



Compartment Review Presentation

Grayling Forest Management Unit

Compartment 72197

Entry Year 2025

Acreage: 1,574

County Crawford

Management Area: High Sand Plains

Stand Examiner: Derek Nellis

Legal Description:

Township 25N Range 4W, Sections 13, 14, 15

Identified Planning Goals:

The goals are to: 1) to manage and maintain species and structural diversity, health, productivity, and sustainability throughout the compartment 2) help address the need for age diversification among red pine stands throughout the state 3) provide an area for National Guard training under the 10 year management agreement guidelines 4) provide multiple use opportunities and incorporate any visual management needed to optimize these uses.

Soil and topography:

Grayling, Graycalm, Graycalm-Grayling complex, Graycalm-Klacking complex, and Klacking loamy sand are the predominate soils. The compartment contains several disturbed areas from oil and gas activities. The topography is level to rolling.

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

The compartment consists of solid State ownership with some private tracts in Sections 13 and 14. The Beaver Creek Gas Plant is located in the SWSW of Section 13. The area is receiving increasing pressure from oil and gas development as existing fields from the south expand north. The Beaver Creek Town Hall is located in the SE ¼ of the SE ¼ of sec 13. US-27 runs through the SE corner of section 13.

Section 15 is under the ten year management agreement with the Michigan Department of Military Affairs, National Guard. The management agreement allows for military camping and maneuvers, but does not allow the use of heavy equipment or high intensity live ammunition firing. Tracked vehicles are prohibited and all vehicle use is restricted to existing trail roads. This management agreement is due to expire in 2014. It is anticipated it will be renewed with little change.

Unique Natural Features:

An old MIMS plot is found in stand 32.

Archeological, Historical, and Cultural Features:

No Archeological, Historical, or Cultural Features known.

Special Management Designations or Considerations:

Using Kotar maps and through field observation this compartment may help serve the objectives of the Red Pine Ecosystem Team. This compartment is primarily mature red pine plantation with approximately half of it ready for treatment.

Michigan Natural Features Inventory suggests that any planting be done with native seed collected locally, and to use fire for preparation of seedbeds.

Watershed and Fisheries Considerations:

None recorded at this time.

Wildlife Habitat Considerations:

The primary game species are whitetail deer and ruffed grouse. There is considerable hunting pressure for both species. Deer and grouse are two species, which require habitat in younger age classes of forest growth. The combination of younger aspen stands, longer rotation pine stands, and some openings will accommodate a wide variety of songbirds and other wildlife.

Mineral Resource and Development Concerns and/or Restrictions

Surface sediments consist of ice-contact and glacial outwash sand and gravel and postglacial alluvium. Glacial drift thickness varies between 400 and 600 feet. Beneath the glacial drift is the Michigan Formation, quarried for gypsum elsewhere in the State. A gravel pit is located in Section 9 and potential is good on the upland areas. Most of the compartment is currently leased for oil and gas. Section 15 is part of the Beaver Creek Field. The field has produced over 21 MBO from the Devonian Richfield and over 5 Bcf gas from the Ordovician Prairie du Chien.

Vehicle Access:

Access throughout the compartment is good. The compartment has several paved and improved roads, including county roads of Military Rd., 7 Mile Rd., Tower Hill Truck Trail, King Rd., and Oak Rd. Two-tracks and trails provide access to the majority of the stands. There are no trail roads that need maintenance or closure in this system at this time. All new roads created through management activities are to be closed upon completion.

Survey Needs:

None at this time.

Recreational Facilities and Opportunities:

A designated snowmobile trail, Trail 7, run along King Rd, a seasonal county road. Several opportunities exist for hunting deer, rabbit, turkey, and grouse. The NW 1/4 of the NW 1/4 is frequented by individuals looking for mushrooms.

Fire Protection:

Access throughout the compartment is adequate. Military road and the west 1/3 of 7-Mile Road are paved. The rest of 7 Mile road, Oak road, and King Road are county gravel roads. Well sites provide access to much of section 15. 2-tracks provide good access throughout the rest of the compartment. Section 13 could be an area of concern due to its fire prone cover types and the private properties to the north.

Additional Compartment Information:**The following reports from the Inventory are attached:**

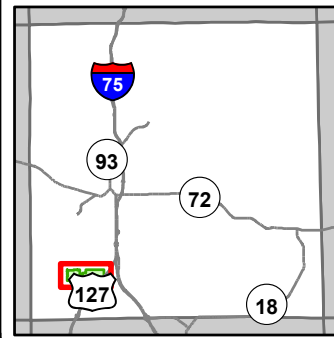
- Total Acres by Cover Type and Age Class**
- Cover Type by Harvest Method**
- Proposed Treatments – No Limiting Factors**
- Proposed Treatments – With Limiting Factors**
- Stand Details (Forested and Nonforested)**
- Dedicated and Proposed Special Conservation Areas**
- Site Condition Details**

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

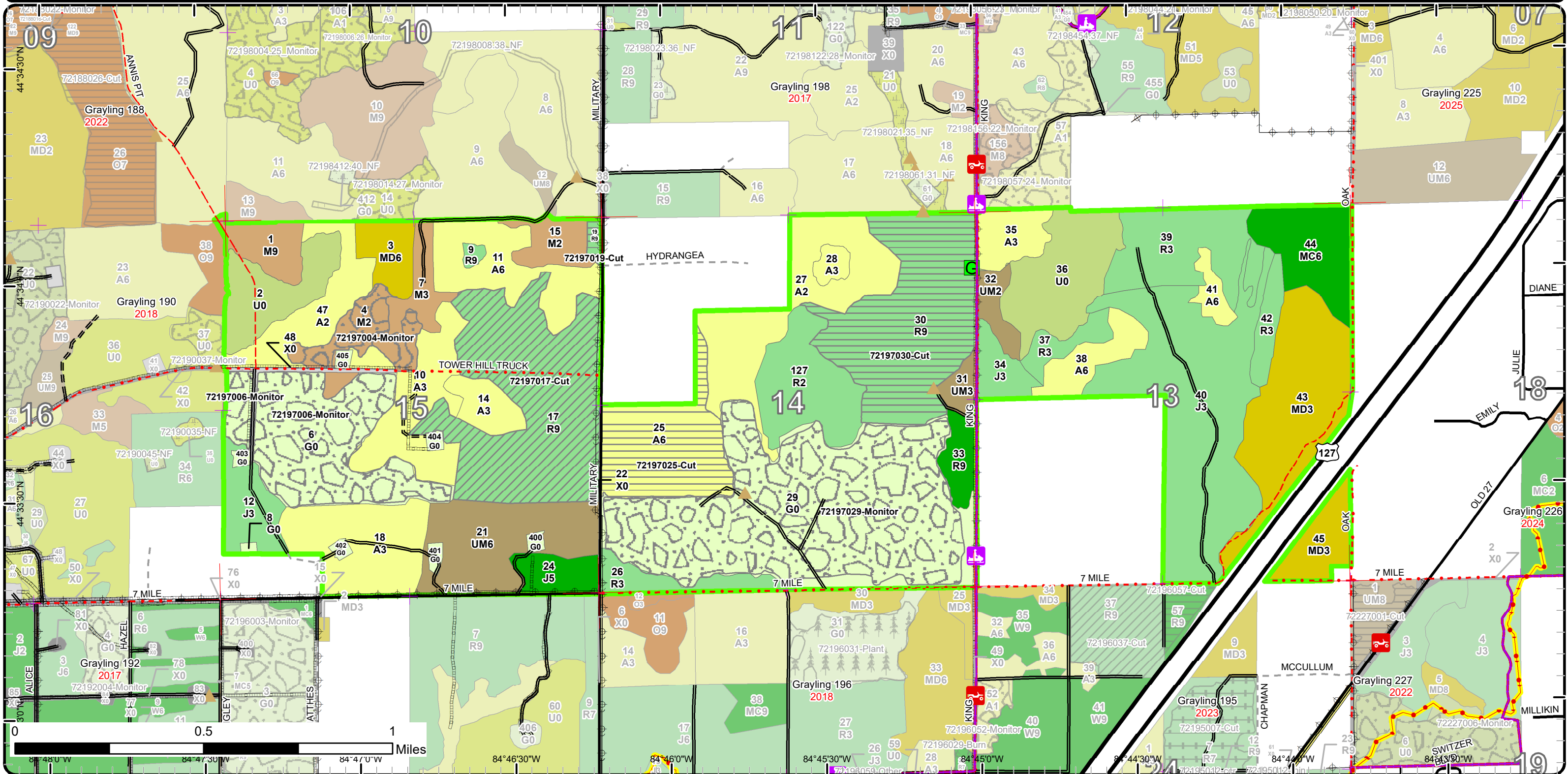
- Base feature information, stand boundaries, cover types, and numbers**
- Proposed treatments**
- Site condition boundaries**
- Details on the road access system**

Cover Type & Treatments Map

Compartment: 197
 T25N, R04W, Sec. 13-15
 County: Crawford
 Unit: Grayling
 Mgmt Area: High Sand Plains
 YOE: 2025
 Acres: 1574.4 GIS Calculated
 Examiner: Derek Nellis
 Map Revised: 11/28/2023
 Map Phase: Post-Maps

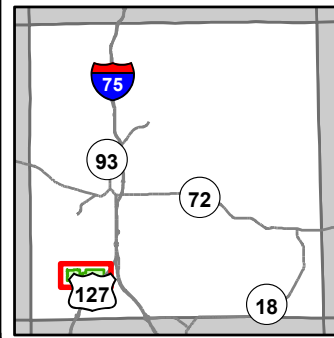


- Miris Corners
- + Remonumented Section Corners
- Counties
- DNR - Secondary Forest Road
- DNR - Forest Access Route
- Federal / State Highway
- Federal / State / County - Paved Road
- County - Gravel Road
- County - Dirt Road (Seasonal)
- Private - Dirt / Gravel Road
- ORV Routes
- Snowmobile Trails
- ORV License & Trail Permit
- Designated ORV Route
- Designated Snowmobile Trails
- Michigan Cross Country Cycle Trail (MCCCT)
- ▲ Berms
- G Gate
- Pipeline
- Powerline
- Unspecified
- Compartment Boundary
- Clearcut (w/Reserves)
- Thinning (Crown, Low, Systematic)
- Regeneration Survey
- 411 - Northern Hardwood
- 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

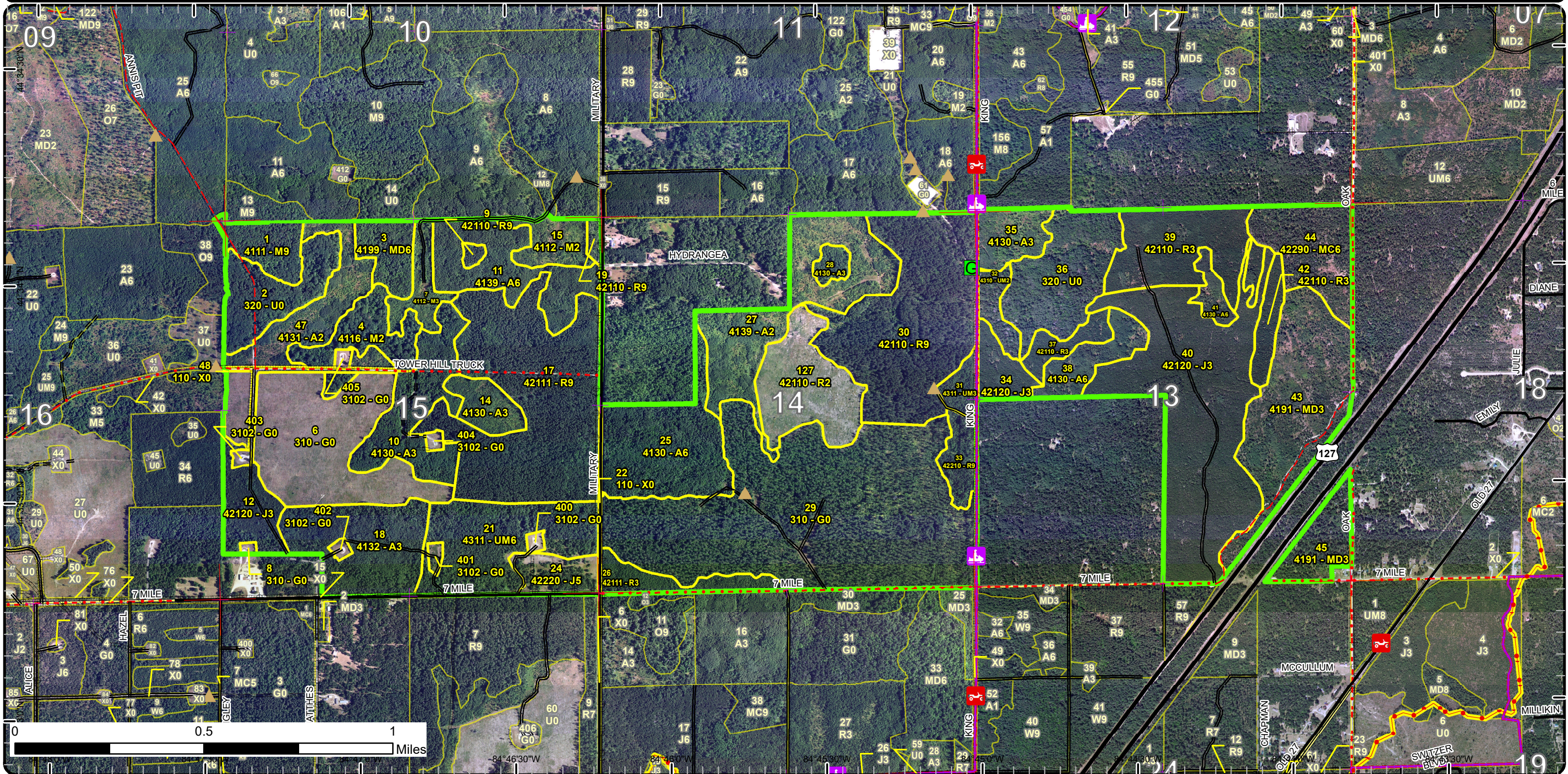


Stand Boundary Map

Compartment: 197
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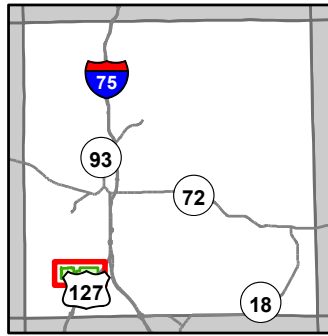


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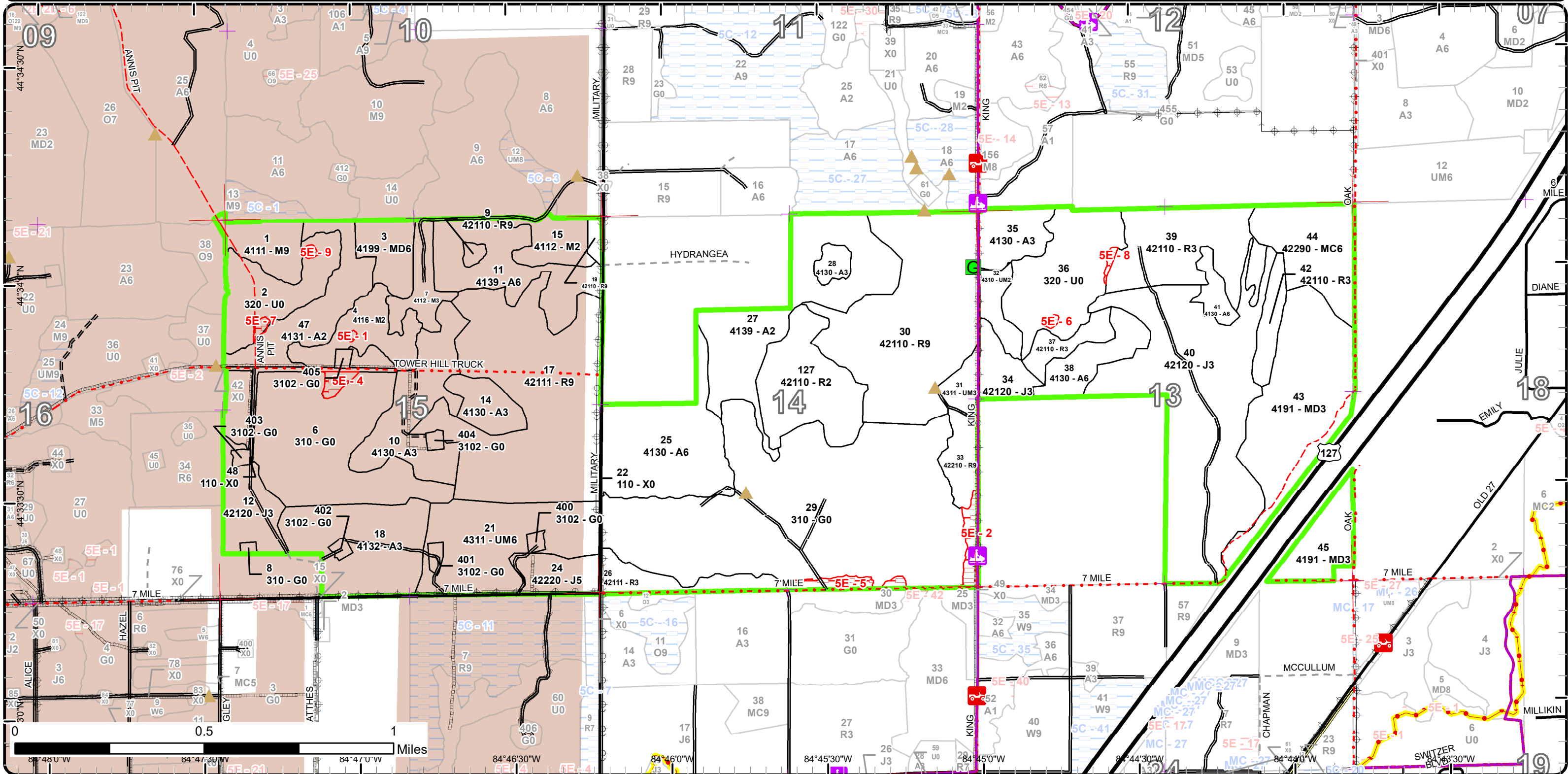


Special Conservation Areas

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- ▲ Berms
- Gate
- Pipeline
- ⊕ Powerline
- Unspecified
- Compartment Boundary
- Unavailable
- 5E: Long-Term Retention
- Stand Boundaries
- Research, Development, and Military Lands





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	0	128	49	112	0	55	0	0	0	0	0	0	0	0	0	0	0	344
Herbaceous Openland	305	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	305
Jack Pine	0	0	0	22	143	0	14	0	0	0	0	0	0	0	0	0	0	0	179
Mixed Upland Deciduous	0	0	20	74	16	0	0	0	0	0	0	0	0	0	0	0	0	0	110
Natural Mixed Pines	0	0	0	0	0	0	0	0	36	0	0	0	0	0	0	0	0	0	36
Northern Hardwood	0	25	29	0	0	0	0	0	17	0	0	0	0	0	0	0	0	0	71
Red Pine	0	43	0	16	70	0	0	0	0	240	0	0	0	0	0	0	0	0	369
Upland Mixed Forest	0	0	0	8	0	0	55	0	0	0	0	0	0	0	0	0	0	10	73
Upland Shrub	80	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	80
Urban	8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	8
Total	393	68	177	169	341	0	124	0	53	240	0	0	0	0	0	0	0	10	1575



Report 2 – Treatment Summary

Grayling Mgt. Unit

Compartment 197

Year of Entry: 2025

Acres of Harvest

Total Compartment Acres: 1,574

Commercial Harvest - 282
 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	Overshory Removal	Salvage	Other	Total Acres
Aspen	55	0	0	0	0	0	0	0	0	55
Red Pine	106	0	0	0	0	121	0	0	0	226
Total	161	0	0	0	0	121	0	0	0	282

Proposed and Next Step Treatments by Method

	Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current	282	0	0	0	0	0	296	0	0	578
Next Step	0	206	103	0	0	788	58	190	0	1345
Total	282	206	103	0	0	788	354	190	0	1923



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
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Approved Treatments:

4	72197004-Monitor	22.2	4116 - Mixed N. Hardwood - Aspen	Sapling Medium	7	Immature	Monitoring	Natural Regen (Re-Inventory)	4319 - Mixed Upland Forest	Even-Aged	No
<p><u>Prescription</u> Monitor during next inventory cycle</p> <p><u>Specs:</u></p> <p><u>Next Step</u></p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> Mixed stand of maple, aspen, oak and other associated species meeting minimum stocking levels.</p> <p><u>Regen:</u></p> <p><u>Other</u> Accidentally deleted monitoring treatment had to rebuild it.</p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2034</p>											
6	72197006-Monitor	83.5	310 - Herbaceous Openland	Nonstocked	0		Monitoring	Artificial Regen(3yr)	4211 - Planted Red Pine	Even-Aged	No
<p><u>Prescription</u></p> <p><u>Specs:</u></p> <p><u>Next Step</u> Pesticide, Aerial - Release</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> full stocking in planted RP</p> <p><u>Regen:</u></p> <p><u>Other</u> Percent to Treat = 100%</p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2022</p>											
17	72197017-Cut	120.7	42111 - Planted Red Pine, Mixed Deciduous	Sawtimber Well	84	81-110	Harvest	Crown Thinning	4211 - Planted Red Pine	Even-Aged	No
<p><u>Prescription</u> Mark to thin stand to a residual BA of 60-80. Target poor form and suppressed trees. Try to thin from above by taking out larger trees with</p> <p><u>Specs:</u> less quality than other co dominant trees with better form.</p> <p><u>Next Step</u></p> <p><u>Treatments:</u></p> <p><u>Acceptable</u></p> <p><u>Regen:</u></p> <p><u>Other</u> Or restart now.</p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2024</p>											



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Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
19 72197019-Cut	2.6	42110 - Planted Red Pine	Sawtimber Well	84	81-110	Harvest	Clearcut	4319 - Mixed Upland Forest	Even-Aged	No
<p><u>Prescription</u> Harvest all trees >5" dbh. No retention due to small stand size. <u>Specs:</u> <u>Next Step</u> Monitoring, Natural Regen (Re-Inventory) <u>Treatments:</u> <u>Acceptable</u> Red maple, aspen, red pine, white pine, jack pine, and oak for a moderately stocked stand. <u>Regen:</u> <u>Other</u> <u>Comment:</u> <u>Site Condition</u> Proposed Start Date: 10/1 /2024</p>										
25 72197025-Cut	55.3	4130 - Aspen	Poetimber Well	52		Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	No
<p><u>Prescription</u> Harvest all stems >2" DBH. Standard retention. Include grouse log spec. <u>Specs:</u> <u>Next Step</u> Monitoring, Natural Regen (Re-Inventory) <u>Treatments:</u> <u>Acceptable</u> A moderately stocked stand of aspen with minor components of oak and maple. <u>Regen:</u> <u>Other</u> <u>Comment:</u> <u>Site Condition</u> Proposed Start Date: 10/1 /2024</p>										
29 72197029-Monitor	190.4	310 - Herbaceous Openland	Nonstocked	0		Monitoring	Artificial Regen(3yr)	42111 - Planted Red Pine, Mixed Deciduous	Even-Aged	No
<p><u>Prescription</u> <u>Specs:</u> <u>Next Step</u> Pesticide, Aerial - Release; Other, Pre-Commercial Thinning - Hand <u>Treatments:</u> <u>Acceptable</u> Planting of red pine at sufficient densities to ensure a fully stocked stand. <u>Regen:</u> <u>Other</u> Percent to Treat = 100% <u>Comment:</u> <u>Site Condition</u> Proposed Start Date: 10/1 /2022</p>										
30 72197030-Cut	102.9	42110 - Planted Red Pine	Sawtimber Well	81	81-110	Harvest	Clearcut with Retention	4211 - Planted Red Pine	Even-Aged	No
<p><u>Prescription</u> Harvest all trees >1" DBH. Use boundary retention to square up the treatment area. Avoid placing pocket mortality into retention. Include <u>Specs:</u> HRD mitigation specs. <u>Next Step</u> Planting, Initial Plant; SitePrep, Trenching; Pesticide, Aerial - Site Prep; SitePrep, Roller Chopping; Pesticide, Skidder - Site Prep; <u>Treatments:</u> Pesticide, Skidder - Release; Pesticide, Aerial - Release; Pesticide, HRD - Stump <u>Acceptable</u> Fully stocked planted red pine. <u>Regen:</u> <u>Other</u> <u>Comment:</u> <u>Site Condition</u> Proposed Start Date: 10/1 /2024</p>										



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Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
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Total Treatment Acreage Proposed: 577.6

Report 4 – Site Conditions

Grayling Mgt. Unit
Derek Nellis : Examiner

Compartment: 197
Year of Entry: 2025

Availability for Management

Total	Acres	Acres Avail	Acres
Acres	Available	With Condition	Not Available

Dominant Site Conditions

5E

345	345	0	0	Aspen	0
305	294	0	11	Herbaceous Openland	11
179	179	0	0	Jack Pine	
110	110	0	0	Mixed Upland Deciduous	
36	36	0	0	Natural Mixed Pines	
71	68	0	3	Northern Hardwood	3
369	369	0	0	Red Pine	0
72	72	0	0	Upland Mixed Forest	
79	76	0	3	Upland Shrub	3
8	8	0	0	Urban	
1,574	1,557		17	Total Forested Acres	17
	99%		1%	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	0	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
2	Unavailable	5E: Long-Term Retention	6	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
4	Unavailable	5E: Long-Term Retention	3	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

Grayling Mgt. Unit
Derek Nellis : Examiner

Compartment: 197
Year of Entry: 2025

5	Unavailable	5E: Long-Term Retention	5	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
6	Unavailable	5E: Long-Term Retention	1	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
7	Unavailable	5E: Long-Term Retention	1	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
8	Unavailable	5E: Long-Term Retention	1	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
9	Unavailable	5E: Long-Term Retention	1	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
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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.



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																									
1	4111 - S.Maple, Hard Mast Association	Sawtimber Well	16.7	78	81-110	N/A	South end heavier to red oak with white pine regen underneath. Self thinned with ash mortality.																																																									
<table border="1"> <thead> <tr> <th>Canopy Species</th> <th>% Cover</th> <th>Size Class</th> <th>DBH</th> <th>Age</th> </tr> </thead> <tbody> <tr> <td>Red Oak</td> <td>15</td> <td>Log</td> <td>13</td> <td></td> </tr> <tr> <td>Basswood</td> <td>30</td> <td>Log/Pole</td> <td>13</td> <td></td> </tr> <tr> <td>Sugar Maple</td> <td>40</td> <td>Log/Pole</td> <td>12</td> <td>78</td> </tr> <tr> <td>Red Maple</td> <td>15</td> <td>Pole/Log</td> <td>9</td> <td></td> </tr> </tbody> </table>		Canopy Species	% Cover	Size Class	DBH	Age	Red Oak	15	Log	13		Basswood	30	Log/Pole	13		Sugar Maple	40	Log/Pole	12	78	Red Maple	15	Pole/Log	9		<table border="1"> <thead> <tr> <th>Sub-Canopy Species</th> <th>Density</th> <th>Avg. Height</th> <th>Size</th> </tr> </thead> <tbody> <tr> <td>Beech</td> <td>Medium</td> <td>Variable</td> <td>Seeding</td> </tr> <tr> <td>White Ash</td> <td>Low</td> <td>Variable</td> <td>Seeding</td> </tr> <tr> <td>Ironwood</td> <td>High</td> <td>Variable</td> <td>Seeding</td> </tr> <tr> <td>Serviceberry (Juneberry)</td> <td>Medium</td> <td>Variable</td> <td>Seeding</td> </tr> </tbody> </table>		Sub-Canopy Species	Density	Avg. Height	Size	Beech	Medium	Variable	Seeding	White Ash	Low	Variable	Seeding	Ironwood	High	Variable	Seeding	Serviceberry (Juneberry)	Medium	Variable	Seeding	<p>Mixed hardwoods with sugar and red maple, basswood and oak. White ash stems are presents however all dead with heavy bird activity, a few beech present and looked to be clean as it pretains to BBD. Stand was thinned in 1996. Understory is heavy to ironwood with as well as overstory species listed above. Four BA swings were taken and stand ave was 85 species avs were 25 Sugar, 8 red maple, 22 oak, and 30 basswood. Stem quality is pretty good and I think this stand can go another 10 years before another treatment is needed. Stand is entirely PArVHa/PArVVb. Ground vegetation would not be listed due to snow.</p>															
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3	4199 - Other Mixed Upland Deciduous	Poletimber Well	15.9	35	51-80	N/A	Stand is pole size, lower end of dbh, with a mixture of hardwood species. Red pine is present in the pole and log sizes, must of been left from previous harvest. Understory fairly open. Stand is primarily PArVHa/PArVVb, along the north boundary transitions into PArVVb.																																																									
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4	4116 - Mixed N. Hardwood - Aspen	Sapling Medium	25.2	7	Immature	N/A	Stand is filling in with mostly red maple. Stand was harvested in 2015/16 under Tower Hill Rd Contract 72-017-15-01. Mature oak stand with BA of 70. Understory well developed advanced regen of maple and oak. Stand was thinned back in the mid 90's. Stand is of fair quality, could go another 10 years, if not then final harvest. Stand is entirely PArVHa/PArVVb. Ground vegetation would not be listed due to snow.																																																									
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6	310 - Herbaceous Openland	Nonstocked	85.9	0		4211 - Planted Red Pine	C72-747 chopped 2014, trenched & herbicided (helicopter) 2015, planted to RP 2016. Yr 1 regen survey found 538 RP & 1,078 C per acre. Site prep sprayed again by helicopter Sept 2018. Re-planted w/ top-pruned 4-0 bareroot RP in May 2019. Yr 1 regen survey October 2019: 25% mortality, 99% FTG, 746 TPA. Trenches are filled in, but sedge is still dead. Some damage due to release spray, with higher % mortality located in the SW corner of stand. Sept 2020 contract Yr 2 regen survey found 44% mortality, 98% FTG, 558 TPA. Re-planted with 586 TPA PRT RP in May 2021, bringing total TPA up to 1114. Reset the planted RP age to this year's stock, but there is a second older class. Sept 2021 Yr 1 survey: 854 TPA, 97% FTG, 16% mortality.																																																									
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7	4112 - Maple, Beech, Cherry Association	Sapling Well	14.2	12	Immature	N/A	Trace amounts of red pine sapling around trail. Young stand regenerating to red maple with some aspen, oak, and cherry. Stand is primarily PARVHa/PArVVb, northern third is PARVVb.																																													
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8	310 - Herbaceous Openland	Nonstocked	0.8			No																																														
9	42110 - Planted Red Pine	Sawtimber Well	1.9	84	81-110	N/A	Small island of red pine log size, thinned in the mid 90's. Stand is entirely PARVVb.																																													
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10	4130 - Aspen	Sapling Well	40.6	36	51-80	N/A	Road traverses the northern 1/3 of the stand along with a well access road leading south to a well pad. Stand of mixed aspen, oak and maple with scattered red pine. Stand is upper sapling size with some pole sized stems. Stand is primarily PARVHa/PArVVb, the southern eastern portion PARVVb.																																													
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11	4139 - Aspen, Mixed Deciduous	Poletimber Well	40.9	36	81-110	N/A	Pole sized aspen/maple stand with some oak. Island of red pine left in middle (STAND9). Stand is primarily PARVVb with the middle portion being PARVHa/PArVVb.																																													
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12	42120 - Planted Jack Pine	Sapling Well	21.7	26		N/A	Stand was planted in 1996 to jack pine, stand is doing well a couple of small pockets of aspen mixed within. Stand is entirely PARVHa/PArVVb.																																													
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14	4130 - Aspen	Sapling Well	13.7	18	Immature	N/A	Young aspen stand regenerating pretty well. The site has been planted to Jack Pine. Stand final harvested under tsale contract #720030501. FTP submitted for stand-C72-601. Jack Pine planted May, 2010 per C72-601. Didn't list stand as a plantation as the planted jack pine is still in the sub-canopy, site is dominated aspen at point in time. Stand is primarily PARVvb, a small portion of the stand is PARVHa/PArVVb. Ground vegetation would not be listed due to snow. JC update: C72-601 has been closed. Year 3 regen survey found less than moderate stocking in planted JP, with high stem densities in deciduous competition. The dominant natural regen was accepted through the 2015 YOE Review process. Updated JP age only based on treatment record.																																										
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15	4112 - Maple, Beech, Cherry Association	Sapling Medium	14.8	12	Immature	N/A	Stand cut in 2010/, regenerating to a maple stand w/oak, cherry and aspen. Stand is entirely PARVHa/PArVVb, with east and west edges being PARVVb.																																										
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17	42111 - Planted Red Pine, Mixed Deciduous	Sawtimber Well	120.7	84	81-110	N/A	Advanced hardwood regeneration in filling in throughout the stand. Thinned r pine plantation of good form and quality. Stand is half PARVHa/PArVVb and PARVVb. Ground vegetation would not be listed due to snow.																																										
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18	4132 - Aspen, Jack Pine	Sapling Well	49.1	26	1-50	N/A	Mixed stand of hwd and j pine. Southern portion of stand has larger scattered j pine and aspen but is included with this stand. Old OI notes the stand was planted in 1996 however, it seems that aspen has over taken the planting. Stand is entirely PARVHa/PArVVb. Ground vegetation would not be listed due to snow.																																										
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19	42110 - Planted Red Pine	Sawtimber Well	2.6	84	81-110	N/A	Small stand of red pine left for what appears to be a visual screen for adjacent cc. Stand is entirely PARVVb.																																										
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																		
21	4311 - Pine, Aspen Mix	Poletimber Well	54.9	52		N/A	Stand is primarily pole/sap aspen and jack pine with oak and maple mixed in. There are llog sized jpine, wpine and oak scattered about of BA < 20. Was planted as jpine however aspen is equally mixed in where jpine wqs planted so I didn't call this a plantation. Stand is entirely PARVHa/PArVVb. Ground vegetation would not be listed due to snow.																																																		
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22	110 - Low Intensity Urban	Nonstocked	3.0			No	Military Road																																																		
24	42220 - Natural Jack Pine	Poletimber Medium	14.2	57	1-50	N/A	Stand is low density jack pine and mixed hardwoods Stand is primarily PARVHa/PArVVb, along the north boundary it is PARVCo. Forest road to access well site along the western edge.																																																		
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25	4130 - Aspen	Poletimber Well	55.3	52		N/A	Aspen stand should be ready for harvest in next cycle of inventory. Scattered log sized oak throughout. Some of the larger aspen have started to fall down, that size class is a low percentage. Stand is entirely PARVHa/PArVVb.																																																		
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26	42111 - Planted Red Pine, Mixed Deciduous	Sapling Well	15.7	26	Immature	N/A	Stand was planted in 1996 following salvage harvest. Good natural regen of oak. Stand is primarily PARVHa/PArVVb and the middle portion along the southern boundary is PARVVb.																																																		
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27	4139 - Aspen, Mixed Deciduous	Sapling Medium	63.3	14	Immature	N/A	Aspen and red maple sapling stand. Minor components of cherry, oak, and red pine. Very young stand regenerating to r maple, aspen cherry. Stand is primarily PARVHa/PArVVb, in the NW corner along the private line is PARVVb. Ground vegetation would not be listed due to snow.																																																		
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28	4130 - Aspen	Sapling Well	5.1	31		N/A	Yong stand of aspen. Stand is entirely PARVHa/PARVvb.																																														
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29	310 - Herbaceous Openland	Nonstocked	209.6	0		4211 - Planted Red Pine	Red pine visible above snow pack. Red maple, cherry, and oak competition. Mature RP plantation was final harvested with retention in 2017 (#18-15). Was aerial sprayed August 2018 (C72-840), & trenced Sept 2018. Planted w/ top-pruned 4-0 bare-root RP in May 2019. Recon July 2019 found 17% mortality, 14% no bud-break, 14% feeble shoot growth; appeared largely due to poor root development. Oct 2019 regen survey found 24.3% mortality, 718 TPA. Most of the seedlings with buds that didn't break or developed poorly had set lateral buds around the now-dead buds or shoots. Still clearly greater than 80% FTG, so not quantified. Sept 2020 contract Yr 2 regen survey found 25% mortality, 77% FTG, 645 TPA. Re-planted with 253 TPA PRT RP in April 2021, bringing total TPA up to 967. Left the planted RP age set to the initial stock, but there is a second younger age class. Sept 2021 Yr 1 survey: 724 TPA, 83% FTG, 19.7% mortality. BC is primary competitor.																																														
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30	42110 - Planted Red Pine	Sawtimber Well	102.9	81	81-110	N/A	Heavy hardwood regen throughout. Mature red pine stand, northern portion is where the other species occur the most. Understory is heavy to red maple. Treat stand during next inventory cycle. Stand is primarily PARVHa/PARVvb, eastern edge is PVCd. Ground vegetation would not be listed due to snow.																																														
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31	4311 - Pine, Aspen Mix	Sapling Well	7.8	25	Immature	N/A	Young stand of mixed aspen jack pine, and oak. Stand is split between PARVHa/PARVvb																																														
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32	4310 - Pine, Oak Mix	Sapling Medium	9.6	6	Immature	N/A	Sale was harvested in Fall/winter of 2017 under contract 72--035-15-01.																																														
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																														
33	42210 - Natural Red Pine	Sawtimber Well	12.3	81	51-80	N/A	Northern portion of stand is primarily jack pine oak with a small aspen clone and some large red pine scattered about. Southern half is large red pine left for a visual screen when adjacent red pine was thinned.																																														
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34	42120 - Planted Jack Pine	Sapling Well	12.7	32	Immature	N/A	Stand contains a few pockets of aspen. CUT IN LATE 80's "End of Oak Block" #0448501, planted in 1991. Old SI used. Has a row of red pine or two in it. There are a couple of pockets of aspen included with this stand did not delineate out as they are the same age as plantation and would be treated when this stand is mature. Stand is primarily PVCd. Ground vegetation would not be listed due to snow.																																														
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35	4130 - Aspen	Sapling Well	17.0	15	Immature	N/A	Stand harvested TS-720060501 "7-mile mix" 4.5 inches and up harvested. Young regenerating stand containing aspen, oak and maple. Stand is PARVHa/PARVVb. Ground vegetation would not be listed due to snow.																																														
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36	320 - Upland Shrub	Nonstocked	47.7	0	Unspecified	No	Stand harvested in Fall/winter of 2017 under contract 72-035-15-01, One Eyed Jack King Rd Aspen. Stand is a mixture of big and q aspen, oak and maple. There is some scattered pine component. In areas q aspen is developing conks, however b aspen is looking good. Oak is poor to fair quality, Northern portion of stand has larger DBH and better quality. Previous OI notes this stand was held for age class distribution. There is a pocket of about 4 acres that was harvested TS-720060501 "7-mile mix" in 2007, this pocket is included with this stand. Stand is entirely PARVHa/PARVVb. Ground vegetation would not be listed due to snow.																																														
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37	42110 - Planted Red Pine	Sapling Well	10.6	31	Immature	N/A	Red pine plantation with some oak, cherry, aspen and j pine mixed in the stand. Stand is upper end of sapling. Stand is primarily PARVHa/PARVVb with a small portion of stand having PVCd in the NE corner.																																														
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments	
38	4130 - Aspen	Poletimber Well	18.4	36	51-80	N/A	Young aspen stand harvested in the 1986. Few red pine scattered throughout the stand. Surrounding area is a red pine plantation that was planted around this stand. Stand is primarily PARVHa/PArVVb with a small portion of stand having PVCd in the NE corner.	
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		
Black Cherry		3	Pole/Sapling	5		Red Pine		
Red Maple		3	Pole/Sapling	5		Jack Pine		
Northern Pin Oak		4	Pole/Sapling	5		Aspen (spp.)		
Quaking Aspen		90	Pole/Sapling	6	36	Oak (spp.)		
						Cherry (spp.)		
39	42110 - Planted Red Pine	Sapling Well	48.4	31	Immature	N/A	Red pine plantation with some oak, cherry, aspen and j pine mixed in the stand. Stand is upper end of sapling. There are some pockets of aspen with in this stand that were planted around. Stand is primarily PARVHa/PArVVb with vein of PVCd running from south boundary to the north in the western third of stand.	
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		
Northern Pin Oak		2	Sapling	3		Aspen (spp.)		
Red Pine		89	Sapling/Pole	4	31	Oak (spp.)		
Black Cherry		2	Sapling/Pole	4		Cherry (spp.)		
Quaking Aspen		3	Pole/Sapling	6				
Jack Pine		4	Sapling/Pole	4				
40	42120 - Planted Jack Pine	Sapling Well	130.4	31	Immature	N/A	CUT IN LATE 80's "End of Oak Block" #0448501, planted in 1991. Includes a 4 acre patch of larger Jack pine that may have been left when harvested last time. Stand is primarily PARVHa/PArVVb, the southern quarter is PARVVb and the north western portion has a vein of PVCd.	
Canopy Species		% Cover	Size Class	DBH	Age			
Northern Pin Oak		2	Sapling	3				
Jack Pine		96	Sapling	4	31			
Red Maple		2	Sapling	3				
41	4130 - Aspen	Poletimber Well	7.3	36	81-110	N/A	Young aspen stand harvested in the 1986/87. Few red pine scattered throughout the stand. Surrounding area is a red pine plantation that was planted around this stand. Stand is entirely PARVHa/PArVVb.	
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		
Red Pine		3	Log/XLog	13		Red Pine		
Black Cherry		3	Pole/Sapling	6		Jack Pine		
Quaking Aspen		90	Pole/Sapling	6	36	Aspen (spp.)		
Northern Pin Oak		4	Pole/Sapling	6		Cherry (spp.)		
						Oak (spp.)		
42	42110 - Planted Red Pine	Sapling Well	10.8	31	Immature	N/A	Stand was planted to red pine in 1991. Stand is primarily PARVHa/PArVVb except for the southern quarter is PVCd.	
Canopy Species		% Cover	Size Class	DBH	Age			
Red Pine		100	Sapling/Pole	4	31			



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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43 4191 - Mixed Upland Deciduous with Conifer Sapling Well 74.0 21 Immature N/A Young stand with a mixture of hardwoods and jack pine. There are pole and log sized oak and jack pine totaling less than 10 BA combined.

Canopy Species	% Cover	Size Class	DBH	Age
Quaking Aspen	31	Sapling	3	21
Northern Pin Oak	3	Log	12	
Jack Pine	26	Sapling	3	21
Jack Pine	3	Log	10	
Northern Pin Oak	10	Sapling	3	
Red Maple	10	Sapling	2	
Black Cherry	17	Sapling	2	

Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	Low	< 5 feet	Seeding
Oak (spp.)	Medium	< 5 feet	Seeding
Cherry (spp.)	Medium	< 5 feet	Seeding

44 42290 - Natural Mixed Pine Poletimber Well 36.1 71 81-110 N/A Stand is a mixture of jack pine size classes, primarily pole but areas with heavy sapling and there is a fair amount of log size as well. Red pine is also present in various size classes. Oak is present in sub canopy. Stand is half PVCd and PARVHa/PARVVb.

Canopy Species	% Cover	Size Class	DBH	Age
Jack Pine	45	Pole/Sap/Log	9	71
White Oak	5	Log/Pole	10	
Northern Pin Oak	10	Log	12	
Red Pine	40	Log/Pole	12	

Sub-Canopy Species	Density	Avg. Height	Size
Jack Pine	Medium	Variable	Sapling
Oak (spp.)	Medium	Variable	Sapling

45 4191 - Mixed Upland Deciduous with Conifer Sapling Well 20.4 16 Immature N/A Stand harvested during summer of 2006-timber sale 72-001-05-01. All jack pine and aspen was removed leaving oak and red pine as residual. The stand is primarily r pine with scattered oak and maple. Several r pine in excess of 20" dbh. Southern portion of stand is more refrctive of a clear cut with good oak regen. There are pockets of young aspen regen scattered thru out stand. There is about 30 sqft of residual BA of oak, r pine and r maple. There is a home in the SE corner. Stand is entirely PARVHa/PARVVb.

Canopy Species	% Cover	Size Class	DBH	Age
Northern Pin Oak	30	Sapling	2	16
Red Pine	10	Log/Pole/XLog	15	
Red Maple	5	Log/Pole	11	
Northern Pin Oak	5	Log/Pole/XLog	13	
Jack Pine	15	Sapling/Pole	3	

Sub-Canopy Species	Density	Avg. Height	Size
Jack Pine	Low	< 5 feet	Seeding
Red Maple	Low	< 5 feet	Seeding
Cherry (spp.)	Low	Variable	Sapling
Oak (spp.)	Medium	< 5 feet	Seeding

47 4131 - Aspen, Oak Sapling Medium 34.0 17 Immature N/A Prior to last harvest stand was an R9, it was decided that this stand would be allowed to convert to aspen management. Young stand of aspen with a fair component of red maple. Log size red pine are scattered throughout the stand. There some areas of the stand with very sparse regen, this could be a result of heavy deer browse as the stand did show signs of heavy deer use. There are a couple of well sites in close proximity to this stand as well. Stand is entirely PARVHa/PARVVb.

Canopy Species	% Cover	Size Class	DBH	Age
Red Maple	30	Sapling	1	17
Black/Red (Hybrid) Oak	10	Sapling	1	17
White Oak	10	Pole/Sap/Log	6	
Quaking Aspen	50	Sapling	2	17

Cultivation update: this portion of the original stand 6 was not prescribed for artificial regen. Inadvertently wiped all of stand 6 canopy data during FTCR updates; roughed-in the species listing from comments (JC).

48 110 - Low Intensity Urban Nonstocked 5.3 0 No Cleared county road and pipeline corridors.



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
127	42110 - Planted Red Pine	Sapling Medium	42.7	8	Immature	N/A	Was final harvested by 2007 (#024-05). C72-563 burn FTP cancelled. C72-564 roller-chopped and trenched 2013, planted 2014, supplemental planted 2015 and release herbicided 2015. Yr 1 regen survey found 843 RP & 1,729 MCA. Yr 3 regen survey found 729 RP & 967 MC. FTP treatment sequence complete.
	Canopy Species	% Cover	Size Class	DBH	Age		
	Red Pine	90	Sapling	2	8		
	Black Cherry	10	Sapling	1			
400	3102 - Grass	Nonstocked	1.5				Producing Oil Well Breit Burn Well Site State Beaver Creek Well # D4-15 Permit # 55030
401	3102 - Grass	Nonstocked	1.7			No	Inactive well site. Plugged 12/23/1985 Miller Brothers State Beaver Creek Well # 1-15 Permit # 34660
402	3102 - Grass	Nonstocked	1.4				Breitburn Well site. Producing Oil Well State Beaver Creek Well # D2-15 Permit # 55045
403	3102 - Grass	Nonstocked	1.3				Producing Oil Well, Breitburn Well Site. State Beaver Creek Well # C1-15 Permit # 55037
404	3102 - Grass	Nonstocked	1.4				Producing Oil Well Breitburn well site. State Beaver Creek Well # C3-15 Permit # 55038
405	3102 - Grass	Nonstocked	1.3				Producing Oil Well Breitburn Well Site State Beaver Creek Well # B2-15 Permit # 55044