



Compartment Review Presentation

Newberry Forest Management Unit

Compartment 42060

Entry Year 2021

Acreage: 1,482

County Chippewa

Management Area: Whitefish Vermillion Point

Revision Date: 2019-08-05

Stand Examiner: Amy Douglass

Legal Description:

T50N R06W Sections 19, 20, 29 & 30

Identified Planning Goals:

Timber and wildlife habitat are the main uses in this area. The goal is to promote and enhance these uses, as well as maintain and improve forest health and productivity. Treatments prescribed will help insure the sustainability of the forest resource and continue to enhance the quality of the wildlife habitat.

Soil and topography:

The compartment is almost entirely Deer Park fine sand on level to rolling ground. Small, level inclusions of Wainola-Kinross-Rousseau complex (southwest corner) and Markey and Carbondale mucks (east side below the bluff/along Shelldrake flooding) exist.

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

The compartment is entirely state land. The land adjacent to the compartment to the north, east and west is all under state ownership. To the south is a mix of both State land and small private parcels. Land use in and around the compartment is primarily for recreational opportunities. Hunting, fishing, ORV riding, hiking and berry picking all occur throughout the area. Development in the area is minimal with the private parcels consisting of small camps and seasonal usage.

Unique Natural Features:

The potential exists for numerous threatened and endangered flora and fauna.

Archeological, Historical, and Cultural Features:

None noted.

Special Management Designations or Considerations:

None noted.

Watershed and Fisheries Considerations:

Fisheries Values: Minimal

Fisheries Division does not actively manage any waters in this compartment. The Betsy River, Shelldrake Flooding and Dead Creek all border this compartment. Standard BMP's should apply to any treatments proposed near surface water or any of the previously mentioned resources. Proposed treatments in this compartment are not near any surface water.

Fisheries has no concerns at this time.

Wildlife Habitat Considerations:

Compartment 60 lies in northwestern Chippewa County and is in the Grand Marais Sandy End Moraine and Outwash ecological sub-subsection and lies within the Whitefish- Vermillion Management Area with moose, spruce grouse and red crossbill are featured species. The compartment is currently a mix of young and mature jack pine with minimal white or red pine stands, a marsh type and mixed conifer stand along the Shelldrake Flooding which borders the east side of the compartment. Dead creek runs along a portion of the southern boundary of the compartment and provides an excellent wildlife travel corridor. The pine stands have limited species diversity.

In a predominantly pine forested ecosystem, maintaining a variety of age and size classes and maintaining as much structural diversity as possible in managed stands will be important to achieving wildlife objectives. For example, retaining soft and hard mast producing species in harvested stands will help provide food sources, nest and den trees, and improve structural diversity. Leaving understory spruce when it occurs will likewise increase structural diversity as will retaining non-pine species in pine stands. Wildlife species potentially using this compartment include white-tailed deer, black bear, moose, coyote, and possibly fisher, otter and mink.

Mineral Resource and Development Concerns and/or Restrictions

No active sand/gravel pits exist in the area, but there may be some sand & gravel potential within the compartment. There

is no history of mineral leasing in the compartment. There is no known potential for metallic minerals in this area, and no known potential exists economic hydrocarbon production in the UP.

Vehicle Access:

Located 10 miles northwest of Paradise, primary access is via the Widewaters Road (a county maintained sand road). A network of forest roads (two track sand/dirt roads) transects the compartment providing ample vehicle access.

Survey Needs:

None needed.

Recreational Facilities and Opportunities:

There are no recreational facilities within the compartment boundary. The snowmobile trail is located approximately one mile to the south. Recreational opportunities include hunting, hiking, berry picking, wildlife/nature viewing, snowmobiling and ORV riding.

Fire Protection:

The compartment is part of the Whitefish Zone dispatch area. Large fire runs are possible because of continuous hazard fuel types and long response times. Excessively sandy roads could pose access problems for some equipment. Private properties outside the compartment could be at risk to damage from fire.

Additional Compartment Information:

The following reports from the Inventory are attached:

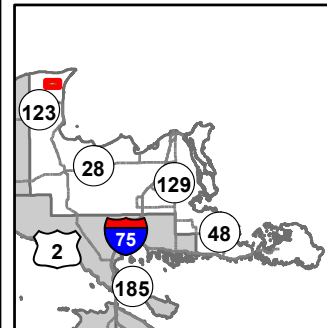
- Total Acres by Cover Type and Age Class**
- Cover Type by Harvest Method**
- Proposed Treatments – No Limiting Factors**
- Proposed Treatments – With Limiting Factors**
- Stand Details (Forested and Nonforested)**
- Dedicated and Proposed Special Conservation Areas**
- Site Condition Details**

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

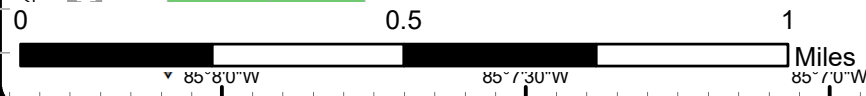
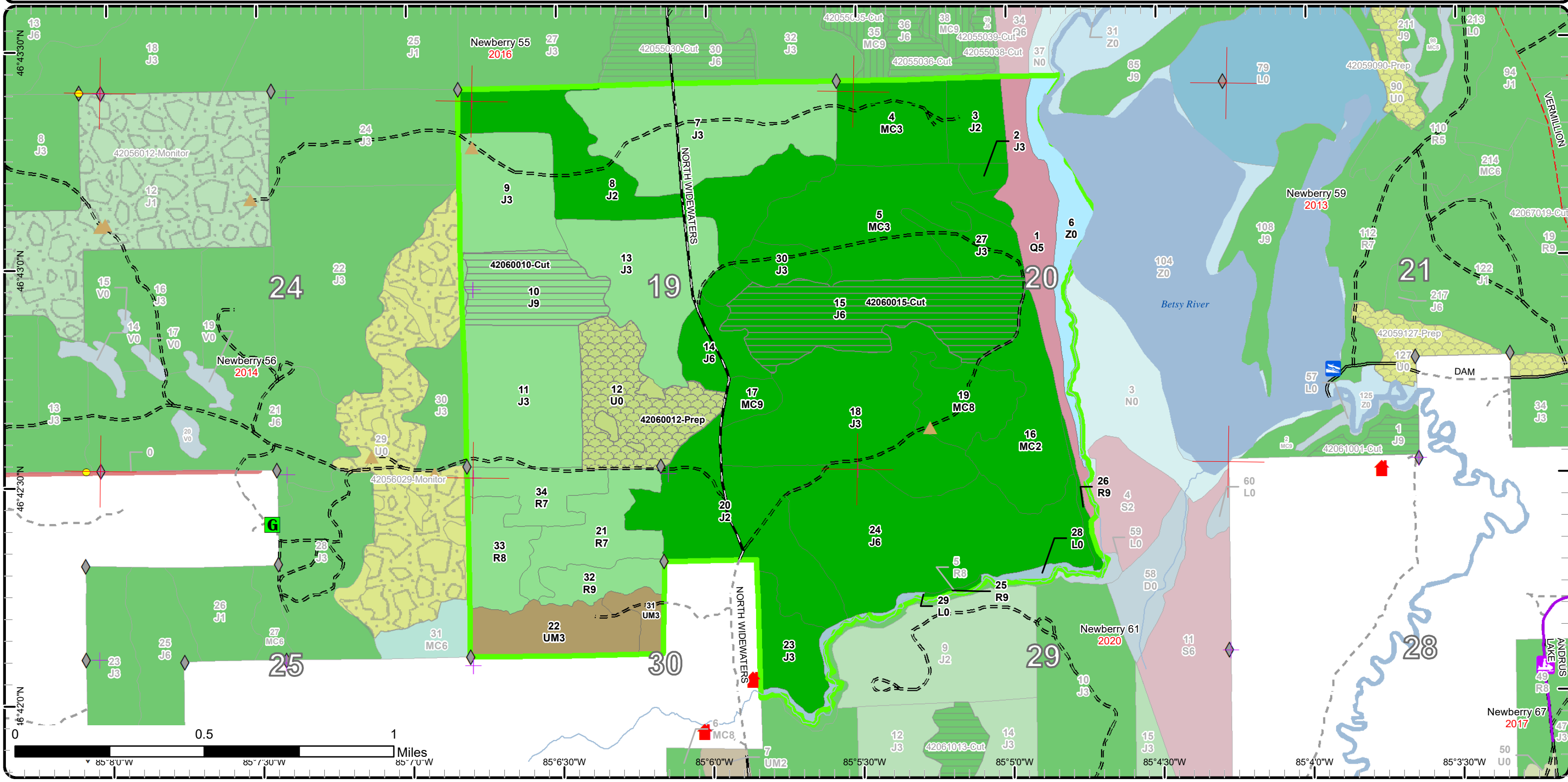
- Base feature information, stand boundaries, cover types, and numbers**
- Proposed treatments**
- Site condition boundaries**
- Details on the road access system**

Cover Type & Treatments Map

Compartment: 60
 T50N, R06W, Sec. 19, 20, 29, 30
 County: Chippewa
 Unit: Newberry
 Mgmt Area: Whitefish Vermillion
 Point
 YOE: 2021
 Acres: 1,483 GIS Calculated
 Examiner: Amy Douglass
 Map Revised: 12/19/2019
 Map Phase: Post-Review



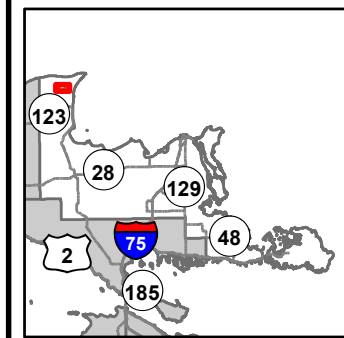
- Miris Corners
- + Remonumented Section Corners
- Survey Grade Corners
- ◆ Field Grade Corners
- Counties
- DNR - Primary Forest Road
- DNR - Secondary Forest Road
- DNR - Forest Access Route
- County - Dirt Road (Seasonal)
- Private - Dirt / Gravel Road
- Snowmobile Trails
- Designated Snowmobile Trails
- ▲ Cabin
- ▲ Berms
- G Gate
- Boating Access Site
- Island in Lake or River
- Lake/Pond
- Perennial River
- Lakes and Rivers
- Compartment Boundary
- Clearcut (w/Reserves)
- Site Prep
- 421 - Planted Pines
- 422 - Natural Pines
- 430 - Upland Mixed Forest
- 612 - Lowland Coniferous Forest
- 320 - Upland Shrub
- 500 - Water
- 622 - Lowland Shrub



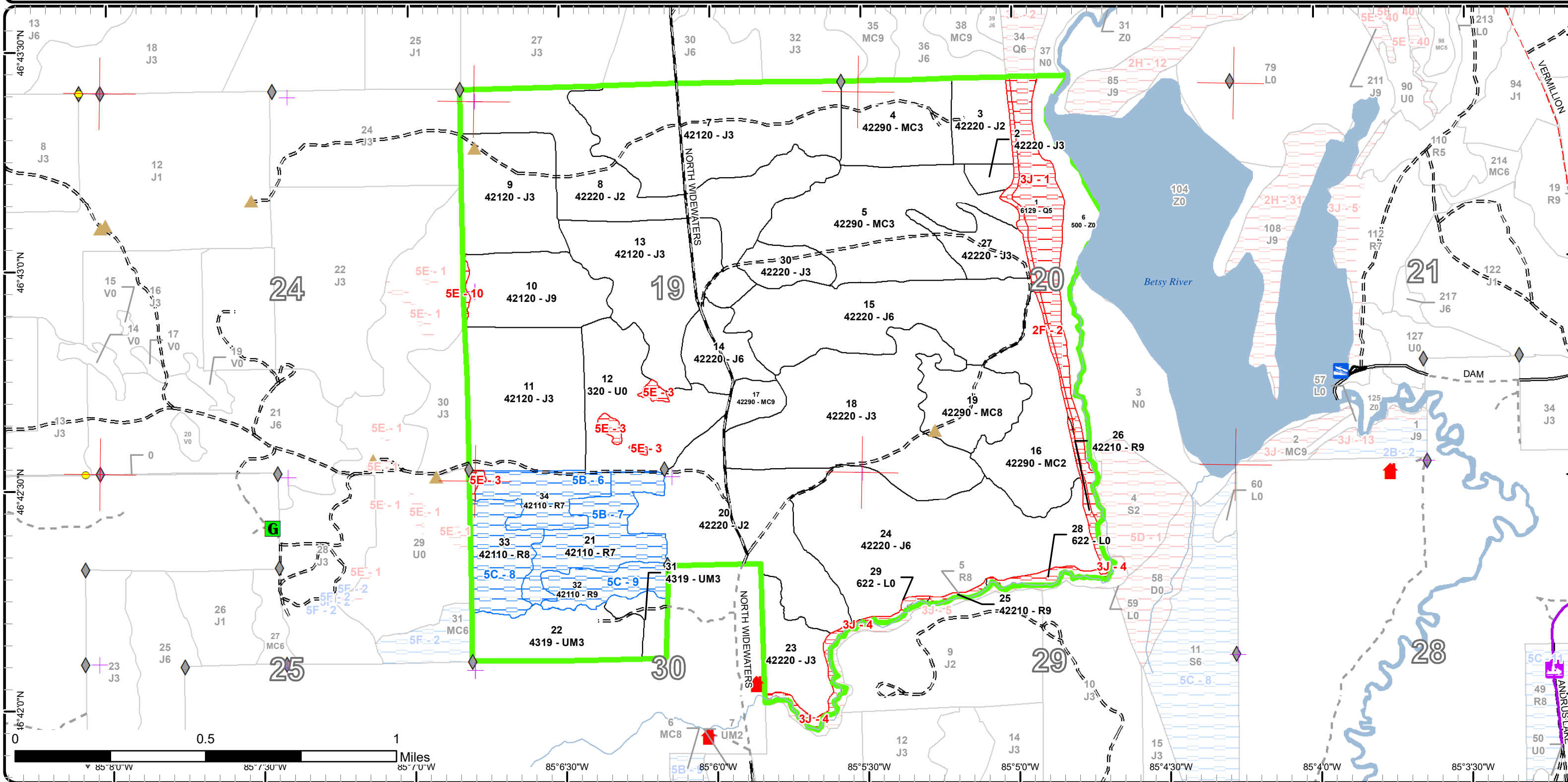
85°8'0"W 85°7'30"W 85°7'0"W 85°6'30"W 85°6'0"W 85°5'30"W 85°5'0"W 85°4'30"W 85°4'0"W 85°3'30"W

Special Conservation Areas & Site Conditions Map

Compartment: 60
 T50N, R06W, Sec. 19, 20, 29, 30
 County: Chippewa
 Unit: Newberry
 Mgmt Area: Whitefish Vermillion Point
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- B Boating Access Site
- I Island in Lake or River
- L Lake/Pond
- P Perennial River
- L Lakes and Rivers
- Compartment Boundary
- Available w/ Constraints
- Unavailable
- 5B: Maintain for regeneration purposes
- 5C: Delay treatment for age/size class diversity or exceptional site quality
- 2F: Too steep
- 3J: Water quality / BMPs (stream, river, or lake)
- 5E: Long-Term Retention
- Stand Boundaries
- SCA



Report 1 – Total Acres by Cover Type and Age Class

Newberry Mgt. Unit

Compartment 60

Year of Entry 2021

Amy Douglass : 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
Jack Pine	0	182	147	168	320	0	0	0	132	0	0	0	0	0	0	0	0	0	948
Lowland Conifers	0	0	0	0	0	0	0	0	0	0	0	45	0	0	0	0	0	0	45
Lowland Shrub	13	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	13
Natural Mixed Pines	0	0	51	42	84	0	0	33	0	10	0	0	0	0	0	0	0	0	219
Red Pine	0	0	0	0	0	0	0	0	110	0	0	6	0	0	0	0	0	0	115
Upland Mixed Forest	0	0	0	0	47	0	0	0	0	0	0	0	0	0	0	0	0	0	47
Upland Shrub	62	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	62
Water	32	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	32
Total	107	182	198	210	451	0	0	33	242	10	0	51	0	0	0	0	0	0	1481



Report 2 – Treatment Summary

Newberry Mgt. Unit
Year of Entry: 2021

Compartment 60
Total Compartment Acres: 1,482

Acres of Harvest

Commercial Harvest - 130
 Harvests with Site Condition - 0
 Next Step Harvest - 0
 Habitat Cut - 0

Cover Type by Harvest Method

		Clearcut	Selection	Patch Clearcut	Seed Tree	Shelterwood	Thinning	Overstory Removal	Salvage	Other	Total Acres
Jack Pine		130	0	0	0	0	0	0	0	0	130
	Total	130	0	0	0	0	0	0	0	0	130

Proposed and Next Step Treatments by Method

		Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current		130	58	0	0	0	0	0	0	0	188
Next Step		0	260	188	0	0	245	0	0	0	694
	Total	130	318	188	0	0	245	0	0	0	881



Stand Name	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:

10	42060010-Cut	42.8	42120 - Planted Jack Pine	Sawtimber Well	79	Unspecified	Harvest	Clearcut with Retention	4222 - Natural Jack Pine	Even-Aged	No
<p><u>Prescription</u> Clearcut leaving individual and small clumps of RP and/or WP, so as not to impede scarification/regeneration efforts. Leave all oak. One patch retention needed and will be located on the west side to offset green-up with adjacent compartment/stand (as shown on map). May need to leave higher residual or retention in SE corner also, for green-up.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> SitePrep, Scarification; Monitoring, Natural Regen (Intermediate); SitePrep, Trenching; Planting, Initial Plant</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> Jack pine with associated red pine, white pine and oak.</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>											
12	42060012-Prep	57.6	320 - Upland Shrub	Nonstocked	0	Unspecified	SitePrep	Trenching	4212 - Planted Jack Pine	Even-Aged	No
<p><u>Prescription</u> Trench to prepare site for hand planting of jack pine.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Artificial Regen(1yr); Monitoring, Artificial Regen(3yr); Planting, Initial Plant</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> Jack pine with scattered red pine and white pine.</p> <p><u>Regen:</u></p> <p><u>Other</u> This site was never scarified. Current FTP 42-781.</p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2019</p>											
15	42060015-Cut	87.4	42220 - Natural Jack Pine	Poletimber Well	78	Unspecified	Harvest	Clearcut with Retention	4222 - Natural Jack Pine	Even-Aged	No
<p><u>Prescription</u> Clearcut leaving individual and small clumps of RP and/or WP, so as not to impede scarification/regeneration efforts. Leave all oak. Patch retention (5% in 4-5 patches) to include red pine/white pine and understory spruce for structural diversity for wildlife.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> SitePrep, Scarification; Monitoring, Natural Regen (Intermediate); SitePrep, Trenching; Planting, Initial Plant</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> Jack pine with associated red pine, white pine and oak.</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>											

Total Treatment 187.8
Acreage Proposed:

Report 4 – Site Conditions

Newberry Mgt. Unit
Amy Douglass : Examiner

Compartment: 60
Year of Entry: 2021



Availability for Management

Total Acres	Acres Available	Acres Avail		Dominant Site Conditions					
		With Condition	Not Available		5B	5C	2F	3J	5E
948	947	0	1	Jack Pine					1
45	0	0	45	Lowland Conifers			7	37	
15	2	0	13	Lowland Shrub				13	
220	220	0	0	Natural Mixed Pines					
116	0	109	7	Red Pine	62	47	4	2	1
47	47	0	0	Upland Mixed Forest					
62	58	0	4	Upland Shrub					4
32	32	0	0	Water					
1,484	1,305	109	71	Total Forested Acres	62	47	11	52	7
	88%	7%	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	3J: Water quality / BMPs (stream, river, or lake)	38	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	Unspecified	Unspecified	Unspecified
Comments: Low ground below bluff along Shelldrake flooding.							
2	Unavailable	2F: Too steep	11	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Steep bluff down to Shelldrake Flooding.							
3	Unavailable	5E: Long-Term Retention	6	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

Newberry Mgt. Unit
Amy Douglass : Examiner

Compartment: 60
Year of Entry: 2021



4	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	13	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Buffer along Dead Creek.							
6	Available	5B: Maintain for regeneration purposes	25	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
7	Available	5B: Maintain for regeneration purposes	37	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
8	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	28	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
9	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	19	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
10	Unavailable	5E: Long-Term Retention	1	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Retention strip to help alleviate green-up issues with adjacent compartment/stand.							

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
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																					
1	6129 - Mixed Coniferous Lowland Forest	Poletimber Medium	44.7	108	81-110	N/A	Low ground between steep slope to the west and Shelldrake Flooding to the east.																																					
		<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>White Pine</td> <td>25</td> <td>Log/Pole</td> <td>14</td> <td></td> </tr> <tr> <td>Black Spruce</td> <td>35</td> <td>Pole</td> <td>8</td> <td>108</td> </tr> <tr> <td>Northern White Cedar</td> <td>30</td> <td>Pole/Log</td> <td>8</td> <td>108</td> </tr> </tbody> </table>	Canopy Species	% Cover	Size Class	DBH	Age	White Pine	25	Log/Pole	14		Black Spruce	35	Pole	8	108	Northern White Cedar	30	Pole/Log	8	108			<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 Spruce</td> <td>Medium</td> <td>Variable</td> <td>Sapling</td> </tr> <tr> <td>Red Maple</td> <td>Low</td> <td>Variable</td> <td>Sapling</td> </tr> <tr> <td>White Spruce</td> <td>Medium</td> <td>Variable</td> <td>Sapling</td> </tr> </tbody> </table>	Sub-Canopy Species	Density	Avg. Height	Size	Black Spruce	Medium	Variable	Sapling	Red Maple	Low	Variable	Sapling	White Spruce	Medium	Variable	Sapling			
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2	42220 - Natural Jack Pine	Sapling Well	5.4	33	Immature	N/A	Component of young red pine. NW/SE ridges. Some residual oak on the ridges. Residual RP and WP throughout. Some oak regeneration. Cut as sale #008-81-01. Scarified in 1986 - FTP 42-096.																																					
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3	42220 - Natural Jack Pine	Sapling Medium	22.0	14	Immature	N/A	Very hilly. Regen ~10-20' tall. Stand harvested as "W. Shelldrake Pine" (42-007-01-01). Completed 6/3/04. Scarification completed as of 10/05 (42-542). Some of the steep ridges were not scarified. Regen count completed 5/29/08 = 124 t/ac (62 t/ac of both J,R <1' ht each). Stand is regenerating well. Ridges are more of a mix of species (JP, balsam, RM, oak) while the level areas are more JP.																																					
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4	42290 - Natural Mixed Pine	Sapling Well	42.1	24	Immature	N/A	OPIC - FMD: Cut in 1993 as "Section 20 Jack Pine" #044-91-01. Fairly thick jack pine regeneration, especially along the road. Scarification never completed (FTP 42-307). May have had some areas machine planted in 1995 - FTP 42-373, but records are unclear.																																					
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5	42290 - Natural Mixed Pine	Sapling Well	84.4	33	Immature	N/A	Component of young red pine. Lots of terrain - NW/SE ridges. Some residual oak on the ridges. Residual RP and WP throughout. Some oak regeneration. Cut as sale #008-81-01. This portion of the sale does not appear to have been scarified.																																					
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6	500 - Water	Nonstocked	32.4		Unspecified	Managed Opening	Edge of Shelldrake Flooding - water to marshy edge.																																					
7	42120 - Planted Jack Pine	Sapling Well	100.3	27	Immature	N/A	Stand harvested in 1988 (030-84-01) and scarified (FTP 42-102) in 1994. Stand overall is thick with regeneration. Component of red oak and red maple regeneration. 2019: appears to be planted. Some maps indicate planting, but no record of planting or plant date. Old planting map book indicated that this was planted in 1992.																																					
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments	
8	42220 - Natural Jack Pine	Sapling Medium	93.9	6	1-50	N/A	Stand harvested via final harvest as sale #010-11-01, Three Part Jack Pine. Completed 04/30/2012. Scarification in late fall 2012 - FTP 42-780. Regen 2016: 607 TPA of jack pine. Residual basal area 10 to 20. 2019: regen looks pretty good through the snow. Rechecked in snow free conditions - fully stocked JP stand (pushing 75% canopy closure). Regen ~3-6' tall.	
Canopy Species		% Cover	Size Class	DBH	Age			
Jack Pine	75	Sapling	1	6				
Red Pine	15	Log/Pole	12					
9	42120 - Planted Jack Pine	Sapling Well	50.9	19	Immature	N/A	Cut as sale "Section 19 Jack Pine", #040-91-01, in 1993. FTP42-322: scarification 8/1994 with regen count in 1998. Stocking low at that time, and planting was scheduled for May, 2000 (51,000 JP). Walk-thru check 7/8/08 - stand fully stocked. Jack pine now 8-12' in height. Fresh evidence of insect activity (spittlebug). 2009 - JP 8-12 ft tall. Pretty thick in spots, fully stocked stand. More open along E and W stand edges. A little budworm damage.	
Canopy Species		% Cover	Size Class	DBH	Age			
Jack Pine	95	Sapling	3	19				
10	42120 - Planted Jack Pine	Sawtimber Well	44.3	79	Unspecified	N/A	Mature jack pine with larger diameter RP and WP as well as some stunted RP. Scattered clumps of white birch and occasional oak. Pockets of blowdown, SE corner. Jack pine is overmature and showing mortality and decline. Old records indicate that this was planted to Norway pine or Norway/jack pine mix in 1940.	
Canopy Species		% Cover	Size Class	DBH	Age			
Jack Pine	85	Log/Pole	10	79				
Red Pine	15	Log	13					
		Sub-Canopy Species		Density	Avg. Height	Size		
		Black Spruce		Low	Variable	Sapling		
11	42120 - Planted Jack Pine	Sapling Well	73.6	19	Immature	N/A	Boggy inclusions. "Swampy Jack Pine" #042-91-01. Cut 1994. FTP42-358: scarified 11/1994. Regen count in June, 1998. Planting scheduled for May, 2000 (44,000 JP). Walk-thru check on 7/8/2008 - stand fully stocked. Jack pine from 10-12' in height. Quite an abundance of RP seedlings noted, also (2' ht). Fresh evidence of insect activity (spittlebug). 2009 - Nice jack pine regeneration 10-15 ft tall, fairly thick with average of 10BA of residual red pine, up to 30-40 BA in spots. Also maple, red pine and oak regeneration.	
Canopy Species		% Cover	Size Class	DBH	Age			
Jack Pine	60	Sapling	3	19				
Red Pine	10	Sapling	2					
Red Pine	20	Log	12					
12	320 - Upland Shrub	Nonstocked	61.7	0	Unspecified	4212 - Planted Jack Pine	Stand harvested via final harvest as sale #42-009-11-01, Dry Creek Jack Pine. Completed 12/04/12. Scarification work never completed (FTP 42-781). Red pine residual and small low pocket inclusions left. Regen 2016: 342.5 TPA of jack pine, 24.5 TPA of red pine. Residual basal area around 10. TPA is average between this stand and stand 20/34. 2019: Checked for regen in snow free conditions - little to no JP or RM. Scattered RP/WP residual.	
		Sub-Canopy Species		Density	Avg. Height	Size		
		Red Pine		Medium	>20 feet	Log		
		White Pine		Low	>20 feet	Log		
		Red Maple		Low	5 - 10 feet	Sapling		
		Paper Birch		Low	5 - 10 feet	Sapling		
		Black Spruce		Low	Variable	Sapling		
		Jack Pine		Low	< 5 feet	Sapling		
13	42120 - Planted Jack Pine	Sapling Well	67.6	27	Immature	N/A	Sale #031-84-01. Cut in 1987. FTP 42-104 for scarification. No records that scarification was complete and area appears to be planted (no records for this either, other than note on a map). Old plantation map book indicates this was planted in 1992. Scattered residual oak. Component of red maple stump sprouts.	
Canopy Species		% Cover	Size Class	DBH	Age			
Jack Pine	95	Sapling	3	27				



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																								
14	42220 - Natural Jack Pine	Poletimber Well	22.3	38	Unspecified	N/A	Hilly. Sale #013-77A. Cut in 1978. Scarified in 1980 - FTP 175. Seeded in 1981 - FTP 42-109. Well stocked stand with scattered red pine residual mainly the southern half of stand.																																								
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15	42220 - Natural Jack Pine	Poletimber Well	87.4	78	Unspecified	N/A	OPIC - FMD: Thick stand, smaller diameters. Very hilly stand, lots of topography. Pockets with high % of mortality. Some mortality. Very recent harvest on the east side of the stand. Scattered oak.																																								
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16	42290 - Natural Mixed Pine	Sapling Medium	51.1	14	1-50	N/A	OPIC - FMD: W Shelldrake Pine (42-007-01-01). Completed 6/3/04. Scarification/cultural work completed as of 10/05 (42-542). Regeneration count completed 5/29/08 = 262 t/ac (26 t/ac J <1' ht, 184 W, 52 R). Continue to monitor for success. Average residual BA = 20 (up to 60). 2009 - showing some regeneration of JP, RP, and WP, mostly WP. Best regen is in areas of skid trails. Regen average 1-3 ft tall. Pockets of residual pine. 2019 - 10-20' tall regen. Occasional oak. Not as much regen under heavier residual patches.																																								
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17	42290 - Natural Mixed Pine	Sawtimber Well	9.6	87	51-80	N/A	Mainly red pine with white pine logs over jack pine and white pine understory. Cut as part of #13-77A (with stand 14 to the north). Probably scarified in 1980 - FTP 175 and seeded in 1981 - FTP 42-109. Heavier residual than stand to the north, so jack pine is more stunted, but high density of jack pine sap/pole overall.																																								
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18	42220 - Natural Jack Pine	Sapling Well	106.0	34	Immature	N/A	Sale #009-81-01. Cut 1985. Scarified in 1985 - FTP 42-098. Nice jack pine regeneration, thick. Residual red pine in west 1/3 of stand (<10 BA).																																								
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19	42290 - Natural Mixed Pine	Sawtimber Medium	32.5	66	81-110	N/A	Two aged/multi aged pine stand. Mainly red pine with white pine, jack pine. Very thick understory of RP, WP, JP, spruce, and balsam. Lots of structural diversity in the stand. Pockets of larger diameter (pole size) JP, with areas of sap/pole JP.																																								
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20	42220 - Natural Jack Pine	Sapling Medium	88.2	7	1-50	N/A	2019: JP poking up through snow (~3-6' tall). Checked in snow free conditions - medium stocked JP overall. Stand harvested via final harvest as sale #42-009-11-01, Dry Creek Jack Pine. Completed 12/04/12. Scarified in 2012 under FTP 42-781. Regen 2016: 342.5 TPA of jack pine, 24.5 TPA of red pine. Residual basal area around 10. TPA is average between this stand and stand 12.																																								
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21	42110 - Planted Red Pine	Sawtimber Poor	37.4	79	1-50	N/A	Planted in spring 1940 to Norway/jack pine mix. Stand harvested as "Tetris Jack Pine" #008-01-01. Completed 5/7/03. Scarification of site completed 9/05 (some regen was already established) - FTP #42-543. Regeneration count completed 5/23/08 = 191 t/ac (80 t/ac JP 1-2' ht, 32 RP, 16 WP, 16 BF, 47 Sp). Seedlings around 1' in overall heights. Average residual of 40 BA. 2009 - J2, regen is patchy. North half (2019 - current stand 21) is fairly open with pockets of regen 1-4 ft tall. Southern 1/3 (2019 - now stand 32) and west part of stand (2019 - now stand 33) - high residual of RP (up to 60BA). Some rem maple and oak regen 1-2 ft. Maple stump sprouts and white pine regen where RP BA is high. 2019 - check regen again, in newly split stands (21, 32 & 33) in snow free conditions.																															
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22	4319 - Mixed Upland Forest	Sapling Well	36.8	34	1-50	N/A	Sale #027-82-01. Cut in 1985. Most of the hardwoods was removed. All yellow birch and red maple with a 16" or greater stump were cut; WP was marked to cut; all other species were cut. Stand is now a large diameter white pine stand over low quality M4 and very thick M3 regeneration (WB, RM, Bal, Sp). Lots of white birch regen. Stand 31 was broken out due to being more of a clearcut than the rest of the stand. There are smaller pocket clearcuts within this stand.																															
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23	42220 - Natural Jack Pine	Sapling Well	26.7	32	Immature	N/A	Sale #029-84-01. Cut complete 8/27/87. Full tree harvested. Not scarified (FTP 42-100). J3 stand. Fairly thick.																															
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24	42220 - Natural Jack Pine	Poletimber Well	125.2	38	Unspecified	N/A	Sale #5-77A. Cut complete 10/16/79. Scarified in 1980 - FTP 172 and seeded in 1981 - FTP 42-110. Thick stand of jack pine.																															
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25	42210 - Natural Red Pine	Sawtimber Well	1.7	100	51-80	N/A	Dead Creek corridor.																															
26	42210 - Natural Red Pine	Sawtimber Well	3.9	100	51-80	N/A	Steep slope from upland down to lowland.																															
27	42220 - Natural Jack Pine	Sapling Well	20.2	33	Immature	N/A	Component of young red pine. NW/SE ridges. Some residual oak on the ridges. Residual RP and WP throughout. Some oak regeneration. Cut as sale #008-81-01. Scarified in 1986 - FTP 42-096.																															
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28	622 - Lowland Shrub	Nonstocked	5.3	0	Unspecified	No	Dead Creek corridor.																															
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30	42220 - Natural Jack Pine	Sapling Well	14.5	33	Immature	N/A	Thick regen. Component of young red pine. NW/SE ridges. Some residual oak on the ridges. Residual RP and WP throughout. Some oak regeneration. Cut as sale #008-81-01. Scarified in 1986 - FTP 42-096.																																			
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31	4319 - Mixed Upland Forest	Sapling Well	9.7	34	1-50	N/A	Sale #027-82-01. Cut in 1985. Most of the hardwoods was removed. Stand is now a large diameter white pine super canopy over very thick M3 regeneration (WB, RM, Bal, Sp). Lots of white birch regen. Regen ~30'+ tall.																																			
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32	42110 - Planted Red Pine	Sawtimber Well	18.5	79	111-140	N/A	Planted in spring 1940 to Norway/jack pine mix. Stand harvested as "Tetris Jack Pine" #008-01-01. Completed 5/7/03. Scarification of site completed 9/05 (some regen was already established) - FTP #42-543. Regeneration count completed 5/23/08 = 191 t/ac (80 t/ac JP 1-2' ht, 32 RP, 16 WP, 16 BF, 47 Sp). Seedlings around 1' in overall heights. Average residual of 40 BA. 2009 - J2, regen is patchy. North half (2019 - now stand 21) is fairly open with pockets of regen 1-4 ft tall. Southern 1/3 (2019 - current stand 32) and west part of stand (2019 - now stand 33) - high residual of RP (up to 60BA). Some rem maple and oak regen 1-2 ft. Maple stump sprouts and white pine regen where RP BA is high. 2019 - check regen again, in newly split stands (21, 32 & 33) in snow free conditions.																																			
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33	42110 - Planted Red Pine	Sawtimber Medium	28.1	79	81-110	N/A	Planted in spring 1940 to Norway/jack pine mix. Stand harvested as "Tetris Jack Pine" #008-01-01. Completed 5/7/03. Scarification of site completed 9/05 (some regen was already established) - FTP #42-543. Regeneration count completed 5/23/08 = 191 t/ac (80 t/ac JP 1-2' ht, 32 RP, 16 WP, 16 BF, 47 Sp). Seedlings around 1' in overall heights. Average residual of 40 BA. 2009 - J2, regen is patchy. North half (2019 - stand 21) is fairly open with pockets of regen 1-4 ft tall. Southern 1/3 (2019 - now stand 32) and west part of stand (2019 - current stand 33) - high residual of RP (up to 60BA). Some red maple and oak regen 1-2 ft. Maple stump sprouts and white pine regen where RP BA is high. 2019 - check regen again, in newly split stands (21, 32 & 33) in snow free conditions. Includes a couple low boggy pockets.																																			
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34	42110 - Planted Red Pine	Sawtimber Poor	25.9	79	1-50	N/A	Stand harvested via final harvest as sale #42-009-11-01, Dry Creek Jack Pine. Completed 12/04/12. Scarification work completed (FTP 42-781). Red pine residual and small low pocket inclusions left. Regen 2016: 342.5 TPA of jack pine, 24.5 TPA of red pine. Residual basal area around 10. TPA is average between this stand and stand 20/12. 2019: Checked for regen in snow free conditions - adequate variety of regeneration.																																			
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