WHITE OAK. Stand thinned January 02 under contract #72-035-00-01, Stephan Oak 29 Sale.
14	4199 - Other Mixed Upland Deciduous	Sapling Well	13.2	6	Immature	Stand was harvested in 2013. Regen is coming back well with oak, aspen, cherry and maple. Stand is dominated by oak. Stump sprout origin for oak. OPIC - FMD: 2008: Mature Oak stand. Stand borders Stephan Bridge Road. (east-side). Recommend final harvest, but leave 1 or 2 1 acre patches for retention and visual management (focus 1 of these patches on the east side of stand over looking the valley to the east. Wildlife request.) Manage for Oak naturally and what ever other species regenerates. Military leased lands. 2013: Stand was harvested under contract 72-615-10-01 SW Range 30 Oak. Harvest was completed in Jan of 20013. 1-11/2 retention left within the stand in patches.
15	4199 - Other Mixed Upland Deciduous	Poletimber Well	17.3	38	51-80	Young mixed stand with oak aspen and maple. Oak and maple clumped stump sprouts. OPIC - FMD: COMBINES PURE A2 AND O2 WITH MIXTURES OF EACH



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
16	4125 - Black, N. Pin Oak	Sawtimber Medium	72.6	92	1-50	Stand was harvested under contract 72-620-10-01 in the fall/winter of 2014/15. Overall BA is less than 50sqft. There is some oak mortality in residual. Understory is fairly consistent with some very dense pockets. Aspen, maple and oak make up the understory. there is a good presents of oak seedling in the 12' category. OPIC - FMD: 2010 update: Chose not to treat adjacent stand in compt 257 per comments below. Military approval was not received for treating the adjacent stand and there are two adj oak stands- staff member was not sure which one comments were referring to. After looking at situation, was determined we should wait until compt 257 is reinventoried and up for treatment in 2014 to treat the oak stand referred to below. SJ Thiel 2008 Notes: Mature stand of Oak mixed with Aspen and Red Maple. Heavy National Guard use in the southend of stand. Stand is under long term military lease. Recommend selection cut, removing all Aspen, Red Maple and any other species other than Oak. Leave All Oak. Goal is 50 BA. Leave residual heavier along the trails to discourage off road military use. Also include the piece in adjacent compartment to the south. Allegheny Plum is a special concern in this stand.
17	4199 - Other Mixed Upland Deciduous	Sapling Well	90.8	18	Immature	Stand was harvested in 2000. Has come back to a mixture of jack pine, oak, aspen and cherry in more open areas. Stems are anywhere from 5 to 25 feet tall with aspen being the tallest and found in small clones. There are several open areas throughout this stand and a two track that runs thru the stand. There area some larger red pine scattered about as well. OPIC - FMD: Contract #021-00-01, East Jack 29 Block, cut in 2000.
18	4131 - Aspen, Oak	Sapling Well	5.7	39	111-140	Stand is a mixture of aspen, oak, jack pine, maple and shrubs. Doesn't have typical aspen stem density. Primarily pole/sap wit some oak lo trees. OPIC - FMD: OI Stand Year Origin was 1980
19	4131 - Aspen, Oak	Sapling Well	22.4	6	Immature	Stand was harvested in 2013 and is regenerating well. Stand is a mixture of aspen, maple and oak. OPIC - FMD: 2008 Notes: This stand was part of stand 23 previously and was not cut with stand 23. Recommend final harvest with 1 acre retention patches within the stand. Should regenerate naturally to an Aspen, Oak and Red Maple stand. 2013: Stand was harvested under contract 72-615-10-01 SW Range 30 Oak. Harvest was complete in Jan 2013. Stand had 2 acres of retention in patches left within the stand.
20	4132 - Aspen, Jack Pine	Sapling Well	46.3	15	Immature	Stand was harvested in 04 with leaving all stems 4" and under. Stand has regenerated to a mixed aspen and jack pine stand with some oak and maple as well. Stand is doing well. OPIC - FMD: 2008 Notes: Immature Oak/Aspen/Jack Pine stand with scattered Oak Sawlog trees scattered throughout the stand. Stand Harvested in 04/2004 (TS# 072-006-01-01) High Low Jack DH 04 Old Comments: MORE ASPEN / OAK BY THE ROAD. LEAVE THE FIVE INCH AND UNDER TREES.
21	42220 - Natural Jack Pine	Poletimber Well	13.6	45	111-140	Naturally regenerated jack pine of poor form. OPIC - FMD: LEAVE FIVE INCH AND UNDER.
22	4132 - Aspen, Jack Pine	Poletimber Well	88.2	44	111-140	Mixed stand of aspen with associated species, there is a vein of jack pine that was included with this stand as they would be treated together. Stand is rolling topography with average quality. There are some logs sized oak scattered about but majority of stand is pole to large sapling. OPIC - FMD: MIXED DENSITIES OF O2 AND A2. MANAGE UNDERSTORY.



	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
23	4125 - Black, N. Pin Oak	Sawtimber Well	70.9	88	51-80	Stand was thinned with removal of all maple and aspen as well as oak under 9", cut in 2003.. Overstory is scattered with log trees average BA 60. Understory is developing nicely with a good component to oak with clumped maple and aspen regen. Regen height varies but is averaging between 5-20ft. Mature oak looks healthy and can hold for another 10 years as logs are on the smaller end of the spectrum. OPIC - FMD: WEST END LESS B.A. MORE BLACK OAK, SOME ASPEN PATCHES. USE FIVE SPOT GROUP SELECTION METHOD. PRESCRIPTION CHANGED TO FINAL HARVEST. NEED MILITARY APPROVAL. FIRST PREFERENCE IS FINAL HARVEST THEN HEAVY THIN OR 40% CROWN CLOSURE IF MILITARY DOES NOT WANT IT CLEARCUT. Stand cut by G.P. summer to winter 2003 timbersale 7204700-01.
24	4132 - Aspen, Jack Pine	Sapling Medium	53.4	15	Immature	Stand was cut in 2004 taking everything 4" and up. Stand has come back to a mixture of aspen, oak, maple, jack pine and open areas. There is a component of residual stems in the pole size that were left as per the specs. Dominate age is 13 and size class is sapling. OPIC - FMD: LEAVE FIVE INCH AND UNDER.
25	4126 - White, Black, N. Pin Oak	Poletimber Well	37.8	90	81-110	Very poor quality oak stand with 2-5 pulp sticks. Not much for understory. Stand is rolling hills with scattered log size oak. There is also a small pine component in this stand. OPIC - FMD: MOSTLY WHITE OAK.
26	4126 - White, Black, N. Pin Oak	Poletimber Well	63.9	47	81-110	this stand is a mixture of bot diameters and species. Majority of stems are sapling and pole with scattered log trees. Calling stand pole size. Good species diversity of both tree and shrubs. Under story varies from ferns to blue berry. OPIC - FMD: PATCHES OF SOLID ASPEN / OAK, REST SCATTERED OAK OVERSTORY.
28	4126 - White, Black, N. Pin Oak	Sawtimber Well	73.9	91	51-80	Stand is within the Range 30 training complex, access is restricted. Stand data was done at edge of fence. Narrow portion along the fence is currently under contract, Hubbub range. This narrow strip will be converted to a range road. OPIC - FMD: RESTRICTED ACCESS FOR GUARD ONLY
31	4126 - White, Black, N. Pin Oak	Poletimber Well	232.1	96	51-80	Stand is within the Range 30 Training complex with restricted access. Data are estimates and taken from timber sale along fence. OPIC - FMD: RESTRICTED ACCESS FOR MILITARY ONLY
32	4310 - Pine, Oak Mix	Poletimber Medium	14.9	45	1-50	Stand that is 50/50 forest o open area. Mixture of poor quality jack pine, aspen oak and shrubs. OPIC - FMD: 2008 Notes: JP, ASPEN, OAK Small poles size. HAS ALLEGHANEY PLUM STATUS OF SPECIAL CONCERN.
36	4130 - Aspen	Poletimber Well	50.8	46	111-140	Small pole sized stand of aspen with oak and maple. Rolling topography. Maple and Oak is of stump origin and clumped in nature. Understory does have some oak regen. OPIC - FMD: MIXED DENSITIES OF O2 AND A2. MANAGE UNDERSTORY.



Stand	Cover Type	Acres	Managed Site	General Comments:
5	330 - Low-Density Trees	71.6		Stand harvested in fall/winter of 2014/15 under contract 72-624-10-01. Stand has very little regen, scattered oak and cherry as well as some pockets of aspen.
27	330 - Low-Density Trees	4.9	No	Some trees in this area but mostly sand, comments from 2008 area still valid. OPIC - FMD: 2008 Notes Part of the fuel break strip along Stephan Bridge Road. Stand is within the Range fence (off limits) and is a dozed sandy area. Military lease land.
29	710 - Sand, Soil	12.2	No	Stand within Range 30 complex and restricted access. Stand appears to be a barrow area for sand and other material. OPIC - FMD: RESTRICTED FOR GUARD USE ONLY
30	320 - Upland Shrub	78.0	No	Stand is within Range 30 Training Complex with restricted access. Stand data was used from timbersale numbers. Stand was treated to reduce fire hazard. OPIC - FMD: RESTRICTED FOR GUARD USE ONLY
34	110 - Low Intensity Urban	4.0	No	Stephan Bridge Road
35	110 - Low Intensity Urban	40.6	No	This area is being proposed for road along fence. Stand is within the Range 30 Training complex with restricted access. Data are estimates and taken from timber sale along fence. Stand were part of stand 28 and 31 cleared for future range road. OPIC - FMD: RESTRICTED ACCESS FOR MILITARY ONLY
400	3102 - Grass	6.8	No	Open area just off stephan bridge road, some jack pine scattered about. OPIC - FMD: LESS THAN 17% TREED. JP, ASPEN, OAK SAPLINGS. HAS ALLEGHANEY PLUM STATUS OF SPECIAL CONCERN.
402	330 - Low-Density Trees	7.0	No	Open area w/grass and sweet fern. Some scattered sack pine and oak.