



Compartment Review Presentation

Newberry Forest Management Unit

Compartment 42077

Entry Year 2022

Acreage: 1,513

County Luce

Management Area: Charcoal Grade

Revision Date: 2020-09-01

Stand Examiner: Lester Livermore

Legal Description:

T47N R8W Section 4-6

Identified Planning Goals:

Charcoal Grade Management Area.

Soil and topography:

The soil types in this compartment include Wallace Sand, Hendrie-Annanias complex, Carbondale-Lupton-Tawas, Zandi silt, Tawas-Spot-Finch, and Paquin Spot Complex. The compartment is mostly low ground with some ridges occurring throughout the landscape.

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

There is a private parcel in the middle of the compartment boundary just west of the Charcoal Grade. There is another private parcel in Section 6. The surrounding ownership is both state and private.

Unique Natural Features:

Michigan Natural Features Inventory (MNFI) lists potential for red-shouldered hawk, goshawk, great blue heron rookery, eagle, and osprey. Potential for moose and wolf and potential for wood turtle.

Archeological, Historical, and Cultural Features:

There is evidence of archeological sites in this compartment.

Special Management Designations or Considerations:

None at this time.

Watershed and Fisheries Considerations:

This compartment contains various tributaries to Penny and Savage Creeks which are both designated trout streams. Proposed treatments in stands where aspen regeneration is expected should adhere to a 300 ft buffer from any stream in this compartment.

Wildlife Habitat Considerations:

Compartment 77 lies in central Luce county and is in the Charcoal Grade Management Area. Featured species for the compartment include moose, American marten, spruce grouse and black bear. The compartment is predominantly hardwood and lowland conifer stands. There is a smattering of mixed deciduous and lowland mixed stands and the Savage creek runs through the compartment. Within stand diversity tends to be high. The numerous creeks and drainages in the compartment provide excellent wildlife travel corridors and especially good bear habitat.

Harvests will strive to maintain species diversity post-treatment to benefit wildlife species and will be regenerated to mixed species stands. Standing dead and hollow mature trees will be left intact and in place for future snags and nesting structures. Vernal ponds in stands will be protected. Wildlife species expected in this compartment include black bear, marten, coyote, bobcat, moose, hawks, and mink and otter.

Mineral Resource and Development Concerns and/or Restrictions

No known potential exists for commercial oil & gas production in this part of the state, and there is no known potential for metallic minerals in this area. The closest active sand/gravel pit is just over two miles to the north. There may be some potential for sand & gravel within the compartment, but much of the compartment appears to be covered by wetlands, which could inhibit any surface development. No current mineral leasing activity exists in the area.

Vehicle Access:

The charcoal grade is the main access, bisecting the compartment. Forest access two-tracks that spur off of the grade are either accessible by automobile, or by ATV/snowmobile; some spurs are closed to forest management access only. The extreme NW corner of the compartment is accessible through private land.

Survey Needs:

Possible survey needs in the SWSE of Section 4.

Recreational Facilities and Opportunities:

The Charcoal Grade is part of the snowmobile trail in the winter and is heavily used.

Fire Protection:

Large fire growth potential will be low because of lowland cover types. Risk to private properties would be low. Modified suppression tactics may need to be used because of the operability of heavy equipment in the lowland cover types.

Additional Compartment Information:

None.

The following reports from the Inventory are attached:

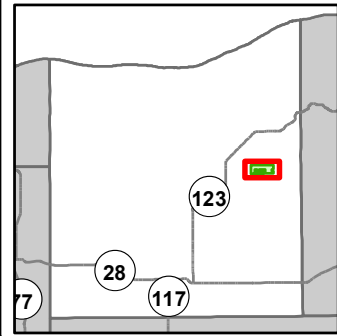
- Total Acres by Cover Type and Age Class**
- Cover Type by Harvest Method**
- Proposed Treatments – No Limiting Factors**
- Proposed Treatments – With Limiting Factors**
- Stand Details (Forested and Nonforested)**
- Dedicated and Proposed Special Conservation Areas**
- Site Condition Details**

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

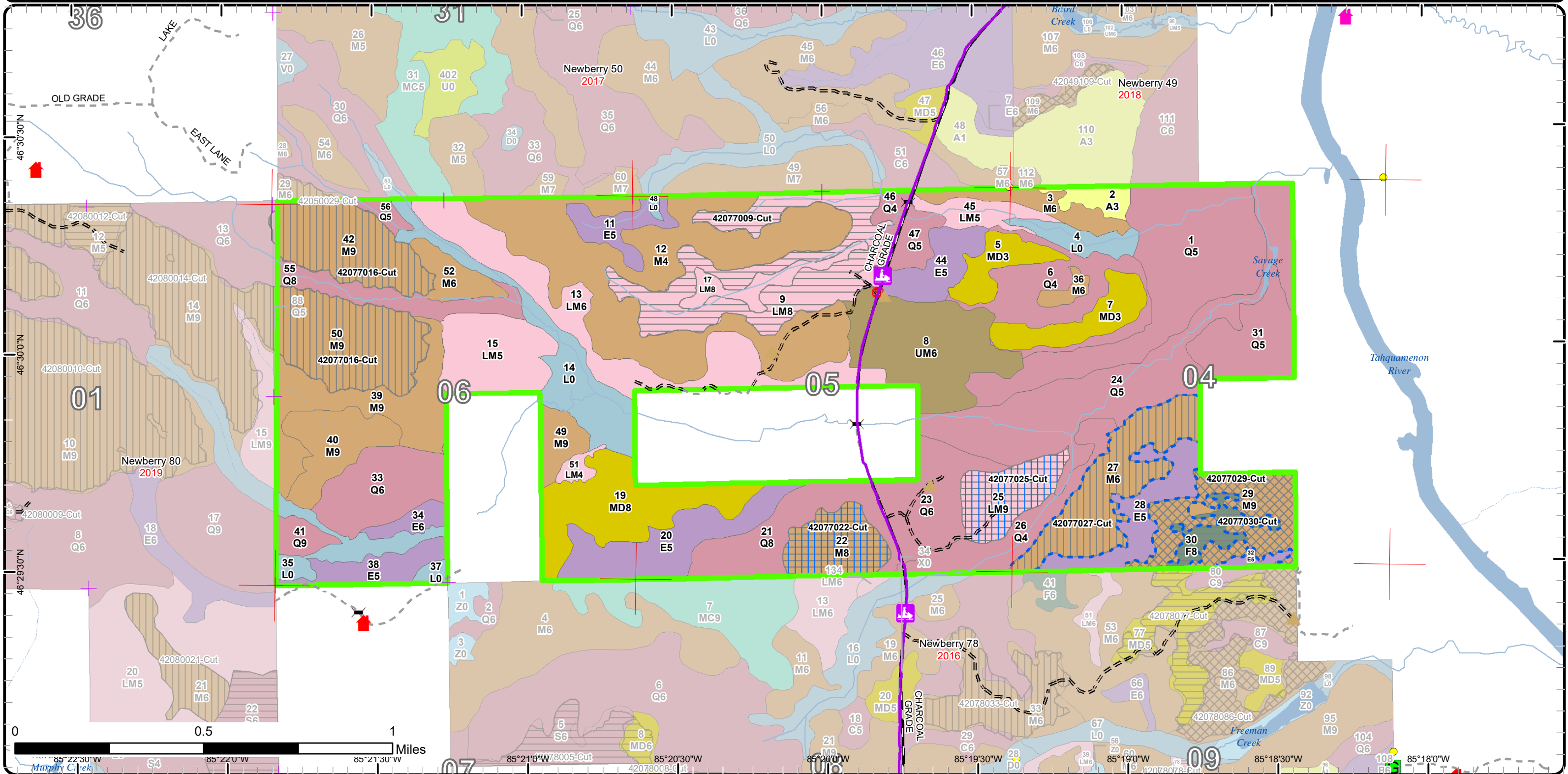
- Base feature information, stand boundaries, cover types, and numbers**
- Proposed treatments**
- Site condition boundaries**
- Details on the road access system**

Cover Type & Treatments Map

Compartment: 77
 T47N, R08W, Sec. 4-6
 County: Luce
 Unit: Newberry
 Mgmt Area: Charcoal Grade
 YOE: 2022
 Acres: 1513.1 GIS Calculated
 Examiner: Lester Livermore
 Map Revised: 1/25/2021
 Map Phase: Post-Review

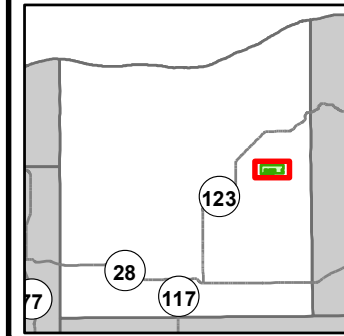


- Miris Corners
- Remonumented Section Corners
- Survey Grade Corners
- Counties
- DNR - Primary Forest Road
- DNR - Forest Access Route
- Private - Dirt / Gravel Road
- Snowmobile Trails
- Designated Snowmobile Trails
- Cabin
- Structure, Seasonal Dwelling
- Berms
- Gate
- Bridges
- Sign
- Intermittent Stream
- Lake/Pond
- Perennial River
- Lakes and Rivers
- Compartment Boundary
- Treatments with Site Conditions
- Selection (Group, Single Tree)
- Clearcut (w/Reserves)
- Seed Tree (w/Reserves)
- Shelter Wood (w/Reserves)
- 411 - Northern Hardwood
- 413 - Aspen
- 419 - Mixed Upland Deciduous
- 423 - Other Upland Conifers
- 430 - Upland Mixed Forest
- 611 - Lowland Deciduous Forest
- 612 - Lowland Coniferous Forest
- 613 - Lowland Mixed Forest
- 622 - Lowland Shrub

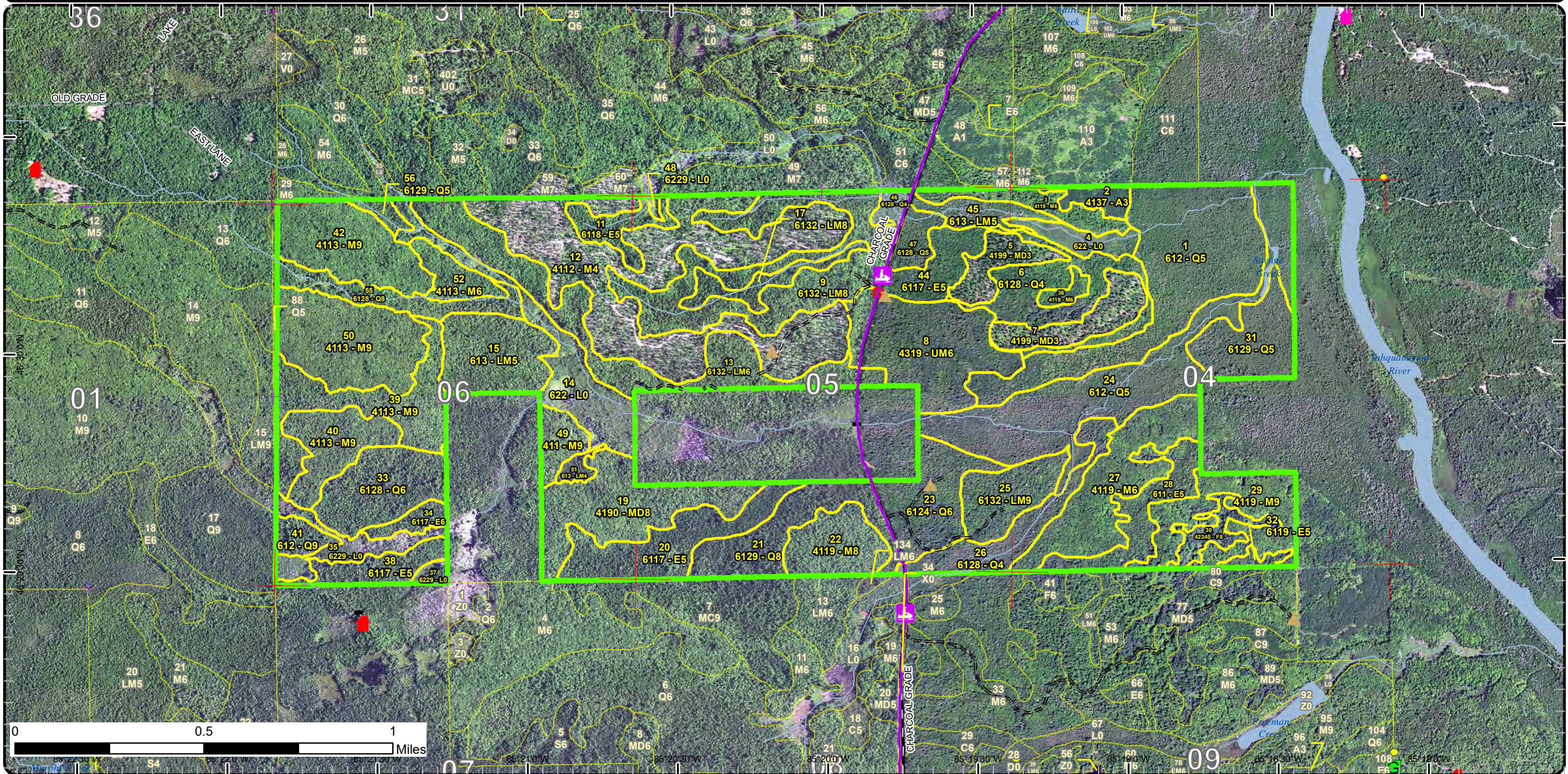


Stand Boundary Map

Compartment: 77
 T47N, R08W, Sec. 4-6
 County: Luce
 Unit: Newberry
 Mgmt Area: Charcoal Grade
 YOE: 2022
 Acres: 1513.1 GIS Calculated
 Examiner: Lester Livermore
 Map Revised: 1/25/2021
 Map Phase: Post-Review

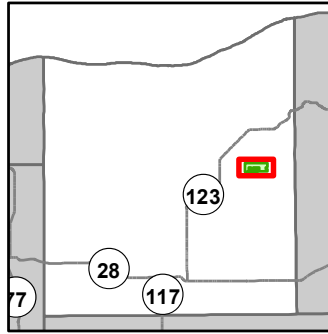


- Miris Corners
- + Remonumented Section Corners
- Survey Grade Corners
- Counties
- DNR - Primary Forest Road
- DNR - Forest Access Route
- Private - Dirt / Gravel Road
- Snowmobile Trails
- Designated Snowmobile Trails
- Cabin
- Structure, Seasonal Dwelling
- ▲ Berms
- G Gate
- Bridges
- Sign
- Intermittent Stream
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- Lakes and Rivers
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- Stand Boundaries
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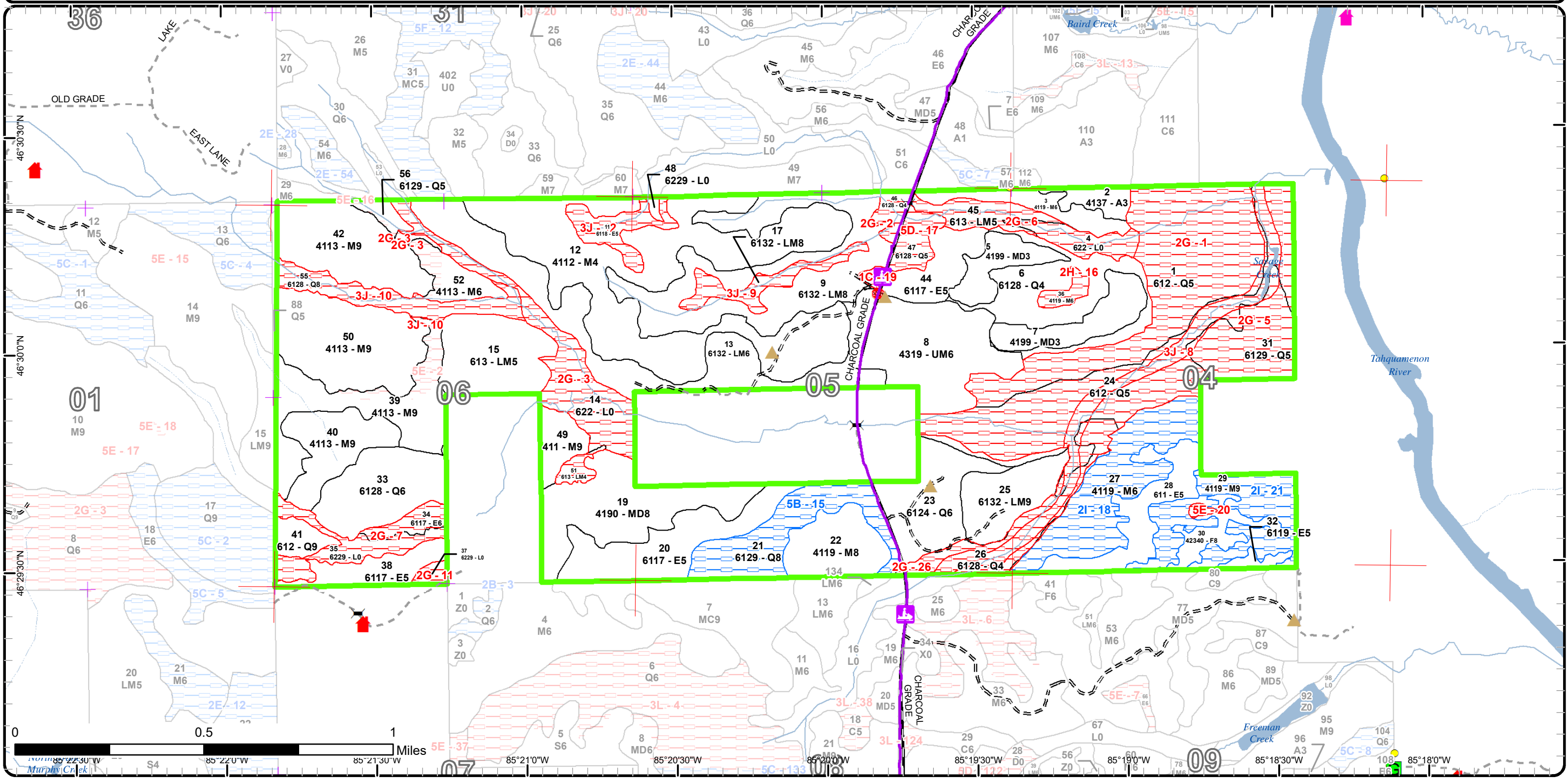


Special Conservation Areas

Compartment: 77
 T47N, R08W, Sec. 4-6
 County: Luce
 Unit: Newberry
 Mgmt Area: Charcoal Grade
 YOE: 2022
 Acres: 1513.1 GIS Calculated
 Examiner: Lester Livermore
 Map Revised: 1/25/2021
 Map Phase: Post-Review



- Miris Corners
- + Remonumented Section Corners
- Survey Grade Corners
- Counties
- DNR - Primary Forest Road
- DNR - Forest Access Route
- Private - Dirt / Gravel Road
- ↕ Snowmobile Trails
- Designated Snowmobile Trails
- 🏠 Cabin
- 🏠 Structure, Seasonal Dwelling
- ▲ Berms
- G Gate
- ↔ Bridges
- STOP Sign
- Intermittent Stream
- Lake/Pond
- Perennial River
- Lakes and Rivers
- Compartment Boundary
- Available w/ Constraints
- Unavailable
- 2I: Survey needed
- 5B: Maintain for regeneration purposes
- 1C: Other dept or div proc/practices
- 2G: Too wet (sensitive soils, does not include access issues)
- 2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)
- 3J: Water quality / BMPs (stream, river, or lake)
- 5D: Unproductive Forest Land
- 5E: Long-Term Retention
- Stand Boundaries
- Cold Water Streams
- Cold Water Lakes



Report 1 – Total Acres by Cover Type and Age Class

Newberry Mgt. Unit

Compartment 77

Year of Entry 2022

Lester Livermore : 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	0	8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	8
Lowland Conifers	0	0	0	0	0	0	128	103	8	22	20	0	161	0	0	0	0	0	442
Lowland Deciduous	0	0	0	0	0	4	24	46	39	0	14	0	0	0	0	0	0	0	127
Lowland Mixed Forest	0	0	0	0	0	64	0	0	36	0	130	0	0	0	0	0	0	0	230
Lowland Shrub	72	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	72
Mixed Upland Deciduous	0	37	0	0	0	0	0	0	0	0	52	0	0	0	0	0	0	0	89
Northern Hardwood	0	0	0	0	0	0	0	0	16	16	260	0	0	0	0	0	0	180	472
Upland Mixed Forest	0	0	0	0	0	60	0	0	0	0	0	0	0	0	0	0	0	0	60
Upland Spruce/Fir	0	0	0	0	0	0	0	0	0	0	0	0	0	12	0	0	0	0	12
Total	72	37	8	0	0	128	152	149	99	38	476	0	161	12	0	0	0	180	1512



Report 2 – Treatment Summary

Newberry Mgt. Unit

Year of Entry: 2022

Acres of Harvest

Compartment 77

Total Compartment Acres: 1,513

Commercial Harvest - 234
 Harvests with Site Condition - 91
 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
Lowland Mixed Forest	73	0	0	26	0	0	0	0	0	98
Northern Hardwood	0	40	0	26	148	0	0	0	0	215
Upland Spruce/Fir	11	0	0	0	0	0	0	0	0	11
Total	84	40	0	52	148	0	0	0	0	325

Proposed and Next Step Treatments by Method

	Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current	325	0	0	0	0	0	0	0	0	325
Next Step	0	0	0	0	0	0	325	0	0	325
Total	325	0	0	0	0	0	325	0	0	649



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:

9	42077009-Cut	72.5	6132 - Mixed Lowland Forest with Cedar	Sawtimber Medium	98	51-80	Harvest	Clearcut with Retention	6117 - Lowland Deciduous, Mixed Coniferous	Two-Aged	No
<p><u>Prescription</u> Cut all species present except hemlock. Pocket retention 3 - 10% of stand acreage; Areas dominated by hemlock can serve as retention.</p> <p><u>Specs:</u> Retain one nesting tree (forked) per 10 acres where present. Acreage may change depending on exclusion wet areas of wet soils and hemlock pockets. Winter harvest due to wet soils.</p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable Regen:</u> Red maple, yellow birch, cedar, hemlock with black ash, balsam and spruce.</p> <p><u>Other Comment:</u> Look in locked comments before sale setup. Possible yellow birch regen specs. Portion of intermediate feeder stream site conditioned.</p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2021</p>											
50	42077016-Cut	98.2	4113 - R.Maple, Conifer	Sawtimber Well	94	81-110	Harvest	Shelterwood with Retention	411 - Northern Hardwood	Even-Aged	No
<p><u>Prescription</u> Shelterwood with retention. Remove all maple with top dieback, and all low quality, large diameter red maple. Residual should concentrate on healthy sugar maple and better quality red maple. Retain hemlock and a component of yellow birch and spruce. Remove merchantable balsam. Residual BA will range from 60-70 in areas of good quality, down to 30-40 in areas of low quality and top dieback. Treatment acreage will likely be less than prescribed due to low areas and more accurate stand delineation during sale prep work.</p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable Regen:</u> Red maple with sugar maple, hemlock, yellow birch, white pine, balsam and white birch.</p> <p><u>Other Comment:</u> Seedling and sapling sized beech is present in the understory. There is some supercanopy white pine present, low quality hardwoods with small diameters, scattered spruce and hemlock. There are some snags scattered throughout the stand as well.</p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/25/2017</p>											
22	42077022-Cut	26.1	4119 - Mixed Northern Hardwoods	Sawtimber Medium	98	81-110	Harvest	Seed Tree with Retention	411 - Northern Hardwood	Uneven- Aged	No
<p><u>Prescription</u> Seed tree 20 - 40 BA. Retain healthy, higher quality red maple, retaining variable size classes. Harvest in winter or dry summer based on wetter soil inclusions. Retain at least 1 large hemlock tree per 5 acres for future nest and bear escape trees. Protect large hollow snags to remain intact after harvest. Pocket retention 3 - 5%.</p> <p><u>Next Step</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Treatments:</u></p> <p><u>Acceptable Regen:</u> Red maple and yellow birch with spruce, balsam, hemlock and cedar.</p> <p><u>Other Comment:</u> Wind throw could be an issue where large poor quality individuals are retained in isolation.</p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2021</p>											



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Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
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25	42077025-Cut	25.8	6132 - Mixed Lowland Forest with Cedar	Sawtimber Well	98	81-110	Harvest	Seed Tree with Retention	611 - Lowland Deciduous Forest	Two-Aged	No
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Prescription Retain 20 - 40 basal area of healthy, better quality maple, yellow birch, cedar, white pine and hemlock where present. Retain at least 1 large hemlock per 5 acres. Protect large hollow snags to remain intact after harvest. Target over mature hardwoods for removal. Remove all other species present. Pocket retention of 3-5% in a diverse area of site.

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Maple, yellow birch, hemlock, spruce and cedar with balsam.

Regen:

Other Winter harvest based on soils and wet ground.

Comment:

Site Condition

Proposed Start Date: 10/1 /2021

27	42077027-Cut	50.2	4119 - Mixed Northern Hardwoods	Poletimber Well	98	111- 140	Harvest	Shelterwood with Retention	4119 - Mixed Northern Hardwoods	Two-Aged	No
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Prescription Shelterwood with reserves. Retain 30 - 50 BA of better quality poles and small sawlogs with priority being maple for cover and seed source. Retain white pine, hemlock and cedar unless needed for maneuverability. Protect understory spruce pockets. Pocket retention 3 - 10% stand acreage. Trail protections as needed.

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Maple with balsam, spruce cedar, white pine and beech.

Regen:

Other Portions of the stand may need to be harvested in the winter or dry summer. Access will be from the south or south east.

Comment:

Site Condition Survey Needed

Proposed Start Date: 10/1 /2021

29	42077029-Cut	40.4	4119 - Mixed Northern Hardwoods	Sawtimber Well	98	171- 200	Harvest	Single Tree Selection	411 - Northern Hardwood	Uneven- Aged	No
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Prescription Thin to approximately 80 -90 BA targeting lower quality maple and mature individuals of all species present. Leave any xlarge white pine and cedar if and where present.

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Sugar and red maple with balsam spruce and yellow birch.

Regen:

Other Minimal lower areas found that could be delineated out of the treatment upon prep. Possible access from private on SE corner.

Comment:

Site Condition Survey Needed

Proposed Start Date: 10/1 /2021



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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
30 42077030-Cut	11.3	42340 - Upland Spruce/Fir	Sawtimber Medium	121	51-80	Harvest	Clearcut	4319 - Mixed Upland Forest	Even-Aged	No
<p><u>Prescription Specs:</u> Harvest all species present. No retention based on small acreage. Leave a few large red maple in the unit line and scattered cherry as they occur.</p> <p><u>Next Step Treatments:</u> Monitoring, Natural Regen (Intermediate)</p> <p><u>Acceptable Regen:</u> Sugar maple, red maple, cherry, spruce and balsam.</p> <p><u>Other Comment:</u> Stand would make a good spot for access road and decking.</p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2021</p>										

Total Treatment Acreage Proposed: 324.5

Report 4 – Site Conditions

Newberry Mgt. Unit
Lester Livermore : Examiner

Compartment: 77
Year of Entry: 2022



Availability for Management

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

	Total Acres	Acres Available	Acres Available With Condition	Acres Not Available	Dominant Site Conditions									
					2I	5B	5F	1C	2G	2H	3J	5D	5E	
8	8	0	0		Aspen									
443	125	37	281			37				211		59	10	1
127	106	0	21							7		14		
230	199	0	31				0	2	16			13		0
72	1	0	71						70					1
89	89	0	0		Mixed Upland Deciduous									
472	362	90	19		90				0	4	0			15
60	60	0	0		Upland Mixed Forest									
12	12	0	0		Upland Spruce/Fir									
1,513	963	128	423		90	37	0	2	305	4	85	10	17	
	64%	8%	28%		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	2G: Too wet (sensitive soils, does not include access issues)	131	5D: Unproductive Forest Land	Unspecified	Unspecified	Unspecified
Comments:							
2	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	6				
Comments: Wet stand; Penny Creek flowing throughout.							

Report 4 – Site Conditions



Newberry Mgt. Unit

Lester Livermore : Examiner

Compartment: 77

Year of Entry: 2022

3	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	42	5D: Unproductive Forest Land	3J: Water quality / BMPs (stream, river, or lake)	Unspecified	Unspecified
Comments:							
5	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	66	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
6	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	24	3J: Water quality / BMPs (stream, river, or lake)	Unspecified	Unspecified	Unspecified
Comments: Penny creek and surrounding RMZ.							
7	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	25	3J: Water quality / BMPs (stream, river, or lake)	5D: Unproductive Forest Land	Unspecified	Unspecified
Comments:							
8	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	36	5D: Unproductive Forest Land	2G: Too wet (sensitive soils, does not include access issues)	Unspecified	Unspecified
Comments: Savage creek and tributaries.							
9	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	13	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions



Newberry Mgt. Unit

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10	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	23	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Stream and RMZ occupy majority of the site.							
11	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	3	3J: Water quality / BMPs (stream, river, or lake)	Unspecified	Unspecified	Unspecified
Comments:							
12	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	14	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
15	Available	5B: Maintain for regeneration purposes	37	Unspecified	Unspecified	Unspecified	Unspecified
Comments: See stand comment for regeneration details.							
16	Unavailable	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	4	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Access to the stand would require frozen in ice road across the surrounding lowlands.							
17	Unavailable	5D: Unproductive Forest Land	10	5A: Not able to obtain desirable regeneration	Unspecified	Unspecified	Unspecified
Comments: Low quality site not ready for harvest.							

Report 4 – Site Conditions

Newberry Mgt. Unit
Lester Livermore : Examiner

Compartment: 77
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18	Available	2I: Survey needed	50	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
19	Unavailable	1C: Other dept or div proc/practices	2	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
20	Unavailable	5E: Long-Term Retention	1	2G: Too wet (sensitive soils, does not include access issues)	Unspecified	Unspecified	Unspecified
Comments: Wet black spruce pocket.							
21	Available	2I: Survey needed	40	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
26	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	9	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Mgt. Unit

Compartment: #Type!

Year of Entry:



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

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

SCA Name	SCA Category	Detail Type	Recommendation	Acres
Comments				



Report 6 – EXISTING SPECIAL CONSERVATION AREA DETAILS

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

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

Conservation Area	Type	Description
SCA	Cold Water Lake	A coldwater lake has temperature and dissolved oxygen conditions that allow naturally-reproduced or stocked trout populations and those of other coldwater fish species to persist from year to year. Suitable conditions for coldwater fishes may occur in Michigan lakes if they are relatively deep, have substantial groundwater inflows, or are located in colder (northern) areas of the state. Such lakes are established by Director's action and designated as trout resources by Fisheries Order 200.
SCA	Cold Water Stream	A coldwater stream has temperature and dissolved oxygen conditions that allow naturally-reproduced or stocked trout populations and those of other coldwater fish species (e.g., slimy sculpin) to persist from year to year. Coldwater streams in Michigan typically provide these conditions due to substantial contributions of groundwater to their stream flows. Such streams are established by Director's action and designated as trout resources by Fisheries Order 210.



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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1	612 - Lowland Coniferous Forest	Poletimber Medium	93.3	118	1-50	N/A	The stand is sap/pole sized mix conifer types. It borders the Penny Creek Mix (028-03-01, Complete 10/18/07). There are some super canopy, sawlog size/quality white pine.
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2	4137 - Aspen, Birch	Sapling Well	8.3	14	Immature	N/A	This stand is full of small diameter (1-2 inch diameter) aspen whips approximately 3-5 feet tall. Stand harvested as "Penny Creek Mix", sale #028-03-01. Completed 10/18/07. Regen check in 2011.
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3	4119 - Mixed Northern Hardwoods	Poletimber Well	15.5	76	51-80	N/A	Portions of the stand more E type. Overstory dominated by larger pole sized maple with aspen and mixed conifer in association. Decent succession into the canopy from regeneration post-harvest last entry.
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Sugar Maple	25	Pole	7	76	Red Maple	Medium	Variable	Sapling
Red Maple	35	Pole	7	76	Quaking Aspen	Low	10 - 20 feet	Sapling
Quaking Aspen	15	Pole	8		Balsam Fir	Low	Variable	Sapling
Hemlock	8	Log	12		Northern White Cedar	Low	5 - 10 feet	Sapling
Balsam Fir	5	Pole	6					
Beech	1	Pole/Log	8					
White Pine	1	Log	10					
Northern White Cedar	10	Pole	7					

Stand harvested as "Penny Creek Mix", sale #028-03-01. Completed 10/18/07. Regen check needed in 2011.

4	622 - Lowland Shrub	Nonstocked	11.4			No	Stand able to sustain shrubs. Wet site that floods in wet years.
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5	4199 - Other Mixed Upland Deciduous	Sapling Well	15.7	7	1-50	N/A	Two-aged sapling stand post harvest. Good mix of aspen, cherry and maple throughout; medium to full stocking. Mostly small log sized maple residing in the harvest residual.
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Sugar Maple	20	Sapling	1	7	Wild Red Raspberry	Low	5 - 10 feet	Tall Shrub
Red Maple	10	Sapling	1	7	Maple (spp.)	Medium	< 5 feet	Seeding
Black Cherry	22	Sapling	1	7				
Quaking Aspen	25	Sapling	1	7				
Sugar Maple	10	Log	13	105				
White Pine	2	Log	13	105				
White Spruce	8	Sapling/Pole	4					
Black Cherry	3	Log	12					

2/25/2016: Seed tree cut in 2014 - Savage Creek Hardwood 420501201. Left all yellow birch, hemlock, white pine, cedar, spruce and any green painted trees.

6	6128 - Lowland Coniferous, Mixed Deciduous	Poletimber Poor	37.8	66	1-50	N/A	Small Q-type area surrounded by low quality hardwoods. Some cedar pockets with spruce and other low quality trees. There is some aspen and balsam fir present.
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Northern White Cedar	15	Pole	6		Balsam Fir	High	>20 feet	Sapling
Black Spruce	20	Pole	6	66	Red Maple	Medium	Variable	Sapling
Red Maple	20	Pole	5					
Paper Birch	10	Pole	5					
Balsam Fir	20	Pole	6					
Hemlock	5	Pole/Log/XLog	8					
White Pine	5	Pole/Log	8					

Merged trimmings from minor changes in stand acreage after previous harvesting in 5 and 7.



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																															
7	4199 - Other Mixed Upland Deciduous	Sapling Well	21.7	7	1-50	N/A	Two-aged sapling stand post harvest. Good mix of aspen, cherry and maple throughout; medium to full stocking. Mostly small log sized maple residing in the harvest residual. 2/25/2016: Seed tree cut in 2014 - Savage Creek Hardwood 420501201. Left all yellow birch, hemlock, white pine, cedar, spruce and any green painted trees.																																																															
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8	4319 - Mixed Upland Forest	Poletimber Well	60.4	47	51-80	N/A	Variable stand dependant on soil and wetness. Northeastern Lowland areas dominated by pole sized black spruce with white pine poles in association. Other lowlands scattered throughout have higher component of red maple, cedar and white pine. Some cedar regen. Upland portions contain very low quality red maple poles and small sawlogs with birch and scattered cedar in association with variable stocking of supercanopy white pine. Understory dominated by balsam fir. Areas of transition between strata have hemlock groves containing xl log hemlock, yellow birch and white pine excluded from previous management. moderately steep ridge in the central part of standing running NW and SE.																																																															
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9	6132 - Mixed Lowland Forest with Cedar	Sawtimber Medium	75.1	98	51-80	N/A	BA variable depending on soils and topography but ranges from 30 to 130; average around 75. Lowland hardwood Kotar type. Semi-dry lowlands LM8 - LM6 type with higher areas of M7 with balsam understory or UM6 or H9. Infrequent areas dominated by either log sized cedar, log sized hemlock or both. Some vernal ponds scattered that probably drain into to Penny Creek in the spring. Small creek within the site delineated out of the stand. Evidence of old harvest in some areas.																																																															
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11	6118 - Lowland Deciduous with Cedar	Poletimber Medium	13.6	98	1-50	N/A	OPIC - FMD: Stand is really wet, especially around the Charcoal Grade. Branches of the Penny Creek run through the stand. It is a low quality stand and it has sparse canopy cover in some areas. There is some cedar regeneration present.																																																															



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																																
12	4112 - Maple, Beech, Cherry Association	Poletimber Poor	142.4	95	1-50	N/A	Stand contains maple, hemlock, spruce, cedar, and scattered yellow birch. Subcanopy is full of red maple saplings with spruce, and cherry in association. Clover seeding very successful on road bed. Further evaluation on oak planting mortality to be conducted to decide to replant more oak on the site.																																																																
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13	6132 - Mixed Lowland Forest with Cedar	Poletimber Well	63.7	47	81-110	N/A	Lowland, hummocky ground with variable quality trees. Scattered hardwood pockets. There are some cedar that have been windthrown. Western area very wet with flooding around the Savage Creek drainage area. Species include black spruce, black ash, yellow birch, and frequent tag alder in the west. Central and eastern portions dominated by pole/log red maple, with xl log/log hemlock, cedar and yellow birch. Hemlock, cedar and balsam regen. Stand borders private.																																																																
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14	622 - Lowland Shrub	Nonstocked	39.4	184		No	Stand is full of tag alder and is in the drainage area of Savage Creek. There are some Q and C-types scattered on the north and south edges of the stand.																																																																
15	613 - Lowland Mixed Forest	Poletimber Medium	36.4	71	51-80	N/A	Lowland stand with good species diversity. The understory contains balsam fir, red maple, and black ash. There are some scattered pockets of log and pole sized hemlock and yellow birch. There are some seedling/sapling sized beech pockets scattered throughout the area (all stems that were checked has evidence of BBD). Other species include white pine and black spruce.																																																																
17	6132 - Mixed Lowland Forest with Cedar	Sawtimber Medium	12.7	98	51-80	N/A	BA variable depending on soils and topography but ranges from 30 to 130; average around 75. Lowland hardwood Kotar type. Semi-dry lowlands LM8 - LM6 type with a ridges of M7 with balsam understory or UM6 or H9. Some vernal ponds scattered that probably drain into to Penny Creek in the spring. Stand was delineated from surrounding stand based on higher conifer component and feeder creek.																																																																
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Hemlock	Low	Variable	Sapling																																																																				
19	4190 - Mixed Upland Deciduous with Cedar	Sawtimber Medium	52.0	96	81-110	N/A	Mixed stand with central most upland portion dominated by red maple and sugar maple large poles and logs. Eastern and northern portions have a heavy conifer component; most likely cedar and hemlock with some white pine. Difficult access. Treat stand with hardwoods to the south next entry.																																																																



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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20 6117 - Lowland Deciduous, Mixed Coniferous Poletimber Medium 39.3 71 51-80 N/A

21 6129 - Mixed Coniferous Lowland Forest Sawtimber Medium 37.0 111 81-110 N/A

Drier portions of stand dominated by large pole/small log sized cedar with hemlock and red maple in association; occasional super canopy white pine; approximately 80 - 120 BA. Lots of cedar regen in those areas 3 - 12 feet tall with some open canopy to recruit. Southern portion has higher percentage of log/xl white pine and hemlock. Stand appears to have some productivity in recruitment from cedar, red maple, ext. Wetter areas of stand have lower site index with similar composition; pole and sapling size classes occupy canopy. Reevaluate in 20 years.

Canopy Species	% Cover	Size Class	DBH	Age
White Pine	15	Log/Pole/XLog	14	111
Black Spruce	8	Pole	7	
Red Maple	15	Pole/Log	9	
Paper Birch	1	Pole	5	46
Northern White Cedar	36	Pole/Log	8	111
Hemlock	20	Log/Pole	12	

Sub-Canopy Species	Density	Avg. Height	Size
Balsam Fir	Medium	Variable	Sapling
Red Maple	Low	10 - 20 feet	Sapling
Black Spruce	Low	5 - 10 feet	Sapling
Northern White Cedar	High	5 - 10 feet	Sapling
Black Ash	Trace	Variable	Sapling
White Pine	Medium	Variable	Sapling

22 4119 - Mixed Northern Hardwoods Sawtimber Medium 26.1 98 81-110 N/A

BA 90 -160. Moderate quality hardwood throughout. Overmature red maple dominate majority of the stand with suppressed red maple saplings 3-5 feet in height and balsam sap/poles in association. No recruitment from maple saplings/seedlings except in canopy gaps where overmature maple died out.

Canopy Species	% Cover	Size Class	DBH	Age
Red Maple	75	Log/XLog/Pole	14	98
Hemlock	5	Log	10	
Yellow Birch	10	Log/XLog	15	
Northern White Cedar	5	Log	12	
White Spruce	5	Pole/Log	9	

Sub-Canopy Species	Density	Avg. Height	Size
Balsam Fir	Low	>20 feet	Sapling
Red Maple	High	< 5 feet	Sapling
White Spruce	Low	Variable	Sapling
Hemlock	Trace	10 - 20 feet	Sapling
Yellow Birch	Low	Variable	Sapling
White Pine	Trace	Variable	Sapling

23 6124 - Lowland Spruce-Fir Poletimber Well 35.2 57 51-80 N/A

Variable stand with variable levels of balsam, spruce and red maple with cedar. Some areas of the stand is 2 aged with white pine overtopping, especially in the southern portion of the stand. Some cedar regen found.

Canopy Species	% Cover	Size Class	DBH	Age
Black Spruce	20	Pole/Sap/Log	5	
Red Maple	20	Pole/Sap/Log	6	
Balsam Fir	30	Pole/Log/Sap	6	57
Paper Birch	5	Pole	6	
Northern White Cedar	10	Pole/Log	8	
White Pine	10	XLog	20	
Hemlock	5	Pole/Log	9	

Sub-Canopy Species	Density	Avg. Height	Size
Northern White Cedar	Medium	Variable	Sapling
Balsam Fir	Medium	Variable	Sapling

24 612 - Lowland Coniferous Forest Poletimber Medium 93.1 56 1-50 N/A

Stand occupies the savage creek and surrounding riparian zone.



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																													
25	6132 - Mixed Lowland Forest with Cedar	Sawtimber Well	25.8	98	81-110	N/A	Upland areas are moderate quality hardwood site. Lower areas are lowland hardwood w/ cedar. Several large hardwood snags throughout the overmature canopy (yellow birch, maple). Balsam dominating recruitment into the canopy with some maple and yellow birch saplings.																																																													
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26	6128 - Lowland Coniferous, Mixed Deciduous	Poletimber Poor	28.0	69	1-50	N/A	Stand exists around the flood basin of a tributary of savage creek. Areas that flood more often contain lower site index and lower product sizes and visa-versa.																																																													
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27	4119 - Mixed Northern Hardwoods	Poletimber Well	50.2	98	111-140	N/A	Best hardwoods are in the southern portion of the stand. Smaller diameters and more conifer as you approach the lowlands to the west. More cedar component in the northern portion with more conifer in general. Several drains in the northern portion of the stand.																																																													
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28	611 - Lowland Deciduous Forest	Poletimber Medium	27.1	66	1-50	N/A	Lowland hardwood site with pockets of tag alder and spruce.																																																													



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29	4119 - Mixed Northern Hardwoods	Sawtimber Well	41.5	98	171-200	N/A	BA variable: 130-180. Mix of sugar and red maple. Some E type inclusions. Aspen almost completely dead. Few areas of conifer understory. Few large stumps seem to indicate several decades since a thinning.																																																																									
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30	42340 - Upland Spruce/Fir	Sawtimber Medium	11.7	121	51-80	N/A	Park-like large old opengrown red maple with scattered large sapling/small pole white spruce recruiting into the open space. Portions of the stand dominated by log and pole sized balsam and spruce. Flora comprised of red maple seedlings, some raspberry, fern, and cherry.																																																																									
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31	6129 - Mixed Coniferous Lowland Forest	Poletimber Medium	31.1	118	1-50	N/A	The stand is sap/pole sized mix conifer types. There are some super canopy, sawlog size/quality white pine.																																																																									
32	6119 - Mixed Lowland Deciduous Forest	Poletimber Medium	3.5	46	1-50	N/A	Extremely wet site dominated by pole sized ash with red maple and yellow birch. Small amounts of cedar in clumps.																																																																									
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33	6128 - Lowland Coniferous, Mixed Deciduous	Poletimber Well	37.1	66	51-80	N/A	Wetter site that occupies gradual downslope to adjacent lowlands to the south. Majority of the site dominated by black spruce with codominant red maple in some areas. Occasional white pine and hemlock pockets situated on moderate ridges.																																																																									
34	6117 - Lowland Deciduous, Mixed Coniferous	Poletimber Well	7.2	56	51-80	N/A																																																																										
35	6229 - Mixed lowland shrub	Nonstocked	17.3	0		No	Mixed tag alder and tamarack and black spruce. Wet.																																																																									
36	4119 - Mixed Northern Hardwoods	Poletimber Well	4.4	86	51-80	N/A	Stand has large aspen, balsam fir, patches of sugar maple, and occasional white spruce. There is some sapling sized yellow birch and ironwood scattered in the stand. The maple on this site is not very good quality. Small untreated portion of stand 5 with no access.																																																																									



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37	6229 - Mixed lowland shrub	Nonstocked	2.9	0		No	Stand is a mixture of the shrub lowlands and the end of a ridge UM ridge. Old grown in road intersects the stand from the west.																																																					
38	6117 - Lowland Deciduous, Mixed Coniferous	Poletimber Medium	16.7	56	51-80	N/A	Stand appears to be younger than hardwoods to the north with less stocking. Access from adjacent compartment from trail in the SW. Stand surrounded by lowlands and private land.																																																					
39	4113 - R.Maple, Conifer	Sawtimber Well	42.9	94	81-110	N/A	Stand data originates from stand that included McMillian March but this is now separate. Higher component of conifer here based on timber sale prep. Seedling and sapling sized beech is present in the understory. There is some supercanopy white pine present, low quality hardwoods with small diameters, scattered spruce and hemlock. There are some snags scattered throughout the stand as well. There is some evidence of water along the edge of the stand.																																																					
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40	4113 - R.Maple, Conifer	Sawtimber Well	27.6	94	81-110	N/A	Seedling and sapling sized beech is present in the understory. There is some supercanopy white pine present, low quality hardwoods with small diameters, scattered spruce and hemlock. There are some snags scattered throughout the stand as well. There is some evidence of water along the edge of the stand.																																																					
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41	612 - Lowland Coniferous Forest	Sawtimber Well	7.9	76	81-110	N/A	Stand situated between two drainages.																																																					
42	4113 - R.Maple, Conifer	Sawtimber Well	43.2	94	81-110	N/A	Seedling and sapling sized beech is present in the understory. There is some supercanopy white pine present, low quality hardwoods with small diameters, scattered spruce and hemlock. There are some snags scattered throughout the stand as well. There is some evidence of water along the edge of the stand.																																																					
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44	6117 - Lowland Deciduous, Mixed Coniferous	Poletimber Medium	19.3	69	51-80	N/A	Mostly pole sized stand with some individuals entering log size classes. Variable stocking of red maple, hemlock, spruce and balsam. Tag alder and black ash in the central lower part of the stand. Wetter site. Even aged management in the past.																																																					



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45	613 - Lowland Mixed Forest	Poletimber Medium	12.6	98	1-50	N/A	Stand is really wet, especially around the Charcoal Grade. Branches of the Penny Creek run through the stand. It is a low quality stand and it has sparse canopy cover in some areas. There is some cedar regeneration present.																																																							
46	6128 - Lowland Coniferous, Mixed Deciduous	Poletimber Poor	5.8	98	1-50	N/A	Stand is really wet, especially around the Charcoal Grade. Branches of the Penny Creek run through the stand. It is a low quality stand and it has sparse canopy cover in some areas. Standing dead cedar, black spruce and white pine poles in areas. There is some cedar regeneration present.																																																							
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47	6128 - Lowland Coniferous, Mixed Deciduous	Poletimber Medium	9.5	98	1-50	N/A	Stand is really wet, especially around the Charcoal Grade. Branches of the Penny Creek run through the stand. It is a low quality stand and it has sparse canopy cover in some areas. There is some cedar regeneration present.																																																							
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48	6229 - Mixed lowland shrub	Nonstocked	1.1	0		No																																																								
49	411 - Northern Hardwood	Sawtimber Well	11.3	86	81-110	N/A	Small hardwood stand bound by surrounding lowlands. Difficult access.																																																							
50	4113 - R.Maple, Conifer	Sawtimber Well	53.7	94	81-110	N/A	Seedling and sapling sized beech is present in the understory. There is some supercanopy white pine present, low quality hardwoods with small diameters, scattered spruce and hemlock. There are some snags scattered throughout the stand as well. There is some evidence of water along the edge of the stand.																																																							
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51	613 - Lowland Mixed Forest	Poletimber Poor	3.7	98	1-50	N/A	Canopy is a mixed bag of maple, black spruce, tamarack and cedar. Wet site. Prolific tag alder in areas.																																																							



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52	4113 - R.Maple, Conifer	Poletimber Well	12.8	94	81-110	N/A	Stand was split from the adjacent timber sale to the west based on conifer component. Data is from 2017: Seedling and sapling sized beech is present in the understory. There is some supercanopy white pine present, low quality hardwoods with small diameters, scattered spruce and hemlock. There are some snags scattered throughout the stand as well. There is some evidence of water along the edge of the stand.																																																									
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55	6128 - Lowland Coniferous, Mixed Deciduous	Sawtimber Medium	22.4	86	1-50	N/A	All-aged, lowland stand with high species diversity. There are some scattered pockets of log and pole sized hemlock and yellow birch. The understory contains balsam fir, red maple, and black ash. There are some seedling/sapling sized beech pockets scattered throughout the area (all stems that were checked has evidence of BBD). Other species include white pine and black spruce.																																																									
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56	6129 - Mixed Coniferous Lowland Forest	Poletimber Medium	4.5	95		N/A	OPIC - FMD: Stand is full of tag alder and is in the drainage area of Savage Creek. There are some Q and C-types scattered on the north and south edges of the stand. Found an otter slide and tracks near the creek.																																																									