



Compartment Review Presentation

Newberry Forest Management Unit

Compartment 42057

Entry Year 2026

Acreage: 1,996

County Chippewa

Management Area: Grand Marais Moraine Complex

Stand Examiner: Lester Livermore

Legal Description:

T49N R7W Sections 3 & 4, T50N R7W Sections 33, 34, 35, & 36

Identified Planning Goals:

Recreation, timber, and wildlife are the main uses of this area. The goal is to manage for all of these simultaneously and to provide, enhance and perpetuate their uses.

Soil and topography:

The upland areas in the compartment are comprised mostly of Deer Park sand and Rousseau sand. The forest cover types associated with these soils are mainly jack pine and red pine with some isolated areas of northern hardwoods, aspen, and white pine. The lowland areas are mostly Dawson and Loxley peats along with Kinross-Wainola Complex. The forest cover type in these lowland areas is a treed bog. Along the Betsy River is Markey and Carbondale muck with lowland brush and mixed swamp conifer as the cover type. The topography is level in the lowland areas and rolling in the upland areas with a steep slope down to the Betsy River corridor.

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

The vicinity of the compartment is almost entirely state owned with a couple of small private parcels. The majority of the land adjacent to the compartment on the south side is state owned with numerous small private parcels, ranging from 10 to 40 acres, to the south and west. The Companions of Christ the Lamb church camp borders the compartment to the north of Sections 35 and 36. Land use in the area is primarily recreational use (hunting, snowmobiling, fishing, berry picking) with several small seasonal camps. Development is still minimal in the area with the largest development being the church camp to the north.

Unique Natural Features:

MNFI lists an extensive high quality muskeg in Sections 35 and 36.

Archeological, Historical, and Cultural Features:

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

Special Management Designations or Considerations:

Management activities near the Betsy River will follow all BMP guidelines and any special considerations developed concerning the waterway.

Watershed and Fisheries Considerations:

The Betsy (Shell Drake) River which skirts the northern edge of the compartment is a designated trout stream downstream to the Widewaters. Brook trout are present in this portion of the river and does provide some fishing opportunities although limited due to access. Sloping in this compartment along the river is significant. To protect these areas in accordance with BMPs, a minimum 100-foot, plus 5 feet per 1% increase in slope, riparian management zone is recommended along the Betsy (Shell Drake) River.

Wildlife Habitat Considerations:

Compartment 57 lies in northern Chippewa county in the Grand Marais Moraine Complex Management Area. The western portion of the compartment is largely aspen and jack pine. The central portion has a mix of jack pine, upland mixed stands, mixed deciduous, and lowland typed stands. The far eastern areas are dominated by treed bogs with jack pine islands. Pre-settlement data are consistent with current vegetation patterns. Maintaining as much structural diversity as possible in managed stands will be important to achieving wildlife objectives. Retaining soft and hard mast producing species and hemlock and white pine will provide food sources, nest and den trees, and improve stand diversity. Wildlife species potentially using this compartment include white-tailed deer, snowshoe hare, spruce and ruffed grouse, black bear, gray wolves, and moose.

Mineral Resource and Development Concerns and/or Restrictions

Surface sediments consist of lacustrine (lake) sand and gravel, peat and muck and an end moraine of coarse-textured till. There is insufficient data to determine the glacial drift thickness. The Precambrian Jacobsville Sandstone subgroups below

the glacial drift. The Jacobsville was used as a building stone in the past. Gravel pits are not located in the area and potential appears to be limited. There is no economic oil and gas production in the UP.

Vehicle Access:

Access to the compartment can be gained via the Maple Block Road (county road), the East Tower-Betsy River Road, and the Farm Truck Trail. The Maple Block Road is maintained by the Chippewa County Road Commission. Several unimproved forest roads and two track roads transect the compartment providing ample access. Roads in this area are sandy and can become difficult to pass in extended dry periods. The East Tower-Betsy River Road diminishes in quality through Section 36.

Survey Needs:

Section 5 will require survey work to complete treatments.

Recreational Facilities and Opportunities:

The East Tower – Betsy River Road and the Maple Block Road are part of the groomed snowmobile trail system. Other recreational opportunities in the area include hunting, fishing, berry picking, and hiking. There is a fair amount of summer recreation as a result of the number of camps in the area.

Fire Protection:

Compartment is in the Whitefish Zone Dispatch Area. Response time is an issue for potentially larger fires on days of high fire danger. Access is good in upland areas. The lowland areas in this compartment will be challenge suppression efforts and may require modified suppression tactics. Risk to private property would be high because of the potential for large fire growth.

Additional Compartment Information:

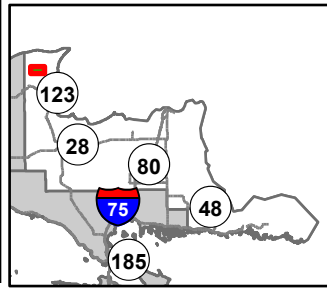
The following reports from the Inventory are attached:

- 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**

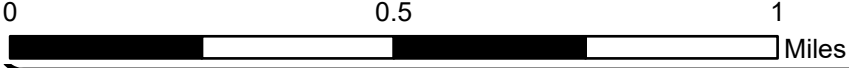
The following information is displayed, where pertinent, on the attached compartment maps:

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

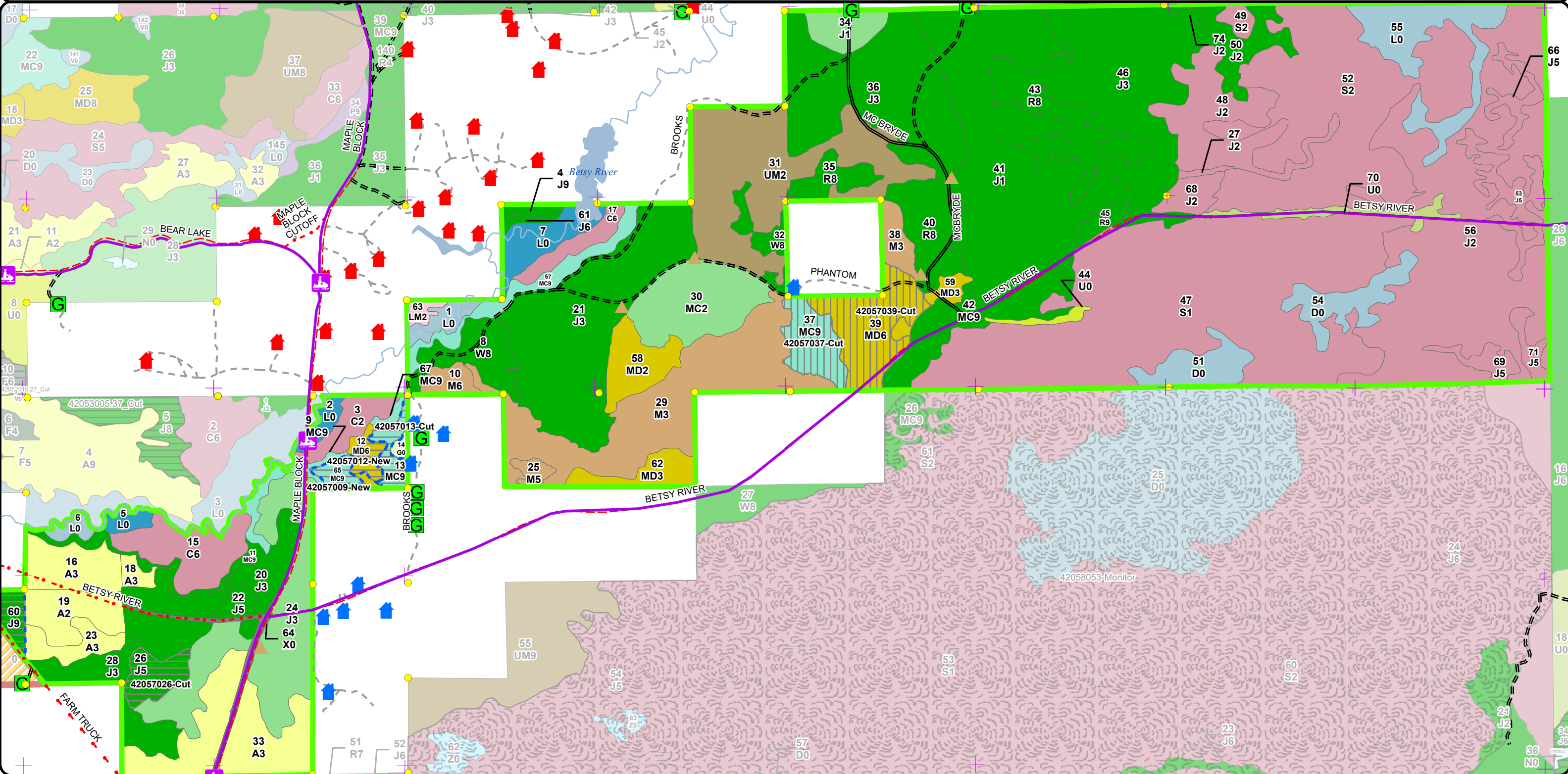
Cover Type & Treatments Map



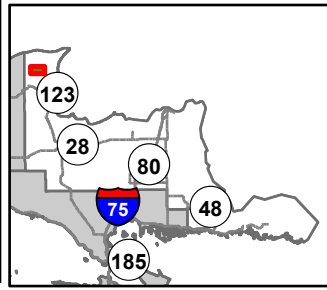
Compartment: 42057
 T49N, R7W, Sec: 3, 2
 County: Chippewa
 Unit: Newberry
 Mgmt Area: Grand Marais
 Moraine Complex
 YOE: 2026
 Acres: 1995.5 GIS Calculated
 Examiner: Lester Livermore
 Map Revised: 08/23/2024
 Map Phase: Web Post



- | | | | | |
|------------------------------|-------------------------------|---------------------------------|---------------------------------|----------------------------------|
| Cabin | Snowmobile Trails | Lake/Pond | 413 - Aspen Types | 122 - Roads/Parking Lot |
| House | Designated Snowmobile Trails | Perennial River | 419 - Mixed Upland Deciduous | 310 - Herbaceous Openland |
| Berms | DNR - Secondary Forest Road | Lakes and Rivers | 421 - Planted Pines | 320 - Upland Shrub |
| Gate | DNR - Forest Access Route | Compartment Boundary | 422 - Natural Pines | 330 - Low Density Trees |
| Bridges | County - Gravel Road | Treatments with Site Conditions | 429 - Mixed Upland Conifers | 622 - Lowland Shrub |
| Survey Grade Corners | County - Dirt Road (Seasonal) | Clearcut (w/Reserves) | 430 - Upland Mixed Forest | 629 - Mixed Non-forested Wetland |
| Remonumented Section Corners | Private - Dirt / Gravel Road | Shelter Wood (w/Reserves) | 612 - Lowland Coniferous Forest | |
| | | 411 - Northern Hardwood | 613 - Lowland Mixed Forest | |



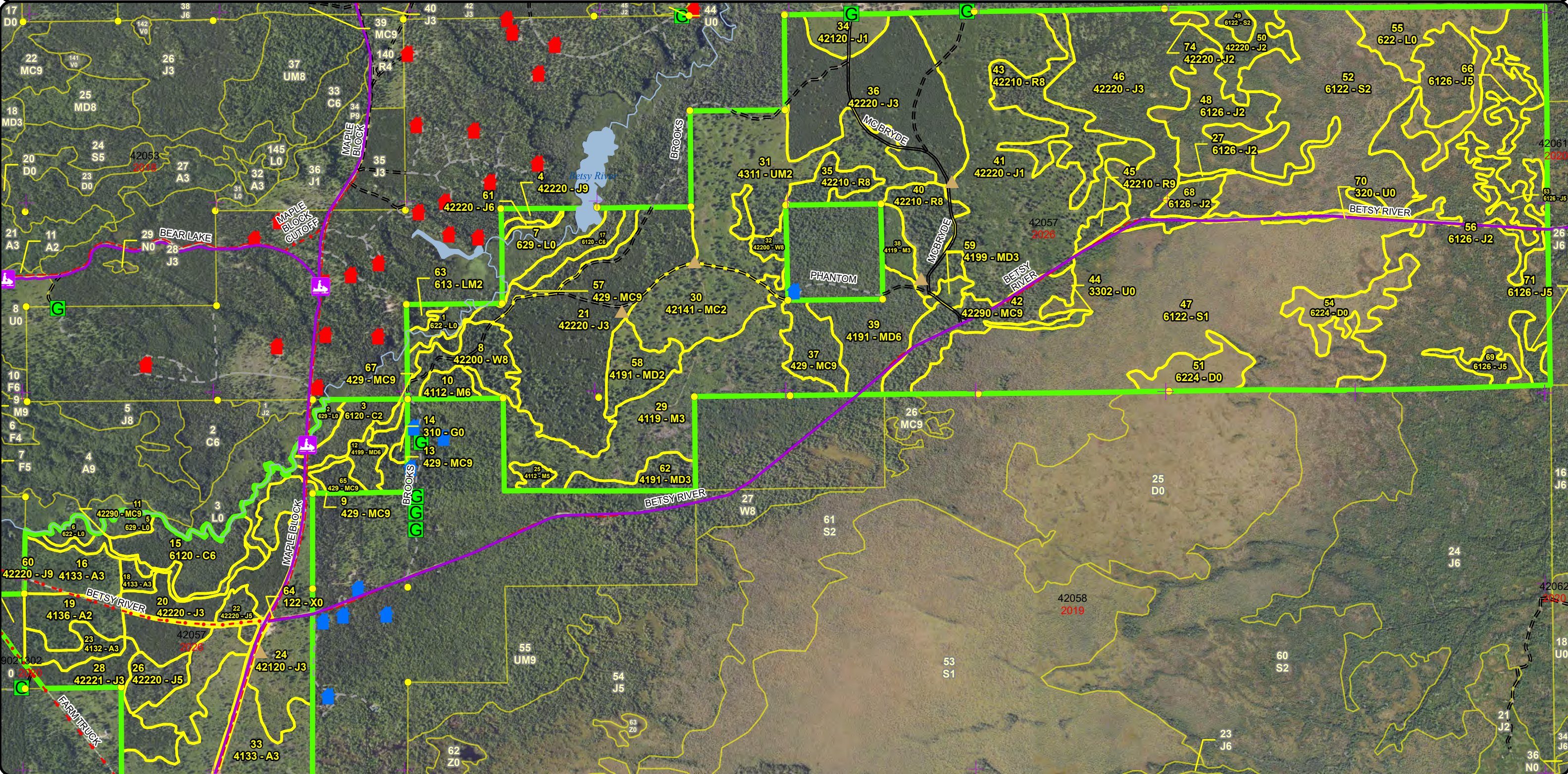
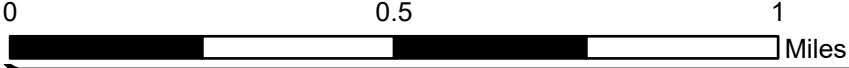
Stand Boundary Map



Compartment: 42057
 T49N, R7W, Sec: 3, 2
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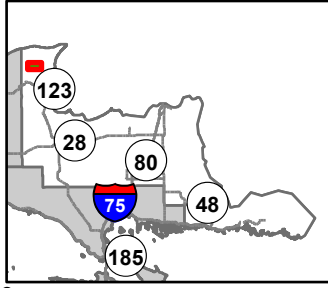
- Cabin
- House
- Berms
- Gate
- Bridges
- Survey Grade Corners
- Remonumented Section Corners
- Snowmobile Trails
- Designated Snowmobile Trails
- DNR - Secondary Forest Road
- DNR - Forest Access Route
- County - Gravel Road
- County - Dirt Road (Seasonal)
- Private - Dirt / Gravel Road
- Lake/Pond
- Perennial River
- Lakes and Rivers
- Compartment Boundary
- Stand Boundaries
- 411 - Northern Hardwood
- 413 - Aspen Types

- 419 - Mixed Upland Deciduous
- 421 - Planted Pines
- 422 - Natural Pines
- 429 - Mixed Upland Conifers
- 430 - Upland Mixed Forest
- 612 - Lowland Coniferous Forest
- 613 - Lowland Mixed Forest
- 122 - Roads/Parking Lot
- 310 - Herbaceous Openland
- 320 - Upland Shrub
- 330 - Low Density Trees
- 622 - Lowland Shrub
- 629 - Mixed Non-forested Wetland



**Special Conservation Areas
& Site Conditions Map**

Compartment: 42057
 T49N, R7W, Sec: 3, 2
 County: Chippewa
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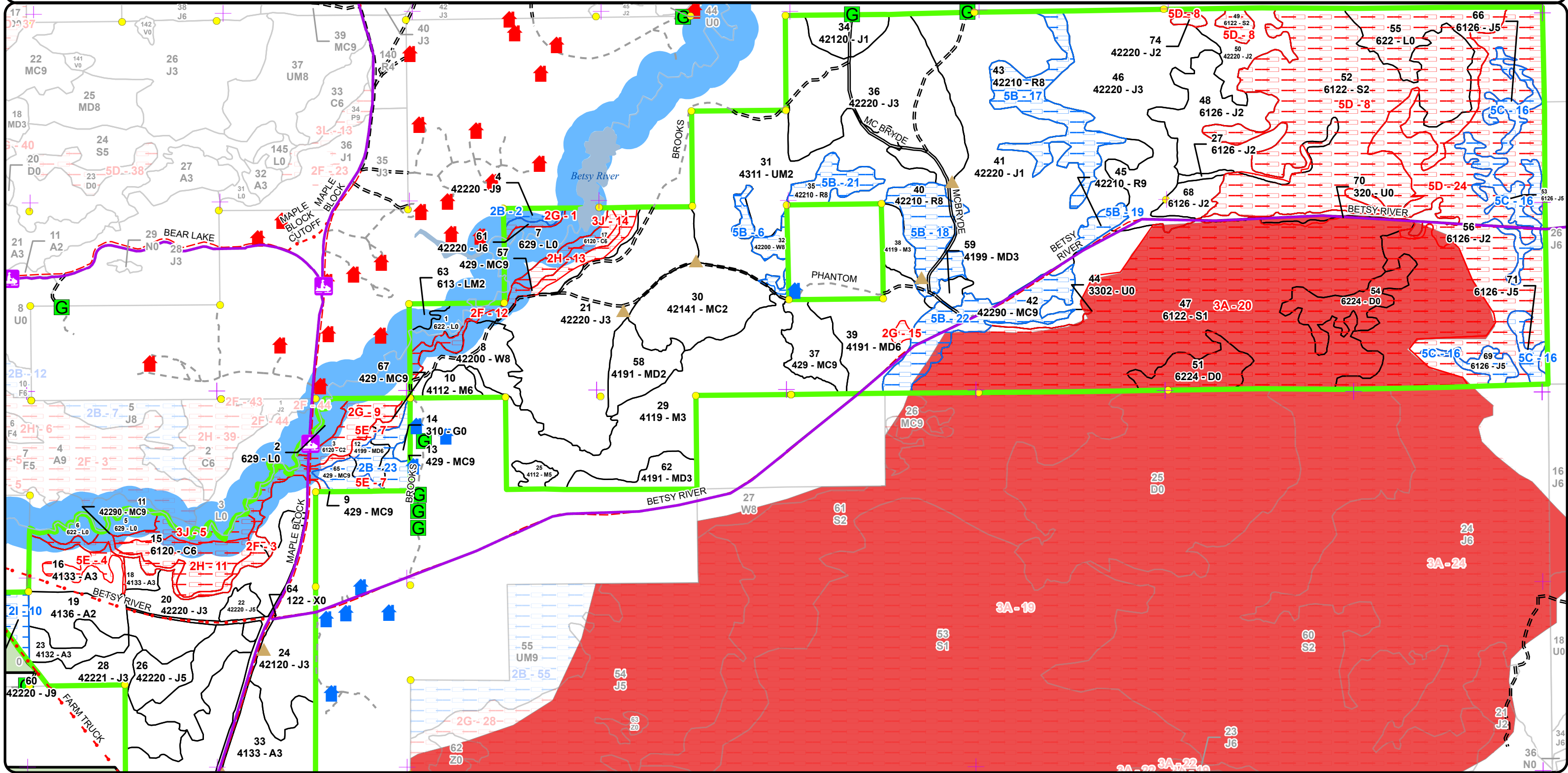


0 0.5 1 Miles

- Cabin
- House
- Berms
- Gate
- Bridges
- Survey Grade Corners
- Remonumented Section Corners
- Snowmobile Trails
- Designated Snowmobile Trails
- DNR - Secondary Forest Road
- DNR - Forest Access Route

- County - Gravel Road
- County - Dirt Road (Seasonal)
- Private - Dirt / Gravel Road
- Lake/Pond
- Perennial River
- Lakes and Rivers
- Compartment Boundary
- SCA
- Available w/ Constraints
- Unavailable
- 2I: Survey needed
- 5B: Maintain for regeneration purposes
- 5C: Delay treatment for age/size class diversity or exceptional site quality

- 2F: Too steep
- 2G: Too wet (sensitive soils, does not include access issues)
- 2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)
- 3A: Conservation Values incompatible with harvest at this time
- 3J: Water quality / BMPs (stream, river, or lake)
- 5D: Unproductive Forest Land
- 5E: Long-Term Retention
- Stand Boundaries
- Ecological Reference Areas
- Cold Water Streams
- High Priority Trout Stream Buffer
- Recreational/Scenic Value Area



Report 1 – Total Acres by Cover Type and Age Class

Newberry Mgt. Unit

Compartment 57

Year of Entry 2026

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+	Unseen-Aged	Total
Aspen	0	51	39	14	0	0	0	0	0	0	0	0	0	0	0	0	0	0	103
Cedar	0	0	0	0	0	0	0	0	0	0	9	0	27	12	0	0	0	0	48
Herbaceous Openland	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
Jack Pine	0	12	202	236	153	6	11	12	214	2	0	0	0	0	0	0	0	0	848
Low-Density Trees	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3
Lowland Mixed Forest	0	0	0	0	0	0	0	0	3	0	0	0	0	0	0	0	0	0	3
Lowland Shrub	72	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	72
Lowland Spruce/Fir	0	0	0	0	4	138	0	0	233	0	0	0	0	0	0	0	0	0	375
Mixed Upland Deciduous	0	34	0	0	0	0	0	0	40	0	0	0	0	0	0	0	0	0	74
Natural Mixed Pines	0	0	0	0	0	0	0	0	0	9	0	0	31	0	0	0	0	0	40
Northern Hardwood	0	94	0	0	0	0	0	0	4	0	0	6	0	0	0	0	0	0	104
Planted Mixed Pines	0	38	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	38
Red Pine	0	0	0	0	0	0	0	0	0	11	61	0	0	0	0	0	0	0	72
Treed Bog	35	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	35
Upland Conifers	0	0	0	0	0	0	0	0	17	12	25	0	0	0	0	0	0	0	53
Upland Mixed Forest	0	85	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	85
Upland Shrub	8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	8
Urban	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6
White Pine	0	0	0	0	0	0	0	0	0	9	20	0	0	0	0	0	0	0	29
Total	126	314	241	250	157	144	11	12	511	43	115	6	58	12	0	0	0	0	1998



Report 2 – Treatment Summary

Newberry Mgt. Unit
Year of Entry: 2026

Acres of Harvest

Compartment 57
Total Compartment Acres: 1,996

Commercial Harvest - 60
 Harvests with Site Condition - 21
 Next Step Harvest - 0
 Habitat Cut - 4

Cover Type by Harvest Method

	Clearcut	Selection	Patch Clearcut	Seed Tree	Shelterwood	Thinning	Oversy Removal	Salvage	Other	Total Acres
Jack Pine	20	0	0	0	0	0	0	0	0	20
Mixed Upland Deciduous	4	0	0	0	32	0	0	0	0	37
Upland Conifers	12	0	0	0	17	0	0	0	0	29
Total	36	0	0	0	49	0	0	0	0	85

Proposed and Next Step Treatments by Method

	Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current	85	0	0	0	0	0	0	0	0	85
Next Step	0	20	5	20	0	0	85	0	0	129
Total	85	20	5	20	0	0	85	0	0	214



Stand	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut

Proposed Treatments:

65	42057009-New	4.9	429 - Mixed Upland Conifers	Sawtimber Well	80	111-140	Harvest	Clearcut with Retention	42221 - Natural Jack Pine, Mixed Deciduous	Even-Aged	No
<p><u>Prescription Specs:</u> Harvest all species present. Treatment area may change due to topography present. Pocket retention in areas of inoperability (northern edge and western portion). Leave oak for mast production for wildlife.</p> <p><u>Next Step Treatments:</u> Monitoring, Natural Regen (Re-Inventory); Planting, Unfurrowed</p> <p><u>Acceptable Regen:</u> Jack pine with aspen and lesser amounts of other currently present species.</p> <p><u>Other Comment:</u> Management access to the stand must be granted through private from the east.</p> <p><u>Site Condition</u> Unknown Access</p> <p><u>Proposed Start Date:</u> 10/1 /2025</p>											
12	42057012-New	4.4	4199 - Other Mixed Upland Deciduous	Poletimber Well	75	81-110	Harvest	Clearcut with Retention	4139 - Aspen, Mixed Deciduous	Even-Aged	Yes
<p><u>Prescription Specs:</u> Harvest all species present. Pocket retention in areas of inoperability. Leave oak for mast production for wildlife.</p> <p><u>Next Step Treatments:</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Acceptable Regen:</u> Aspen with birch, maple, jack, red and white pine, spruce and fir.</p> <p><u>Other Comment:</u> Management access to the stand must be granted through private from the east.</p> <p><u>Site Condition</u> Unknown Access</p> <p><u>Proposed Start Date:</u> 10/1 /2025</p>											
13	42057013-Cut	7.3	429 - Mixed Upland Conifers	Sawtimber Well	97	111-140	Harvest	Clearcut with Retention	42221 - Natural Jack Pine, Mixed Deciduous	Even-Aged	No
<p><u>Prescription Specs:</u> Harvest all species present. Areas of inoperability will serve as retention. Leave oak for mast production and white pine for bear escape trees</p> <p><u>Next Step Treatments:</u> Monitoring, Natural Regen (Re-Inventory)</p> <p><u>Acceptable Regen:</u> Jack pine with aspen, birch, white and red pine, spruce and fir.</p> <p><u>Other Comment:</u> Management access to the stand must be granted through private from the east.</p> <p><u>Site Condition</u> Unknown Access</p> <p><u>Proposed Start Date:</u> 10/1 /2025</p>											



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Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
26 42057026-Cut	11.1	42220 - Natural Jack Pine	Poetimber Medium	55	51-80	Harvest	Clearcut with Retention	4222 - Natural Jack Pine	Even-Aged	No
<p><u>Prescription</u> Harvest all species present. Pocket retention. Maximize species diversity in pockets to benefit wildlife.</p> <p><u>Specs:</u></p> <p><u>Next Step</u> Monitoring, Natural Regen (Intermediate); SitePrep, Scarification; Seeding, Machine Seed</p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> Lower stocking of Jack pine with aspen, white and red pine.</p> <p><u>Regen:</u></p> <p><u>Other</u> Likely natural regeneration will be adequate if some site disturbance occurs during harvest.</p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2025</p>										
37 42057037-Cut	16.5	429 - Mixed Upland Conifers	Sawtimber Well	70	111-140	Harvest	Shelterwood with Retention	4319 - Mixed Upland Forest	Two-Aged	No
<p><u>Prescription</u> Retain approximately 40 - 60 basal area of canopy species. Retain better quality red maple, majority of white pine and hemlock. Harvest white pine on individual tree basis where needed to achieve target basal area. Harvest all aspen, birch, and fir. Leave all hemlock for wildlife.</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> Birch, maple, aspen, spruce, fir, white pine, hemlock and red pine</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 /2025</p>										
39 42057039-Cut	32.4	4191 - Mixed Upland Deciduous with Conifer	Poetimber Well	70	111-140	Harvest	Shelterwood with Retention	411 - Northern Hardwood	Uneven-Aged	No
<p><u>Prescription</u> Thin overall stand basal area to approximately 40-60 basal area average. Employ moderately sized harvest gaps over approximately 10% of the stand area. Leave hemlock and white pine.</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> Maple with birch, spruce and fir, hemlock, white pine and aspen.</p> <p><u>Regen:</u></p> <p><u>Other</u> monitoring steps</p> <p><u>Comment:</u></p> <p><u>Site Condition</u></p> <p><u>Proposed Start Date:</u> 10/1 /2025</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
60 42057060-Cut	8.5	42220 - Natural Jack Pine	Sawtimber Well	62	81-110	Harvest	Clearcut	42221 - Natural Jack Pine, Mixed Deciduous	Even-Aged	No
<p><u>Prescription Specs:</u> Harvest all species present. No retention due to small acreage. Leave white pine or non jack pine in the red line to increase diversity for wildlife.</p> <p><u>Next Step Treatments:</u> SitePrep, Scarification; Monitoring, Natural Regen (Intermediate); Seeding, Machine Seed</p> <p><u>Acceptable Regen:</u> Jack pine and aspen with paper birch, balsam fir, spruce, white and red pine.</p> <p><u>Other Comment:</u></p> <p><u>Site Condition</u> Survey Needed</p> <p><u>Proposed Start Date:</u> 10/1 /2025</p>										

Total Treatment Acreage Proposed: 85.1

Report 4 – Site Conditions

Newberry Mgt. Unit

Compartment: 57

Lester Livermore : Examiner

Year of Entry: 2026

Availability for Management

Total Acres	Acres Available	Acres Avail With Condition	Acres Not Available
1,986	1,119	174	693
	56%	9%	35%

Dominant Site Conditions

	Total Acres	Acres Available	Acres Avail With Condition	Acres Not Available	Dominant Site Condition	Dominant Site Conditions											
						2B	2I	5B	5C	2F	2G	2H	3A	3J	5D	5E	
103	98	0	5		Aspen												5
48	0	0	48		Cedar					0	12	25		11			
1	1	0	0		Herbaceous Openland												
847	615	48	184		Jack Pine	3	9	0	36		2		56			127	
3	3	0	0		Low-Density Trees								0				
3	3	0	0		Lowland Mixed Forest												
72	37	0	35		Lowland Shrub					0				0		35	
375	15	0	361		Lowland Spruce/Fir								219			142	
74	66	4	4		Mixed Upland Deciduous	4		0			1						2
31	0	31	0		Natural Mixed Pines			31		0			0				
103	103	0	0		Northern Hardwood			0									
38	38	0	0		Planted Mixed Pines												
71	0	70	0		Red Pine			70									
35	0	0	35		Treed Bog								35				
54	20	12	21		Upland Conifers	12				18							4
85	85	0	0		Upland Mixed Forest			0									
8	8	0	0		Upland Shrub								0				
6	6	0	0		Urban												
28	20	8	0		White Pine			8		0							
1,986	1,119	174	693		Total Forested Acres	20	9	110	36	18	15	25	309	11	304	11	
	56%	9%	35%		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)	2	3J: Water quality / BMPs (stream, river, or lake)	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

Newberry Mgt. Unit

Compartment: 57

Lester Livermore : Examiner

Year of Entry: 2026

2	Available	2B: Unknown if access through adjacent landowner(s) is possible	3	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
3	Unavailable	2F: Too steep	15	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
4	Unavailable	5E: Long-Term Retention	5	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Crossroads Mix 42-013-16							
5	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	8	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
6	Available	5B: Maintain for regeneration purposes	8	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
7	Unavailable	5E: Long-Term Retention	6	2F: Too steep	Unspecified	Unspecified	Unspecified
Comments: Areas of the stand not operable during management. Area may also serve as long term retention.							
8	Unavailable	5D: Unproductive Forest Land	182	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

Newberry Mgt. Unit

Compartment: 57

Lester Livermore : Examiner

Year of Entry: 2026

9	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	12	5D: Unproductive Forest Land	Unspecified	Unspecified	Unspecified
Comments:							
10	Available	2I: Survey needed	9	5C: Delay treatment for age/size class diversity or exceptional site quality	Unspecified	Unspecified	Unspecified
Comments: Survey needs on the northern boundary. Delay treatment until access to nearby stands (NENE Section 4) create a more marketable situation given the area and volume.							
11	Unavailable	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	19	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Stand situated between the Betsy River and steep hill.							
12	Unavailable	2F: Too steep	12	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
13	Unavailable	2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)	6	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
14	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	3	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

Newberry Mgt. Unit

Compartment: 57

Lester Livermore : Examiner

Year of Entry: 2026

15	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	1	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
16	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	36	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
17	Available	5B: Maintain for regeneration purposes	32	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
18	Available	5B: Maintain for regeneration purposes	23	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
19	Available	5B: Maintain for regeneration purposes	5	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
20	Unavailable	3A: Conservation Values incompatible with harvest at this time	309	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
ERA							

Report 4 – Site Conditions

Newberry Mgt. Unit

Compartment: 57

Lester Livermore : Examiner

Year of Entry: 2026

21	Available	5B: Maintain for regeneration purposes	11	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
22	Available	5B: Maintain for regeneration purposes	31	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Wet ground in many areas with biodiversity considerations.							
23	Available	2B: Unknown if access through adjacent landowner(s) is possible	17	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
24	Unavailable	5D: Unproductive Forest Land	123	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Stunted old jack pine with spruce.							

Mgt. Unit

Compartment: #Type!

Year of Entry:



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

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

SCA Name	SCA Category	Detail Type	Recommendation	Acres
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Comments



Report 6 – EXISTING SPECIAL CONSERVATION AREA DETAILS

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

Conservation Area	Type	Description
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.
SCA	Non-Dedicated Natural Areas and National Natural Landmarks	This category is comprised of those Natural, Wilderness and Wild Areas that have been nominated or proposed for legal dedication, but for which legal dedication by legislature has not occurred. The nomination process is defined by Part 351, Wilderness and Natural Areas, of the Natural Resources and Environmental Protection Act, 1994 PA 451. The program is administered by the DNR. Nominations require the submittal of a Natural Areas Nomination Packet to the DNR. This is an active program, with proposed sites in various stages of review. Final dedication of nominated Natural, Wilderness and Wild Areas is accomplished through legislative action.
SCA	Riparian Area	A transitional area between aquatic and terrestrial ecosystems in which the terrestrial ecosystem influences the aquatic ecosystem and vice-versa. Because of the unique conditions adjacent to lakes, streams and open water wetlands, riparian areas harbor a high diversity of plants and wildlife. Riparian communities are ecologically and socially significant in their effects on water quality and quantity, as well as aesthetics, habitat, bank stability, timber production, and their contribution to overall biodiversity.
HCVA	Legally dedicated Natural Areas, Wilderness or Wild Areas	The nomination process is defined by Part 351, Wilderness and Natural Areas, of the Natural Resources and Environmental Protection Act, 1994 PA 451. The program is administered by the DNR. Nominations require the submittal of a Natural Areas Nomination Packet to the DNR. This is an active program, with proposed sites in various stages of review. Final dedication of nominated Natural, Wilderness and Wild Areas is accomplished through legislative action.
ERA	Ecological Reference Areas	Ecological Reference Areas (ERAs) are high quality examples of natural communities that have been identified as Element Occurrences (EOs) by the Michigan Natural Features Inventory (MNFI) within the context of their natural community classification system. Element Occurrences with viability ranks of A (Excellent) or B (Good) and a Global (G) or State (S) element (rarity) ranking of endangered (1), threatened (2), or rare (3) serve as an initial base of ERAs. They may be located upon any ownership in the State. The system is comprised of individual or associations of natural community types that are managed for restoration and maintenance of natural ecological processes and values. The public may submit recommendations for lands as ERAs using the DNR Conservation Area Recommendation Form.

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



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments									
1	622 - Lowland Shrub	Nonstocked	6.8			No	Lowlands surrounding Betsy River. Tag alder with scattered white pine, spruce and tamarack.									
								Sub-Canopy Species	Density	Avg. Height	Size					
								Tamarack	Low	Variable	Sapling					
								Black Spruce	Low	Variable	Sapling					
								White Pine	Low	Variable	Sapling					
Aspen (spp.)	Low	Variable	Sapling													
2	629 - Mixed non-forested wetland	Nonstocked	5.1			No	Lowlands adjacent to Betsy River. Tag alder dominated. Seasonal flooding.									
3	6120 - Lowland Cedar	Sapling Medium	11.9	123	1-50	N/A	Saturated soils and stunted canopy. Cedar dominated, especially in the southwest and southern edge. Transitions to more spruce dominated as you move north.									
								Canopy Species	% Cover	Size Class	DBH	Age				
								Northern White Cedar	55	Sapling/Pole	4	123				
								Tamarack	5	Sapling	3					
								Black Spruce	35	Sapling/Pole	3					
Balsam Fir	5	Sapling/Pole	3													
4	42220 - Natural Jack Pine	Sawtimber Well	3.4	65	Unspecified	N/A										
5	629 - Mixed non-forested wetland	Nonstocked	4.5			No										
6	622 - Lowland Shrub	Nonstocked	3.9			No										
7	629 - Mixed non-forested wetland	Nonstocked	16.3			No	Tag alder dominated.									
8	42200 - Natural White Pine	Sawtimber Medium	19.6	97	1-50	N/A	Good flush of regeneration after harvest (15 - 20' red maple and birch with spruce). Some areas higher residual of mostly white and red pine but some areas more open; similar regen throughout. All trees cut except white pine, red pine, hemlock, cedar and trees ringed with green paint (aspen and birch). Harvested in 2017 as part of Lost Radio, #012-16.									
								Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
								Quaking Aspen	1	Log/Pole	10		Red Maple	High	10 - 20 feet	Sapling
								Hemlock	16	Log/XLog/Pole	14		White Pine	Low	< 5 feet	Sapling
								Paper Birch	2	Pole/Log	8		Balsam Fir	Medium	Variable	Sapling
								Red Pine	16	Log/XLog	16		White Spruce	Low	< 5 feet	Sapling
								White Pine	60	Log/XLog	16	97	Paper Birch	Medium	10 - 20 feet	Sapling
								Northern White Cedar	5	Pole	5					



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments	
9	429 - Mixed Upland Conifers	Sawtimber Well	7.5	80	111-140	N/A	Steep channel within the stand on the southern portion limits access from the south and west; Management access would have to be obtained through private land from the east. Stand occupies a mostly level, sandy shelf with moderate terrain. Appears to be even aged with some natural mortality gaps filling in with balsam generally.	
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		
Quaking Aspen		7	Log/Pole	13		Balsam Fir		
Balsam Fir		7	Pole	6		High		
Black Spruce		15	Log/Pole	10		Variable		
Jack Pine		50	Log/Pole	10	80	Sapling		
Red Maple		5	Pole	5				
Northern White Cedar		2	Pole	6				
Paper Birch		5	Pole/Log	9				
Red Pine		3	Log/Pole	12				
White Pine		6	Pole/Log	9				
10	4112 - Maple, Beech, Cherry Association	Poletimber Well	6.3	102	51-80	N/A	Harvested via Selection cut in 2017 as part of Lost Radio, #012-16.	
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		
Sugar Maple		28	Pole/Log	8		Sugar Maple		
White Spruce		5	Log/Pole	11		Low		
Hemlock		7	Log/XLog/Pole	15		Variable		
Red Maple		60	Pole/Log	8	102	Sapling		
						Medium		
						Variable		
						Sapling		
11	42290 - Natural Mixed Pine	Sawtimber Well	9.4	86	201+	N/A	Stand positioned on ridge and ridgetop. Transition between upland and lowlands around Betsy River. Steep in some areas. Stand data from 2014.	
Canopy Species		% Cover	Size Class	DBH	Age			
White Pine		10	Log	12				
Jack Pine		25	Log/Pole	12				
Black Spruce		40	Pole	8	86			
Red Pine		25	Log	14				
12	4199 - Other Mixed Upland Deciduous	Poletimber Well	6.6	75	81-110	N/A	Stand observed from edge this entry to confirm previous inventory data. Mature early successional stand. Management access limitations; see stand 9 comments.	
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		
White Spruce		4	Log/Pole	12		Balsam Fir		
Red Maple		30	Pole	7		Low		
White Pine		2	XLog/Log	20		Variable		
Quaking Aspen		5	Log/XLog	17		Sapling		
Paper Birch		50	Log/Pole	11	75			
Balsam Fir		9	Pole/Log	9				



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																												
13	429 - Mixed Upland Conifers	Sawtimber Well	7.3	97	111-140	N/A	Stand observed from edge this entry to confirm previous inventory data. Management access limitations; see stand 9 comments.																																												
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14	310 - Herbaceous Openland	Nonstocked	1.5			No	Small opening with a few scattered trees.																																												
15	6120 - Lowland Cedar	Poletimber Well	26.8	113	81-110	N/A	Stand observed from edge. Stand gets wetter as you move northward.																																												
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16	4133 - Aspen, Mixed Pine	Sapling Well	19.8	15	1-50	N/A	Stand fully stocked with aspen and associated species, now 20+ feet tall. Crossroads Mix: 42-013-16. Finished cutting sale: 1/10/2019; FTP: C42-905; Stand was harvested via clearcut with residual. Chapter 7 eliminated trench and planting next steps.																																												
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17	6120 - Lowland Cedar	Poletimber Well	9.3	96	51-80	N/A	Difficult access and stunted growth in many areas. Higher canopy closure than adjacent lowlands. Canopy data from 2014.																																												
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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18 4133 - Aspen, Mixed Pine Sapling Well 3.6 25 1-50 N/A

Canopy Species	% Cover	Size Class	DBH	Age
Red Maple	3	Sapling	2	
Paper Birch	4	Sapling	3	
White Spruce	3	Sapling/Pole	4	
White Pine	7	Log/Pole	12	
Quaking Aspen	65	Sapling	2	25
Red Pine	3	Log	14	
Jack Pine	10	Sapling	2	
Balsam Fir	5	Sapling/Pole	4	

19 4136 - Aspen, Mixed Conifer Sapling Medium 18.5 15 1-50 N/A

Canopy Species	% Cover	Size Class	DBH	Age
Paper Birch	4	Sapling	2	
Red Maple	5	Sapling/Pole	2	
Balsam Fir	3	Sapling/Pole	3	
Quaking Aspen	69	Sapling	2	15
White Pine	12	Log/XLog/Pole	14	
Red Pine	5	Log/XLog/Pole	14	
Jack Pine	2	Sapling	2	

20 42220 - Natural Jack Pine Sapling Well 36.8 22 51-80 N/A Stand harvested via Clearcut: OLD FARM JACKPINE • 42-036-96.

Canopy Species	% Cover	Size Class	DBH	Age
Balsam Fir	2	Sapling	2	
Jack Pine	88	Sapling	3	22
Red Pine	2	Log/Pole	13	
Paper Birch	2	Sapling	2	
White Pine	2	Log/Pole	12	
Quaking Aspen	4	Sapling	2	

21 42220 - Natural Jack Pine Sapling Well 94.2 22 1-50 N/A Some individuals entering pole size classes. Stand harvested via Seed Tree with Retention: FORK ROAD JACK PINE • 42-040-96.

Canopy Species	% Cover	Size Class	DBH	Age
Paper Birch	3	Sapling	2	
Quaking Aspen	7	Sapling	3	
Jack Pine	79	Sapling	3	22
Red Pine	8	Log/XLog	16	
Balsam Fir	3	Sapling	2	



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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22	42220 - Natural Jack Pine	Poletimber Medium	5.9	42	51-80	N/A	Small stand that borders and is split by road. Semi-open patches with reindeer lichen. Infrequent log sized white pine and red pine.
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Canopy Species	% Cover	Size Class	DBH	Age
Quaking Aspen	3	Sapling/Pole	4	
White Pine	3	Log/Pole	11	
Jack Pine	85	Pole	6	42
Balsam Fir	4	Pole/Sapling	5	
Red Pine	3	Log/Pole	13	
White Spruce	2	Pole/Sapling	5	

Sub-Canopy Species	Density	Avg. Height	Size
Red Pine	Low	< 5 feet	Sapling
Quaking Aspen	Low	5 - 10 feet	Sapling
Cherry (spp.)	Low	5 - 10 feet	Sapling
Jack Pine	Low	Variable	Sapling

23	4132 - Aspen, Jack Pine	Sapling Well	10.7	25	1-50	N/A	Stand harvested via Clearcut with Retention: BEAR STUMP JACK PINE 42-001-96.
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Canopy Species	% Cover	Size Class	DBH	Age
Jack Pine	20	Sapling	2	
White Pine	10	Log/Pole	10	
Quaking Aspen	70	Sapling	2	25

24	42120 - Planted Jack Pine	Sapling Well	65.1	12	1-50	N/A	Dominant age of natural regeneration of jack pine with younger aged planted jack pine. 10/29/2019 - patchy planting in some areas (average 450 - 500 TPA in those areas) but good rate of new seedling survival overall. Jack pine 800 TPA average across site. Regen survey 2021 showed 397 of planted jack pine with red and white pine 2019 regeneration survey showed planted 625 trees/ac. 979 trees/ac linear data. Planted jack pine in trenches on 5/8/2017. Inclusions of aspen were not trenched. Very southern portion of stand east of the road was not planted due to water in the trenches.
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Canopy Species	% Cover	Size Class	DBH	Age
Jack Pine	76	Sapling	1	12
Quaking Aspen	10	Sapling	1	
Balsam Fir	1	Sapling	2	
White Pine	8	Log	13	
Red Pine	2	Sapling	1	
Red Pine	3	Log/XLog	13	

Sub-Canopy Species	Density	Avg. Height	Size
Jack Pine	High	< 5 feet	Seeding

25	4112 - Maple, Beech, Cherry Association	Poletimber Medium	3.6	70	51-80	N/A	Stand has a good flush of regeneration under pole dominated canopy. Harvested via Selection cut in 2017 as part of Lost Radio, #012-16.
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Canopy Species	% Cover	Size Class	DBH	Age
Sugar Maple	20	Pole/Log	8	
White Spruce	5	Log/Pole	13	
Red Maple	73	Pole/Log	9	70
Beech	2	Pole/Log	7	

Sub-Canopy Species	Density	Avg. Height	Size
Hemlock	Low	Variable	Pole
Balsam Fir	Low	Variable	Sapling

26	42220 - Natural Jack Pine	Poletimber Medium	11.1	55	51-80	N/A	Northern portion is pure jack pine with varying size classes but mostly larger poles with log sized trees less frequently. Large saplings now occupy more open areas. Southern portion has short stunted aspen poles with some aspen saplings regen with red maple in association. Xeric site.
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Canopy Species	% Cover	Size Class	DBH	Age
Jack Pine	76	Pole/Log/Sap	9	55
White Pine	3	Log	14	
Red Pine	1	Log	12	
Quaking Aspen	20	Sapling/Pole	4	43

Sub-Canopy Species	Density	Avg. Height	Size
Balsam Fir	Low	Variable	Sapling
Jack Pine	Low	Variable	Sapling
Quaking Aspen	Low	Variable	Sapling
Red Maple	Low	Variable	Sapling



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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27	6126 - Lowland Jack Pine	Sapling Medium	1.4	32	Unspecified	N/A	Stand gets wetter with more spruce to the east. Eastern portion of the stand harvested via Clearcut: East Betsy River Road Sale 42-034-89-01.
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Canopy Species	% Cover	Size Class	DBH	Age
Jack Pine	65	Sapling	2	32
Black Spruce	35	Sapling	2	

28	42221 - Natural Jack Pine, Mixed Deciduous	Sapling Well	21.4	25	1-50	N/A	Stand harvested via Clearcut with Retention: BEAR STUMP JACK PINE • 42-001-96.
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Canopy Species	% Cover	Size Class	DBH	Age
Quaking Aspen	30	Sapling	2	
Jack Pine	63	Sapling/Pole	3	25
White Pine	7	Log	12	

29	4119 - Mixed Northern Hardwoods	Sapling Well	85.6	6	Immature	N/A	Stump sprout red maple regeneration dominates the stand, now 10-20' tall. Lesser component of aspen and some cherry regen. All species harvested except red pine, white pine, hemlock, cedar, yellow birch, oak, and trees ringed with green. Cut in 2017 as part of Lost Radio, #012-16.
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Canopy Species	% Cover	Size Class	DBH	Age
Red Maple	65	Sapling	1	6
White Pine	4	Log/Pole	10	
Quaking Aspen	12	Sapling	1	6
Balsam Fir	3	Sapling/Pole	2	
Hemlock	2	Log	12	
Red Oak	4	Pole/Log	9	
Pin Cherry	10	Sapling	1	6

Sub-Canopy Species	Density	Avg. Height	Size
Hemlock	Low	>20 feet	Log
Red Oak	Low	>20 feet	Pole

30	42141 - Planted Mixed Pine, Mixed Deciduous	Sapling Medium	37.7	4	1-50	N/A	Some areas of planted jack pine are now entering sapling size classes. Areas dominated by aspen and/or cherry. Sale cut as part of Lost Radio 42-12-16. All red pine, white pine, hemlock, and oak were left. Tried to scarify in 2018, but getting late in the season and snow was impeding scarification. Will carry over into 2019. FTP 42-906. 6/30/20 - Site trenched 6/30/2020. Portions of the site in the south are not trenched due to wet ground. Site planted spring of 2021 with 694 TPA of Jack pine to 805 TPA stocking; regen check in fall of 2021. Regen survey fall of 2021 (contractor): Jack Pine 583 TPA. Decided not to interplant and continue to monitor. Artificial regen check 10/03/23 Planted Jack Pine 767 TPA Non target 1361 TPA Recommended for release by contractor.
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Canopy Species	% Cover	Size Class	DBH	Age
Jack Pine	45	Sapling	1	4
Paper Birch	10	Sapling	1	4
Red Pine	4	Log/Pole	11	
White Pine	15	Log/Pole	11	
Black Spruce	1	Sapling/Pole	4	
Red Maple	23	Sapling	1	4
Balsam Fir	2	Sapling	4	



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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31	4311 - Pine, Aspen Mix	Sapling Medium	84.9	7	1-50	N/A	Stand is a mix of planted jack pine with red maple and aspen regen and volunteer jack pine. Scattered overstory residual. 06/13/18- Jack pine TPA approximately 530, Residual BA ranges from 10-20. Stand has aspen, rm, other species sapling overtopping the planted jack pine. Hold for 3 year check. Some overstory red pine pole size left throughout. Regen 2014: Jack pine 300 TPA.FTP 42-665. Hand planted to JP in trenches 5/9/2017. Inclusions of natural jack pine and/or aspen regeneration.																																							
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Paper Birch	3	Sapling	3																																											

32	42200 - Natural White Pine	Sawtimber Medium	8.8	81	1-50	N/A	Previously prescribed as a shelterwood with retention to release understory regeneration. However, upon sale setup target basal area of 30 achieved naturally. Stand was not treated.																																			
<table border="1"> <thead> <tr> <th>Canopy Species</th> <th>% Cover</th> <th>Size Class</th> <th>DBH</th> <th>Age</th> <th>Sub-Canopy Species</th> <th>Density</th> <th>Avg. Height</th> <th>Size</th> </tr> </thead> <tbody> <tr> <td>White Pine</td> <td>75</td> <td>Log/Pole/XLog</td> <td>15</td> <td>81</td> <td>Paper Birch</td> <td>Low</td> <td>< 5 feet</td> <td>Pole</td> </tr> <tr> <td>Red Pine</td> <td>25</td> <td>Log/Pole/XLog</td> <td>15</td> <td></td> <td>Red Maple</td> <td>Low</td> <td>< 5 feet</td> <td>Sapling</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td>Quaking Aspen</td> <td>Low</td> <td>< 5 feet</td> <td>Sapling</td> </tr> </tbody> </table>								Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size	White Pine	75	Log/Pole/XLog	15	81	Paper Birch	Low	< 5 feet	Pole	Red Pine	25	Log/Pole/XLog	15		Red Maple	Low	< 5 feet	Sapling						Quaking Aspen	Low	< 5 feet
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White Pine	75	Log/Pole/XLog	15	81	Paper Birch	Low	< 5 feet	Pole																																		
Red Pine	25	Log/Pole/XLog	15		Red Maple	Low	< 5 feet	Sapling																																		
					Quaking Aspen	Low	< 5 feet	Sapling																																		

33	4133 - Aspen, Mixed Pine	Sapling Well	50.6	5	1-50	N/A	Stand filling in well with aspen regen, now 10' tall with some cherry, jack pine, white pine and red pine regen. Older age class of oak, spruce and large multi-stem white pine. Crossroads Mix: 42-13-16; Finished cutting 1/17/19. FTP #C42-905.																																							
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White Spruce	10	Pole/Log	8	66																																										

34	42120 - Planted Jack Pine	Sapling Poor	12.1	7	Immature	N/A	Fully stocked Jack pine stand; dominant size class average 6' tall now. Areas of seedlings still filling in. Regen 2014: Jack pine 300 TPA. FTP 42-665. Hand planted to JP in trenches 5/9/2017. 10/25/2018 - 1yr regen check fully stocked.																													
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Canopy Species	% Cover	Size Class	DBH	Age																																
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Red Pine	1	Log	12																																	
Black Spruce	2	Sapling	3																																	
White Pine	1	Log	11																																	
Paper Birch	4	Sapling	2																																	

35	42210 - Natural Red Pine	Sawtimber Medium	10.7	81	81-110	N/A	Similar composition as stand 40 to the southeast. Contains some scattered trenches that were planted to JP on 5/9/2017 as part of adjacent stand, under FTP 42-665.																										
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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36 42220 - Natural Jack Pine Sapling Well 83.3 25 51-80 N/A Portion of stems now entering pole size class. Stand harvested via Clearcut with Retention: PREACHER CAMP JACK PINE • 42-042-96

Canopy Species	% Cover	Size Class	DBH	Age
Red Pine	3	Log	15	
White Pine	2	Log	15	
Jack Pine	93	Sapling	2	25
Quaking Aspen	2	Sapling	2	

37 429 - Mixed Upland Conifers Sawtimber Well 16.5 70 111-140 N/A Older age class of log sized white pine with mature younger aged red maple and balsam poles with occasional aspen. Older age of aspen and birch now very mature. Areas of maple and spruce fir poles. Some mortality in spruce and birch. 30 - 90 BA of white pine in some areas. Birch and spruce and aspen snags present. Mod site.

Canopy Species	% Cover	Size Class	DBH	Age
Hemlock	3	Log/Pole	10	
Quaking Aspen	14	Log/Pole	12	
White Pine	35	Log/Pole/XLog	16	70
White Spruce	10	Log	13	
Red Maple	14	Pole/Log	8	
Red Pine	2	Log	13	
Balsam Fir	9	Pole	6	
Black Spruce	3	Pole	7	
Paper Birch	10	Log/Pole	12	

Sub-Canopy Species	Density	Avg. Height	Size
Balsam Fir	Medium	Variable	Sapling
Maple (spp.)	Medium	Variable	Sapling
Balsam Fir	Low	Variable	Pole

38 4119 - Mixed Northern Hardwoods Sapling Well 8.0 7 Immature N/A Full flush of mostly hardwood regeneration, now 5-12' tall. Red pine regeneration in old road bed. Harvested via clearcut in 2017 as part of Lost Radio, #012-16. One spruce/acre left uncut.

Canopy Species	% Cover	Size Class	DBH	Age
Balsam Fir	5	Sapling	2	
Hemlock	2	Sapling/Pole	3	
Paper Birch	15	Sapling	1	
Black Cherry	25	Sapling	2	7
Red Maple	45	Sapling	1	7
White Spruce	5	Pole/Sapling	6	
Yellow Birch	3	Sapling	1	

39 4191 - Mixed Upland Deciduous with Conifer Poletimber Well 33.8 70 111-140 N/A Basal area average around 120 ft2 on northern portion. Southern side appears wetter with smaller diameters on average.

Canopy Species	% Cover	Size Class	DBH	Age
Balsam Fir	18	Pole	6	
Red Maple	34	Pole/Log	8	70
Yellow Birch	5	Pole/Log	8	
Paper Birch	15	Log/Pole	12	
Hemlock	9	Log/Pole/XLog	12	
White Spruce	5	Log	13	
White Pine	2	Log/Pole/XLog	16	
Quaking Aspen	12	Pole/Log	8	

Sub-Canopy Species	Density	Avg. Height	Size
Balsam Fir	Medium	Variable	Sapling
Maple (spp.)	Medium	Variable	Sapling



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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40	42210 - Natural Red Pine	Sawtimber Medium	23.5	97	51-80	N/A	Stand harvested in the past. Natural red pine with diverse second age class in subcanopy.
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Canopy Species					% Cover	Size Class	DBH	Age	Sub-Canopy Species				Density	Avg. Height	Size
Red Pine					90	Log/Pole/XLog	14	97	Red Maple				High	Variable	Sapling
Jack Pine					2	Pole	8		Jack Pine				Medium	>20 feet	Sapling
Red Maple					2	Sapling/Pole	4		Red Pine				Low	Variable	Sapling
Paper Birch					3	Sapling/Pole	4	35	Quaking Aspen				Medium	Variable	Sapling
Balsam Fir					3	Sapling/Pole	4		Paper Birch				Medium	Variable	Sapling
									Balsam Fir				Low	Variable	Sapling

41	42220 - Natural Jack Pine	Sapling Poor	136.9	16	Immature	N/A	Pockets of aspen regen.
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Canopy Species	% Cover	Size Class	DBH	Age
Paper Birch	5	Sapling/Pole	3	
White Pine	2	Pole/Log	9	
Red Pine	6	Pole/Log/Sap	8	
Jack Pine	75	Sapling	2	16
Quaking Aspen	10	Sapling	2	
Balsam Fir	2	Sapling	2	

42	42290 - Natural Mixed Pine	Sawtimber Well	31.1	111	81-110	N/A	Eastern portion of the stand has more red pine component. Western portion wetter with white pine and less canopy closure.
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Canopy Species	% Cover	Size Class	DBH	Age
Paper Birch	3	Pole	5	
Red Maple	3	Pole	5	
Red Pine	20	Pole/Log	9	
Quaking Aspen	7	Pole	8	
Black Spruce	7	Pole	5	
White Pine	45	XLog/Log/Pole	19	111
Jack Pine	15	Pole	6	

43	42210 - Natural Red Pine	Sawtimber Medium	31.7	96	81-110	N/A	Upland dry pine stand. Not a lot of natural pine regeneration from below.
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Canopy Species					% Cover	Size Class	DBH	Age	Sub-Canopy Species				Density	Avg. Height	Size
Paper Birch					2	Pole/Log	9		Paper Birch				Low	10 - 20 feet	Sapling
Red Pine					91	Log/XLog	16	96	Red Maple				Medium	10 - 20 feet	Sapling
White Pine					7	Log/XLog	17		White Pine				Low	Variable	Sapling
									Black Spruce				Low	Variable	Sapling

44	3302 - Low Density Conifer Trees	Nonstocked	2.9		Unspecified	No	
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Sub-Canopy Species	Density	Avg. Height	Size
White Pine	Low		Log
Jack Pine	Low		Seeding
Red Pine	Low		Pole
Black Spruce	Low		Sapling



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																				
45	42210 - Natural Red Pine	Sawtimber Well	4.9	98	51-80	N/A	Intermediate ground with narrow wet areas throughout with black spruce saplings, labador tea and mountain holly. Subcanopy is moderate to low closure with spruce, red maple and white pine saplings. Decent red pine regeneration in the landing area. Harvested in 2017 via Thinning as part of Lost Radio, #012-16.																																				
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46	42220 - Natural Jack Pine	Sapling Well	83.6	32	1-50	N/A	Portions of the stand now entering pole size classes in some areas. Stand harvested via Clearcut: East Betsy River Road Sale 42-034-89.																																				
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Jack Pine	72	Sapling/Pole	3	32																																							
Paper Birch	5	Sapling/Pole	3																																								
47	6122 - Black Spruce	Sapling Poor	233.4	70	1-50	N/A	Stand exhibits multiple age classes with high water-table and wet conditions cyclically resulting in occasional die off. Trees growing on hummocks are older and have survived multiple high water fluctuations. Prolonged drought has given the existing regen a chance to grow well and become established. Natural wet/dry cycles will continue to control this stand. Prison Camp Muskeg ERA.																																				
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48	6126 - Lowland Jack Pine	Sapling Medium	40.5	32	Unspecified	N/A	Stand gets wetter with more spruce to the east. Eastern portion of the stand harvested via Clearcut: East Betsy River Road Sale 42-034-89-01.																																				
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49	6122 - Black Spruce	Sapling Medium	3.8	32	Immature	N/A																																					
50	42220 - Natural Jack Pine	Sapling Medium	17.0	32	1-50	N/A	Eastern portion of the stand harvested via Clearcut: East Betsy River Road Sale 42-034-89. Some areas of the stand are semi-open.																																				
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Black Spruce	20	Sapling	2																																								
Red Pine	4	Sapling	1																																								
White Pine	10	Sapling	3																																								
51	6224 - Treed Bog	Nonstocked	16.6			No																																					



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																										
52	6122 - Black Spruce	Sapling Medium	138.2	45	1-50	N/A	Large lowland stand dominated by spruce and jack pine. Inclusions of small pole sized overstory scattered throughout, most of which appear to be not harvested last harvest.																																																										
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53	6126 - Lowland Jack Pine	Poletimber Medium	16.2	73	1-50	N/A	Stand is a subtle ridge existing within a larger sapling dominated lowland stand. Stand comprised of variable diameters; 5 - 10" jack pine poles on the higher areas with smaller diameter poles and saplings in the lower areas. Some black spruce poles but mainly saplings.																																																										
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54	6224 - Treed Bog	Nonstocked	18.4			No																																																											
55	622 - Lowland Shrub	Nonstocked	35.4			No	Open areas have little to no vegetation whereas subtle low ridges are forested with sapling jack pine and black spruce.																																																										
56	6126 - Lowland Jack Pine	Sapling Medium	178.4	73	1-50	N/A	stand mostly lower ground with smaller 2-4 in JP with and ocational ridge that has 6-10 in JP. stand looks to be two age with the smaller jp in the lower areas doing well with the prolonged drought and lower water table																																																										
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57	429 - Mixed Upland Conifers	Sawtimber Well	15.5	97	81-110	N/A	Stand is mostly within a riparian zone. Stand data from 2018.																																																										
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58	4191 - Mixed Upland Deciduous with Conifer	Sapling Medium	17.6	5	1-50	N/A	Portion of old stand 27 that was not trenched/planted. Natural regeneration is okay here. Some wetter areas slow to regenerate.																																																										
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59	4199 - Other Mixed Upland Deciduous	Sapling Well	3.8	7	Immature	N/A	Originally part of stand 39, heavier to aspen. Harvested via clearcut in 2017 to promote aspen. Hemlock was left uncut. Lost Radio, #42-012-16.																																																																								
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60	42220 - Natural Jack Pine	Sawtimber Well	8.5	62	81-110	N/A	Mature jack pine dominated stand with stand with some aspen in association. Areas of red maple and balsam regeneration below. Frequent jack pine mortality within the stand. Stand was not previously mapped as state ownership but was acquired via State Game Fund.																																																																								
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61	42220 - Natural Jack Pine	Poletimber Well	1.8	88	Unspecified	N/A																																																																									
62	4191 - Mixed Upland Deciduous with Conifer	Sapling Well	12.0	5	1-50	N/A	Stand delineated from larger adjacent stand based on canopy closure of residual cohort. All species harvested except red pine, white pine, hemlock, cedar, yellow birch, oak, and trees ringed with green. Cut in 2017 as part of Lost Radio, #012-16.																																																																								
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63	613 - Lowland Mixed Forest	Sapling Medium	3.1	75	1-50	N/A	Stand not visited this inventory cycle. Likely some pole size classes of red and white pine with spruce, red maple and aspen based on aerial photo; tag alder dominated area. Access from private. Most of the stand is within the Betsy River floodplain.																																																																								
64	122 - Road/Parking Lot	Nonstocked	6.3	0		No	Portions of County roads now mappable based on recent widening maintenance; includes road surface and cleared ROW; Portions of West Betsy River road and Maple block road.																																																																								



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65	429 - Mixed Upland Conifers	Sawtimber Well	4.9	80	111-140	N/A	Steep channel within the stand on the southern portion limits access from the south and west; Management access would have to be obtained through private land from the east. Stand occupies a mostly level, sandy shelf with moderate terrain. Appears to be even aged with some natural mortality gaps filling in with balsam generally.																																																							
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66	6126 - Lowland Jack Pine	Poletimber Medium	7.4	73	51-80	N/A	Low ridge within a larger spruce/jack pine lowland area. Slightly larger diameters in this stand intermixed with saplings.																																																							
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67	429 - Mixed Upland Conifers	Sawtimber Well	1.8	97	111-140	N/A	Stand observed from edge this entry to confirm previous inventory data. Management access limitations; see stand 9 comments.																																																							
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68	6126 - Lowland Jack Pine	Sapling Medium	8.3	32	Unspecified	N/A	Stand gets wetter with more spruce to the east. Eastern portion of the stand harvested via Clearcut: East Betsy River Road Sale 42-034-89-01.																																																							
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69	6126 - Lowland Jack Pine	Poletimber Medium	6.5	73	1-50	N/A	Stand is a subtle ridge existing within a larger sapling dominated lowland stand. Stand comprised of variable diameters; 5 - 10" jack pine poles on the higher areas with smaller diameter poles and saplings in the lower areas. Some black spruce poles but mainly saplings.																																																							
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments					
70	320 - Upland Shrub	Nonstocked	8.1		Immature	4222 - Natural Jack Pine	Stand occupies a subtle small sandy ridge within a larger lowland with small upland jack pine and black spruce stand. This small stand is a result of what was actually harvested in previous timber sale. Stand harvested via Clearcut w/ Reserves in 2017 as part of Lost Radio, #42-12-16. Stand was not scarified after harvest due to low ground.					
								Sub-Canopy Species	Density	Avg. Height	Size	
								Jack Pine	Low	Variable	Sapling	
								Jack Pine	Medium	< 5 feet	Seeding	
								Black Spruce	Low	Variable	Sapling	
Red Pine	Low	Unspecified	Pole									
71	6126 - Lowland Jack Pine	Poletimber Medium	5.4	73	1-50	N/A	Stand is a subtle ridge existing within a larger sapling dominated lowland stand. Stand comprised of variable diameters; 5 - 10" jack pine poles on the higher areas with smaller diameter poles and saplings in the lower areas. Some black spruce poles but mainly saplings.					
								Canopy Species	% Cover	Size Class	DBH	Age
								Jack Pine	93	Pole/Sapling	6	73
								Black Spruce	7	Sapling/Pole	4	
								Sub-Canopy Species	Density	Avg. Height	Size	
Jack Pine	Low	Variable	Sapling									
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74	42220 - Natural Jack Pine	Sapling Medium	1.6	32	1-50	N/A	Eastern portion of the stand harvested via Clearcut: East Betsy River Road Sale 42-034-89. Some areas of the stand are semi-open.					
								Canopy Species	% Cover	Size Class	DBH	Age
								White Pine	10	Sapling	3	
								Red Pine	4	Sapling	1	
								Jack Pine	60	Sapling	3	32
								Black Spruce	20	Sapling	2	
								Red Maple	4	Sapling	2	
								Paper Birch	2	Sapling	2	