Compartment Review Presentation

Gwinn Forest Management Unit

Compartment 32024
Entry Year: 2027
Acreage: 1,886
County: Marquette
Management Area: Menominee-Marquette

Stand Examiner: Sean Fischer

Legal Description:

T44N R24W Section(s) 19, 30, 31

Identified Planning Goals:

To maintain and enhance the sustainability of the forest and its associated communities.

Soil and topography:

Level swamps and wetland drainages with a small amount of gently rolling uplands.

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

Mainly State owned with a few private hunting camps.

Unique Natural Features:

Large lowland conifer swamps in the north part of the compartment are a part of the Cyr Swamp (Sawmill Creek Complex PLU).

Archeological, Historical, and Cultural Features:

None identified

Special Management Designations or Considerations:

Potential for eagle, osprey, and great blue heron rookery. Potential for red-shouldered hawk and northern goshawk. Potential for moose and wolf. Potential for wood turtle.
Potential for calypso orchid, Ram's-head orchid, and rayless mountain ragwort in mixed conifer swamps. Potential for auricled tway-blade, western dock, Farwell's water-milfoil, alternate leaved water-milfoil and linear-leaved gentian along riparian areas.

Watershed and Fisheries Considerations:

This compartment contains Sawmill Creek and Mud Creek. Sawmill Creek and Mud Creek are designated Type 1 trout streams less than 50-ft wide and have predicted mean July water temperatures that range from of 65.7 to 68.0°F (cold to cool streams). 300-ft buffers are recommended for Sawmill Creek and Mud Creek in riparian areas susceptible to Aspen regeneration. For areas not susceptible to Aspen regeneration, a minimum 100-foot, plus 5 feet per 1% increase in slope, Riparian Management Zone is recommended to protect these areas in accordance with Best Management Practices.

Wildlife Habitat Considerations:

This compartment is found within the Menominee-Marquette Management Area, on Ground Moraines in southeastern Marquette, southwestern Alger, and northwestern Delta Counties. The dominant Natural Communities are poor conifer swamps, mesic northern forests, and dry northern forests. Major forest cover types include Northern Hardwood, Aspen, and Mixed Lowland Conifer. This management area contains a large proportion of hardwood forest which regenerates well partly due to the heavier snow cover and lower deer numbers than the southern portion of this Management Area. The most significant wildlife management issues in the management area are: mast (hard and soft); mature forest (upland deciduous, especially aspen and mixed forest with little understory); course woody debris, early successional forest, and deer wintering complexes. The following have been identified as featured species for the Menominee-Marquette Management Area: American Woodcock, Blackburnian Warbler, Cerulean Warbler, Golden-winged Warbler, Black-backed Woodpecker, Ruffed Grouse, Turkey, American Marten, Snowshoe Hare, White-tailed Deer, Black Bear.

Mineral Resource and Development Concerns and/or Restrictions

Surface sediments consist of an end moraine of medium-textured glacial till and peat and muck. There is insufficient data to determine the glacial drift thickness (~10-100+ feet). The Ordovician Prairie du Chien Group and Cambrian Trempealeau Formation subcrop below the glacial drift. These formations could be used for stone. A quarry is located four miles to the east. There are no gravel pits in the area, but there is potential on the uplands. Abandoned iron mines are located four miles to the northwest. This State land has not been previously leased for metallic mineral exploration. There is no economic oil and gas production in the UP.

Vehicle Access:

County Road RM, a poor gravel road, and the Swampbuck Road, a poor dirt State-maintained road provide limited access to the south portion of the compartment. Also restricted access through private lands via Parker Spur, another poor dirt State-maintained road.

Survey Needs:

None at this time.

Recreational Facilities and Opportunities:

Mainly hunting and fishing, although some berry picking, wildlife viewing is available.

Fire Protection:

Low fire risk area, although suppression activities would be severely hampered, due to lack of roads and access.

Additional Compartment Information:

The following reports from the Inventory are attached:

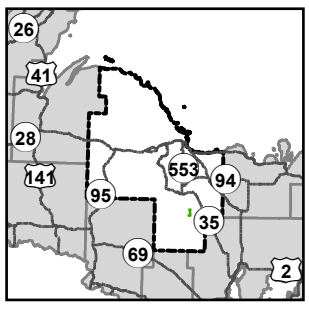
- **Total Acres by Cover Type and Age Class**
- **Cover Type by Harvest Method**
- **Proposed Treatments – No Limiting Factors**
- **Proposed Treatments – With Limiting Factors**
- **Stand Details (Forested and Nonforested)**
- **Dedicated and Proposed Special Conservation Areas**
- **Site Condition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

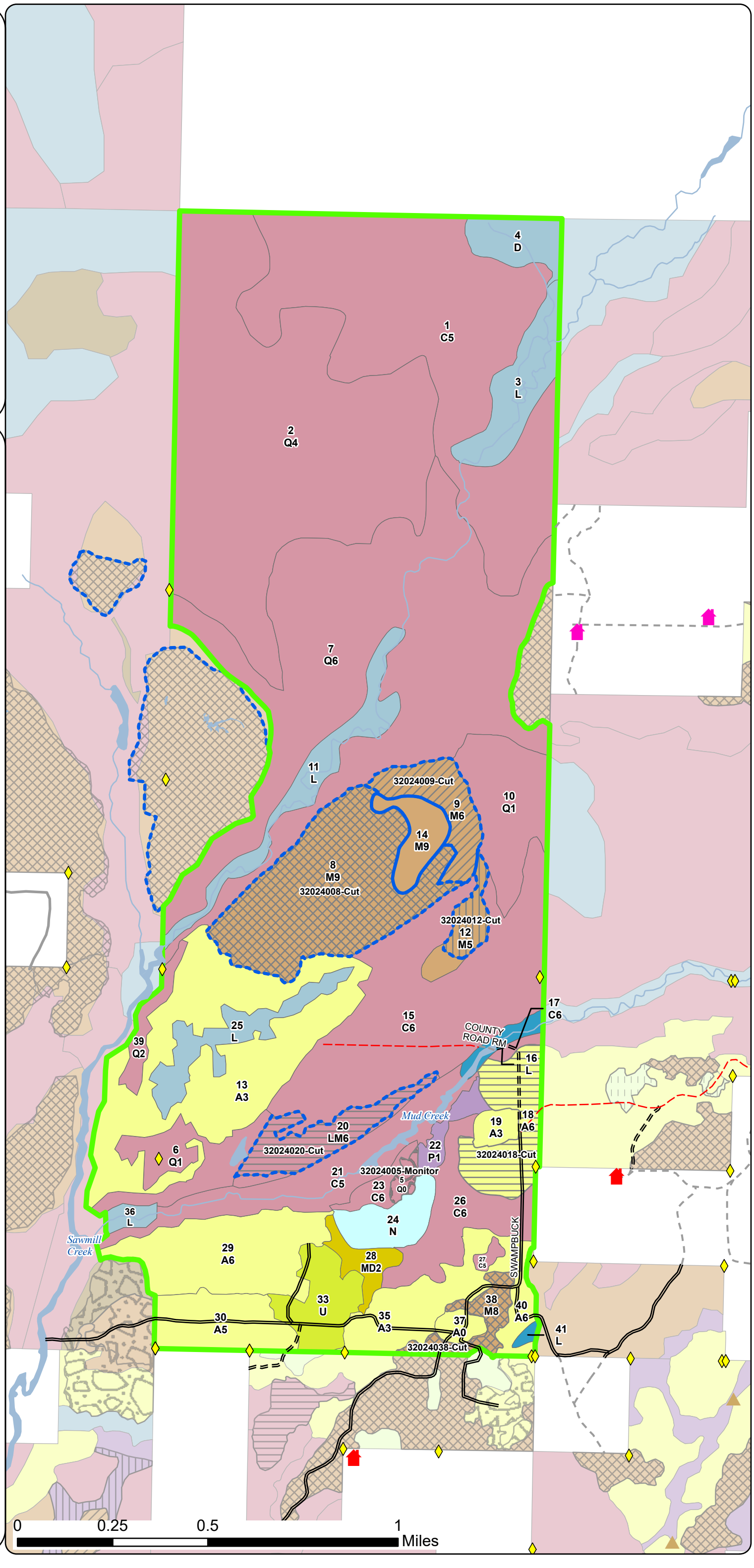
Cover Type & Treatments Map

Compartment: 32024
T44N R24W Sections 19, 30, 31
County: Marquette
Unit: Gwinn
Mgmt. Area: Menominee-Marquette
YOE: 2027
Acres: 1,886.30 GIS Calculated
Examiner: Sean Fischer
Date Exported: 08/18/2025
Map Phase: Web Post



N

- Survey Grade Corners
- Cabin
- Structure, Seasonal Dwelling
- Berms
- DNR - Secondary Forest Road
- DNR - Forest Access Route
- County - Dirt Road (Seasonal)
- Private - Paved Road
- Private - Dirt / Gravel Road
- Perennial River
- Lakes and Rivers
- Counties
- Compartment Boundary
- Treatments with Site Conditions
- Clearcut
- Selection
- Shelterwood
- Thinning
- Monitoring - Regeneration
- Clearcut
- Selection
- Shelterwood
- Thinning
- Openings Mgmt.
- Monitoring - Regeneration
- 411 - Northern Hardwood
- 413 - Aspen
- 419 - Mixed Upland Decidous
- 611 - Lowland Deciduous Forest
- 612 - Lowland Coniferous Forest
- 613 - Lowland Mixed Forest
- 330 - Low Density Trees
- 622 - Lowland Shrub
- 623 - Emergent Wetland
- 629 - Mixed non-forested Wetland



Stand Boundary Map

Compartment: 32024
T44N R24W Section(s) 19, 30, 31
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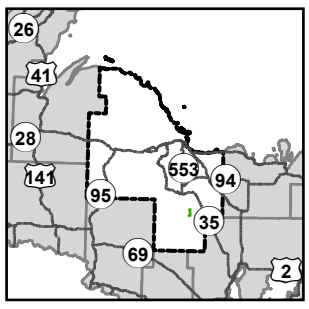

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- Cabin
- Structure, Seasonal Dwelling
- Berms
- DNR - Secondary Forest Road
- DNR - Forest Access Route
- County - Dirt Road (Seasonal)
- Private - Paved Road
- Private - Dirt / Gravel Road
- Perennial River
- Lakes and Rivers
- Counties
- Compartment Boundary
- Stand Outline
- 411 - Northern Hardwood
- 413 - Aspen
- 419 - Mixed Upland Decidous
- 611 - Lowland Deciduous Forest
- 612 - Lowland Coniferous Forest
- 613 - Lowland Mixed Forest
- 330 - Low Density Trees
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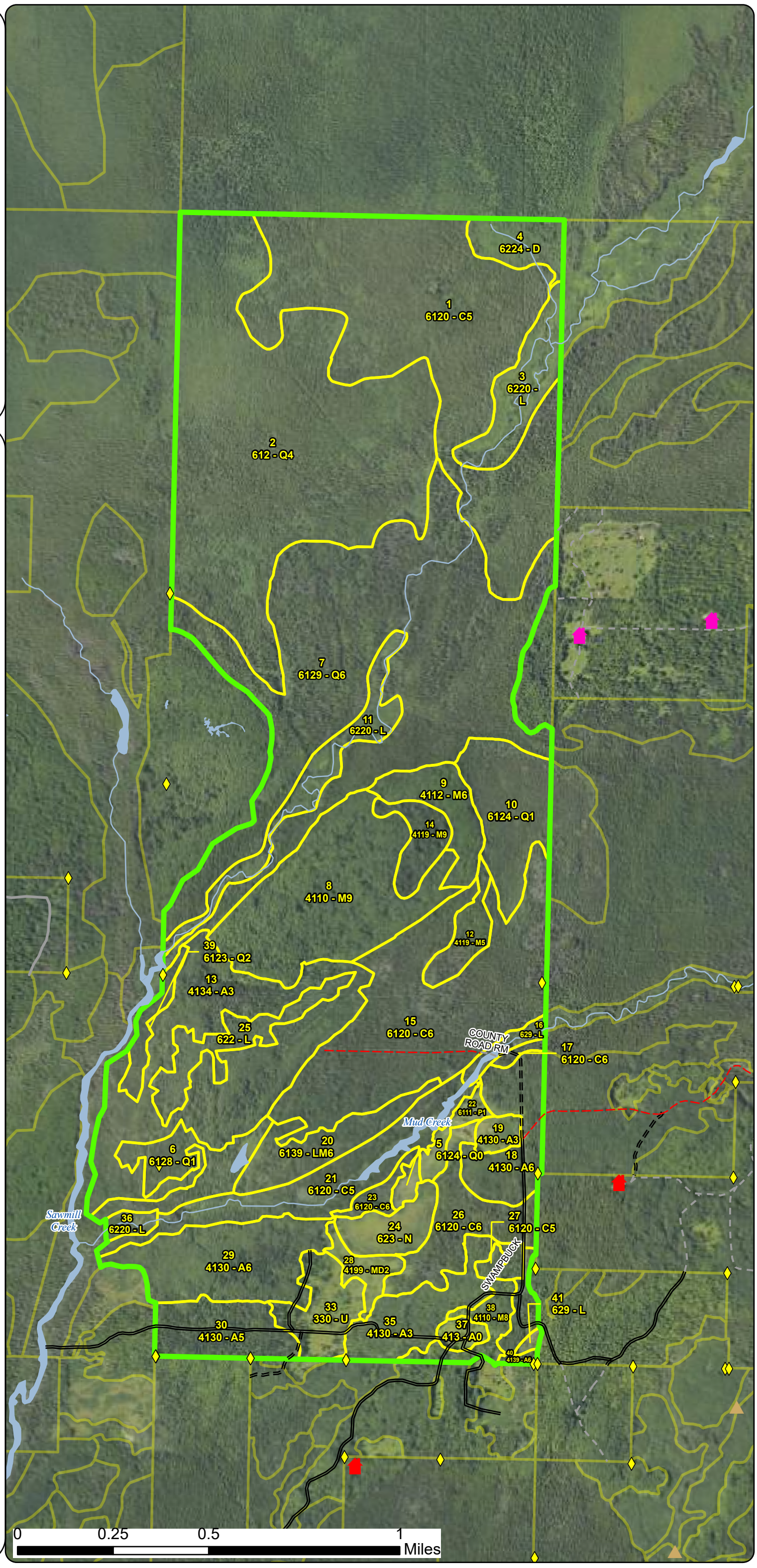

Special Conservation Areas & Site Conditions Map

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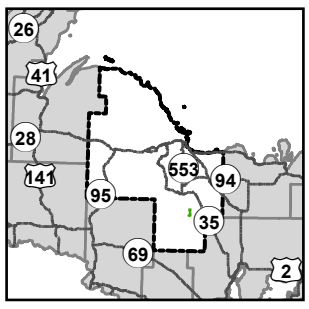

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- Survey Grade Corners
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- DNR - Secondary Forest Road
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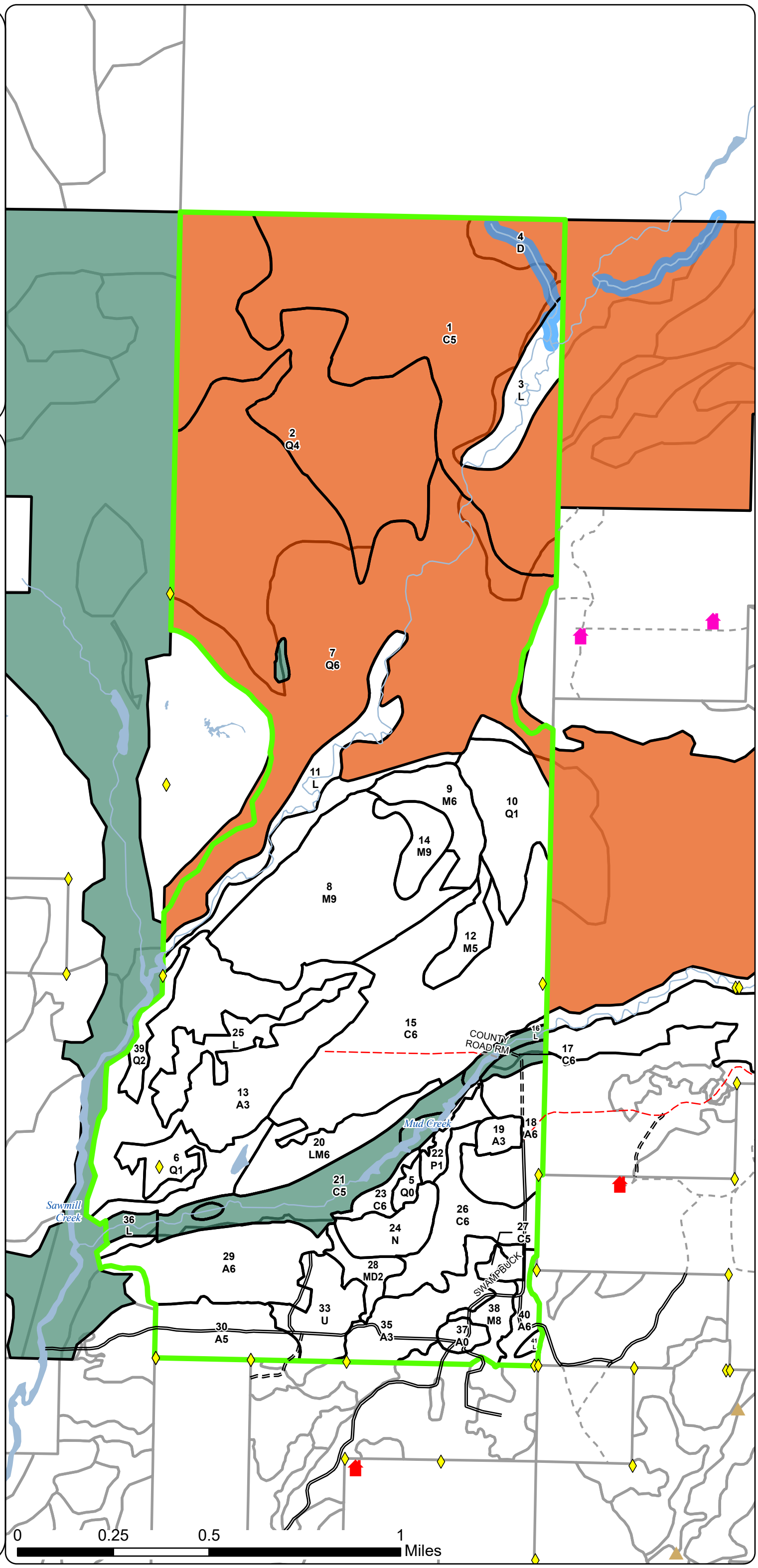
- County - Dirt Road (Seasonal)
- Private - Paved Road
- Private - Dirt / Gravel Road
- Perennial River
- Lakes and Rivers
- Counties
- Compartment Boundary
- Stand Boundaries
- SCA
- SCA Removal
- Cold Water Streams
- High Priority Trout Stream Buffer
- Vernal Pool
- Other Habitat Area



Report 1 – Total Acres by Cover Type and Age Class

Gwinn Mgt. Unit **Compartment 24** **Year of Entry 2027**

Sean Fischer: 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	6	7	38	10	255	0	0	0	0	0	0	0	0	0	0	0	0	0	**316**
Cedar	0	0	0	0	0	0	0	0	0	0	41	3	7	0	434	0	0	0	**485**
Low-Density Trees	26	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	**26**
Lowland Aspen/Balsam Poplar	0	9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	**9**
Lowland Conifers	4	0	0	0	42	45	0	0	0	0	0	0	0	304	0	297	0	0	**692**
Lowland Mixed Forest	0	0	0	0	0	0	0	0	0	0	0	0	29	0	0	0	0	0	**29**
Lowland Shrub	103	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	**103**
Marsh	19	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	**19**
Mixed Upland Deciduous	0	11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	**11**
Northern Hardwood	0	0	0	0	0	0	0	0	0	0	55	0	0	0	0	0	0	122	**177**
Treed Bog	19	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	**19**
Total	**177**	**27**	**38**	**10**	**297**	**45**	**0**	**0**	**0**	**0**	**96**	**3**	**36**	**304**	**434**	**297**	**0**	**122**	**1886**

Report 2 – Treatment Summary

Gwinn Mgt. Unit
Year of Entry: 2027

Compartment 24
Total Compartment Acres: 1,886

Acres of Harvest

Commercial Harvest - 98
Harvests with Site Condition - 368
Next Step Harvest - 0
Habitat Cut - 0

Cover Type by Harvest Method

	Clearcut	Selection	Patch Clearcut	Seed Tree	Shelterwood	Thinning	Overstory Removal	Salvage	Other	Total Acres
Aspen	35	0	0	0	0	0	0	0	0	**35**
Lowland Mixed Forest	26	0	0	0	0	0	0	0	0	**26**
Northern Hardwood	0	122	0	0	10	25	0	0	0	**173**
Total	**61**	**122**	**0**	**0**	**10**	**25**	**0**	**0**	**0**	**234**

Proposed and Next Step Treatments by Method

	Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current	234	0	0	0	0	0	4	0	0	**238**
Next Step	0	0	0	0	0	0	234	0	0	**234**
Total	**234**	**0**	**0**	**0**	**0**	**0**	**238**	**0**	**0**	**473**

Proposed Treatments:

Stand	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
5	32024005-Monitor	4.0	6124 - Lowland Spruce-Fir	0	5		Monitoring	Monitoring - Regeneration	4134 - Aspen, Spruce/Fir	Planting Record	No

Prescription Specs: Monitor again at reinventory for regeneration success. Stand needs more time

Next Step Treatments:

Acceptable Regen: Spruce, fir, paper birch, yellow birch, aspen spp., balsam poplar, black cherry, cedar, red maple

Other Comment:

Site Condition:

Proposed Start Date: 10/01/2026

8	32024008-Cut	107.4	4110 - Sugar Maple Association	9	100	111-140	Harvest	Selection	411 - Northern Hardwood	Current	No

Prescription Specs: Mark stand to 70-90 BA residual to encourage development of quality regeneration. Follow complete marker. Leave legacy trees (trees >26inches dbh), wildlife-quality cavity trees. Favor retention of yellow birch, elm, basswood. Leave some wind firm white s

Next Step Treatments: Monitoring, Natural Regen (Re-Inventory)

Acceptable Regen: Red maple, sugar maple, yellow birch, spruce, paper birch, aspen, white pine, hemlock, cedar, basswood, black cherry

Other Comment: Will need bridge over Mud Creek. Winter only access

Site Condition: Portable Bridge Needed

Proposed Start Date: 10/01/2026

9	32024009-Cut	24.9	4112 - Maple, Beech, Cherry Association	6	97	141-170	Harvest	Thinning	411 - Northern Hardwood	Planting Record	No

Prescription Specs: Even aged thinning to encourage crop trees. Thin to 80-100 BA, target of 90, focusing on improving the best quality stems, following the standard order of removal. Mark for operability. Favor retention of yellow birch, hemlock, spruce, basswood, and black

Next Step Treatments: Monitoring, Natural Regen (Re-Inventory)

Acceptable Regen:

Other Comment: Winter only access

Site Condition: Portable Bridge Needed

Proposed Start Date: 10/01/2027

Stand	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
12	32024012-Cut	10.2	4119 - Mixed Northern Hardwoods	5	90	51-80	Harvest	Shelterwood	411 - Northern Hardwood	Planting Record	No

Prescription Specs: Establishment cut of shelterwood system. Cut all live trees to 2 inches diameter regardless of merchantability except reserve all hemlock, yellow birch, cedar. Leave tree mark to 30-50 total residual BA, favoring retention of wildlife-quality large diamet

Next Step Treatments: Monitoring, Natural Regen (Re-Inventory)

Acceptable Regen: Red maple, sugar maple, spruce, yellow birch, basswood, oak, aspen, white birch, cedar, hemlock,

Other Comment:

Site Condition: Portable Bridge Needed

Proposed Start Date: 10/01/2026

Stand	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
14	32024014-Cut	16.2	4119 - Mixed Northern Hardwoods	9	90	111-140	Harvest	Other Harvest - See Comments	411 - Northern Hardwood	Current	No

Prescription Specs: Cut all merchantable spruce, fir, white birch, and aspen, except for trees marked with green paint. Mark other species in orange for equipment operability only if needed. Green tree some healthy windfirm spruce.

Next Step Treatments: Monitoring, Natural Regen (Re-Inventory)

Acceptable Regen: Sugar maple, basswood, red maple, cedar, hemlock, yellow birch, white birch, spruce, aspen, oak.

Other Comment: Harvest will function as a sts and a thinning to promote current hardwood pole timber and encourage northern hardwood regeneration.

Site Condition: Portable Bridge Needed

Proposed Start Date: 10/01/2026

Stand	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
18	32024018-Cut	35.1	4130 - Aspen	6	35	81-110	Harvest	Clearcut	413 - Aspen	Planting Record	No

Prescription Specs: Cut all trees to 2 inches dbh, except do not cut northern white cedar. Additionally, create 1 drumming log for every five acres. The log should be between 9-15 inches in diameter and 8ft long, laying adjacent to it's stump.

Next Step Treatments: Monitoring, Natural Regen (Re-Inventory)

Acceptable Regen: Aspen, balsam poplar, red maple, fir, spruce, cedar, black cherry, basswood, sugar maple

Other Comment: Stand will need 2-10% retention.

Site Condition:

Proposed Start Date: 10/01/2026

Stand	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
20	32024020-Cut	26.2	6139 - Mixed Lowland Forest	6	116	51-80	Harvest	Clearcut	613 - Lowland Mixed Forest	Planting Record	No

Prescription Specs: Cut all stems meeting 2.2 utilization, except do not cut cedar, hemlock, yellow birch, or trees marked with green paint. Treatment acreage may differ significantly due to low wet ground.Green tree some healthy tamarack and larger paper birch. Use den

Next Step Treatments: Monitoring, Natural Regen (Re-Inventory)

Acceptable Regen: red maple, paper birch, black spruce, tamarack, fir, cedar, aspen, fir, balsam poplar

Other Comment: Recommended optional payment unit

Site Condition: Portable Bridge Needed

Proposed Start Date: 10/01/2026

Approved Treatments:

Stand	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
38	32024038-Cut	14.3	4110 - Sugar Maple Association	8	100	51-80	Harvest	Selection	411 - Northern Hardwood	Current	No

Prescription Specs: Mark stand to 70-90 BA. Maintain older canopy gaps that are growing in while creating new ones to establish/release regeneration. Remove all merchantable spruce/fir. Leave some large future snag trees for wildlife. Leave cedar, hemlock, black cherry, and

Next Step Treatments: Monitoring, Natural Regen (Re-Inventory)

Acceptable Regen: northern hardwood

Other Comment: Do not mark below target in areas with lighter BA.

Site Condition:

Proposed Start Date: 10/01/2020

Total Treatment Acreage Proposed: 238.3

Report 4 – Site Conditions

Gwinn Mgt. Unit

Sean Fischer: Examiner

Compartment: 24

Year of Entry: 2027

Availability for Management

Total Acres	Acres Available	*Acres Avail With Condition*	Acres Not Available		Dominant Site Conditions *2D*	2G	2H	3J	5A	5D	5E
316	316	*0*	0	**Aspen**							
436	2	*0*	434	**Cedar**			155	108	171		
26	26	*0*	0	**Low-Density Trees**							
9	9	*0*	0	**Lowland Aspen/Balsam Poplar**							
608	14	*0*	594	**Lowland Conifers**		26	69	154		344	
29	0	*26*	3	**Lowland Mixed Forest**	*26*						3
103	103	*0*	0	**Lowland Shrub**							
19	19	*0*	0	**Marsh**							
11	11	*0*	0	**Mixed Upland Deciduous**							
177	15	*159*	4	**Northern Hardwood**	*159*						4
19	19	*0*	0	**Treed Bog**							
1,753	534	*185*	1,035	Total Forested Acres	*185*	26	225	263	171	344	7
	30%	*11%*	59%	Relative Percent							

**Due to limitations in the current Site Conditions Analysis tool, all nonforested acres are considered available. Future development will enable analysis of nonforested types.*

Site No.	Dominant Site Cond Availability	Dominant Site Condition	Acres	Other Site Condition	Other Site Condition	Other Site Condition	Other Site Condition
1	**Unavailable**	**3J: Water quality/BMPs (stream, river, or lake)**	55	Unspecified	Unspecified	Unspecified	Unspecified
	Comments: Part of buffer of Mud Creek.						
2	**Unavailable**	**3J: Water quality/BMPs (stream, river, or lake)**	218	Unspecified	Unspecified	Unspecified	Unspecified
	Comments:						
3	**Unavailable**	**3J: Water quality/BMPs (stream, river, or lake)**	3	Unspecified	Unspecified	Unspecified	Unspecified
	Comments:						

4	**Unavailable**	**5A: Not able to obtain desirable regeneration**	32	3J: Water quality/BMPs (stream, river, or lake)	2G: Too wet (sensitive soils, does not include access issues)	Unspecified	Unspecified

Comments:
Includes buffer of intermittent stream within stand which drains beaver dam to the south. Also includes bmp buffer of Mud Creek.

5	**Unavailable**	**2G: Too wet (sensitive soils, does not include access issues)**	27	2D: Portable bridge needed (Dept. bridge will be adequate)	Unspecified	Unspecified	Unspecified

Comments:
Wet failed portion of larger surrounding aspen stand. Need bridge over mud creek to the south to access stand.

6	**Unavailable**	**3J: Water quality/BMPs (stream, river, or lake)**	7	Unspecified	Unspecified	Unspecified	Unspecified

Comments:

7	**Available**	**2D: Portable bridge needed (Dept. bridge will be adequate)**	10	Unspecified	Unspecified	Unspecified	Unspecified

Comments:

8	**Unavailable**	**5E: Long-Term Retention**	0	Unspecified	Unspecified	Unspecified	Unspecified

Comments:

9	**Unavailable**	**5D: Unproductive forest land**	299	Unspecified	Unspecified	Unspecified	Unspecified

Comments:

10	**Unavailable**	**2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)**	155	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
11	**Unavailable**	**5E: Long-Term Retention**	4	2D: Portable bridge needed (Dept. bridge will be adequate)	Unspecified	Unspecified	Unspecified
Comments:							
12	**Unavailable**	**5D: Unproductive forest land**	45	2G: Too wet (sensitive soils, does not include access issues)	Unspecified	Unspecified	Unspecified
Comments:							
13	**Unavailable**	**2H: Blocked by physical obstacle (e.g. upland stand in a lowland area)**	69	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
14	**Unavailable**	**5A: Not able to obtain desirable regeneration**	139	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
15	**Available**	**2D: Portable bridge needed (Dept. bridge will be adequate)**	26	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Stand is blocked by Sawmill Creek to the South, very wet cedar to the north, and wet beaver flooded area to the west							

16	**Available**	**2D: Portable bridge needed (Dept. bridge will be adequate)**	107	Unspecified	Unspecified	Unspecified	Unspecified

Comments:
Need to check areas to seat bridge when the snow is off. May be a place for a bridge near western-most edge of compartment.

17	**Available**	**2D: Portable bridge needed (Dept. bridge will be adequate)**	25	Unspecified	Unspecified	Unspecified	Unspecified

Comments:
Need to check areas to seat bridge when the snow is off. May be a place for a bridge near western-most edge of compartment.

18	**Available**	**2D: Portable bridge needed (Dept. bridge will be adequate)**	16	Unspecified	Unspecified	Unspecified	Unspecified

Comments:
Need to check areas to seat bridge when the snow is off. May be a place for a bridge near western-most edge of compartment.

19	**Unavailable**	**5E: Long-Term Retention**	3	3J: Water quality/BMPs (stream, river, or lake)	Unspecified	Unspecified	Unspecified

Comments:
Part of buffer of Mud Creek.

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 7 – Stands

Compartment: 24
Year of Entry: 2027

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
1	6120 - Lowland Cedar	Poletimber Medium	233.2	138	51-80	N/A	Smaller diameter cedar within tagalder. Some scattered spruce, tamarack. Soils are Carbondale and Tawas mucks. Part of Cyr Swamp.SF 2025: Confirmed last inventory data.
2	612 - Lowland Coniferous Forest	Poletimber Poor	303.9	127	1-50	N/A	Lower stocking than adjacent cedar stand - more tagalder and intermittent drainages. Soils are Carbondale and Tawas. Part of Cyr Swamp.
3	6220 - Alder/Willow	None	32.5			No	Lowland brush/tagalder containing Sawmill Creek.
4	6224 - Treed Bog	None	19.1			No	Mainly spruce, cedar. Part of Cyr Swamp.SF 2025: Tamarack seen on imagery as well.
5	6124 - Lowland Spruce-Fir	Unspecifed	4.0	5			Sf 2025: Cut portion of stand 23, cut around 2020. OPIC - FMD: WELL-STOCKED 3-STICK B,SPRUCE. LEAVE FOR BUFFER ALONG CREEK
6	6128 - Lowland Coniferous, Mixed Deciduous	Sapling Poor	31.5	33	1-50	N/A	"Mud Creek" sale #036-88 (unit 3,5) - cut Feb, 1991 and Feb, 1992. Scattered conifers.SF 2025: Wet mixed lowland sapling/pole stand. Failed portion of surrounding aspen stand. Low basal area, not very dense. Contains large beaver dam and flooded opening in the southeast. Contains buffer to Mud Creek.

Stand 1

Canopy Species	% Cover	Size Class	DBH	Age
Northern White Cedar	96	Sapling	5	138
Tamarack	2	Sapling	6	
Black Spruce	2	Pole	4	

Sub-Canopy Species	Density	Avg. Height	Size
Tag Alder	High	5 - 10 feet	5 - 10 feet

Stand 5

Sub-Canopy Species	Density	Avg. Height	Size
Tamarack	Medium	< 5 feet	< 5 feet
Northern White Cedar	Trace	>20 feet	>20 feet
Black Spruce	Medium	< 5 feet	< 5 feet
Balsam Fir	Medium	< 5 feet	< 5 feet
Tag Alder	Medium	5 - 10 feet	5 - 10 feet
Aspen (spp.)	Medium	5 - 10 feet	5 - 10 feet
Balsam Poplar	Medium	5 - 10 feet	5 - 10 feet

Stand 6

Canopy Species	% Cover	Size Class	DBH	Age
Balsam Poplar	5	Log	4	33
Quaking Aspen	10	Pole	4	33
Paper Birch	10	Pole	3	
Black Spruce	26	Sapling	5	33
Red Maple	2	Log	3	
Tamarack	30	Sapling	5	33
Northern White Cedar	2	Sapling	5	

Sub-Canopy Species	Density	Avg. Height	Size
Tamarack	Low	5 - 10 feet	5 - 10 feet
White Pine	Trace	5 - 10 feet	5 - 10 feet
Black Cherry	Trace	10 - 20 feet	10 - 20 feet
Balsam Fir	High	Variable	Variable
Red Maple	Medium	10 - 20 feet	10 - 20 feet
Alder	High	5 - 10 feet	5 - 10 feet
Black Spruce	Medium	5 - 10 feet	5 - 10 feet

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
7	6129 - Mixed Coniferous Lowland Forest	Poletimber Well	297.4	140	81-110	N/A	OPIC - FMD: SAWMILL CREEK FLOWS THOUGH STAND. 2015: Mainly cedar, especially along Sawmill Creek, with scattered higher grounds containing more merchantable mixed spruce/fir and remnant old white pine, hemlock. Any treatments would be greatly limited by heavy cedar component, access, and bridge would be required over Sawmill Creek. SF 2025: Confirmed last inventory data. Most of spruce, birch, and red maple are located within bmp buffer of Sawmill Creek.

Canopy Species	% Cover	Size Class	DBH	Age
Balsam Fir	2	Sapling	5	
Northern White Cedar	45		7	140
Red Maple	3		8	
Tamarack	3		9	
Black Ash	2	Sapling	5	
Hemlock	2		12	
Quaking Aspen	1		16	
Black Spruce	32	Sapling	6	
White Pine	3		22	
Paper Birch	5		9	
White Spruce	2		12	

Sub-Canopy Species	Density	Avg. Height	Size
Balsam Fir	High	Variable	Variable
Paper Birch	Low	10 - 20 feet	10 - 20 feet
Black Ash	Medium	>20 feet	>20 feet
Northern White Cedar	Low	10 - 20 feet	10 - 20 feet
Black Spruce	Medium	>20 feet	>20 feet
Tag Alder	High	5 - 10 feet	5 - 10 feet

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
8	4110 - Sugar Maple Association	Sawtimber Well	107.4	100	111-140	N/A	OPIC - FMD: REMOTE, LARGE TREES. Poles in NE part of stand, with larger diameters interior. Need bridge over Mud Creek to access. Long snowplow (approximately 7 miles) of Swamp Buck Road, plus A3 to cross to get to the sale. Access from north, across treed bog and through private lands, might be possible but not likely due to questionable ability to freeze bog. Stand was previously set-up as "Mud Creek Sale" #005-07 - sale was cancelled without any activity, due to site conditions restricting access. Portable bridge would be insufficient, due to additional beaver flooding at crossing. Old orange and red paint is still visible. Heavy defects noted throughout - some areas more to small poles, saplings. Dead white spruce, fir and aspen within, as well as snapped spruce, basswood and aspen. Legacy trees present. Some rolling topography and ridges, esp. along lowland areas. Leatherwood noted. SF 2025: Xlog size supercanopy sugar maple trees with log size sugar maple in the dominant position of the normal canopy. Fair sawtimber potential in the log size sugar maple. Lots of defect and disease observed. Many good quality (large diameter, cavitatious) trees observed. Most maple saplings are not acceptable growing stock.

Canopy Species	% Cover	Size Class	DBH	Age
Paper Birch	1		7	
Quaking Aspen	1		15	
White Spruce	2		16	
Sugar Maple	25		25	125
Northern White Cedar	1		10	
Red Maple	5		12	125
Hemlock	1		14	
Yellow Birch	5		18	
Basswood	5		14	
Balsam Fir	1	Seedling	7	
Sugar Maple	52		15	100
Black Cherry	1	Seedling	8	

Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	Low	>20 feet	>20 feet
Sugar Maple	Low	>20 feet	>20 feet
Leatherwood	Medium	5 - 10 feet	5 - 10 feet
Balsam Fir	Low	Variable	Variable
White Spruce	Low	Variable	Variable
Ironwood	Low	10 - 20 feet	10 - 20 feet

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
9	4112 - Maple, Beech, Cherry Association	Poletimber Well	24.9	97	141-170	N/A	Higher ridge of smaller timber. A few legacy red and sugar maple within. SF 2024: Dense red maple pole stand, unthinned for a long time. Younger than hardwood stands to the west.

Canopy Species	% Cover	Size Class	DBH	Age
Black Cherry	2		8	
White Spruce	1		18	
Red Maple	85		9	97
Quaking Aspen	2		12	
Yellow Birch	2		20	
Hemlock	1		10	
Sugar Maple	7		7	

Sub-Canopy Species	Density	Avg. Height	Size
White Spruce	Low	5 - 10 feet	5 - 10 feet
Balsam Fir	Low	10 - 20 feet	10 - 20 feet
Sugar Maple	Low	5 - 10 feet	5 - 10 feet
Red Maple	High	>20 feet	>20 feet

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
10	6124 - Lowland Spruce-Fir	Sapling Poor	45.2	42	1-50	N/A	Lab tea ground cover. Stand edges contain slightly larger dbh stems.SF 2025: Stand is low density, close to a treed bog complex. Stems are small diameter and very slow growing. Low ground. Ground cover of Labrador tea, sphagnum moss, leatherleaf. Dwarf mistletoe present on black spruce.

Canopy Species	% Cover	Size Class	DBH	Age
Black Spruce	49	Pole	4	42
White Pine	2	Log	2	
Northern White Cedar	5	Seedling	5	
Balsam Fir	2	Pole	4	
Tamarack	42	Sapling	5	

Sub-Canopy Species	Density	Avg. Height	Size
Black Spruce	Medium	5 - 10 feet	5 - 10 feet

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
11	6220 - Alder/Willow	None	31.7			No	Lowland brush along Sawmill Creek. Creek only about 10ft wide here. Surrounded by lowland stands on all sides.

Sub-Canopy Species	Density	Avg. Height	Size
Black Cherry	Trace	>20 feet	>20 feet
Balsam Fir	Trace	>20 feet	>20 feet
Black Spruce	Trace	>20 feet	>20 feet
Tag Alder	Full	5 - 10 feet	5 - 10 feet
White Pine	Trace	>20 feet	>20 feet

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
12	4119 - Mixed Northern Hardwoods	Poletimber Medium	14.1	90	51-80	N/A	Stand was set-up as "Mud Creek Sale" #005-07 - sale was cancelled without any activity, due to site limitations. Older balsam fir, aspen has died out of stand. Majority of stand is lower site.Sf 2025: Stand is red maple log/pole stand with a component of log/pole size white birch. Understory is heavily dominated by dead fir poles and saplings. Red maple stem quality is ok to poor.

Canopy Species	% Cover	Size Class	DBH	Age
Balsam Fir	2	Pole	4	
White Pine	2		20	
Hemlock	5		18	
Red Maple	60		11	90
White Spruce	3		11	
Northern White Cedar	3		10	
Paper Birch	20		10	
Yellow Birch	5		14	

Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	Low	Variable	Variable
Balsam Fir	Medium	Variable	Variable

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
13	4134 - Aspen, Spruce/Fir	Sapling Well	127.3	33	51-80	N/A	"Mud Creek" sale #036-88 (unit 3,5) - cut Feb, 1991 and Feb, 1992. Some sparse and wet areas, but overall well-stocked. Small opening along north end. Scattered conifers.SF 2025: Stand is an upland patchy aspen stand with large low ground areas. The quality and size of trees is also patchy. Openings of tag alder, forbs, and grasses exist both in upland and lowland areas.

Canopy Species	% Cover	Size Class	DBH	Age
Red Maple	1	Seedling	6	33
Black Cherry	2	Sapling	5	
Paper Birch	2	Pole	4	
Bigtooth Aspen	10	Seedling	8	33
Black Spruce	15	Seedling	5	
Quaking Aspen	39	Sapling	7	33
Northern White Cedar	1	Seedling	6	
Balsam Poplar	15	Seedling	6	33
Balsam Fir	15	Seedling	5	33

Sub-Canopy Species	Density	Avg. Height	Size
Balsam Fir	High	Variable	Variable
White Spruce	Low	10 - 20 feet	10 - 20 feet
Black Cherry	Medium	10 - 20 feet	10 - 20 feet
Red Maple	High	< 5 feet	< 5 feet
Tag Alder	Medium	5 - 10 feet	5 - 10 feet
Red Maple	Medium	10 - 20 feet	10 - 20 feet
Aspen (spp.)	Medium	10 - 20 feet	10 - 20 feet

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
14	4119 - Mixed Northern Hardwoods	Sawtimber Well	16.2	90	111-140	N/A	OPIC - FMD: OLD HABITAT CUT.SPROUT ORIGIN TREES. SOME BIG RESIDUAL. Thicker balsam fir with spruce; clump red maple and black cherry. Fir is overmature and should be harvested; some already standing dead. Soils are Charlevoix-Ensley.SF 2025: Stand contains large diameter dominant sugar maple and basswood with a mid story of maple poles and fir. Poles are developing well, but are largely too small to be thinned. The fir and spruce is overmature, with 30% dead or dying from SBW. Many of the hardwood trees are well past economic maturity, are hazard trees, and are now wildlife-quality (large diameter and cavitatious trees) Stand is succeeding to full uneven aged northern hardwoods.

Canopy Species	% Cover	Size Class	DBH	Age
Black Cherry	1		9	
Red Maple	9		12	
Balsam Fir	30		9	90
Basswood	30		12	90
White Spruce	2		12	
Sugar Maple	27		22	90
Quaking Aspen	1		12	

Sub-Canopy Species	Density	Avg. Height	Size
Ironwood	Trace	10 - 20 feet	10 - 20 feet
White Spruce	Medium	Variable	Variable
American Elm	Trace	10 - 20 feet	10 - 20 feet
Red Maple	Medium	>20 feet	>20 feet
Balsam Fir	High	>20 feet	>20 feet

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
15	6120 - Lowland Cedar	Poletimber Well	146.3	135	111-140	N/A	SF 2025: Lowland cedar stand with supercanopy white spruce. Patches of tamarack within.Lab tea ground cover noted.

Canopy Species	% Cover	Size Class	DBH	Age
White Spruce	2		12	
Red Maple	2	Seedling	8	
White Pine	2		22	
Hemlock	2		16	
Northern White Cedar	80		6	135
Tamarack	10		8	
Paper Birch	2	Sapling	6	

Sub-Canopy Species	Density	Avg. Height	Size
Black Spruce	High	Variable	Variable
Tag Alder	Medium	5 - 10 feet	5 - 10 feet
Balsam Fir	High	5 - 10 feet	5 - 10 feet

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
16	629 - Mixed non-forested Wetland	None	6.8			No	Contains Mud Creek. Mostly tag alder with clumps of poles interior and on the perimeter.

Sub-Canopy Species	Density	Avg. Height	Size
Tamarack	Trace	>20 feet	>20 feet
Balsam Fir	Low	>20 feet	>20 feet
Northern White Cedar	Low	>20 feet	>20 feet
Black Spruce	Low	>20 feet	>20 feet
Tag Alder	Full	5 - 10 feet	5 - 10 feet

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
17	6120 - Lowland Cedar	Poletimber Well	2.6	105	81-110	N/A	Stand provides upland buffer to Mud Creek.

Canopy Species	% Cover	Size Class	DBH	Age
Paper Birch	10		9	
Red Maple	1	Seedling	8	
Northern White Cedar	67		10	105
Quaking Aspen	10		14	
Balsam Fir	5	Sapling	5	
White Spruce	2		10	
Balsam Poplar	5		12	

Sub-Canopy Species	Density	Avg. Height	Size
Balsam Fir	Medium	Variable	Variable

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
18	4130 - Aspen	Poletimber Well	35.1	35	81-110	N/A	"Swampbuck Aspen" sale #002-87 - cut sp/su 1989 with C. 25 to the east. A 1 acre patch of hardwood was retained within stand. Ground cover of trillium, hazel, raspberry noted.SF 2024: Great quality upland aspen stand, approaching its peak quality early.
19	4130 - Aspen	Sapling Well	6.6	5	Immature	N/A	Cut around 2019.Stand is in decline - blowdown large white spruce, dead aspen and fir. Harvest now. Trace hardwoods from early 30's stand. Trace elm. Transitions into lower ground with more paper birch, spruce. SF 2025: Well stocked aspen stand. Upland with lowland patches. In some lowland patches, especially those which experienced some rutting last entry, aspen is not regenerating, cattail and rubus spp. occupy these areas.
20	6139 - Mixed Lowland Forest	Poletimber Well	29.4	116	51-80	N/A	SF 2025: Spruce in stand is falling apart, as is birch, resulting in variable basal areas ranging from 30-40 to 70-80. Wet. Very difficult access due to beaver flooding.Need bridge over Mud Creek and DEQ permit; winter job. Stand was set-up as "Mud Creek Sale" #005-07 (unit 1) - sale was cancelled without any activity, due to site conditions and inability to get bridge installed.
21	6120 - Lowland Cedar	Poletimber Medium	54.9	135	51-80	N/A	Contains Mud Creek and buffer. Some dead timber, due to beaver activity along creek. Patchy timber.SF 2025: Density highly variable in stand, with patches of dead timber from flooding. Cedar pole timber patches are most common, but also has patches of spruce/fir and tag alder.

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Canopy Species	% Cover	Size Class	DBH	Age
Quaking Aspen	85		8	35
Balsam Poplar	5	Pole	4	35
White Spruce	2	Log	3	35
Northern White Cedar	1	Seedling	7	
Red Maple	4	Seedling	7	35
Balsam Fir	3	Pole	4	

Sub-Canopy Species	Density	Avg. Height	Size
Maple (spp.)	Low	10 - 20 feet	10 - 20 feet
Hazelnut (Spp.)	Low	5 - 10 feet	5 - 10 feet
Black Cherry	Low	10 - 20 feet	10 - 20 feet
Balsam Fir	Medium	Variable	Variable
White Spruce	Low	Variable	Variable

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Canopy Species	% Cover	Size Class	DBH	Age
Red Maple	2	Log	1	5
Black Cherry	2	Log	1	5
Balsam Poplar	6	Log	1	5
Balsam Fir	5	Log	1	5
Quaking Aspen	84	Log	2	5
White Spruce	1	Log	2	5

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Canopy Species	% Cover	Size Class	DBH	Age
Paper Birch	40		8	
Balsam Fir	5	Sapling	6	
Red Maple	10	Seedling	7	
Black Spruce	40	Sapling	7	116
Tamarack	5		9	

Sub-Canopy Species	Density	Avg. Height	Size
Paper Birch	Medium	5 - 10 feet	5 - 10 feet
Red Maple	High	5 - 10 feet	5 - 10 feet
Balsam Fir	Medium	5 - 10 feet	5 - 10 feet
Tag Alder	Medium	5 - 10 feet	5 - 10 feet
Black Spruce	Medium	< 5 feet	< 5 feet

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Canopy Species	% Cover	Size Class	DBH	Age
Northern White Cedar	78		8	135
Black Spruce	10		7	
White Spruce	2		14	
Balsam Fir	10		8	

Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	Low	10 - 20 feet	10 - 20 feet
Balsam Fir	Medium	10 - 20 feet	10 - 20 feet
Paper Birch	Low	10 - 20 feet	10 - 20 feet
Tag Alder	High	5 - 10 feet	5 - 10 feet

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
22	6111 - Lowland Balsam Poplar	Sapling Poor	8.7	6	Immature	N/A	SF 2025: Well stocked lowland balsam poplar/ aspen stand. Some small areas not regenerating, coming back to cattail, tag alder, Rubus spp. and bracken fern. Cut around 2019.OPIC - FMD: MORAINE,AREA., VARIETY OF SPECIES , LEAVE FOR BUFFER ALONG CREEK. Narrow ridge with swamp/lowlands on either sides. Cedar along edges. Paper birch is dying out; being replaced by fir/spruce. Trace cherry within. Heavy fir blowdown noted at south end of ridge. Stand transitions into more black spruce/fir on lower grounds. Some of the smaller paper birch (4-6" dbh noted) are healthy - leave as retention.SF 2025: Stand is well stocked lowland aspen sapling stand, with most of stems being balsam poplar or quaking aspen. Black cherry, tamarack, fir, red maple, and white spruce saplings within stand as well. Some small areas not regenerating, often where rutting had occurred. These coming back to cattail, rubus spp., and tag alder. Retention kept along sawmill creek from last harvest.

Canopy Species	% Cover	Size Class	DBH	Age
Red Maple	2	Log	1	6
Black Cherry	5	Log	1	6
Quaking Aspen	30	Log	1	6
Balsam Poplar	57	Log	1	6
Northern White Cedar	2	Seedling	7	
Tamarack	1	Log	1	
White Spruce	1	Log	1	6
Balsam Fir	2	Log	1	6

Sub-Canopy Species	Density	Avg. Height	Size
Tag Alder	Medium	5 - 10 feet	5 - 10 feet

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
23	6120 - Lowland Cedar	Poletimber Well	6.9	116	51-80	N/A	SF 2025: Highly variable stand. Pockets of cedar pole timber, tag alder thickets, and birch within. contains a small (3ft wide) tributary to Mud Creek. Tributary is dammed south of the stand. Likely kept as a BMP buffer from portion of the same stand to the east which was harvested around 2020. OPIC - FMD: WELL-STOCKED 3-STICK B,SPRUCE. LEAVE FOR BUFFER ALONG CREEK

Canopy Species	% Cover	Size Class	DBH	Age
Paper Birch	10	Seedling	6	
Northern White Cedar	60		9	116
Balsam Fir	5	Sapling	6	
Balsam Poplar	3	Seedling	6	
Black Spruce	22		12	116

Sub-Canopy Species	Density	Avg. Height	Size
Black Cherry	Low	10 - 20 feet	10 - 20 feet
Black Spruce	Low	5 - 10 feet	5 - 10 feet
Tag Alder	High	5 - 10 feet	5 - 10 feet
Balsam Fir	High	10 - 20 feet	10 - 20 feet
White Spruce	Low	5 - 10 feet	5 - 10 feet
Red Maple	Low	10 - 20 feet	10 - 20 feet

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
24	623 - Emergent Wetland	None	19.1			No	OPIC - FMD: MARSH AND BEAVER DROWNED TIMBERSf 2025: Flooded area from very large old beaver dam blocking a small (3ft bankfull width) intermittent tributary to Mud Creek. Part of stand is open water, but it is mostly tag alder. Standing dead timber snags within.

Sub-Canopy Species	Density	Avg. Height	Size
Balsam Poplar	Low	10 - 20 feet	10 - 20 feet
Tamarack	Low	10 - 20 feet	10 - 20 feet
Alder	High	5 - 10 feet	5 - 10 feet
Northern White Cedar	Low	>20 feet	>20 feet
Red Maple	Low	10 - 20 feet	10 - 20 feet
Black Spruce	Low	10 - 20 feet	10 - 20 feet
Paper Birch	Low	10 - 20 feet	10 - 20 feet
Balsam Fir	Low	10 - 20 feet	10 - 20 feet

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
25	622 - Lowland Shrub	None	25.8			No	"Mud Creek" sale #036-88 (unit 3,5) - cut Feb, 1991 and Feb, 1992. Scattered conifers.SF 2025: Failed portion of surrounding aspen stand which came back to tag alder and scattered conifers. Roughly 10 BA of fir poles. Very wet stand. Lowland forbs and grasses also make up the ground cover.

Sub-Canopy Species	Density	Avg. Height	Size
Balsam Fir	Low	>20 feet	>20 feet
Quaking Aspen	Low	10 - 20 feet	10 - 20 feet
Balsam Fir	Low	Variable	Variable
Black Spruce	Low	10 - 20 feet	10 - 20 feet
Paper Birch	Trace	5 - 10 feet	5 - 10 feet
Balsam Poplar	Trace	10 - 20 feet	10 - 20 feet
Northern White Cedar	Low	>20 feet	>20 feet
Red Maple	Trace	10 - 20 feet	10 - 20 feet

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
26	6120 - Lowland Cedar	Poletimber Well	38.6	97	111-140	N/A	OPIC - FMD: WELL STOCKED C MIXED WITH POORLY STOCKED Q+P AREAS.MOSTLY SMALL WOOD. 2015: Drainage flows through stand with high cedar component; other areas of stand more mixed.SF 2025: Stand highly variable in composition and basal area. Areas of high stocking cedar are mixed with areas of cedar mixed with maple, birch, and aspen. All very wet. Spruce budworm kill noted in fir and spruce. Pockets heavier to dead ash as well.

Canopy Species	% Cover	Size Class	DBH	Age
Black Ash	6	Seedling	8	
Red Maple	2	Seedling	8	
Quaking Aspen	5		8	
Balsam Poplar	5		9	
Northern White Cedar	55		11	97
Black Cherry	1	Seedling	6	
Black Spruce	10	Sapling	7	
American Elm	1	Seedling	9	
Paper Birch	5		8	
Yellow Birch	5		13	
Balsam Fir	5	Seedling	7	35

Sub-Canopy Species	Density	Avg. Height	Size
Black Spruce	Low	Variable	Variable
Tag Alder	Medium	5 - 10 feet	5 - 10 feet
Black Cherry	Trace	10 - 20 feet	10 - 20 feet
Black Ash	Medium	10 - 20 feet	10 - 20 feet
Balsam Fir	Medium	Variable	Variable

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
27	6120 - Lowland Cedar	Poletimber Medium	2.3	97	81-110	N/A	Lowland retention patch within aspen harvest.SF 2025: Confirmed last inventory notes.

Canopy Species	% Cover	Size Class	DBH	Age
Balsam Fir	2	Seedling	6	
Northern White Cedar	80		9	97
Balsam Poplar	5		8	
White Spruce	5		12	
Quaking Aspen	8		10	

Sub-Canopy Species	Density	Avg. Height	Size
Balsam Fir	Medium	Variable	Variable
Black Spruce	Low	Variable	Variable

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
28	4199 - Other Mixed Upland Deciduous	Sapling Medium	10.6	5	Immature	N/A	SF 2025: Patches of balsam poplar and aspen species with spruce, fir, stump sprout red maple, and black cherry regenerating in patches. Barely passed regeneration check. Rubus spp., tag alder, grasses, and forbs are impeding regeneration in areas. Cut around 2020.FORMER OPEN AREA SEEDING IN TO FIR,SOME HARDWOODS. 2015: Very mixed stand. Some areas of stand can be very wet - swales - with ridge of smaller maple poles to the east. Lots of smaller fir regeneration (from budworm kill in the 80's) under older fir, which is blowing down/dying, and some scattered maple, cherry, basswood within as well.

Canopy Species	% Cover	Size Class	DBH	Age
Balsam Fir	10	Log	2	5
Quaking Aspen	36	Log	2	5
Balsam Poplar	48	Log	2	5
White Spruce	1	Log	3	5
Black Cherry	5	Log	2	5

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
29	4130 - Aspen	Poletimber Well	60.8	32	111-140	N/A	"Mud Creek" sale #036-88 (unit 1, 2) cut Feb 1990 and Jan-March, 1991. East half of stand has lower stocked areas with heavier conifer component; semi-open.SF 2025: Good quality aspen stand. Wet pockets and swales within where aspen did not regenerate heavier to black ash. Some areas very heavy to fir/ spruce. These areas have experienced a fair amount of spruce budworm kill.

Canopy Species	% Cover	Size Class	DBH	Age
Red Maple	1	Seedling	8	
Black Cherry	1	Pole	4	
Balsam Poplar	7	Seedling	6	32
Paper Birch	2	Log	4	
White Spruce	2	Pole	4	
American Elm	1	Sapling	7	32
Quaking Aspen	77	Seedling	9	32
Black Ash	1	Seedling	7	32
Balsam Fir	8	Seedling	8	32

Sub-Canopy Species	Density	Avg. Height	Size
Hazelnut (Spp.)	Medium	5 - 10 feet	5 - 10 feet
Black Ash	Low	5 - 10 feet	5 - 10 feet
Black Cherry	Low	5 - 10 feet	5 - 10 feet
Balsam Fir	Medium	Variable	Variable
White Spruce	Low	Variable	Variable

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
30	4130 - Aspen	Poletimber Medium	32.2	34	51-80	N/A	"Mud Creek" sale #036-88 (unit 1,2) cut winter,1990. Some residual fir and aspen within. Heavy soils; lots of rutting in old roadbed, due to ORV's and trucks. Lots of ponding water in those areas.SF 2025: Good aspen pole stand, with high quality to the aspen poles. Pockets exist in wet areas where the aspen did not regenerate well, resulting in less than 100% canopy closure. High amount of kill from spruce budworm in stand.

Canopy Species	% Cover	Size Class	DBH	Age
Balsam Fir	8	Seedling	8	34
Yellow Birch	1	Sapling	7	34
Black Cherry	1	Seedling	7	34
White Spruce	1	Seedling	7	34
Balsam Poplar	2	Sapling	7	34
Quaking Aspen	78	Seedling	8	34
Black Ash	1	Seedling	6	
Sugar Maple	5	Seedling	9	34
Red Maple	3	Seedling	7	34

Sub-Canopy Species	Density	Avg. Height	Size
American Elm	Low	10 - 20 feet	10 - 20 feet
Hazelnut (Spp.)	Low	5 - 10 feet	5 - 10 feet
Balsam Fir	High	Variable	Variable
Black Cherry	Low	10 - 20 feet	10 - 20 feet
Sugar Maple	Low	10 - 20 feet	10 - 20 feet
Red Maple	Low	10 - 20 feet	10 - 20 feet
Aspen (spp.)	Low	10 - 20 feet	10 - 20 feet

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
33	330 - Low-Density Trees	None	26.0			No	SF 2025: Stand expanded to include portions of stands 31 and 32 which were poorly regenerating. Mostly grass, forbs, and Rubus spp. with some tag alder, aspen, balsam poplar, spruce, and fir.Stand is being maintained as a natural opening. Stand was last treated in 1982 with Tordon. If stand 31, 32 and 28 are treated, may wish to remove some of the fir/spruce adjoining those areas as well.

Sub-Canopy Species	Density	Avg. Height	Size
Quaking Aspen	Low	>20 feet	>20 feet
Mixed Grasses	High	Not Applicable	Not Applicable
Balsam Poplar	Medium	10 - 20 feet	10 - 20 feet
Black Cherry	Low	Variable	Variable
White Spruce	Low	Variable	Variable
Bracken Fern	High	Not Applicable	Not Applicable
Balsam Fir	Low	Variable	Variable
Blackberry/Raspberry	High	5 - 10 feet	5 - 10 feet
Sugar Maple	Trace	>20 feet	>20 feet

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
35	4130 - Aspen	Sapling Well	37.6	13	Immature	N/A	Stand harvested as "Swampbuck Aspen" #006-07 - cut November-December, 2011. Trace residual spruce, cedar, maple. Retention along the south compartment border.SF 2025: Narrow band of cedar poles crosses the road in middle of stand. Young aspen stand regenerating well. Pockets of tag alder in the lowest areas of the stand. Residual spruce, fir, and maple within stand.

Canopy Species	% Cover	Size Class	DBH	Age
Quaking Aspen	70	Log	2	13
Northern White Cedar	1	Seedling	8	
Red Maple	3	Sapling	6	
Black Ash	1	Log	3	
Balsam Poplar	19	Log	2	13
American Elm	1	Seedling	8	
Balsam Fir	5	Log	2	

Sub-Canopy Species	Density	Avg. Height	Size
Tag Alder	Medium	5 - 10 feet	5 - 10 feet
Red Maple	Low	< 5 feet	< 5 feet
Wild Red Raspberry	Medium	< 5 feet	< 5 feet
Black Cherry	Medium	5 - 10 feet	5 - 10 feet

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
36	6220 - Alder/Willow	None	5.0			No	Contains Mud Creek

Sub-Canopy Species	Density	Avg. Height	Size
Willow spp.	High	5 - 10 feet	5 - 10 feet
Black Spruce	Medium	>20 feet	>20 feet
Tag Alder	Full	5 - 10 feet	5 - 10 feet
Black Ash	Medium	>20 feet	>20 feet

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
37	413 - Aspen	Unspecifed	5.8	5	Immature		Cut around 2020.Stand was last treated with Tordon in 1982; now being maintained as a natural opening and treated commercially as adjacent stands are prescribed. Trillium, strawberry also noted.SF 2025: Parts of opening are regenerating to aspen and balm. Over 50% of stand area regenerating to aspen with full stocking. Rubus and forbs in between larger patches of regenerating aspen. In the future should be managed as forested stand.

Sub-Canopy Species	Density	Avg. Height	Size
Basswood	Low	>20 feet	>20 feet
Quaking Aspen	Medium	10 - 20 feet	10 - 20 feet
White Spruce	Low	Variable	Variable
Balsam Poplar	Medium	10 - 20 feet	10 - 20 feet
Ironwood	Low	5 - 10 feet	5 - 10 feet
Balsam Fir	Low	Variable	Variable
Black Cherry	Low	5 - 10 feet	5 - 10 feet

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
38	4110 - Sugar Maple Association	Sawtimber Medium	14.7	100	51-80	N/A	Permit #006-97-01 "Mud Creek Sale" (unit 1). Cut Feb, 1998. Trace amount of black cherry, yellow birch present. Some areas of stand more to poles. High quality site - ground cover of trillium, blue cohosh.SF 2025: Cut in 2023 under "Land Down Under Sale" 32-002-21 (1) by Elisha Brown. Ok sawtimber quality log stand. Deer browse noted on maple seedlings. Ironwood and Rubus spp. impacting regeneration in the gaps.

Canopy Species	% Cover	Size Class	DBH	Age
Paper Birch	1		10	
Sugar Maple	90		10	100
Yellow Birch	1	Seedling	5	
Basswood	8		14	

Sub-Canopy Species	Density	Avg. Height	Size
Ironwood	High	>20 feet	>20 feet
Balsam Fir	Trace	Variable	Variable
Sugar Maple	Low	10 - 20 feet	10 - 20 feet
Black Cherry	Low	10 - 20 feet	10 - 20 feet
Sugar Maple	Medium	< 5 feet	< 5 feet
Leatherwood	Medium	< 5 feet	< 5 feet

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
39	6123 - Lowland Fir	Sapling Medium	10.1	33	1-50	N/A	"Mud Creek" sale #036-88 (unit 3,5) - cut Feb, 1991 and Feb, 1992. Some sparse and wet areas, but overall well-stocked.SF 2025: Stand of fir and spruce with white birch and aspen within. Heavy beaver damage in the stand along Sawmill Creek greatly reduced the number of aspen stems, estimated to have occurred about 15 years ago. Trees are behind the larger aspen stand to the east both in size, density, and quality.

Canopy Species	% Cover	Size Class	DBH	Age
Balsam Poplar	3	Log	3	33
Red Maple	2	Log	3	
Tamarack	5	Sapling	5	
Balsam Fir	50	Pole	4	33
Paper Birch	15	Pole	4	33
Black Spruce	15	Log	3	
Quaking Aspen	10	Sapling	5	33

Sub-Canopy Species	Density	Avg. Height	Size
Black Spruce	Medium	5 - 10 feet	5 - 10 feet
White Spruce	Medium	5 - 10 feet	5 - 10 feet
Alder	Medium	5 - 10 feet	5 - 10 feet

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
40	4139 - Aspen, Mixed Deciduous	Poletimber Well	10.3	26	111-140	N/A	"Mud Creek Sale" #006-97-01 (unit 2), cut fall, 1998. In 2005 aspen was 1-2 " dbh, 10-20 ft tall. Some sparse areas. Trace elm, cedar.SF 2025: Well stocked aspen stand. Good quality aspen. Upland.

Canopy Species	% Cover	Size Class	DBH	Age
Basswood	4	Seedling	6	
Quaking Aspen	50	Seedling	8	26
Black Cherry	2	Log	4	
Northern White Cedar	2	Seedling	8	
Red Maple	5	Sapling	6	26
Balsam Poplar	34	Seedling	6	26
Balsam Fir	2	Sapling	5	
Yellow Birch	1	Sapling	6	26

Sub-Canopy Species	Density	Avg. Height	Size
Maple (spp.)	Low	10 - 20 feet	10 - 20 feet
Balsam Fir	Low	Variable	Variable
White Spruce	Trace	10 - 20 feet	10 - 20 feet

Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
41	629 - Mixed non-forested Wetland	None	1.6			No	OPIC - FMD: BRUSH AND MARSH