



Compartment Review Presentation

Grayling Forest Management Unit

Compartment 72216

Entry Year 2021

Acreage: 907

County Crawford

Management Area: Grayling Ice Contact

Revision Date: 2019-07-09

Stand Examiner: Joan Charlebois

Legal Description:

T28N R03W Sections 31, 32, 33

Identified Planning Goals:

To maintain forest health, productivity, sustainability, species diversification and structural diversity throughout the compartment while providing for multiple uses and visual management.

Soil and topography:

The topography is nearly level west of I-75. East of I-75, the terrain becomes more rolling, interspersed with steep valleys and kettle holes. The dominant soils series is the somewhat excessively drained Rubicon-Graycalm sands. The better quality sites are found on Blue Lake loamy sand.

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

Most of the compartment's south edge borders Hartwick Pines State Park. State forest lands abut the west and north sides of section 31. The rest of the compartment interfaces private property, including the Forbush Corners XC Ski headquarters. Through a series of use permits, Forbush Corners has maintained ski trails within the compartment between Roberts Road and I-75.

Unique Natural Features:

There is the potential for a variety of rare dry prairie and opening-dependent species to occur within the compartment, but none have been recorded yet.

Archeological, Historical, and Cultural Features:

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

Special Management Designations or Considerations:

None at this time.

Watershed and Fisheries Considerations:

The compartment has no surface water features except for a vernal pool in stand 18 and a small wetland in stand 23.

Wildlife Habitat Considerations:

Both game and non-game species benefit from the compartment's grasslands and mast-producing shrub cover. A variety of upland game species also benefit from the multiple age classes of aspen maintained within the compartment.

Mineral Resource and Development Concerns and/or Restrictions

The state-owned Bud Hill Pit is located three miles to the east and is currently leased to the DMVA. There appears to be good sand & gravel potential within the compartment. There is currently no active production within the compartment and no active leasing, but state mineral rights to the west and north are leased and have been developed for Antrim Shale gas. The compartment lies at the southern edge of the Antrim play, and Antrim wells in this area may be less productive than those farther north. State mineral rights in the compartment were leased in the recent past by Marathon, but the company has since abandoned its development plans in the state. There is no known metallic mineral potential in this part of the state.

Vehicle Access:

County road access includes CR-612, Roberts Road, Peterson Road, Sherman Road and Townline Road. State Forest roads provide secondary access.

Survey Needs:

Interior corners on the south 1/8th line of section 32 need to be verified or set. A survey request has been submitted.

Recreational Facilities and Opportunities:

Forbush Corners maintains cross country ski trails on state land in section 31 east of I-75. There are no State-maintained designated recreational trails within the compartment.

Fire Protection:

The compartment's pine types are mostly west of I-75. The deciduous cover predominant elsewhere is not prone to large fires.

Additional Compartment Information:

The following reports from the Inventory are attached:

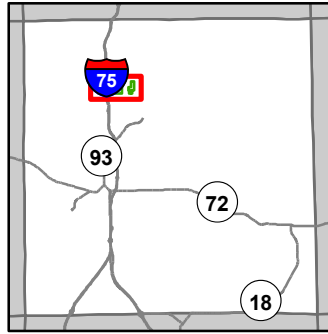
- Total Acres by Cover Type and Age Class
- Cover Type by Harvest Method
- Proposed Treatments – No Limiting Factors
- Proposed Treatments – With Limiting Factors
- Stand Details (Forested and Nonforested)
- Dedicated and Proposed Special Conservation Areas
- Site Condition Details

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

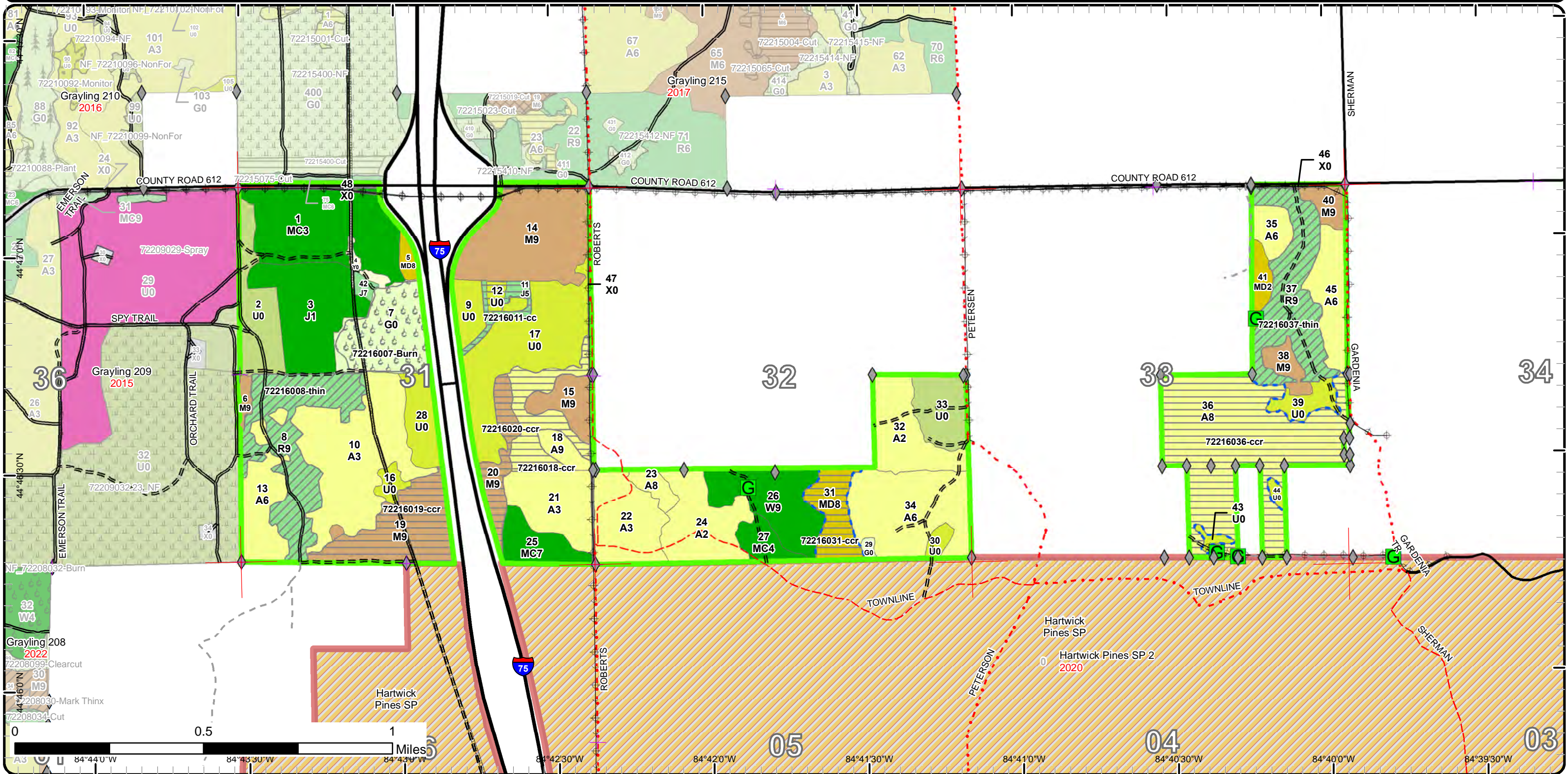
- Base feature information, stand boundaries, cover types, and numbers
- Proposed treatments
- Site condition boundaries
- Details on the road access system

Cover Type & Treatments Map

Compartment: 216
 T28N, R03W, Sec. 31-33
 County: Crawford
 Unit: Grayling
 Mgmt Area: Grayling Ice Contact
 YOE: 2021
 Acres: 907 GIS Calculated
 Examiner: Joan Charlebois
 Map Revised: 12/9/2019
 Map Phase: Post-Review

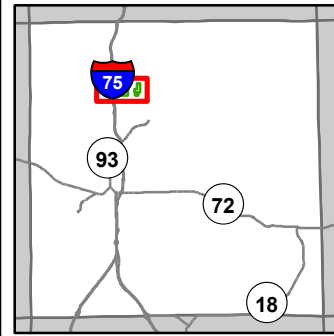


- Miris Corners
- + Remonumented Section Corners
- ◆ Field Grade Corners
- Counties
- DNR - Secondary Forest Road
- DNR - Forest Access Route
- Federal / State Highway
- County - Gravel Road
- County - Dirt Road (Seasonal)
- Private - Dirt / Gravel Road
- G Gate
- Pipeline
- Powerline
- Compartment Boundary
- Treatments with Site Conditions
- Clearcut (w/Reserves)
- Prescribed Burn
- Thinning (Crown, Low, Systematic)
- 411 - Northern Hardwood
- 413 - Aspen
- 419 - Mixed Upland Deciduous
- 421 - Planted Pines
- 422 - Natural Pines
- 122 - Roads/Parking Lot
- 310 - Herbaceous Openland
- 320 - Upland Shrub
- 330 - Low Density Trees
- 710 - Sand/Soil

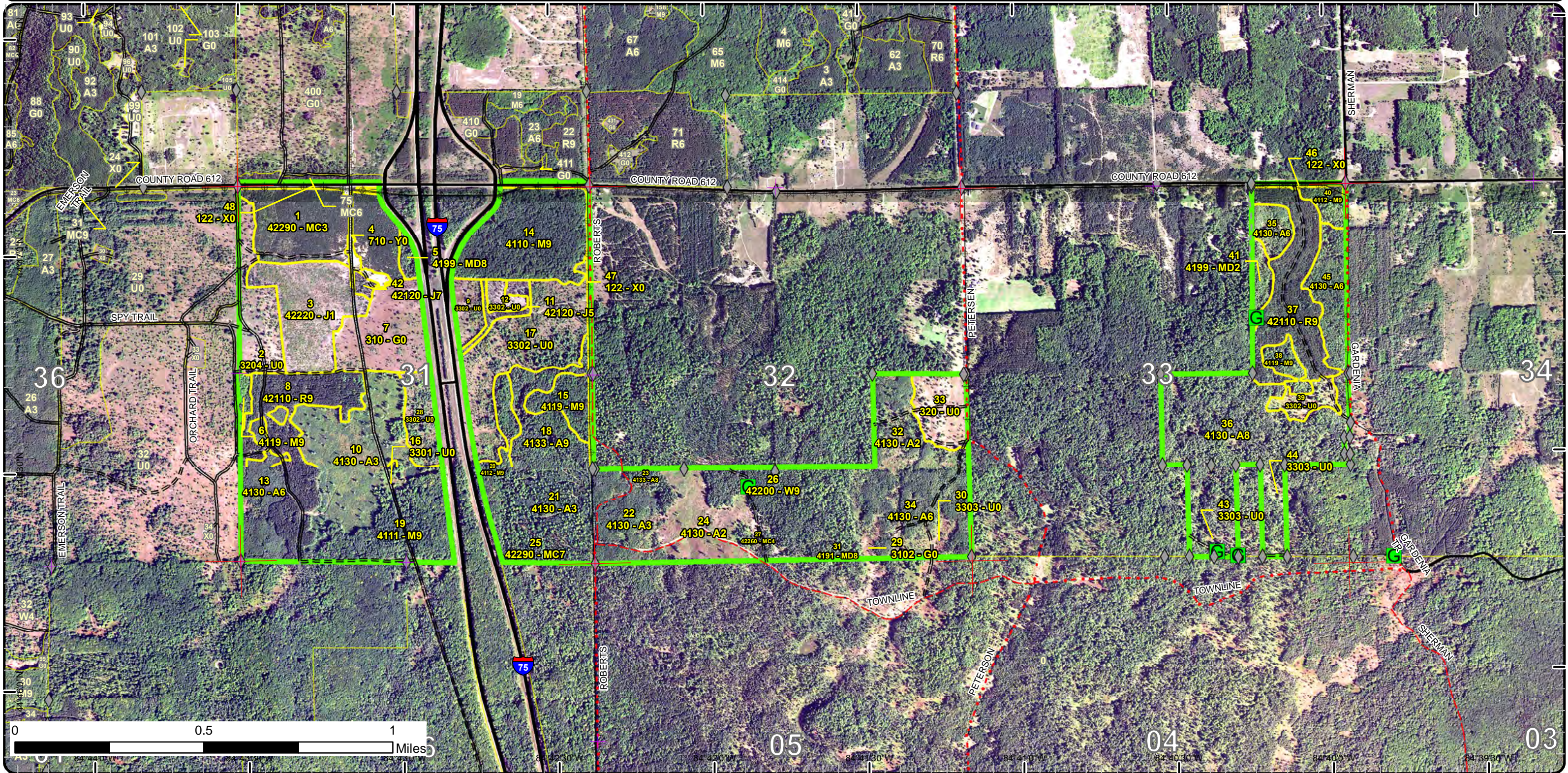


Stand Boundary Map

Compartment: 216
 T28N, R03W, Sec. 31-33
 County: Crawford
 Unit: Grayling
 Mgmt Area: Grayling Ice Contact
 YOE: 2021
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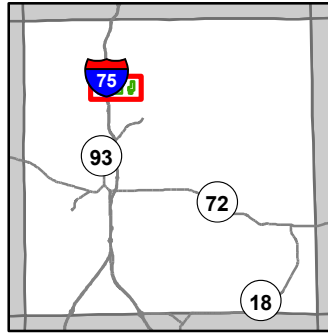


- Miris Corners
- + Remonumented Section Corners
- ◆ Field Grade Corners
- Counties
- DNR - Secondary Forest Road
- DNR - Forest Access Route
- Federal / State Highway
- Federal / State / County - Paved Road
- County - Gravel Road
- County - Dirt Road (Seasonal)
- Private - Dirt / Gravel Road
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- Compartment Boundary
- Stand Boundaries
- 411 - Northern Hardwood
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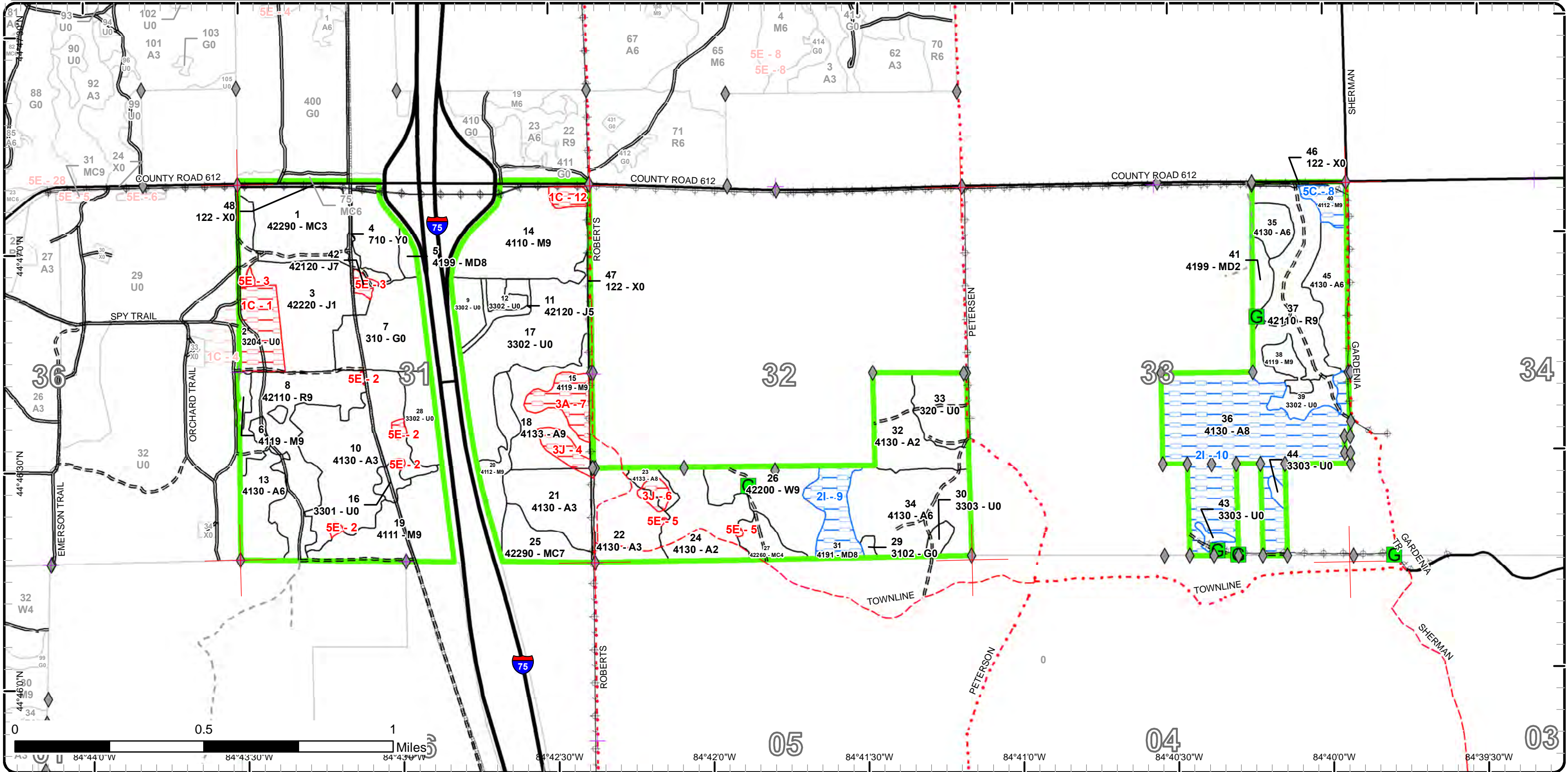


Special Conservation Areas

Compartment: 216
 T28N, R03W, Sec. 31-33
 County: Crawford
 Unit: Grayling
 Mgmt Area: Grayling Ice Contact
 YOE: 2021
 Acres: 907 GIS Calculated
 Examiner: Joan Charlebois
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- Miris Corners
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- Private - Dirt / Gravel Road
- G Gate
- Pipeline
- Powerline
- Compartment Boundary
- Available w/ Constraints
- Unavailable
- 2I: Survey needed
- 5C: Delay treatment for age/size class diversity or exceptional site quality
- 1C: Other dept or div proc/practices
- 3A: Conservation Values incompatible with harvest at this time
- 3J: Water quality / BMPs (stream, river, or lake)
- 5E: Long-Term Retention
- Stand Boundaries



Report 1 – Total Acres by Cover Type and Age Class

Grayling Mgt. Unit

Compartment 216 Year of Entry 2021

Joan Charlebois : Examiner



Age Class

	Non-Forest	0-9	10-19	20-29	30-39	40-49	50-59	60-69	70-79	80-89	90-99	100-109	110-119	120-129	130-139	140-149	150+	Uneven-Aged	Total
Aspen	0	82	47	97	19	0	25	96	0	0	0	0	0	0	0	0	0	0	364
Herbaceous Openland	32	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	32
Jack Pine	0	36	0	0	0	0	5	2	0	0	0	0	0	0	0	0	0	0	43
Low-Density Trees	89	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	89
Mixed Upland Deciduous	0	0	0	6	0	0	0	0	0	3	15	0	0	0	0	0	0	0	24
Natural Mixed Pines	0	0	47	0	0	8	0	0	13	0	0	0	0	0	0	0	0	0	68
Northern Hardwood	0	0	0	0	0	0	0	0	0	33	39	46	0	0	0	0	0	0	118
Red Pine	0	0	0	0	0	0	82	0	0	0	0	0	0	0	0	0	0	0	82
Sand, Soil	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3
Upland Shrub	38	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	38
Urban	14	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	14
White Pine	0	0	0	0	0	0	0	0	28	0	0	0	0	0	0	0	0	0	28
Total	176	118	94	103	19	8	112	98	41	36	54	46	0	0	0	0	0	0	903



Report 2 – Treatment Summary

Grayling Mgt. Unit

Year of Entry: 2021

Acres of Harvest

Compartment 216

Total Compartment Acres: 907

Commercial Harvest - 155
 Harvests with Site Condition - 107
 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
Aspen	111	0	0	0	0	0	0	0	0	111
Jack Pine	8	0	0	0	0	0	0	0	0	8
Mixed Upland Deciduous	15	0	0	0	0	0	0	0	0	15
Northern Hardwood	45	0	0	0	0	0	0	0	0	45
Red Pine	0	0	0	0	0	82	0	0	0	82
Total	180	0	0	0	0	82	0	0	0	261

Proposed and Next Step Treatments by Method

	Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current	261	0	0	0	27	0	0	0	0	289
Next Step	0	64	32	0	0	64	239	32	0	432
Total	261	64	32	0	27	64	239	32	0	721



Stand	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	72216007-Burn	27.4	310 - Herbaceous Openland	Nonstocked		Unspecified	Burn	Opening	31022 - Warm Season Grass		No
<p><u>Prescription</u> Burn periodically to promote growth of prairie grasses and set back woody succession and spotted knapweed.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Prescribed Burn</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u></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> 1 /1 /2020</p>											
8	72216008-thin	43.1	42110 - Planted Red Pine	Sawtimber Well	59	171-200	Harvest	Low Thinning	4211 - Planted Red Pine	Even-Aged	No
<p><u>Prescription</u> Free thin the RP: target suppressed, intermediate and poor-form stems first, then remove codominant stems to address spacing, down to the target BA. Remove other species only as needed for operability.</p> <p><u>Specs:</u></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></p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2020</p>											
11	72216011-cc	7.7	42120 - Planted Jack Pine	Poletimber Medium	56	51-80	Harvest	Clearcut	320 - Upland Shrub		No
<p><u>Prescription</u> Final harvest the planted JP and traces of aspen. No retention due to small stand size and declining JP health. Cut the remaining stems (dead & alive) in the collapsed portion of the plantation that is now part of stand 12.</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> Upland shrub cover with pockets of JP & aspen regen.</p> <p><u>Regen:</u></p> <p><u>Other</u> Protect the XC ski trails.</p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2020</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
18 72216018-ccr	19.9	4133 - Aspen, Mixed Pine	Sawtimber Well	57	81-110	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	No
<p><u>Prescription</u> Cut stems 2"+ DBH except supercanopy RP & WP. Focus retention around the vernal pool in the SE with a 100 foot minimum buffer, and</p> <p><u>Specs:</u> exclude the steep slopes above it.</p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> Aspen with mixed deciduous and upland shrub cover.</p> <p><u>Regen:</u></p> <p><u>Other</u> Protect XC ski trails.</p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2020</p>										
19 72216019-ccr	32.2	4111 - S.Maple, Hard Mast Association	Sawtimber Well	85	81-110	Harvest	Clearcut with Retention	42110 - Planted Red Pine	Even-Aged	No
<p><u>Prescription</u> Final harvest 1"+ DBH with standard retention. Focus area-based retention on the perimeter to reduce impact on cultivation next steps.</p> <p><u>Specs:</u> Follow up with cultivation treatments - which may include herbicide, roller chopping, and pre-commercial thinning - to ensure successful RP establishment.</p> <p><u>Next Step</u> SitePrep, Roller Chopping; Pesticide, Skidder - Site Prep; SitePrep, Trenching; Planting, Initial Plant; Pesticide, Skidder - Release;</p> <p><u>Treatments:</u> Monitoring, Artificial Regen(1yr); Monitoring, Artificial Regen(3yr); Other, Pre-Commercial Thinning - Han</p> <p><u>Acceptable</u> Full stocking in planted RP</p> <p><u>Regen:</u></p> <p><u>Other</u> Note that the stand boundary picks up designated retention from stand 10's harvest.</p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2020</p>										
20 72216020-ccr	13.1	4112 - Maple, Beech, Cherry Association	Sawtimber Well	91	111-140	Harvest	Clearcut with Retention	4139 - Aspen, Mixed Deciduous	Even-Aged	No
<p><u>Prescription</u> Cut stems 2"+ DBH except supercanopy pine. Leave island retention on the steeper slopes in the N1/2 near the ski trail.</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 with hardwoods and upland shrub cover.</p> <p><u>Regen:</u></p> <p><u>Other</u> Protect the XC ski trails.</p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2020</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
31 72216031-ccr	15.4	4191 - Mixed Upland Deciduous with Conifer	Sawtimber Medium	90	51-80	Harvest	Clearcut with Retention	4199 - Other Mixed Upland Deciduous	Two-Aged	No
<p><u>Prescription</u> Cut merch stems. Protect the existing regen. Leave standard island retention.</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 Regen:</u> In addition to the released large sapling RM, regen from the cut will include aspen & RM, with upland shrub cover accepted where the canopy was sparse pre-harvest.</p> <p><u>Other Comment:</u> Survey needed.</p> <p><u>Site Condition</u> Survey Needed</p> <p><u>Proposed Start Date:</u> 10/1 /2020</p>										
36 72216036-ccr	91.2	4130 - Aspen	Sawtimber Medium	61	51-80	Harvest	Clearcut with Retention	4139 - Aspen, Mixed Deciduous	Two-Aged	No
<p><u>Prescription</u> Cut merch stems. Leave supercanopy WP and standard island retention. Protect pockets of advanced M-WP regen and shrub cover. Cut into the U-type stands 43 & 44 to expand the aspen type.</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 Regen:</u> In addition to the released large sapling maple & WP, regen from the cut will include aspen & HWs, with upland shrub cover accepted where the canopy was sparse pre-harvest.</p> <p><u>Other Comment:</u> Add hare and grouse habitat spec.</p> <p><u>Site Condition</u> Survey Needed</p> <p><u>Proposed Start Date:</u> 10/1 /2020</p>										
37 72216037-thin	38.8	42110 - Planted Red Pine	Sawtimber Well	59	171-200	Harvest	Low Thinning	4211 - Planted Red Pine	Even-Aged	No
<p><u>Prescription</u> Free thin the RP: target suppressed, intermediate and poor-form stems first, then remove codominant stems to address spacing, down to the target BA. Remove other species only as needed for operability.</p> <p><u>Specs:</u></p> <p><u>Next Step</u></p> <p><u>Treatments:</u></p> <p><u>Acceptable Regen:</u></p> <p><u>Other Comment:</u> Heavy deciduous understory. Best to mark and cruise during leaf-off. See locked OFS and address following the guidelines.</p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2020</p>										

Total Treatment Acreage Proposed: 288.8

Report 4 – Site Conditions

Grayling Mgt. Unit
Joan Charlebois : Examiner

Compartment: 216
Year of Entry: 2021

Availability for Management

Total Acres	Acres Available	Acres Avail With Condition	Acres Not Available
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Dominant Site Conditions

	Total Acres	Acres Available	Acres Avail With Condition	Acres Not Available	Dominant Site Conditions					
					2I	5C	1C	3A	3J	5E
366	264	91	11	Aspen	91				9	2
32	32	0	0	Herbaceous Openland						
43	41	0	2	Jack Pine						2
89	89	0	0	Low-Density Trees						0
24	9	15	0	Mixed Upland Deciduous	15				0	
68	68	0	0	Natural Mixed Pines						0
118	98	6	15	Northern Hardwood		6	3	11		1
82	82	0	0	Red Pine						0
3	3	0	0	Sand, Soil						
38	22	0	16	Upland Shrub			16		0	0
14	14	0	0	Urban					0	
28	27	0	1	White Pine					1	
907	749	113	46	Total Forested Acres	107	6	19	11	10	5
	83%	12%	5%	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	1C: Other dept or div proc/practices	16	Unspecified	Unspecified	Unspecified	Unspecified
Comments: see locked comments							
2	Unavailable	5E: Long-Term Retention	2	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Retention left for stand 10's harvest.							
3	Unavailable	5E: Long-Term Retention	2	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Retention islands left when stand 3 was harvested.							

Report 4 – Site Conditions

Grayling Mgt. Unit

Joan Charlebois : Examiner

Compartment: 216

Year of Entry: 2021

4	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	6	2F: Too steep	Unspecified	Unspecified	Unspecified
Comments: Vernal pool and the steep slopes down to it.							
5	Unavailable	5E: Long-Term Retention	1	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Long-term retention for stand 24's harvest.							
6	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	3	Unspecified	Unspecified	Unspecified	Unspecified
Comments: RMZ around open water wetland in steep kettlehole.							
7	Unavailable	3A: Conservation Values incompatible with harvest at this time	11	2F: Too steep	Unspecified	Unspecified	Unspecified
Comments: Unique stand in this area with significant components of old xlog HM, supercanopy WP and mid-canopy hemlock. On rolling to steep terrain.							
8	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	6	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
9	Available	2I: Survey needed	15	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Corner #13 needs to be set. Corner #12 as found does not measure out correctly; needs to be verified.							
10	Available	2I: Survey needed	91	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Survey markers along the stand's SW appear to have been disturbed. Check validity of the existing tall-standing, loosely-set pipes.							

Report 4 – Site Conditions

Grayling Mgt. Unit

Joan Charlebois : Examiner

Compartment: 216

Year of Entry: 2021

12	Unavailable	1C: Other dept or div proc/practices	3	Unspecified	Unspecified	Unspecified	Unspecified
Comments: See locked comments.							

Mgt. Unit

Compartment: #Type!

Year of Entry:



Report 5 – PROPOSED SPECIAL CONSERVATION AREA* (SCA) DETAILS

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

SCA Name	SCA Category	Detail Type	Recommendation	Acres
Comments				



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
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																										
1	42290 - Natural Mixed Pine	Sapling Well	46.8	15	Immature	N/A	JP plantation from 1950 was final harvested in early 2004 (#052-01), cutting stems 2"+ DBH except the strip NE of the powerline corridor. 32 acres were planted to RP in May 2004 (C72-489). Part of the planting was on blow sand (a large area of disturbed ground was visible on the 1952 air photos). The planted RP is largely overtopped by volunteer JP. Most of the heavy pin cherry understory was shaded out. There is more naturally-established JP than planted RP, so the stand is categorized as natural overall.																																																										
<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>Jack Pine</td> <td>55</td> <td>Sapling</td> <td>3</td> <td>15</td> </tr> <tr> <td>Red Pine</td> <td>40</td> <td>Sapling</td> <td>2</td> <td>15</td> </tr> </tbody> </table>		Canopy Species	% Cover	Size Class	DBH	Age		Jack Pine	55	Sapling	3	15	Red Pine	40	Sapling	2	15	<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>Black Cherry</td> <td>Low</td> <td>5 - 10 feet</td> <td>Tall Shrub</td> </tr> <tr> <td>Pin Cherry</td> <td>Low</td> <td>5 - 10 feet</td> <td>Tall Shrub</td> </tr> </tbody> </table>		Sub-Canopy Species	Density	Avg. Height	Size	Black Cherry	Low	5 - 10 feet	Tall Shrub	Pin Cherry	Low	5 - 10 feet	Tall Shrub																																		
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2	3204 - Mast Producing Shrub	Nonstocked	21.9		Unspecified	No	Former managed orchard. Black cherry with scattered WP-JP, occasional apple tree, hawthorn & common juniper.																																																										
3	42220 - Natural Jack Pine	Sapling Poor	36.2	6	Immature	N/A	JP plantation from 1950 was final harvested in 2013 (#042-11), cutting stems 2"+ DBH except island retention (largest split off as stand 42; sub-acre in NW is an inclusion with planted RP & JP). Regen is a mosaic of naturally-established JP & cherry. Dense JP cover alternates with sparse JP/heavy cherry brush. There is a JP seedling layer close to being recordable in the canopy. The stand will likely shift into the 50-75% canopy closure category by next inventory. Stand 1's once-heavy pin cherry competition largely died out as the pine overtopped it. Passed regen survey to the JP with upland brush M.O.																																																										
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4	710 - Sand, Soil	Nonstocked	3.4	0	Unspecified	No	Opening with blow sand, and part of the pipeline corridor. The opening is what remains of a large area of disturbed ground visible on the 1952 air photos. Encroaching JP & cherry.																																																										
5	4199 - Other Mixed Upland Deciduous	Sawtimber Medium	3.1	88	1-50	N/A	Marginal hardwoods stand along the I-75 fence. HM: open-grown, doubles, poor form common. QA declining. IW filling in below the maple; maple filling in below the aspen. Traces of PB & WP.																																																										
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6	4119 - Mixed Northern Hardwoods	Sawtimber Well	2.8	96	81-110	N/A	Small hardwood stand between the old orchard and the RP plantation. Pockets of aspen mixed in. Maple has open-grown form along the field; interior stems have poorly-healed branch scars. HM tall saplings along the plantation edge; not past the seedling layer elsewhere.																																																										
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7	310 - Herbaceous Openland	Nonstocked	30.5		Unspecified	Managed Opening	Old field with encroaching BC, PC, scattered WP, JP, traces of SP, RP, hawthorn. Outlier aspen clones, rubus patches. Traces of non-native bush honeysuckle. Was burned in May 2015 (W72-773) to promote the growth of prairie grasses and set back woody succession and spotted knapweed. The cherry & aspen are re-sprouting.																																								
8	42110 - Planted Red Pine	Sawtimber Well	43.5	59	171-200	N/A	RP planted in the fall of 1960. Was thinned in 2003 (#053-01), cutting every third row and JP-O-A.. Growth slowed to sub-mm annual radial increment the last 5 years. 1/3-1/4 LCR interior; deep crowns on the edges and where stocking is lower. Decent row spacing except where doubles lean into the operational rows. Locally full deciduous understory in the N & NW. Stand boundary picks up a pocket of HM in the NE that is retention for stand 10.																																								
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9	3302 - Low Density Conifer Trees	Nonstocked	8.0		Unspecified	No	Old opening with cherry, serviceberry, hawthorn, common juniper, open-grown WP and colonizing JP & QA.																																								
10	4130 - Aspen	Sapling Well	55.4	6	Immature	N/A	A-HW stand was final harvested in 2013 (#042-11), cutting stems 2"+ DBH except scattered WP >12" DBH and island retention. Cruised volumes were 43% aspen, 43% HM-RM and 14% WP-RP. The regenerating stand has high stem densities in a combination of aspen clones and mast-producing shrub cover in between. The NE has heavy IW cover. Passes regen check to the aspen M.O.																																								
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11	42120 - Planted Jack Pine	Poletimber Medium	5.1	56	51-80	N/A	JP was planted in fall 1962 and re-planted in spring 1963 across 8 acres of disturbed ground (borrow pit for I-75 construction?). The JP planted on the rim of the pit had better growth and survivorship. The trees planted down in the pit are smaller, with significant mortality; portions that dropped below 25% canopy closure were merged into LDT stand 12.																																								
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12	3302 - Low Density Conifer Trees	Nonstocked	3.9	0	Unspecified	No	JP was planted in fall 1962 and re-planted in spring 1963 across 8 acres of disturbed ground (borrow pit for I-75 construction?). This stand occupies the bottom of that pit. The SE was not planted; the rest was planted but extensive mortality dropped the canopy closure below 25%, leaving scattered live JP over jack-strawed downed poles. JP & aspen are colonizing the edges, along with cherry and rubus.																																								



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13	4130 - Aspen	Poletimber Well	20.8	27	51-80	N/A	Was final harvested in 1992 (#041-91), cutting stems 2"+ DBH. The aspen is still transitioning into the pole class. Black canker in QA clones on the exposed west edge. Small U-inclusion on the W-center edge. Diverse mast-producing shrub layer.																																																												
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14	4110 - Sugar Maple Association	Sawtimber Well	46.3	100	81-110	N/A	37 acres of this northern hardwood stand were thinned in 2002 (#055-01), cutting marked stems (stated cruised residual 84 sq. ft). Decent quality stems within the thinned core: heavy to HM, with traces of IW, beech, basswood, yellow birch, BC & hemlock. The un-thinned north & SE edges have more open-grown form, multiple-stem clumps, and most of the aspen. Forbush Corners XC ski trail loops through. See QD data. See locked OFS																																																												
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15	4119 - Mixed Northern Hardwoods	Sawtimber Well	10.8	94	141-170	N/A	Unusual northern hardwood stand for this area, with a significantly older second age class in the HM (close to 200 yrs old, and 20-30" DBH). On rolling to steep terrain. Supercanopy WP are scattered throughout the stand. The hemlock component is much larger by BA than by canopy closure, occupying a suppressed crown position, and the poles with top dieback are only recordable in the subcanopy. Plenty of nurse log material (including YB) under the hemlock groves, but no seedling establishment. In addition to the recorded canopy species, there are traces of PB, basswood & BTA. A current MiFI "rule" prevents this stand from being accurately represented as at least two-aged. See QD data.																																																												
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16	3301 - Low Density Deciduous Trees	Nonstocked	3.6		Unspecified	No	Opening with BC and scattered HM, QA, WP & RP.																																																												
17	3302 - Low Density Conifer Trees	Nonstocked	47.1		Unspecified	No	Old orchard with few live apple trees remaining. Cherry, serviceberry, hawthorn & common juniper, with colonizing WP & JP, outlier aspen clones, traces of basswood, RP & SP. JP was planted flanking portions of the Forbush XC ski trails that cross through.																																																												



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18	4133 - Aspen, Mixed Pine	Sawtimber Well	25.2	57	81-110	N/A	Aspen stand with significant WP & RM components, on rolling to steep terrain. The aspen is two-aged: the majority is mature (50-60 yrs old) and starting decline, and the secondary component is overmature (72 yrs, 1991 YOE) and actively breaking up. Crook and forked tops are common in the WP. Traces of basswood, ironwood, beech. Small vernal pool in the S-center, traces of hemlock around it. Combined full understory in sapling and shrub cover. Forbush Corners XC Ski trails cross through.																																																																			
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19	4111 - S.Maple, Hard Mast Association	Sawtimber Well	32.9	85	81-110	N/A	Lower quality HW stand. Doubles & triples common. Single stems have poorly-healed branch scars. The beech is starting to break up. Overmature aspen with younger stems on the edges of openings. Locally full understory cover in IW and beech. HM only in the seedling layer except under the largest aspen clone (sapling class there). The stand boundary picks up one of stand 10's contiguous retention islands (see Site Condition layer). The stand's south boundary on either side of the pipeline picks up an LDT opening edge. See QD data.																																																																			
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20	4112 - Maple, Beech, Cherry Association	Sawtimber Well	13.1	91	111-140	N/A	Narrow hardwood stand on a ridge with a steep east aspect; has a lot of edge, with open-grown form along the bordering field. HM with clean boles are present but in the minority; doubles and poorly healed branch scars are common. Overmature BTA occurs in pockets. Beech is most concentrated in the stand's S1/3, and is starting to break up. There is locally high understory cover in either beech, ironwood, or mast-producing shrubs. Forbush Corners XC Ski trail loops through. See QD data.																																																																			
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21	4130 - Aspen	Sapling Well	23.4	16	1-50	N/A	This former private forty had naturally-established maple and aspen mixed into planted RP, white spruce, norway spruce, and WP (not clear if that species was planted; there are supercanopy WP seed sources). The stand was harvested before the parcel was acquired by the State, leaving scattered WP & RP sawtimber, cull maple clumps, and traces of pole norway spruce in a supercanopy layer above the main canopy of sapling aspen. Diverse mast-producing shrub understory. Forbush XC ski trail loops through on rolling to steep terrain.																																																											
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22	4130 - Aspen	Sapling Well	25.5	26	1-50	N/A	Aspen stand on rolling to steep terrain was final harvested in 1993 (#042-91), cutting stems 2"+ DBH except marked RP & WP near the county road. Some hilltop clones are majority pole but the stand overall averages in the sapling class. Cover is dense except on the lower slopes and in frost pockets (open-grown WP & JP mix in there).																																																											
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23	4133 - Aspen, Mixed Pine	Sawtimber Medium	5.0	62	51-80	N/A	Small stand on steep sideslopes down to the wetland inclusion (leatherleaf and marsh). The WP component is increasing as the overmature aspen drops out. A younger age class of aspen established on the sparse south aspect. This stand is likely two-aged, but did not core additional trees to verify.																																																											
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24	4130 - Aspen	Sapling Medium	26.9	5	Immature	N/A	Four small aspen and MC stands were final harvested with retention in 2014 (#034-11), cutting stems 2"+ DBH except scattered WP-RP, traces of JP-QA, and two small islands. The 4 stands were merged into one post-harvest. Regen M.O.s ranged from A-MC, to A-Pine, to A-MD. The new stand passes to aspen overall, with upland brush inclusions scattered throughout and the largest in the S & W. Cover varies from non-stocked to A3, averaging to the low end of 50-75%. Cicada egg laying damage common on the aspen regen. Pine continuing to seed in.																																																											
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25	42290 - Natural Mixed Pine	Sawtimber Poor	13.1	75	51-80	N/A	This former private forty had naturally-established maple and aspen mixed into planted RP, white spruce, norway spruce, and WP (not clear if that species was planted; there are supercanopy WP seed sources). The stand was harvested before the parcel was acquired by the State, leaving WP & RP sawtimber, cull RM clumps, and traces of pole WS above a now-full subcanopy in A-RM-WP. The relatively uniform WP & RP saw are clean and straight. Forbush XC ski trail loops through on rolling to steep terrain.																																																							
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26	42200 - Natural White Pine	Sawtimber Well	27.7	71	111-140	N/A	Variable density WP stand, seeded in from scattered supercanopy trees. WP in areas with less dense stocking have poor form (crook, forked tops common). WP in densely-stocked patches have low LCRs. QA established in sparser areas. RP increases in the NE. The WP's form (dominant-codominant stems weevilled, intermediate stems with poor crown development) does not lend itself to thinning.																																																							
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27	42260 - Natural Pine, Mixed Deciduous	Poletimber Poor	7.9	49	1-50	N/A	Tree cover has been colonizing this pine stumpfield: branches-to-the-ground WP, JP & RP, patches of poor-quality QA, and BC. Saplings reach into the short, open-grown canopy, so that regen was recorded in the canopy. The stand is likely two-aged, but did not core the regen to establish that.																																																							
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28	3302 - Low Density Conifer Trees	Nonstocked	12.8		Unspecified	No	Old field with encroaching cherry, common juniper, WP, and perimeter maple & aspen. Is part of Rx burn FTP W72-773 to promote the growth of prairie grasses and set back woody succession and spotted knapweed. Control line was established but this portion wasn't burned along with stand 7 in 2015.																																																							
29	3102 - Grass	Nonstocked	1.2	0	Unspecified	No	Frost pocket opening with BC, open-grown WP & RP, and encroaching aspen.																																																							
30	3303 - Mixed Low Density Trees	Nonstocked	2.8	0	Unspecified	No	Valley opening with BC, scattered WP-RP-JP and encroaching aspen.																																																							



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31	4191 - Mixed Upland Deciduous with Conifer	Sawtimber Medium	15.4	90	51-80	N/A	Marginal mixed stand of cull multi-stem RM, WP with crook/forked tops, overmature aspen, off-site HM, and RP. The aspen has been breaking up for a while. RM large saps filling in canopy gaps make the canopy closure appear greater than it is.																																								
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32	4130 - Aspen	Sapling Medium	24.1	17	Immature	N/A	NH stand with 18% aspen was final harvested in 2002 (#048-01), cutting stems 2"+ DBH except WP within 150 feet of the old field (stand 33). The harvest left additional large WP scattered well away from that edge. The stand is a mosaic of aspen and upland shrub cover (mast-producing).																																								
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33	320 - Upland Shrub	Nonstocked	16.4	0	Unspecified	No	Old field with encroaching cherry, WP & JP.																																								
34	4130 - Aspen	Poletimber Well	42.3	26	1-50	N/A	Stand was final harvested in 1993 (#042-91), cutting stems 2"+ DBH. Variable development between aspen clones. The BTA is generally further transitioned into the pole class than the QA. The clones are separated by upland shrub cover (mast-producing). The largest non-forest openings within the harvest area were separated out as stands 29 & 30.																																								
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35	4130 - Aspen	Poletimber Well	7.9	27	1-50	N/A	Part of a hardwood stand that was final harvested in 1992 (#043-91), cutting stems 2"+ DBH. The cruised volume was approximately 65% sugar maple, 25% aspen and 10% mixed HWs. This north half regenerated to aspen with minor HW components. The clones vary in development, but average in the pole class overall. Upland shrub cover separates the clones.																																								
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments		
36	4130 - Aspen	Sawtimber Medium	91.2	61	51-80	N/A	Mixed aspen stand with hardwood inclusions and varying distribution in WP. The aspen is two-aged: the overmature majority has been breaking up for a while; the younger aspen is 48 years old, established where the canopy was sparse. Heartrot common in the overmature aspen. Sub-acre frost pocket openings are scattered across the stand. The HW component is generally poor-quality except for a 2-acre strip of good-form sugar maple sawtimber along the west edge. There is a trace of planted RP in the SE. The understory cover in shrubs and HW saplings makes the crown closure appear higher than it is. BA's range widely (30-150), with 75% in the 50-80 category. The HW inclusions fall in the 110-140 category.		
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density		Avg. Height	Size
Red Maple	15	Log/Pole	12		Black Cherry	Low		Variable	Tall Shrub
Quaking Aspen	50	Log/Pole	12	61	Ironwood	Medium		Variable	Sapling
White Pine	8	Log/Pole/XLog	14		Hawthorn (spp.)	Low		10 - 20 feet	Tall Shrub
Bigtooth Aspen	10	Log/Pole	12		Red Maple	Low		Variable	Sapling
Sugar Maple	15	Log/Pole	12	88	Red Maple	Low		< 5 feet	Seeding
					White Pine	Low		Variable	Sapling
					Choke Cherry	Low		< 5 feet	Tall Shrub
					Witch Hazel	Trace		5 - 10 feet	Tall Shrub
					Hazelnut (Beaked)	Trace		5 - 10 feet	Tall Shrub
					Sugar Maple	Low		< 5 feet	Seeding
					Sugar Maple	Medium		Variable	Sapling
					Serviceberry (Juneberry)	Trace		5 - 10 feet	Tall Shrub
37	42110 - Planted Red Pine	Sawtimber Well	38.8	59	171-200	N/A	RP was planted in the fall of 1960. Was thinned in 2002 (#060-01), cutting every 3rd row and JP-O-A. Good site; RP solidly moved into the saw class. Sub-mm radial annual growth the last 5 years. On gently rolling terrain. Row spacing narrows on the side-hills. Forked tops (porky damage?) common along the hardwood edges. Full deciduous understory. See locked OFS.		
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density		Avg. Height	Size
Red Pine	95	Log	11	59	Beech	Low		10 - 20 feet	Sapling
					Choke Cherry	Low		Variable	Tall Shrub
					Red Maple	Low		5 - 10 feet	Sapling
					Ironwood	Low		5 - 10 feet	Sapling
					Sugar Maple	High	10 - 20 feet	Sapling	
38	4119 - Mixed Northern Hardwoods	Sawtimber Well	6.3	96	81-110	N/A	Lower quality HW stand with xlog WP, outlier RP from the surrounding plantation, and aspen on the margins. The RM is in multiple-stem clumps. Less than 2 acres in the stand's center has HM of a quality that warrants thinning; the rest has poorly-healed branch scars.		
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density		Avg. Height	Size
Red Maple	10	Log/Pole	14		White Pine	Trace		Variable	Sapling
White Pine	15	XLog/Log	20		Ironwood	Medium		Variable	Sapling
Sugar Maple	55	Log/Pole	11	96	Sugar Maple	Medium		Variable	Sapling
					Sugar Maple	Medium		< 5 feet	Seeding
					Hazelnut (Beaked)	Trace	5 - 10 feet	Tall Shrub	
39	3302 - Low Density Conifer Trees	Nonstocked	7.4		Unspecified	No	Opening with BC, hawthorn, serviceberry, witch hazel, open-grown WP, cull RM & HM multiple-stem clumps, some JP seeding in.		
40	4112 - Maple, Beech, Cherry Association	Sawtimber Well	6.0	90	111-140	N/A	Lower quality HW stand with aspen and xlog WP. There is overmature aspen on the north edge and a younger age class behind it. The RM occurs as multiple-stem clumps in the north half and more in single stems to the south. Beech & HM increase to the south. Poorly-healed branch scars common in the HM. Traces of hemlock and norway spruce. Trace of lilac in the NE. Overhead powerline cuts through the north end.		
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density		Avg. Height	Size
Sugar Maple	20	Log	11		White Pine	Low		Variable	Sapling
Beech	20	Log/Pole	10		Beech	Medium		5 - 10 feet	Sapling
Red Maple	40	Log/Pole	11	90	Hazelnut (Beaked)	Trace		5 - 10 feet	Tall Shrub
Bigtooth Aspen	10	Pole	7	36	Ironwood	Low		Variable	Sapling
					American Fly Honeysuckle	Low		< 5 feet	Tall Shrub



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																					
41	4199 - Other Mixed Upland Deciduous	Sapling Medium	5.9	27	1-50	N/A	Part of a hardwood stand that was final harvested in 1992 (#043-91), cutting stems 2"+ DBH. The cruised volume was approximately 65% sugar maple, 25% aspen and 10% mixed HWs. This south half of the harvest on rolling terrain regenerated to predominantly HWs with a minor aspen component and significant upland shrub cover. The aspen has shifted into the pole class but the HWs are sapling sized.																																																					
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42	42120 - Planted Jack Pine	Sawtimber Poor	1.9	69	1-50	N/A	Part of stand 3's retention. JP was planted in 1950. Significant mortality. Some JP & WP filling in below.																																																					
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43	3303 - Mixed Low Density Trees	Nonstocked	1.7	0	Unspecified	No	Former pastured opening. Remnants of fencing. Scattered open-grown WP, BC & QA.																																																					
44	3303 - Mixed Low Density Trees	Nonstocked	1.6	0	Unspecified	No	Opening with BC, open-grown WP-RP-JP, hawthorn, & poor quality QA																																																					
45	4130 - Aspen	Poletimber Well	18.5	36	51-80	N/A	The stand was final harvested in 1983 (#001-83), spec'd to cut merch stems. Cruised volume was aspen with 15% HM. WP saw and a few open-grown HM & RM were left scattered across the stand. The aspen filled in well except for a sparse inclusion in the NW.																																																					
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46	122 - Road/Parking Lot	Nonstocked	1.6	0	Unspecified	No	Cleared county road and utility corridor.																																																					
47	122 - Road/Parking Lot	Nonstocked	7.9	0	Unspecified	No	Cleared road and/or utility corridors.																																																					
48	122 - Road/Parking Lot	Nonstocked	4.7	0	Unspecified	No	CR 612 road and utility corridor. Picks up gas pipeline facility.																																																					