



Compartment Review Presentation

Grayling Forest Management Unit

Compartment 72225

Entry Year 2025

Acreage: 955

County Crawford

Management Area: High Sand Plains

Stand Examiner: Scott McClarren

Legal Description:

T25N, R3W Sections 7, 8 and 9.

Identified Planning Goals:

The primary management objective is to maintain stands within this compartment for species and structural diversity, health, productivity and sustainability while managing for multiple use and visual management.

Soil and topography:

The topography within this compartment is primarily flat along its very north edge and becomes rolling, hilly terrain throughout the rest of the compartment. The soils within this compartment include Grayling, Graycalm, Graycalm-Grayling, Graycalm-Klacking complex Sands and Klacking Loamy Sands.

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

State ownership within this compartment consists of three large, contiguous blocks and one small block of land bisected by US-27 and I-75 right-of-ways. Much of the state land in this area is also bordered by permanent and seasonal residences. Two major highways traverse through this compartment (US-127 and I-75) creating a heavy travel influence zone.

Unique Natural Features:

This compartment contains or has the potential to contain the following threatened or endangered plants and animals: Hill's Thistle, Rough fescue, Alleghany Plum, Grizzled skipper, Dusted skipper and the Red legged Spittle bug.

Archeological, Historical, and Cultural Features:

There are known concerns within the compartment. All proposed management activities have taken these concerns into consideration.

Special Management Designations or Considerations:

Visual management along the I-75 and US-127 corridors is a primary consideration.

Watershed and Fisheries Considerations:

None

Wildlife Habitat Considerations:

Maintain habitat for deer, grouse, bear and wild turkey.

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, which is quarried for gypsum elsewhere in the State. A gravel pit is located in Section 16 and its potential is thought to be good on the upland areas. Section 7 is leased for oil and gas. The nearest production is Beaver Creek Field, located five miles to the southwest. The field has produced over 21 MBO from the Devonian Richfield and over 5 Bcf gas from the Ordovician Prairie du Chien. Quicksilver is currently drilling new wells in the Detroit River 3 Zone. One or two of these wells may be drilled within the compartment.

Vehicle Access:

County roads of Old US-127, Oak Road, 5 Mile Road, Skyline Road and Merrio Road are the primary access roads for the compartment. There are several two track roads that leave these primary access roads into portions of the compartment. No existing roads need to be closed at this time. All new roads created through management activities are to be closed upon completion.

Survey Needs:

None.

Recreational Facilities and Opportunities:

There are many dispersed recreational opportunities in this compartment including hunting, mushrooming and bird watching.

Fire Protection:

This compartment falls within the protection area of the Grayling DNR Forest Management Unit and the Beaver Creek Volunteer Fire Department. The water supply for fire suppression effort is provided by the Beaver Creek Volunteer Fire Department which has several dry hydrants in the surrounding area. The fire department is also located only one mile from the south side of the compartment.

Additional Compartment Information:

The following reports from the Inventory are attached:

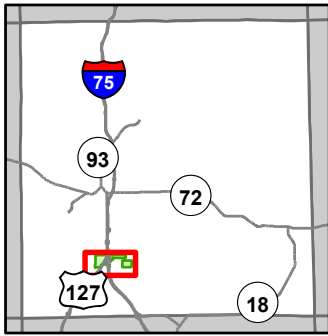
- Total Acres by Cover Type and Age Class**
- Cover Type by Harvest Method**
- Proposed Treatments – No Limiting Factors**
- Proposed Treatments – With Limiting Factors**
- Stand Details (Forested and Nonforested)**
- Dedicated and Proposed Special Conservation Areas**
- Site Condition Details**

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

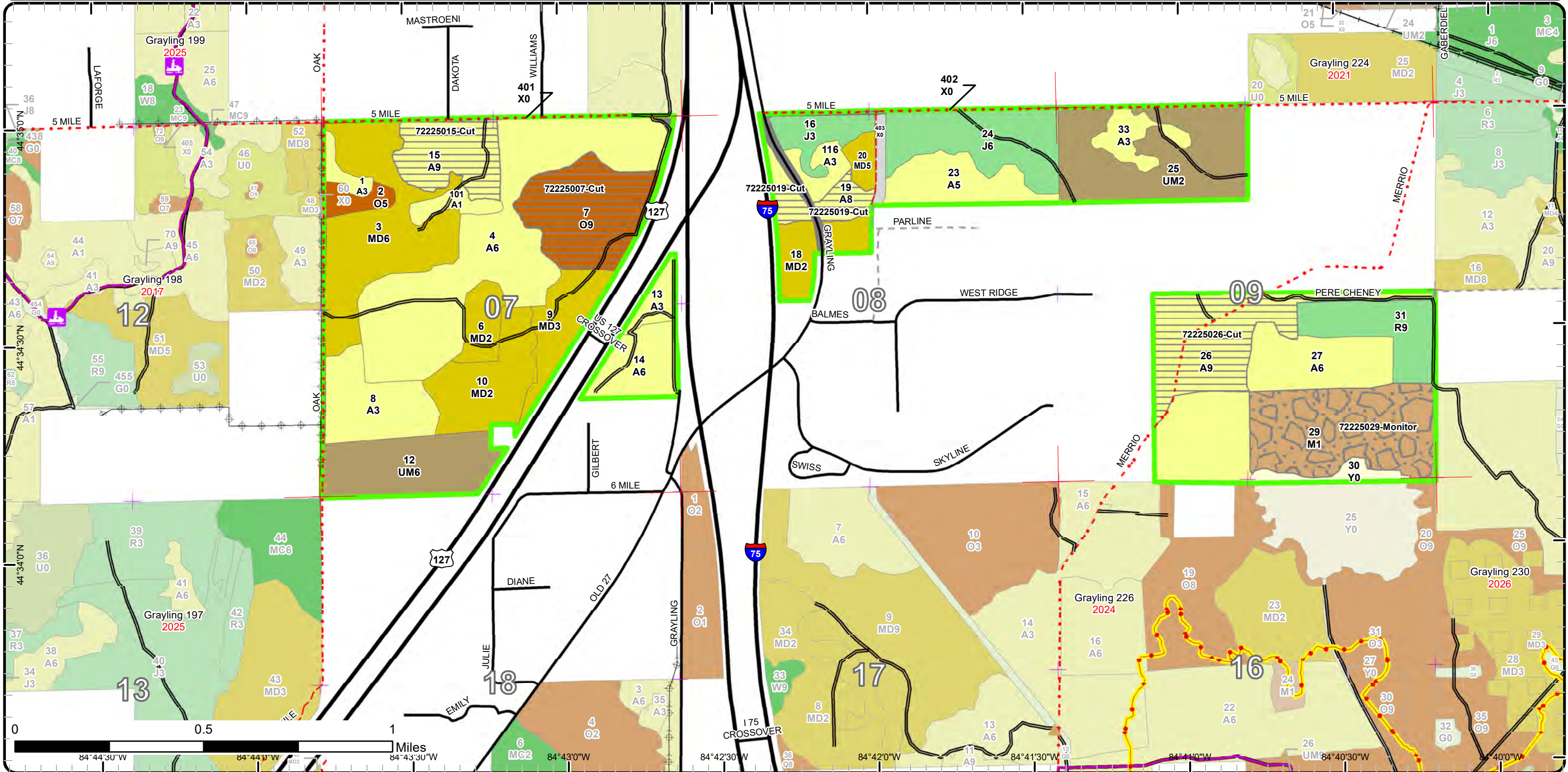
- Base feature information, stand boundaries, cover types, and numbers**
- Proposed treatments**
- Site condition boundaries**
- Details on the road access system**

Cover Type & Treatments Map

Compartment: 225
 T25N, R03W, Sec. 07-09
 County: Crawford
 Unit: Grayling
 Mgmt Area: High Sand Plains
 YOE: 2025
 Acres: 954.8 GIS Calculated
 Examiner: Scott McClarren
 Map Revised: 11/28/2023
 Map Phase: Post-Maps

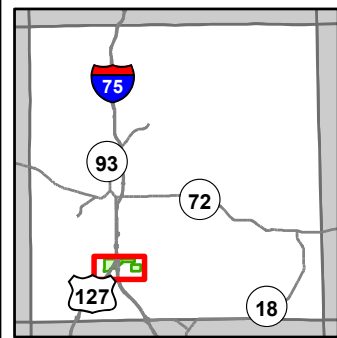


- Miris Corners
- + Remonumented Section Corners
- Counties
- DNR - Secondary Forest Road
- Federal / State Highway
- Federal / State / County - Paved Road
- County - Gravel Road
- County - Dirt Road (Seasonal)
- Private - Dirt / Gravel Road
- Active Railroads
- Snowmobile Trails
- ORV License & Trail Permit
- - - Designated ORV Route
- Designated Snowmobile Trails
- Michigan Cross Country Cycle Trail (MCCCT)
- ▲ Berms
- + Powerline
- Compartment Boundary
- Clearcut (w/Reserves)
- Regeneration Survey
- 411 - Northern Hardwood
- 412 - Oak Types
- 413 - Aspen
- 419 - Mixed Upland Deciduous
- 421 - Planted Pines
- 430 - Upland Mixed Forest
- 110 - Low Intensity Urban
- 122 - Roads/Parking Lot
- 710 - Sand/Soil

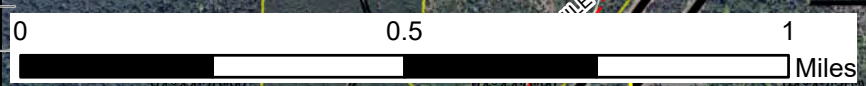
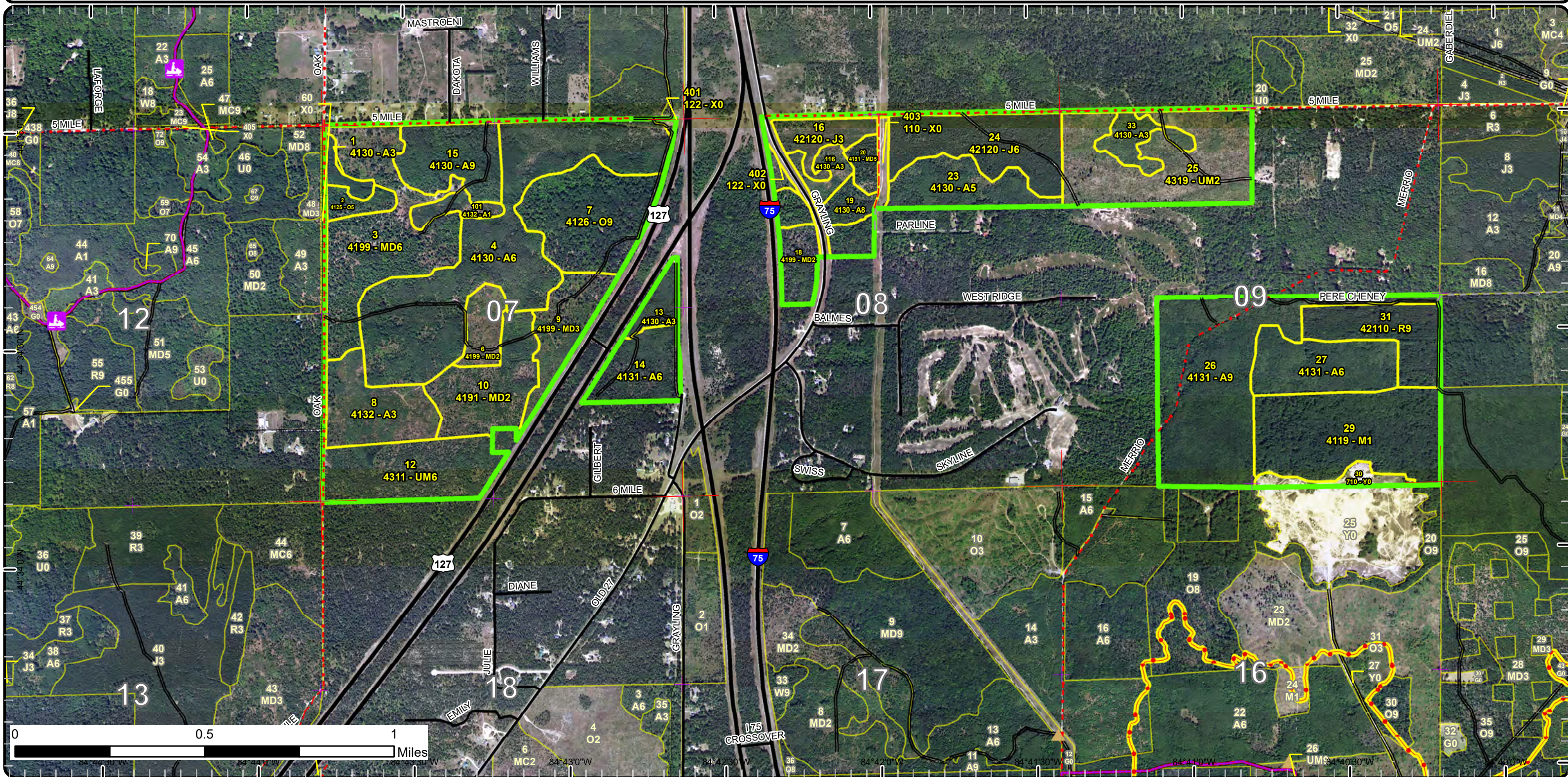


Stand Boundary Map

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 T25N, R03W, Sec. 07-09
 County: Crawford
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84°43'0"W
84°42'30"W
84°42'0"W
84°41'30"W
84°41'0"W
84°40'30"W
84°40'0"W



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	79	24	185	0	126	13	0	0	0	0	0	0	0	0	0	0	427
Jack Pine	0	0	14	0	44	0	0	0	0	0	0	0	0	0	0	0	0	0	58
Mixed Upland Deciduous	0	20	37	105	6	0	0	0	0	0	0	0	0	0	0	0	0	0	168
Northern Hardwood	0	70	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	70
Oak	0	0	0	0	0	7	0	0	0	0	0	51	0	0	0	0	0	0	58
Red Pine	0	0	0	0	0	0	0	31	0	0	0	0	0	0	0	0	0	0	31
Sand, Soil	8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	8
Upland Mixed Forest	0	0	66	0	45	0	0	0	0	0	0	0	0	0	0	0	0	0	111
Urban	23	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	23
Total	31	90	196	129	280	7	126	44	0	0	0	51	0	0	0	0	0	0	954



Report 2 – Treatment Summary

Grayling Mgt. Unit

Year of Entry: 2025

Acres of Harvest

Compartment 225

Total Compartment Acres: 955

Commercial Harvest - 153
 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	102	0	0	0	0	0	0	0	0	102
Oak	51	0	0	0	0	0	0	0	0	51
Total	153	0	0	0	0	0	0	0	0	153

Proposed and Next Step Treatments by Method

	Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current	153	0	0	0	0	0	70	0	0	224
Next Step	0	0	0	0	0	0	153	0	0	153
Total	153	0	0	0	0	0	224	0	0	377



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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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Approved Treatments:

7	72225007-Cut	51.0	4126 - White, Black, N. Pin Oak	Sawtimber Well	105	81-110	Harvest	Clearcut with Retention	412 - Oak Types	Even-Aged	No
<p><u>Prescription</u> Harvest all stems 2" and greater except, do not cut white oak. Follow standard retention guidelines, but don't put retention within a tree length of power line. Include grouse drumming tree spec. Include hard oak wilt restrictions to protect white oak residuals.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> Oak is the objective. Aspen and pine will also be acceptable.</p> <p><u>Regen:</u></p> <p><u>Other</u></p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2024</p>											
15	72225015-Cut	30.9	4130 - Aspen	Sawtimber Well	52	111-140	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	No
<p><u>Prescription</u> Harvest all stems 2" and greater. Follow standard retention guidelines. Include drumming log and shrub protection specs.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> Aspen objective. Oak, maple, and pine will also be counted as acceptable species.</p> <p><u>Regen:</u></p> <p><u>Other</u> Consider leaving some retention near 5 Mile Road for aesthetics.</p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2024</p>											
19	72225019-Cut	13.2	4130 - Aspen	Sawtimber Medium	61	51-80	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	No
<p><u>Prescription</u> Harvest all stems greater than 2". Follow standard retention guidelines. Include drumming log and shrub protection specs.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> Aspen is goal but, will accept oak, maple, and beech as well.</p> <p><u>Regen:</u></p> <p><u>Other</u></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
26 72225026-Cut	58.1	4131 - Aspen, Oak	Sawtimber Well	52	111-140	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	No
<p><u>Prescription</u> Harvest all stems 2" and greater. Follow standard retention guidelines. Include soft oak wilt restrictions. Include drumming log spec. <u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory) <u>Treatments:</u></p> <p><u>Acceptable Regen:</u> Fully stocked aspen. Oak, pine, and maple are also acceptable species.</p> <p><u>Other Comment:</u> Do not leave retention in thin strip between stand 31 and private. South half of stand has been delayed, alleviating green up concerns while allowing red oak to put on growth.</p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2024</p>										
29 72225029-Monitor	70.3	4119 - Mixed Northern Hardwoods	Sapling Poor	5	1-50	Monitoring	Natural Regen (Re-Inventory)	4199 - Other Mixed Upland Deciduous	Two-Aged	No
<p><u>Prescription</u> Check regen <u>Specs:</u></p> <p><u>Next Step</u> <u>Treatments:</u></p> <p><u>Acceptable Regen:</u> Acceptable regeneration is mix of oak, aspen, maple and conifer in moderate to fully stocked stand.</p> <p><u>Other Comment:</u> Stand had desirable regen but, was under 6' and couldn't be counted.</p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2032</p>										

Total Treatment 223.5
Acres Proposed:

Report 4 – Site Conditions

Grayling Mgt. Unit
Scott McClarren : Examiner

Compartment: 225
Year of Entry: 2025

Availability for Management

Total Acres	Acres Available	Acres Avail		Dominant Site Conditions	5C	5E
		With Condition	Not Available			
426	389	37	0	Aspen	37	0
58	56	0	2	Jack Pine		2
169	168	0	1	Mixed Upland Deciduous		1
70	64	0	7	Northern Hardwood		7
58	58	0	0	Oak		
31	31	0	0	Red Pine		
8	8	0	0	Sand, Soil		
111	111	0	0	Upland Mixed Forest		
23	23	0	0	Urban		
955	908	37	10	Total Forested Acres	37	10
	95%	4%	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	6	3G: Other Influence zones - See comments	Unspecified	Unspecified	Unspecified
Comments: Stand abuts a gravel pit, retention was left along the bluff of the gravel pit to restrict orv's from climbing hills or entering pit from the stand.							
2	Unavailable	5E: Long-Term Retention	1	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
3	Unavailable	5E: Long-Term Retention	1	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

Grayling Mgt. Unit

Scott McClarren : Examiner

Compartment: 225

Year of Entry: 2025

4	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	37	Unspecified	Unspecified	Unspecified	Unspecified
Comments: This portion of stand is dominated by red oak and healthy big tooth aspen. Hold stand to allow oak to put on more growth as well as allowing for green up of adjacent cut stand 29.							
5	Unavailable	5E: Long-Term Retention	2	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Designated as retention during 2025 inventory. Sale indicates it was left for visual management when cut (stands 16 and 32).							
6	Unavailable	3G: Other Influence zones - See comments	4	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Parcel is between I-75 ROW and private, small parcel, not commercially viable. Recommend for disposal.							

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.

Conservation Area	Type	Description	ERA = Ecological Reference Area	HCVA = High Conservation Value Area	SCA = Special Conservation Area
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments			
1	4130 - Aspen	Sapling Well	5.1	17	Immature	N/A	Stand harvested in 2006 under Fox Run South #72-041-05. Old comments: Open stand of mixed upland species. Areas were harvested in 2006 used those records for stand age. Stand does not have significant amounts of larger trees to warrant BA, this stand is coming out of Non-Forested to Forested classification. Stand is primarily PARVHa/PARVVb, along north boundary PARVVb and a small chunk along west line is PARVHa. Ground vegetation would not be listed due to snow.			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size
Bigtooth Aspen		95	Sapling	3	17	Red Maple		Medium	Variable	Sapling
Red Maple		3	Sapling	3		White Oak		Medium	< 5 feet	Sapling
Black Cherry		2	Sapling	3		Witch Hazel		Low	5 - 10 feet	Tall Shrub
2	4125 - Black, N. Pin Oak	Poletimber Medium	7.3	48	51-80	N/A	Stand is open with primarily pole size stem, few log trees scattered. Mixed hwd and conifer. Timber sale 72-041-05-01, Fox Run South. Cut by Chris Muma Forest Products in 2006.. Stand is half PARVHa/PARVVb and PARVHa. Ground vegetation would not be listed due to snow.			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size
Red Maple		10	Pole	7		White Pine		Low	< 5 feet	Sapling
White Oak		15	Pole	7		Red Maple		Low	Variable	Sapling
White Pine		8	Log/Pole	11		White Oak		High	Variable	Sapling
Red Pine		2	Log/Pole	11		Black Cherry		Low	Variable	Sapling
Black/Red (Hybrid) Oak		47	Pole	8	48					
Bigtooth Aspen		18	Pole	8						
3	4199 - Other Mixed Upland Deciduous	Poletimber Well	68.4	26	1-50	N/A	Merged stand part of 1 into stand 3 due to similar management. Smaller stands cut in 2006 were split into stands 1 and 101. Stand has a lot of openings with dense oak regen. Scattered pole size oak and saw size white pine throughout. Old Comments: Young aspen stand with oak and maple, nice looking stand. Stand cut in 96/97, left oak and pine 6 inches DBH and smaller and buffer part of stand along Oak Rd. Stand is primarily PARVHa/PARVVb, there are two small areas one is PVCd and the other is PVCd/PARVHa of stand that is PARVVb. Ground vegetation would not be listed due to snow.			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size
Red Pine		2	Pole/Log	9		Red Maple		Medium	Variable	Sapling
White Oak		15	Sapling/Pole	4		Black Cherry		Low	< 5 feet	Sapling
Jack Pine		3	Pole/Sapling	5		Black/Red (Hybrid) Oak		Medium	Variable	Sapling
Black/Red (Hybrid) Oak		33	Pole/Sapling	5	26	White Oak		Medium	Variable	Sapling
Bigtooth Aspen		20	Pole/Sapling	5		White Pine		Low	5 - 10 feet	Sapling
Black Cherry		5	Pole/Sapling	5						
Red Maple		15	Pole/Sapling	5						
White Pine		7	Log/Pole	10						
4	4130 - Aspen	Poletimber Well	121.2	36	51-80	N/A	Stand 5 merged with stand 4 due to past treatments. Old comments: Mixed aspen with oak and other assorted species. pole size with log and sap stem poor to medium quality. western portion a bit larger in dbh and better quality. Stand is primarily PARVHa/PARVVb, along the north boundary it is PARVVb. Ground vegetation would not be listed due to snow. Stand 5 comments: Nice sapling sized stand with good stem densities. Remnant pole to small log sized trees scattered about CLEARCUT IN 6/87- SALE #036-86-1. Stand is primarily PARVHa/PARVVb, there is a small portion of stand that is PARVVb. Ground vegetation would not be listed due to snow.			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size
Bigtooth Aspen		45	Pole	6	36	Hawthorn (spp.)		Low	Variable	Tall Shrub
Quaking Aspen		40	Pole	7		Black Cherry		Low	Variable	Sapling
Jack Pine		7	Pole	7		White Oak		Medium	Variable	Sapling
White Pine		3	Log/Pole	10		Red Maple		Medium	Variable	Sapling
Northern Pin Oak		5	Pole	7						



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																													
6	4199 - Other Mixed Upland Deciduous	Sapling Medium	12.9	17	Immature	N/A	There's a lot of heavily browsed oak under 5'. Aspen mostly in north. Old comments- Timber sale 72-041-05-01, Fox Run South. Cut by Chris Muma Forest Products in 2006. Stand is regenerating to nice stand of oak, maple. Stand is primarily PARVHa/PArVVb. Ground vegetation would not be listed due to snow.																																													
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7	4126 - White, Black, N. Pin Oak	Sawtimber Well	51.0	105	81-110	N/A	Aspen/maple removal around 1999 under Applejack & Oak II #72-024-99. Red maple and oak understory. Pockets of oak over 5' but, most of oak is under and over topped by maple. More white oak in overstory in the east.																																													
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<p>Mature oak stand of fair to good quality oak. Understory is a nice mixture of oak and maple regen. Six BZ swings were taken by oak 80, maple 10. Stand has a nice large pole small sawlog size class. Stand is primarily PARVHa/PArVVb, there are small portions of the stand that are PARVVb and PVCd/PArVHa. Ground vegetation would not be listed due to snow.</p>																																																				
8	4132 - Aspen, Jack Pine	Sapling Well	33.4	17	Immature	N/A	Dense jp pockets with small openings in east portion of stand. Old Comments- Timber sale 72-041-05-01, Fox Run South. Cut by Chris Muma Forest Products in 2006. The stand is naturally regenerating to a vigorous stand of jpine, oak, aspen and other associated species. There are pole/log sized red pine and oak left. Stand is primarily PARVHa/PArVVb, there are portions along the west and south boundary that are PVCd. Ground vegetation would not be listed due to snow.																																													
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9	4199 - Other Mixed Upland Deciduous	Sapling Well	24.3	17	Immature	N/A	Oak is recruiting in gaps nicely. Super canopy oak and pine throughout. Aspen is patchy. Old Comments- Timber sale 72-041-05-01, Fox Run South. Cut by Chris Muma Forest Products in 2006. The north part of the stand has 10 to 20 square feet of oak left to provide for any visual concerns along I-75. The stand is naturally regenerating to a vigorous stand of oak, maple, cherry and aspen. Stand is primarily PARVHa/PArVVb, there is a small portion of stand that is PARVVb. Ground vegetation would not be listed due to snow.																																													
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10	4191 - Mixed Upland Deciduous with Conifer	Sapling Medium	36.9	25	1-50	N/A	Dense aspen in NE 75-100% canopy closure. Open jack pine with scattered oak and aspen through rest of stand. 3.5 acres of jack pine planted around 1968 was merged to meet mapping standards. The planted jack pine is in a square depression that appears to possibly be a borrow pit from HWY 127 construction. Old Comments- CUT IN 1999, LEFT THE OAK UNDER 5 INCHES, CONTRACT #024-99-02, APPLEJACK & OAK II. Stand is primarily PARVHa/PArVVb, the south boundary of stand is PVCd. Ground vegetation would not be listed due to snow.																																													
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12	4311 - Pine, Aspen Mix	Poletimber Well	45.0	35	1-50	N/A	Stand is a mixture of aspen and j pine. There is some oak, cherry, red maple and r pine mixed in as well. Stand is pole sapling in size. Stand was cut in 1987. Stand is primarily PVCd, there is a small portion of stand that is PARVHa/PARVVb. Ground vegetation would not be listed due to snow.																																																											
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13	4130 - Aspen	Sapling Well	8.7	17	Immature	N/A	South is quaking aspen with oak underneath, north is big-tooth aspen with dense maple underneath. Shrubby understory throughout. Powerline runs through east side of stand.Old comments- Timber sale 72-041-05-01, Fox Run South. Cut by Chris Muma Forest Products in 2006. The stand is naturally regenerating to a vigorous stand of aspen. Stand is primarily PARVHa/PARVVb, there is a small portion of the northern tip is PVCd/PARVHa. Ground vegetation would not be listed due to snow.																																																											
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14	4131 - Aspen, Oak	Poletimber Well	24.0	26	1-50	N/A	Pole size stand overall however, still has a lot of sub-merch trees. Aspen dominates the north and east. Trees in north are densely spaced and smaller diameter. Jack pine oak mix in south west. Powerline runs through east side of stand.Old comments- Stand is a mixture of oak and aspen with maple cherry and conifers as well. Cut in the winter of 97 contract #039-95-01. Any future treatments of this stand need to be conducted in the winter due to Hills Thistle, as per old OI notes. Stand is entirely PARVHa/PARVVb. Ground was covered with snow so vegetation could not be recorded.																																																											
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15	4130 - Aspen	Sawtimber Well	30.9	52	111-140	N/A	New stand split from parent stand 4. This was not cut with 4. Check in field to confirm (SM). Old comment: Mixed aspen with oak and other assorted species. pole size with log and sap stem poor to medium quality. western portion a bit larger in dbh and better quality. Stand is primarily PARVHa/PARVVb, along the north boundary it is PARVVb. Ground vegetation would not be listed due to snow.																																																											
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16	42120 - Planted Jack Pine	Sapling Well	14.4	14	Immature	N/A	Split unplanted portion of stand into new stand 116.Old comments-Recently harvested and planted to j pine. In some areas pockets of oak and TS-720420501 "Hawks Ridge North" FTP C72-572, planted to jack pine in May of 2008. Aspen have choked out jpine in some areas, unless these pockets were not planted. Stand is primarily PARVHa/PARVVb, there is a small portion of stand that is PARVVb. Ground vegetation would not be listed due to snow.																																																											
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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18	4199 - Other Mixed Upland Deciduous	Sapling Medium	19.8	6	Immature	N/A	Stand cut in 2017, Hawk Moth Mix #72-031-15. A lot of the oak is above browse height west of old 27 now but, still a good portion 3-5' that I anticipate will recruit over next couple of years. East side is primarily aspen/maple. Stand didn't meet oak aspen objective but, did meet objective for fully stocked mixed upland deciduous with maple being an acceptable spp. Old Comments- Mature stand of mixed hardwood dominated by oak and aspen. East side of Old 27 has a higher percentage of maple then the west side. Stem quality of oak is fair to good. Stand is mixture of PARVHa/PArVVb, PVCd/PArVHa and PArVVb. Ground vegetation would not be listed due to snow.
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Canopy Species	% Cover	Size Class	DBH	Age
Red Maple	40	Sapling	1	6
Quaking Aspen	35	Sapling	1	
Black/Red (Hybrid) Oak	15	Sapling	1	
White Oak	10	Sapling	1	

19	4130 - Aspen	Sawtimber Medium	13.2	61	51-80	N/A	Aspen/maple/beech west of Old 27. East of old 27 is aspen with pole size maple in places. NW corner is open with oak/jack pine and shrubs underneath. Aspen is rapidly declining. Changed age from 49 to 60 after coring an aspen. Old comments- Property has been acquired since last inventory cycle. Predominate bigtooth aspen stand with associated species mixed throughout. Aspen is starting to develop conks and should be treated. Because of winter inventory age was estimated. Stand is half PARVHa/PArVVb and PArVVb. Ground vegetation would not be listed due to snow.
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Canopy Species	% Cover	Size Class	DBH	Age
Jack Pine	2	Log/Pole	10	
Red Maple	25	Pole/Log	9	
Black/Red (Hybrid) Oak	5	Log/Pole	10	
Quaking Aspen	65	Log	12	61
Beech	3	Pole	8	

Sub-Canopy Species	Density	Avg. Height	Size
Serviceberry (Juneberry)	Low	Variable	Sapling
Red Maple	High	Variable	Sapling
Hawthorn (spp.)	Low	Variable	Tall Shrub
White Oak	Low	Variable	Sapling
Black Cherry	Low	Variable	Sapling

20	4191 - Mixed Upland Deciduous with Conifer	Poletimber Medium	6.3	32	1-50	N/A	Old comments say stand was planted in 1991 but, rows aren't evident. Oak may have out competed planted jp. Old comments- Open with a mixture of j pine, oak, maple, aspen and cherry. Stand is of low quality, open grown bushy stems, primarily large sapling to small poles. OI notes indicated stand was harvested in 1986 and planted to jack pine in 1991, site does not reflect this. North half of stand is PVCd and the south half is PARVHa/PArVVb.
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Canopy Species	% Cover	Size Class	DBH	Age
Red Maple	5	Pole	7	
Quaking Aspen	5	Pole	6	
Northern Pin Oak	45	Pole	7	32
Jack Pine	40	Pole	7	
Black Cherry	2	Sapling	4	

Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	Low	Variable	Sapling
Northern Pin Oak	Low	Variable	Sapling
Black Cherry	Medium	Variable	Sapling

23	4130 - Aspen	Poletimber Medium	28.0	37	51-80	N/A	Quaking aspen is pole size through most of stand except a strip that runs along the north that is more open and contains cherry brush, jack pine, oak, and sapling size aspen. Old comments- Stand was clearcut in 1986. Mid sized sapling stand with oak maple, cherry and shrub species. Stand is primarily PArVVb, along the north boundary stand is PARVHa/PArVVb. Ground was covered with snow so vegetation could not be recorded.
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Canopy Species	% Cover	Size Class	DBH	Age
Northern Pin Oak	5	Sapling	4	
Black Cherry	7	Sapling	2	
Quaking Aspen	78	Pole	6	37
Jack Pine	10	Sapling	4	

Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	Low	< 5 feet	Sapling
Hawthorn (spp.)	Low	5 - 10 feet	Tall Shrub
Serviceberry (Juneberry)	Medium	5 - 10 feet	Sapling
Northern Pin Oak	Low	Variable	Sapling
Black Cherry	High	5 - 10 feet	Sapling



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																						
24	42120 - Planted Jack Pine	Poletimber Well	44.1	32	51-80	N/A	JP is healthy and is now overall pole size. Old comments- Stand was harvested in 1986 and planted to jack pine in 1991. Stand has good density with no recordable sub canopy. The majority of the stand is PVCd, this habitat type is then surrounded by PARVHA/PArVVb. Ground was covered with deep snow so vegetations was not able to be recorded.																																																						
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25	4319 - Mixed Upland Forest	Sapling Medium	66.4	11	Immature	N/A	Stand looks healthy, good spp mix. Pockets of aspen mixed in as well. Old comments- JP-O-A stand was final harvested in 2007 (#042-05), cutting stems 2"+ DBH except green-marked trees. Oak was the management objective. Supplemental JP planting (C72-686) was approved OYOE and carried out in 2012 following poor oak regen development. Stand passed the Year 3 regen survey to a mix of JP-O-BC-A. Canopy records are estimates based on the treatment reports, past inventory data and 2016 imagery, not a site visit.																																																						
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26	4131 - Aspen, Oak	Sawtimber Well	94.9	52	111-140	N/A	<p>About 35 acres of the southeast half of stand is dominated by red oak. Big tooth aspen is healthy. This stand has very steep terrain towards the south. A strip of mature oak was left along east boundary following previous adjacent harvest. USGS topo map shows an old Fire Tower location on the south boundary of stand (Sewel Fire Tower).</p> <p>Old comments-Nice stand of bigtooth aspen and mixed associated species. Primarily pole and sapling size with some log quality trees are found in pretty much all species. Terrian is rolling to steep hills, there is a pocket of white pine west of Merio Rd that was not large enough to separate out. Merio Rd runs thru the western portion of the stand. Stand is primarily PARVHA/PArVVb, the SW corner is PVCd/PArVHa. Ground was covered with snow resulting in no ground vegetation being recorded.</p>																																																						
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27	4131 - Aspen, Oak	Poletimber Well	35.4	33	51-80	N/A	Aspen is healthy and stand has a good red oak component. Old Comments- Young aspen stand. Nice stem densities, stand does have a conifer component along the southern edge of stand. Stand is entirely PARVHA/PArVVb. Ground was covered with snow resulting in no ground vegetation being recorded.																																																						
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments				
29	4119 - Mixed Northern Hardwoods	Sapling Poor	70.3	5	1-50	N/A	<p>Good oak and maple regeneration. The oak is under 6'. A lot of the maple is over 6' but, most still can't be counted yet. Stand is currently poorly stocked but, I anticipate stand will be fully stocked once the rest of maple/oak regen recruits given a couple more years. Final harvested in 2018 but, left all white oak. Most residual oak is in east. Comp 225 Red Thin Oak Final #72-004-15. Retention strip along edge of 7 mile pit.</p> <p>Old comments- Stand is a mixture of red and white oak, it appears it was thinned and the majority of maple and aspen were removed from the stand. Stand has a heavy component of white pine in the understory. Understory is coming back to aspen, maple and oak. Stem quality is desent and majority of stems are large pole/small log. Southern edge of stand abuts a gravel pit. Terrian is rolling to steep hills. Stand is entirely PARVHA/PARVvb. Ground was covered with snow resulting in no ground vegetation being recorded.</p>				
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size	
White Pine	10	Sapling/Pole	4			White Oak		Medium	< 5 feet	Sapling	
Bigtooth Aspen	3	Sapling	1								
Red Maple	72	Sapling	1	5							
White Oak	15	Pole/Log	9	94							
30	710 - Sand, Soil	Nonstocked	8.1			No	7 Mile Pit. Bare soil and knapweed.				
31	42110 - Planted Red Pine	Sawtimber Well	31.0	66	111-140	N/A	<p>Stand thinned in 2019, Comp 225 Red Thin Oak Final #72-004-15.</p> <p>Old comments- Row thinned in 1997. A few large diameter Oak are scattered throughout the stand. Understory is coming in as maple and oak. Stand quality is fair to good with good diameter growth. The basal area averaged out to 158 which included about 10 BA of oak and aspen combined. Stand is entirely PARVHA/PARVvb. Ground was covered with snow resulting in no ground vegetation being recorded.</p>				
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size	
Red Pine	94	Log/Pole	10	66		Red Maple		Medium	< 5 feet	Sapling	
White Oak	2	XLog	18								
Black/Red (Hybrid) Oak	4	XLog	18								
33	4130 - Aspen	Sapling Well	12.2	16	Immature	N/A	<p>Most of stand not planted except for east peninsula. Aspen is overtopping most jp in that area. Old comments- Mixed aspen and JP stand was final harvested in 2007 (#042-05). The east peninsula was part of a supplemental JP planting (C72-686) that was approved OYOE in 2012 following poor oak regen development. Canopy records are estimates based on the treatment reports, past inventory data and 2016 imagery, not a site visit.</p>				
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size	
Quaking Aspen	75	Sapling	2	16		Hawthorn (spp.)		Low	< 5 feet	Tall Shrub	
Black Cherry	5	Sapling	2			Northern Pin Oak		Low	Variable	Sapling	
Northern Pin Oak	5	Sapling	1	16		Black Cherry		Medium	5 - 10 feet	Sapling	
Jack Pine	15	Sapling	1			Serviceberry (Juneberry)	Medium	5 - 10 feet	Sapling		
101	4132 - Aspen, Jack Pine	Sapling Poor	7.5	17	Immature	N/A	<p>Stand harvested in 2006 under Fox Run South #72-041-05.</p> <p>Old comments: Open stand of mixed upland species. Areas were harvested in 2006 used those records for stand age. Stand does not have significant amounts of largers trees to warrant BA, this stand is coming out of Non-Forested to Forested classification. Stand is primarily PARVHa/PARVvb, along north boundary PARVvb and a small chunk along west line is PARVHa. Ground vegetation would not be listed due to snow.</p>				
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size	
Red Maple	5	Sapling	2								
Quaking Aspen	45	Sapling	2	17							
Jack Pine	25	Sapling	2								
Black Cherry	5	Sapling	2								
Black/Red (Hybrid) Oak	20	Sapling	2	17							



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																					
116	4130 - Aspen	Sapling Well	11.2	16	Immature	N/A	Unplanted portion split from parent stand 16. Stand harvested in 2007.																																					
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401	122 - Road/Parking Lot	Nonstocked	6.8		Immature	No	5 Mile Rd and Oak Rd																																					
402	122 - Road/Parking Lot	Nonstocked	11.9			No	Old 27 Road and 5 Mile Rd.																																					
403	110 - Low Intensity Urban	Nonstocked	4.3			No	Parline Dr and power line corridor.																																					