



Compartment Review Presentation

Gwinn Forest Management Unit

Compartment 32044

Entry Year: 2026

Acreage: 1,937

County: Marquette

Management Area: Suomi Till and Outwash Plain

Stand Examiner: Matt Yeo

Legal Description:

T44N R25W Section(s) 20, 21, 22

Identified Planning Goals:

To maintain the health and sustainability of the forest while providing for recreational, wildlife and fisheries concerns.

Soil and topography:

Most of this compartment is gently rolling uplands of Rubicon, Croswell and Rousseau-Ocqueoc sands and level swamps of Carbondale and Tawas mucks.

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

Mostly State owned, with isolated hunting camps in and around compartment.

Unique Natural Features:

No Unique Natural Features known.

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:

Some potential for pearlwort or Cooper's mild-vetch along rocky portions of Escanaba River. Some potential for submergent and emergent marsh species creek and along river: auricled tway-blade, autumnal water starwort, alternate-leaved water-milfoil, Farwell's water-milfoil, linear-leaved gentian, and veiny meadow-rue.

Watershed and Fisheries Considerations:

This compartment contains Bobs Creek and the Main Branch Escanaba River. Bobs Creek is a designated Type 1 trout stream less than 50-ft wide and has a predicted mean July temperature of 64.2 °F (cold stream). A 300-foot buffer is recommended for Bobs 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, buffer is recommended to protect these areas in accordance with Best Management Practices.

The Main Branch Escanaba River is a designated Type 1 trout stream greater than 50-ft wide and has a predicted mean July temperature of 69.6 °F (cool stream). A minimum 100-foot, plus 5 feet per 1% increase in slope, buffer is recommended for the Main Branch Escanaba River to protect riparian areas in accordance with Best Management Practices.

Wildlife Habitat Considerations:

This compartment is found within the Soumi Till and Outwash Management Area, on a Disintegration Moraine in Southwestern Marquette County. The dominant Natural Communities are dry mesic northern forests, poor conifer swamps, and mesic northern forests. This management area offers opportunities to increase diversity and perhaps long-term oak sustainability through under planting white and red pine. Another priority is to maintain or increase wildlife corridors especially along riparian corridors. Wildlife management issues in the management area are mast (hard and soft); habitat fragmentation; mature forest conditions; mesic conifer; coarse woody debris; and retention or development of large living and dead standing trees (for cavities). This management area represents approximately ¼ of the oak resource on WUP state forest.

The following have been identified as featured species for the Soumi Till and Outwash Management Area: Blackburnian Warbler, Golden-winged Warbler, Kirtland's Warbler, Red Crossbill, Black-backed Woodpecker, Ruffed Grouse, American Marten, White-tailed Deer, Black Bear.

Mineral Resource and Development Concerns and/or Restrictions

Sections 20 - 22, T44N-R25W, Marquette County

Surface sediments consist of peat and muck. There is insufficient data to determine the glacial drift thickness. The Cambrian Trempealeau Formation subcrops below the glacial drift. The Trempealeau could be used for stone. Gravel pits are located four miles to the northwest, and potential is limited. Abandoned iron mines are located three miles to the northeast. This area has not been previously leased. There is no economic oil and gas production in the UP.

Vehicle Access:

Good access overall, although some routine maintenance/better improvement would be desirable on Bob's Creek Truck Trail.

Survey Needs:

Private 40 in Section 21 SWNW.

Recreational Facilities and Opportunities:

No established recreational facilities, although hunting and fishing are popular in this compartment. Several dispersed campsites can be found along the Escanaba River, which receives a lot of use by canoes.

Fire Protection:

Some drier soil types here and nearby camps, river campsites indicate a higher fire frequency. Old fire plow lines are visible in areas.

Additional Compartment Information:

Some old logging grades in the area.

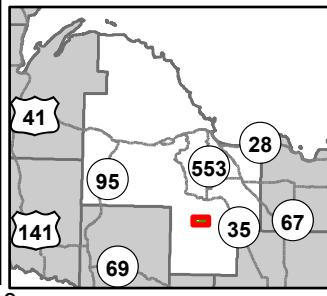
The following reports from the Inventory are attached:

- 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:

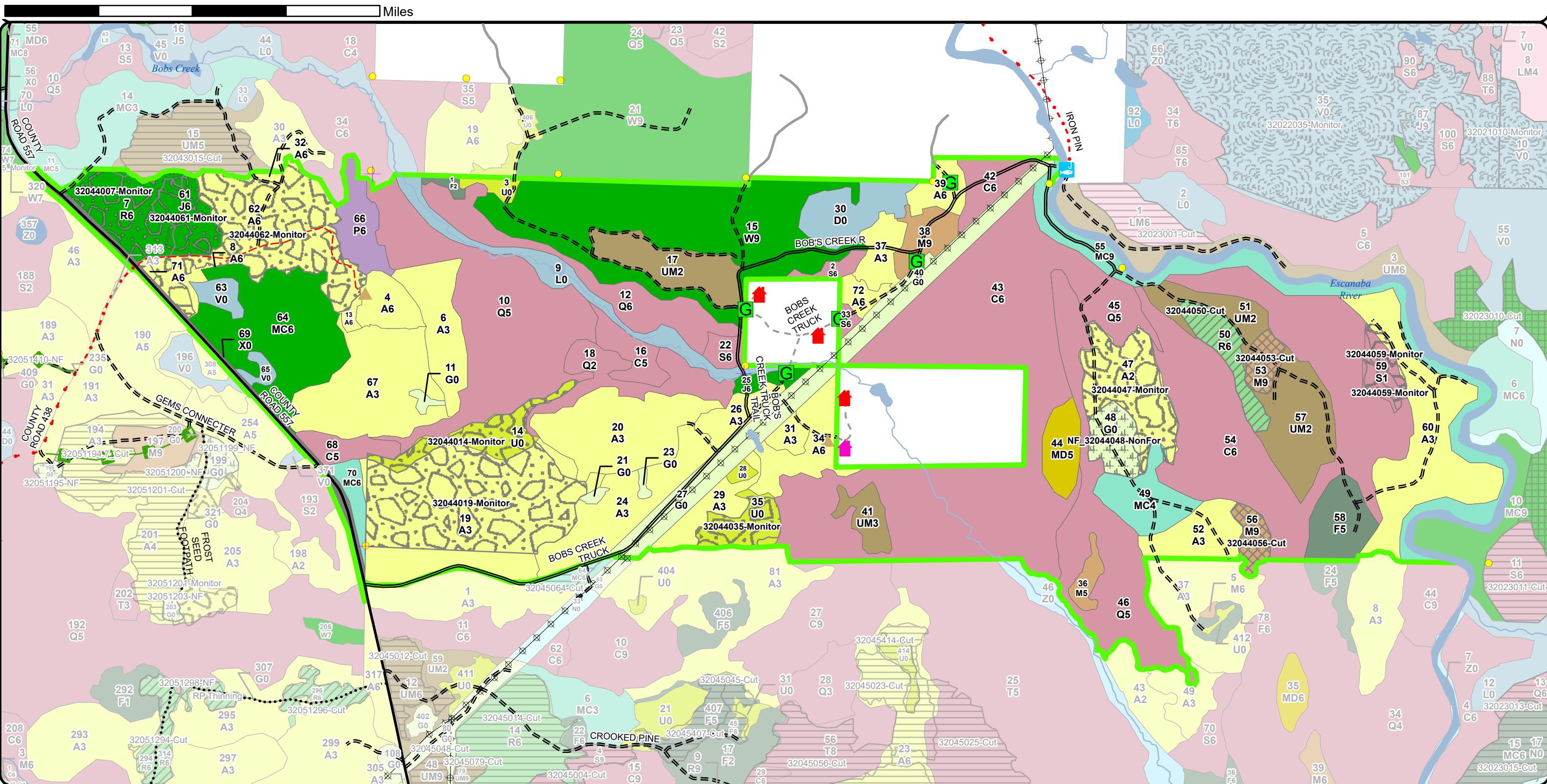
- Base feature information, stand boundaries, cover types, and numbers**
- Proposed treatments**
- Site condition boundaries**
- Details on the road access system**

Cover Type & Treatments Map

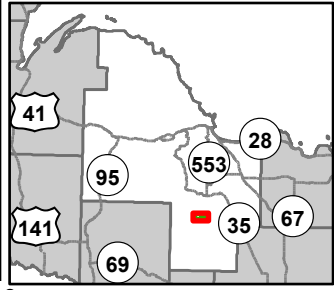


Compartment: 32044
 T44N, R25W, Sec: 16, 19-23,
 27, 28
 County: Marquette
 Unit: Gwinn
 Mgmt Area: Suomi Till and
 Outwash Plain
 YOE: 2026
 Acres: 1936.9 GIS Calculated
 Examiner: Matt Yeo
 Map Revised: 10/10/2024
 Map Phase: Post Review 1

- | | | | | |
|------------------------------|---------------------------------------|--------------------------------|-----------------------------------|---------------------------------|
| Cabin | Designated Hunter Walking Trails | DNR - Management Access | Thinning (Crown, Low, Systematic) | 429 - Mixed Upland Conifers |
| Structure, Seasonal Dwelling | DNR - Secondary Forest Road | Lake/Pond | Regeneration Survey | 430 - Upland Mixed Forest |
| Berms | DNR - Forest Access Route | Perennial River | 411 - Northern Hardwood | 611 - Lowland Deciduous Forest |
| Gate | Federal / State / County - Paved Road | Powerline | 413 - Aspen Types | 612 - Lowland Coniferous Forest |
| Fishing Access Site | County - Gravel Road | Lakes and Rivers | 419 - Mixed Upland Deciduous | 122 - Roads/Parking Lot |
| Survey Grade Corners | County - Dirt Road (Seasonal) | Compartment Boundary | 421 - Planted Pines | 310 - Herbaceous Openland |
| Remonumented Section Corners | Private - Paved Road | Other Treatment - See Comments | 422 - Natural Pines | 330 - Low Density Trees |
| | Private - Dirt / Gravel Road | Selection (Group, Single Tree) | 423 - Other Upland Conifers | 622 - Lowland Shrub |



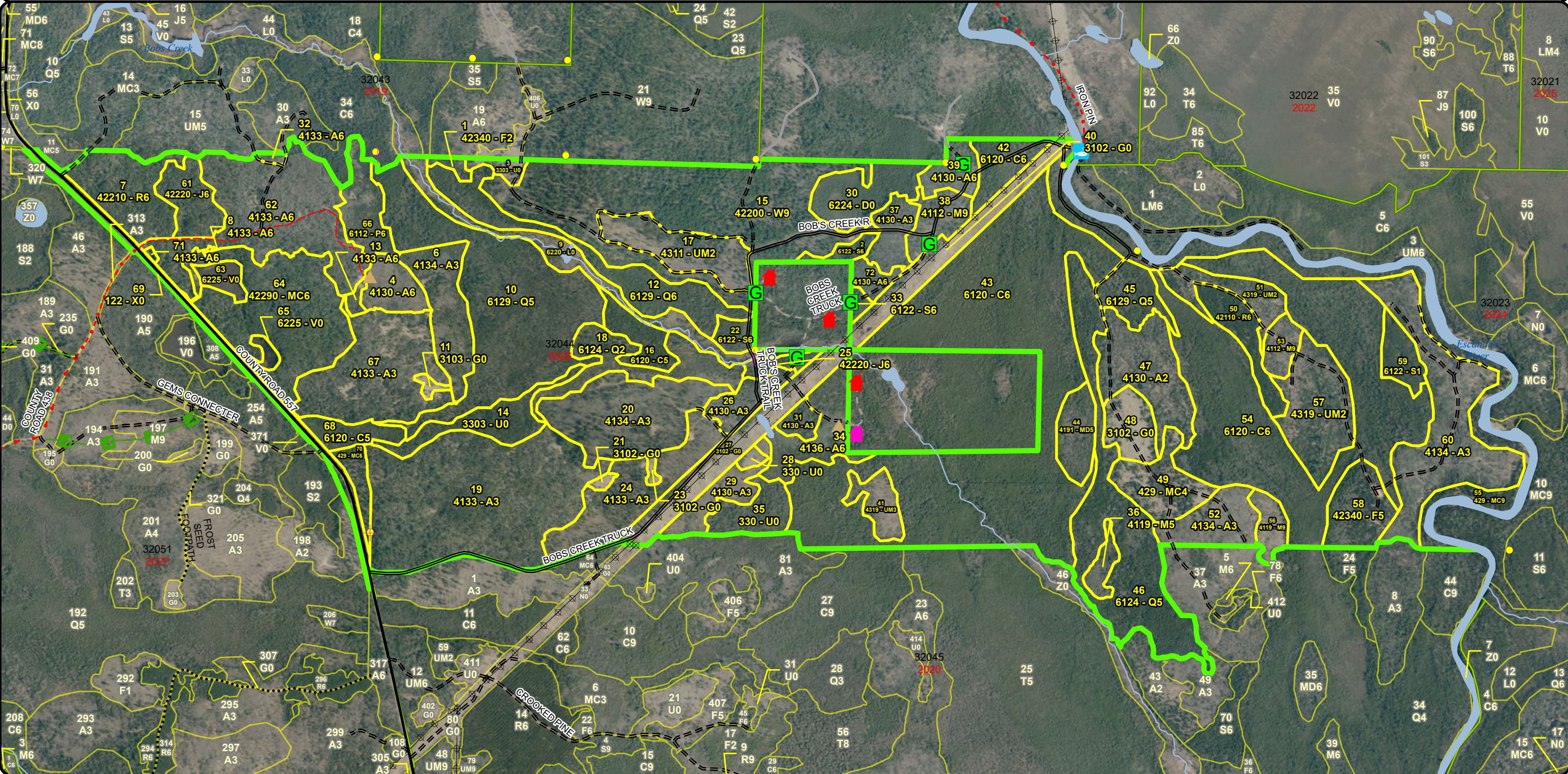
Stand Boundary Map



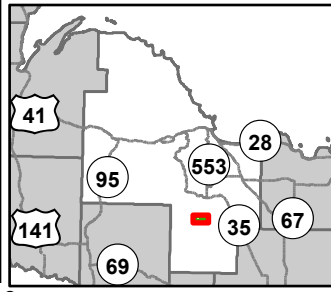
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- Cabin
- Structure, Seasonal Dwelling
- Berms
- Gate
- Fishing Access Site
- Survey Grade Corners
- Remonumented Section Corners
- Designated Hunter Walking Trails
- DNR - Secondary Forest Road
- DNR - Forest Access Route
- Federal / State / County - Paved Road
- County - Gravel Road
- County - Dirt Road (Seasonal)
- Private - Paved Road
- Private - Dirt / Gravel Road
- DNR - Management Access
- Lake/Pond
- Perennial River
- Powerline
- Lakes and Rivers
- Compartment Boundary
- Stand Boundaries

- 411 - Northern Hardwood
- 413 - Aspen Types
- 419 - Mixed Upland Deciduous
- 421 - Planted Pines
- 422 - Natural Pines
- 423 - Other Upland Conifers
- 429 - Mixed Upland Conifers
- 430 - Upland Mixed Forest
- 611 - Lowland Deciduous Forest
- 612 - Lowland Coniferous Forest
- 122 - Roads/Parking Lot
- 310 - Herbaceous Openland
- 330 - Low Density Trees
- 622 - Lowland Shrub



Special Conservation Areas & Site Conditions Map



Compartment: 32044
 T44N, R25W, Sec: 16, 19-23,
 27, 28
 County: Marquette
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- Cabin
- Structure, Seasonal Dwelling
- Berms
- Gate
- Fishing Access Site
- Survey Grade Corners
- Remonumented Section Corners
- Designated Hunter Walking Trails

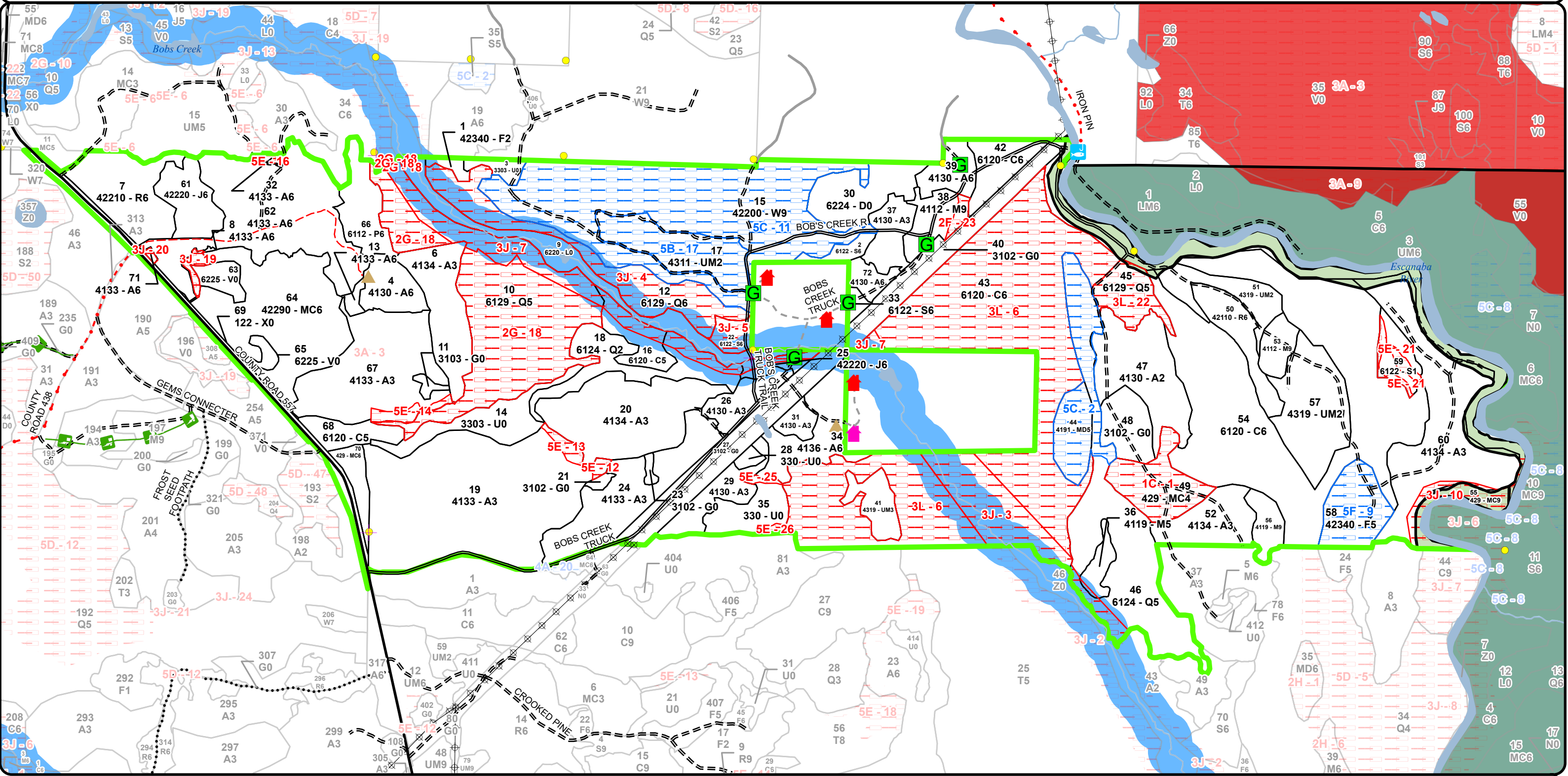
- DNR - Secondary Forest Road
- DNR - Forest Access Route
- Federal / State / County - Paved Road
- County - Gravel Road
- County - Dirt Road (Seasonal)
- Private - Paved Road
- Private - Dirt / Gravel Road
- DNR - Management Access
- Lake/Pond
- Perennial River

- Powerline
- Lakes and Rivers
- Cold Water Streams
- Compartment Boundary
- SCA
- Available w/ Constraints
- Unavailable

- 5B: Maintain for regeneration purposes
- 5C: Delay treatment for age/size class diversity or exceptional site quality
- 1C: Other dept or div proc/practices

- 2F: Too steep
- 2G: Too wet (sensitive soils, does not include access issues)
- 3J: Water quality / BMPs (stream, river, or lake)
- 3L: Other wildlife concerns
- 5E: Long-Term Retention
- Stand Boundaries
- Ecological Reference Areas
- High Priority Trout Stream Buffer
- Vernal Pool
- Recreational/Scenic Value Area

0 0.5 1 Miles



Report 1 – Total Acres by Cover Type and Age Class



Age Class

	Non-Forest	0-9	10-19	20-29	30-39	40-49	50-59	60-69	70-79	80-89	90-99	100-109	110-119	120-129	130-139	140-149	150+	Uneven-Aged	Total
Aspen	0	230	51	73	133	0	0	0	76	0	0	0	0	0	0	0	0	0	562
Bog	9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	9
Cedar	0	0	0	0	0	0	0	0	0	10	0	12	13	151	0	0	222	0	407
Herbaceous Openland	73	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	73
Jack Pine	0	0	0	0	0	5	0	0	16	0	0	0	0	0	0	0	0	0	21
Low-Density Trees	39	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	38
Lowland Aspen/Balsam Poplar	0	0	0	0	17	0	0	0	0	0	0	0	0	0	0	0	0	0	17
Lowland Conifers	0	0	0	26	0	0	0	0	70	0	14	102	0	37	0	0	0	0	249
Lowland Shrub	25	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	25
Lowland Spruce/Fir	0	10	0	0	0	0	0	0	0	0	12	0	0	0	0	0	0	0	22
Mixed Upland Deciduous	0	0	0	0	0	0	0	0	0	0	14	0	0	0	0	0	0	0	14
Natural Mixed Pines	0	0	0	0	0	0	0	0	0	62	0	0	0	0	0	0	0	0	62
Northern Hardwood	0	0	0	0	0	0	0	0	0	0	26	8	0	0	0	0	0	0	34
Red Pine	0	0	0	0	15	0	0	0	29	0	0	0	0	0	0	0	0	0	44
Treed Bog	22	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	22
Upland Conifers	0	0	0	0	7	0	0	0	0	0	0	62	0	0	0	0	0	21	90
Upland Mixed Forest	0	0	10	0	49	0	0	0	0	0	0	0	26	0	0	0	0	0	85
Upland Spruce/Fir	0	0	0	0	22	0	0	0	0	0	0	0	0	0	0	0	0	0	22
Urban	18	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	18
White Pine	0	0	0	0	0	0	0	0	0	0	0	121	0	0	0	0	0	0	121
Total	186	240	61	99	243	5	0	0	191	72	66	305	39	188	0	0	222	21	1935



Report 2 – Treatment Summary

Gwinn Mgt. Unit

Year of Entry: 2026

Acres of Harvest

Compartment 44

Total Compartment Acres: 1,937

Commercial Harvest - 31
 Harvests with Site Condition - 0
 Next Step Harvest - 0
 Habitat Cut - 0

Cover Type by Harvest Method

	Clearcut	Selection	Patch Clearcut	Seed Tree	Shelterwood	Thinning	Overstory Removal	Salvage	Other	Total Acres
Northern Hardwood	0	16	0	0	0	0	0	0	0	16
Red Pine	0	0	0	0	15	0	0	0	0	15
Total	0	16	0	0	15	0	0	0	0	31

Proposed and Next Step Treatments by Method

	Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current	31	0	0	0	0	275	0	13	0	319
Next Step	0	16	0	16	0	32	0	0	0	63
Total	31	16	0	16	0	306	0	13	0	382



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

Proposed Treatments:

50	32044050-Cut	15.1	42110 - Planted Red Pine	Poletimber Well	33	81-110	Harvest	Systematic Thinning	4211 - Planted Red Pine	Even-Aged	No
<p><u>Prescription</u> Thin red pine in a systematic row thinning, take one row and leave two, taking out 1/3 of the basal area. Areas where white pine are present, mark around white pine for operability. Extra trees can be marked for operability if needed. Also retain most black cherry for their soft mast crop and retain some healthy white spruce for seed production and wildlife cover.</p> <p><u>Specs:</u></p> <p><u>Next Step</u></p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> N.A.</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>											
53	32044053-Cut	7.8	4112 - Maple, Beech, Cherry Association	Sawtimber Well	97	111-140	Harvest	Single Tree Selection	411 - Northern Hardwood	Uneven-Aged	No
<p><u>Prescription</u> Mark stand to 70-90 BA. Focus on marking poorer quality trees. This treatment is meant to focus on releasing better quality crop trees for future growth and to encourage diversity. Leave Cedar, Hemlock, White Pine. Favor to keep cherry to maintain species diversity.</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> Any tree species currently in the overstory is acceptable.</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>											
56	32044056-Cut	8.0	4119 - Mixed Northern Hardwoods	Sawtimber Well	103	111-140	Harvest	Single Tree Selection	411 - Northern Hardwood	Uneven-Aged	No
<p><u>Prescription</u> Mark stand to 70-90 BA. Focus marking on poorer quality trees. This treatment is meant to focus on releasing better quality crop trees for future growth and to encourage diversity. Leave Cedar, Hemlock, White Pine. Also favor to keep some large basswood (for cavity nestors, pollinators, and seed production) and some cherry to maintain species diversity.</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> Any tree species currently in the overstory is acceptable.</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>											

Approved Treatments:

7	32044007-Monitor	28.4	42210 - Natural Red Pine	Poletimber Well	71	111-140	Monitoring	Natural Regen (Re-Inventory)	4319 - Mixed Upland Forest	Even-Aged	No
<p><u>Prescription</u> Survey for acceptable regen.</p> <p><u>Specs:</u></p> <p><u>Next Step</u></p> <p><u>Treatments:</u></p> <p><u>Acceptable</u> aspen, jack pine, spruce, fir, red maple, white pine, and red pine.</p> <p><u>Regen:</u></p>											



S t a n d	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
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Other Percent to Treat = 100%
Comment:

Site Condition:

Proposed Start Date: 8 /23/2024

14	32044014-Monitor	19.4	3303 - Mixed Low Density Trees	Nonstocked	0	Immature	Monitoring	Natural Regen (Re-Inventory)	6122 - Black Spruce	Even-Aged	No
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Prescription Monitor
Specs:

Next Step
Treatments:

Acceptable Black spruce, tamarack, aspen, white pine and cedar. A component of maple is acceptable.
Regen:

Other Percent to Treat = 100%
Comment:

Site Condition:

Proposed Start Date: 10/1 /2035

19	32044019-Monitor	86.1	4133 - Aspen, Mixed Pine	Sapling Well	5	Immature	Monitoring	Natural Regen (Re-Inventory)	4319 - Mixed Upland Forest	Even-Aged	No
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Prescription
Specs:

Next Step
Treatments:

Acceptable Mixed upland species
Regen:

Other Percent to Treat = 100%
Comment:

Site Condition:

Proposed Start Date: 8 /23/2024

35	32044035-Monitor	13.1	330 - Low-Density Trees	Nonstocked	0		Monitoring	Natural Regen (Re-Inventory)	6122 - Black Spruce	Even-Aged	No
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Prescription Monitor
Specs:

Next Step
Treatments:

Acceptable Black spruce, tamarack. A component of pine, cedar and aspen is acceptable also.
Regen:

Other Percent to Treat = 100%
Comment:

Site Condition:

Proposed Start Date: 10/1 /2033



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Treatment ID	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
47	32044047-Monitor	34.6	4130 - Aspen	Sapling Medium	7	Immature	Monitoring	Natural Regen (Re-Inventory)	4134 - Aspen, Spruce/Fir	Even-Aged	No
<p><u>Prescription</u> monitor <u>Specs:</u></p> <p><u>Next Step</u> <u>Treatments:</u></p> <p><u>Acceptable</u> aspen, spruce/fir, tamarack, white pine and a component of maple. <u>Regen:</u></p> <p><u>Other</u> Percent to Treat = 100% <u>Comment:</u></p> <p><u>Site Condition:</u></p> <p><u>Proposed Start Date:</u> 10/1 /2024</p>											
59	32044059-Monitor	7.6	6122 - Black Spruce	Sapling Poor	6	Immature	Monitoring	Natural Regen (Re-Inventory)	6122 - Black Spruce	Even-Aged	No
<p><u>Prescription</u> monitor <u>Specs:</u></p> <p><u>Next Step</u> <u>Treatments:</u></p> <p><u>Acceptable</u> Black spruce, birch, aspen, white pine and cedar <u>Regen:</u></p> <p><u>Other</u> Percent to Treat = 100% <u>Comment:</u></p> <p><u>Site Condition:</u></p> <p><u>Proposed Start Date:</u> 10/1 /2024</p>											
61	32044061-Monitor	15.8	42220 - Natural Jack Pine	Poletimber Well	71	111-140	Monitoring	Natural Regen (Re-Inventory)	4222 - Natural Jack Pine	Even-Aged	No
<p><u>Prescription</u> count <u>Specs:</u></p> <p><u>Next Step</u> SitePrep, Scarification; Seeding, Machine Seed; ; Monitoring, Natural Regen (Re-Inventory) <u>Treatments:</u></p> <p><u>Acceptable</u> Jack Pine, aspen, white pine, red pine <u>Regen:</u></p> <p><u>Other</u> Percent to Treat = 100% <u>Comment:</u></p> <p><u>Site Condition:</u></p> <p><u>Proposed Start Date:</u> 8 /23/2024</p>											
62	32044062-Monitor	69.5	4133 - Aspen, Mixed Pine	Poletimber Well	71	111-140	Monitoring	Natural Regen (Re-Inventory)	4199 - Other Mixed Upland Deciduous	Even-Aged	No
<p><u>Prescription</u> <u>Specs:</u></p> <p><u>Next Step</u> <u>Treatments:</u></p> <p><u>Acceptable</u> Aspen, jack pine, red maple, spruce, fir, red pine, white pine, paper birch <u>Regen:</u></p> <p><u>Other</u> Percent to Treat = 100% <u>Comment:</u></p> <p><u>Site Condition:</u></p> <p><u>Proposed Start Date:</u> 8 /23/2024</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
48 NF_32044048-NonFor	13.1	3102 - Grass	Nonstocked		Unspecified	NonForestMgt	Other - Specify	310 - Herbaceous Openland		No
<p><u>Prescription</u> Allow harvesting inclusion of merchantable trees. Possible chainsaw work to maintain opening. Planting of hard/soft mast trees/shrubs to benefit featured species.</p> <p><u>Specs:</u></p> <p><u>Next Step</u></p> <p><u>Treatments:</u></p> <p><u>Acceptable</u></p> <p><u>Regen:</u></p> <p><u>Other</u></p> <p><u>Comment:</u></p> <p><u>Site Condition:</u></p> <p><u>Proposed Start Date:</u> 10/1 /2015</p>										

Total Treatment 318.5
Acreage Proposed:

Report 4 – Site Conditions

Gwinn Mgt. Unit
Matt Yeo: Examiner

Compartment: 44
Year of Entry: 2026



Availability for Management

Total Acres	Acres Available	Acres Avail		Acres Not Available		Dominant Site Conditions										
		With Condition				5B	5C	5F	1C	2F	2G	3A	3J	3L	5E	
563	549	0		14	Aspen		0					0	6			8
9	9	0		0	Bog											
407	181	0		226	Cedar								35	191		
73	73	0		0	Herbaceous Openland				0				0			
21	18	0		3	Jack Pine								3			
39	37	0		1	Low-Density Trees											1
17	17	0		0	Lowland Aspen/Balsam Poplar											
249	71	17		162	Lowland Conifers		17				81		67	14		0
25	25	0		0	Lowland Shrub								0			
22	13	0		9	Lowland Spruce/Fir								6			4
14	0	14		0	Mixed Upland Deciduous		14									
62	62	0		0	Natural Mixed Pines											
34	32	0		2	Northern Hardwood					2			0			
44	44	0		0	Red Pine											
22	22	0		0	Treed Bog											
90	57	0		33	Upland Conifers				21				12			
85	60	25		0	Upland Mixed Forest	25										
22	2	20		0	Upland Spruce/Fir			20								
18	18	0		0	Urban											
121	0	121		0	White Pine		121									
1,937	1,290	196		451	Total Forested Acres	25	151	20	21	2	81	0	128	205		13
	67%	10%		23%	Relative Percent											

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

Site No.	Dominant Site Cond Availability	Dominant Site Condition	Acres	Other Site Condition	Other Site Condition	Other Site Condition	Other Site Condition
1	Unavailable	1C: Other dept or div proc/practices	21	5F: Evaluated for Forest Health Considerations	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

Gwinn Mgt. Unit
Matt Yeo: Examiner

Compartment: 44
Year of Entry: 2026



2	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	30	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
3	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	34	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
4	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	37	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
5	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	6	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
6	Unavailable	3L: Other wildlife concerns	191	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Wet area with lots of standing water areas, potential regeneration issues and wildlife concerns.							
7	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	34	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Heavier cedar patches interspersed would reduce harvestable areas. Good wildlife corridor also.							

Report 4 – Site Conditions

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9	Available	5F: Evaluated for Forest Health Considerations	20	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Younger stand with some older, remnant S/F. No SBW at time of inventory, but, may need to be re-evaluated. Also, possible old homestead site within?							
10	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	15	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
11	Available	5C: Delay treatment for age/size class diversity or exceptional site quality	121	Unspecified	Unspecified	Unspecified	Unspecified
Comments: It would be best to regenerate this stand when the understory is pole sized, probably next YOE. Lots of aspen present in the understory. May be hard to maintain this as a natural pine stand, given the amount of aspen. Stand 17 to the south was burned several times and has lots of white pine regeneration.							
12	Unavailable	5E: Long-Term Retention	1	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
13	Unavailable	5E: Long-Term Retention	3	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
14	Unavailable	5E: Long-Term Retention	3	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
16	Unavailable	5E: Long-Term Retention	1	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

Gwinn Mgt. Unit
Matt Yeo: Examiner

Compartment: 44
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17	Available	5B: Maintain for regeneration purposes	26	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
18	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	81	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
19	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	2	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Uncut portion of parent stand to west and north							
20	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	0	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Untreated portion of parent aspen stand to the east							
21	Unavailable	5E: Long-Term Retention	4	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
22	Unavailable	3L: Other wildlife concerns	14	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Wet area with lots of standing water areas, potential regeneration issues and wildlife concerns.							
23	Unavailable	2F: Too steep	2	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Report 4 – Site Conditions

Gwinn Mgt. Unit
Matt Yeo: Examiner

Compartment: 44
Year of Entry: 2026



25	Unavailable	5E: Long-Term Retention	1	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
26	Unavailable	5E: Long-Term Retention	1	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Mgt. Unit

Compartment: #Type!

Year of Entry:



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

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

SCA Name	SCA Category	Detail Type	Recommendation	Acres
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Comments



Report 6 – EXISTING SPECIAL CONSERVATION AREA DETAILS

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

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

Conservation Area	Type	Description
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	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.
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.



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																									
1	42340 - Upland Spruce/Fir	Sapling Medium	2.4	37	1-50	N/A	Upland ground slopes into lowland portions. Cut 1986.Small up land stand that was cut. Lots of the balsam fir has died. 2024.																																									
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2	6122 - Black Spruce	Poletimber Well	4.3	93	51-80	N/A	Powerline																																									
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3	3303 - Mixed Low Density Trees	Nonstocked	4.0		Immature	No	Scattered spruce, fir, pine and aspen. Opening growing in.																																									
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4	4130 - Aspen	Poletimber Well	12.7	37	81-110	N/A	Stand transitioning from saplings to poles; maple in understory. Fringe of mature aspen, spruce left. (2014)																																									
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6	4134 - Aspen, Spruce/Fir	Sapling Well	25.8	28	51-80	N/A	Mixture of upland and lowland ground; upland with more aspen/fir transitioning into spruce/tamarack. "Camp 49 Spruce sale" #019-96, cut 1995-96. Cut volume was heavier to S/F; left any white pine, red pine, cedar and hemlock present as well as submerchantable spruce and fir. Accounts for patches noted with larger spruce (6-8"), WP and aspen (8-10"). Lab tea ground cover noted. Almost pole sized but not there yet. 2024 Trace amount of white spruce and red pine. Some larger trees on west side of stand bordering a recent cut.																																																															
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7	42210 - Natural Red Pine	Poletimber Well	29.1	71	111-140	N/A	Natural red pine mixed with aspen, red maple, white pine. Dry Mesic site, BA varies some but site would benefit from a harvest . Flushing Frogs GEMS 32-009-22																																																															
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8	4133 - Aspen, Mixed Pine	Poletimber Well	2.6	71	111-140	N/A	Aspen mixed with spruce, fir, maple and pine. Dry site, aspen is mature. SF 2024: Untreated portion of parent aspen stand to the west and north because of bmp buffer of water body to the east.																																																															
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Balsam Fir	Medium	5 - 10 feet	Sapling																																																																			
9	6220 - Alder/willow	Nonstocked	25.4			No	Contains Bob's Creek. Soils are Tawas-Deford muck.																																																															
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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10	6129 - Mixed Coniferous Lowland Forest	Poletimber Medium	101.9	100	1-50	N/A	Basal area is quite variable with cedar pockets being higher. Variable stocking throughout due to soil saturation, blowdown and age. Very wet stand. Lots of tag alder. Younger paper birch and red maple have grown into the canopy. Trace amount of white pine and balsam poplar. Cedar pockets are only a few acres is size and all fall under 5 acres. Cedar is also dispersed throughout stand. 2024				
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size	
Black Spruce		45	Pole/Sapling	7	100	Northern White Cedar		Low	Variable	Sapling	
Northern White Cedar		20	Pole	8		Paper Birch		Low	Variable	Sapling	
Paper Birch		5	Pole/Sapling	7		Black Spruce		Low	Variable	Sapling	
Red Maple		5	Sapling/Pole	4		Tag Alder		Full	5 - 10 feet	Tall Shrub	
Tamarack		25	Pole/Log/Sap	9		Red Maple		Low	Variable	Sapling	

11	3103 - Rubus-Fern	Nonstocked	1.7			No	
Sub-Canopy Species		Density	Avg. Height	Size			
Red Maple		Low	>20 feet	Log			
Red Pine		Trace	Variable	Sapling			
Balsam Fir		Low	Variable	Sapling			
Jack Pine		Trace	Variable	Sapling			
White Pine		Low	Variable	Sapling			

12	6129 - Mixed Coniferous Lowland Forest	Poletimber Well	36.9	120	141-170	N/A	Scattered concentrations of black spruce, but mainly cedar type. Trace amount of paper birch. Aspen primarily along upland edges. Ground cover of sphagnum, labrador tea. 2014. Some upland areas around the edges are breaking apart and have lower basal area. 2024.				
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size	
Quaking Aspen		5	Log/Pole	10		Tag Alder		Low	5 - 10 feet	Tall Shrub	
Balsam Fir		5	Pole/Sap/Log	6		Black Spruce		Low	Variable	Sapling	
White Spruce		2	Log/Pole	10		Balsam Fir		Medium	Variable	Sapling	
Black Spruce		33	Pole	8		Red Maple		Low	10 - 20 feet	Sapling	
White Pine		5	XLog/Log	18		Northern White Cedar		Trace	< 5 feet	Sapling	
Tamarack		10	Log/Pole	10							
Northern White Cedar		40	Log/Pole	10	120						

13	4133 - Aspen, Mixed Pine	Poletimber Well	2.0	71	111-140	N/A	Aspen mixed with spruce, fir, maple and pine. Dry site, aspen is mature.				
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size	
Red Pine		8	Pole	8		Red Maple		High	5 - 10 feet	Sapling	
Balsam Fir		6	Pole	7		White Pine		Medium	5 - 10 feet	Sapling	
Quaking Aspen		45	Pole	8	71	Balsam Fir		Medium	5 - 10 feet	Sapling	
Jack Pine		4	Pole	8							
Red Maple		13	Pole	8							
White Spruce		6	Pole	8							
Bigtooth Aspen		8	Pole	8							
White Pine		10	Pole	8	71						



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments									
14	3303 - Mixed Low Density Trees	Nonstocked	18.3	0	Immature	6122 - Black Spruce	Some blowdown timber within; treat accessible areas with surrounding stands when prescribed. Avoid any low areas or cedar pockets. Larger balsam fir mainly dead; some mistletoe noted. 2014 cut Not much coming back, but site needs more time. A few super canopy pine present. Cut under Bob's West SBW 32-016 in 2028. 2024									
								Sub-Canopy Species	Density	Avg. Height	Size					
								Cattail spp.	Medium	Unspecified	Non-Wood					
								White Pine	Trace	< 5 feet	Sapling					
								Red Maple	Low	5 - 10 feet	Sapling					
								Tag Alder	Medium	5 - 10 feet	Tall Shrub					
								Balsam Fir	Low	Variable	Sapling					
Northern White Cedar	Low	10 - 20 feet	Sapling													
15	42200 - Natural White Pine	Sawtimber Well	120.6	101	81-110	N/A	"Bob's Creek Sale" #018-96 - cut fall, 1999 - Jan, 2000. Mixed regeneration obtained - a lot of 5-10' white and red pine regen along road/burn lines where mineral soil was exposed and 3-5' white pine elsewhere. East part of stand has heavier aspen regen component; more W7/A3 and some white pine regeneration. Heavier spruce/fir edges along south side, dropping into lower type, and more hemlock to the north. Good mix of species. 2014 Trace amount of paper birch (pulp/log). 2024									
								Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
								Hemlock	5	Pole/Log	8		Balsam Fir	High	Variable	Sapling
								White Pine	75	Log	16	101	Black Spruce	Low	Variable	Sapling
								Jack Pine	5	Pole	6		White Spruce	Medium	Variable	Sapling
								White Spruce	3	Log/Pole	12		White Pine	Medium	Variable	Sapling
								Balsam Fir	2	Pole/Sapling	6		Paper Birch	Low	>20 feet	Sapling
								Red Pine	10	XLog/Log	20		Balsam Fir	Medium	>20 feet	Pole
													Quaking Aspen	High	>20 feet	Sapling
													Tamarack	Trace	Variable	Sapling
													Red Maple	Low	>20 feet	Sapling
													Jack Pine	Low	>20 feet	Sapling
													Red Pine	Low	Variable	Sapling
								16	6120 - Lowland Cedar	Poletimber Medium	11.9	101	81-110	N/A	Cedar under spruce/tamarack. Quite a bit of blowdown/uprooting especially near adjacent harvest boundary.	
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height									Size
Black Spruce	5	Log/Pole	10		Black Ash	Medium	10 - 20 feet									Sapling
Northern White Cedar	90	Pole/Log	9	101	Tag Alder	Low	5 - 10 feet									Tall Shrub
					Balsam Fir	Medium	< 5 feet	Seeding								



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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17 4311 - Pine, Aspen Mix Sapling Medium 25.5 110 1-50 N/A

Canopy Species	% Cover	Size Class	DBH	Age
Quaking Aspen	20	Sapling	1	11
Bigtooth Aspen	5	Sapling	1	11
Paper Birch	8	Sapling	1	11
Red Maple	20	Sapling	1	11
White Pine	10	Sapling	4	
White Pine	35	XLog/Log	18	110
Jack Pine	2	Pole/Sapling	5	11

Sub-Canopy Species	Density	Avg. Height	Size
White Spruce	Low	< 5 feet	Sapling
Balsam Fir	Low	< 5 feet	Sapling
White Pine	High	< 5 feet	Seeding

Stand Harvested under "Bob's Creek Sale" #018-96 - cut fall, 1999 - Jan., 2000. Post harvest the Stand was treated with prescribed burn 5/22/2006 (C32-633); prescribed to be light burn to reduce maple, spruce competition and prepare seedbed for white and red pine regeneration. Site was also re-burned Sept, 8-9-2011 (32-720) to reduce more competition, prepare seedbed. Whin site was checked after the burn in 2023 the assessment was that the burn appeared to have been too hot and a failure to achieve these objectives - no regeneration present, other than a trace of red maple, aspen clumps, and overstory white pine is only 15-20% live with the remainder dead/dying. Heavy sedge, grasses, raspberry, mullein ground cover about the only thing present. Heavy char on tree boles.

A regeneration walk though in 2024 showed a fully forested stand with a mix of species white pine seedlings where prominent though outnumbered by aspen and maple. Also, of note where the presence of a significant amount of paper birch seedlings likely a result of the burn. While more natural pine would have likely been a desirable result though the burns likely contributed to the current prevalence of white pine seedlings in the stand. Some older, slightly larger aspen present. Trace the amount of cherry and black spruce. Great subcanopy white pine regeneration 2024

18 6124 - Lowland Spruce-Fir Sapling Medium 25.9 24 Immature N/A

Canopy Species	% Cover	Size Class	DBH	Age
White Pine	5	Sapling/Pole	4	
Red Maple	5	Sapling	2	
Black Spruce	35	Sapling/Pole	3	24
Paper Birch	5	Sapling	3	24
Tamarack	15	Sapling	3	24
Balsam Fir	18	Sapling/Pole	4	24
Quaking Aspen	15	Sapling/Pole	4	24
White Pine	2	XLog	18	

Sub-Canopy Species	Density	Avg. Height	Size
Black Spruce	Medium	< 5 feet	Seeding
Tamarack	Low	< 5 feet	Sapling
White Pine	Low	< 5 feet	Sapling
Tag Alder	Medium	5 - 10 feet	Tall Shrub

"Flowing Spring Sale" #020-96 (Unit 3) - cut summer/fall, 1999. Some residual white pine, fir. Thicker S/F/T regeneration closer to north retention buffer strip. Wetter and fairly rutted near cedar type edge - more tamarack, grasses, cattails noted. Average seedling heights = 5 - 20'. This stand, for the most part, is a transition between upland and lowland. Trace amount of cherry and cedar. 2024

19 4133 - Aspen, Mixed Pine Sapling Well 113.9 5 Immature N/A

Canopy Species	% Cover	Size Class	DBH	Age
Quaking Aspen	56	Sapling/Pole	1	5
White Pine	20	Log/XLog/Pole	12	85
Red Maple	20	Sapling/Pole/Log	4	
White Spruce	2	Pole	6	
Balsam Fir	2	Pole	6	

Sub-Canopy Species	Density	Avg. Height	Size
White Pine	Trace	< 5 feet	Sapling
Balsam Fir	Low	Variable	Sapling

Stand origin previously cut-over type. Aspen within is dying/dead - needs treatment if wish to maintain future component in the stand. Assorted regeneration species and stages noted throughout stand, with some areas heavier to S/F and others to white pine/maple. Larger white pine is heavily weeviled, but most of the understory (10-30' hts) is looking very healthy and straight. As previous inventory stated, long term management should be for pine. Cut in 2018 under Bob's West SBW • 32-016-16. Most red maple is small but size does vary across stand. 2024



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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20	4134 - Aspen, Spruce/Fir	Sapling Well	47.3	24	Immature	N/A	"Flowing Spring Sale" (Unit 1,2) #020-96 - cut Su, 1999. Stand gently slopes into lower ground to the north. Contains residual pine, spruce and fir. Aspen is 20 - 30 ' heights. Knapweed noted in old trails. Some bracken, raspberry ground cover. Aspen transitioning from saplings to poles. Good amount of older larger spruce, fir, and pine mixed in. Some small open areas present, one being an old sand pit. Trace amount of cedar and large tamarack.				
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size	
White Pine		2	Pole	6		White Spruce		Medium	Variable	Sapling	
Balsam Poplar		5	Sapling/Pole	4	24	Black Spruce		Trace	Variable	Sapling	
White Spruce		10	Log/Pole	10		Red Pine		Low	Variable	Sapling	
Black Spruce		3	Pole	7		White Pine		Low	Variable	Sapling	
White Pine		8	XLog/Log	22		Red Maple		Medium	Variable	Sapling	
Black Cherry		5	Sapling/Pole	4		Balsam Fir		Medium	Variable	Sapling	
Quaking Aspen		52	Sapling/Pole	4	24						
Red Maple		5	Sapling/Pole	4							
Balsam Fir		10	Log/Pole	10							

21	3102 - Grass	Nonstocked	1.3		Unspecified	Managed Opening	
Sub-Canopy Species		Density	Avg. Height	Size			
White Spruce		Medium		Sapling			
White Pine		Medium		Sapling			
Jack Pine		Medium		Sapling			

22	6122 - Black Spruce	Poletimber Well	5.6	93	81-110	N/A	Well-stocked black spruce - lots of height, but small diameters overall. Bob's Creek influence. Lab tea, sphagnum ground cover. 2014.				
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size	
Northern White Cedar		5	Pole	7		Black Spruce		Low	Variable	Sapling	
Black Spruce		95	Pole/Sapling	6	93	Quaking Aspen		Trace	Variable	Sapling	
						Paper Birch		Low	Variable	Sapling	
						Tamarack		Low	Variable	Sapling	
						Labrador Tea		High	< 5 feet	Tall Shrub	
						White Pine		Low	Variable	Sapling	

23	3102 - Grass	Nonstocked	1.3		Unspecified	Managed Opening	
Sub-Canopy Species		Density	Avg. Height	Size			
White Pine		Medium		Sapling			
Jack Pine		Medium		Sapling			
White Spruce		Medium		Sapling			



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments		
24	4133 - Aspen, Mixed Pine	Sapling Well	37.5	14	Immature	N/A	"Bob's Creek Road sale" (Unit 1,2) #008-06 - cut Feb, 2009 (unit 2) and May/June, 2009 (unit 1). Thick white pine (6-10" dbh) buffer/residual along Bob's Creek Road and powerline wedge. Good scattered white and jack pine regen. Aspen regeneration now ~ 10 - 20' hts. Numerous S/F residual patches - all diameters. Some low density, semi-open red maple, white pine areas within stand which were not treated.Trace amount of black cherry.		
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density		Avg. Height	Size
Jack Pine	2	Pole	7		Balsam Fir	Medium		Variable	Sapling
Quaking Aspen	50	Sapling	3	14	Red Pine	Low		Variable	Sapling
White Pine	21	Pole/Log/Sap	8		White Spruce	Medium		Variable	Sapling
Balsam Fir	10	Pole	6		Jack Pine	Low		Variable	Sapling
White Spruce	5	Sapling/Pole	3		Red Maple	Low		Variable	Sapling
Balsam Poplar	10	Sapling	3	14	White Pine	Medium		Variable	Sapling
Red Pine	2	Pole	8						
25	42220 - Natural Jack Pine	Poletimber Well	5.1	46	111-140	N/A		Upland jack pine cut under permit #26/76 (Sp, 1977). Stand is fairly limby; some dead, forked.Trace amount of paper birch. 2024.	
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height		Size
Black Spruce	10	Pole	5		Tag Alder	Low	5 - 10 feet		Tall Shrub
Red Pine	1	Log	11		Black Cherry	Trace	Variable		Sapling
Jack Pine	63	Pole/Log	9	46	Balsam Fir	High	Variable		Sapling
Black Cherry	1	Pole	6		Paper Birch	Trace	Variable		Sapling
Tamarack	2	Pole	6		Black Spruce	Low	Variable		Sapling
Quaking Aspen	8	Pole	8						
Balsam Fir	15	Pole	7						
26	4130 - Aspen	Sapling Well	11.3	6	Immature	N/A	Most of stand was cut under permit #26-76 in 1977, except for western portion, cut sometime in the early-mid 1960's. Aspen is not all that healthy - numerous snapped off tops, hypoxylon noted. Trace amount of balsam poplar, tamarack. Cut now, to encourage healthier clones, leaving smaller S/F (esp. clumps) and WP,RP. 2014Aspen saplings recently cut. Healthy flush of aspen saplings. Some scattered larger aspen. Cut in 2018/2019 with Bob's East SBW (32-017-16).		
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density		Avg. Height	Size
Quaking Aspen	70	Sapling	1	6	Balsam Fir	Low		< 5 feet	Sapling
Balsam Fir	9	Sapling/Pole	4						
Red Pine	2	Sapling/Pole	4						
White Spruce	2	Sapling/Pole	4						
White Pine	3	Pole/Sapling	5						
Jack Pine	2	Pole/Sapling	6						
Black Cherry	5	Pole	5						
Paper Birch	5	Sapling	1						
Balsam Poplar	2	Sapling	1						
27	3102 - Grass	Nonstocked	30.0			Managed Opening	Powerline and R.O.W.		
Sub-Canopy Species	Density	Avg. Height	Size						
White Spruce	Trace		Seeding						
Balsam Fir	Low		Seeding						
28	330 - Low-Density Trees	Nonstocked	1.9		Immature	No	Opening filling in with small jack pine.		
Sub-Canopy Species	Density	Avg. Height	Size						
Jack Pine	Low	Variable	Sapling						



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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29	4130 - Aspen	Sapling Well	13.4	14	Immature	N/A	"Bob's Creek Road Sale" (unit 3,4) #008-06 - cut March, 2009. Good regeneration - aspen now 5 - 15' hts; some spruce/fir residual and trace amount of aspen poles. Heavier spruce (<3' ht) along lower edges noted. 2014																																																														
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Canopy Species	% Cover	Size Class	DBH	Age																																																																	
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30	6224 - Treed Bog	Nonstocked	22.0		Immature	No	with fringe of some mature black spruce, white pine. 2014															
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White Pine	Low		Sapling																			
Black Spruce	High		Sapling																			
Tamarack	Medium		Sapling																			

31	4130 - Aspen	Sapling Well	4.9	6	Immature	N/A	Cut under permit #26/76 - Sp, 1977. Lots of dead/dying, limby, forked-top jack pine with fir coming up thick in understory. Numerous blowdown and snapped trees of older fir and jack pine also. Trace amount of black spruce. Cut in 2018 with Bob's East SBW (32-017-16).																																		
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32	4133 - Aspen, Mixed Pine	Poletimber Well	1.2	71	111-140	N/A	Aspen mixed with spruce, fir, maple and pine. Dry site, aspen is mature.																																																										
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33	6122 - Black Spruce	Poletimber Well	2.2	93	141-170	N/A	Lowland stand with cedar, spruce mix. Stand diameter still fairly small. Trace amount of birch, aspen. Ground cover of lab tea, sphagnum.																																																																														
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34	4136 - Aspen, Mixed Conifer	Poletimber Well	21.7	34	Immature	N/A	Just transitioning from saplings to poles. "Bob's Creek Fir Sale" #014-86 - cut 1988 - 1990. Trace amount of white spruce. Ground cover of raspberries, bracken noted. Knapweed in old road. 2014																																																																														
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35	330 - Low-Density Trees	Nonstocked	14.6	0		6122 - Black Spruce	Lots of blowdown, esp. along adjacent cutting edge. Drops into more tamarack, tagalder - some of this area should be avoided. Clearcut no reserves, due to small stand size. Lab tea, tagalder ground cover.																																																																														
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36	4119 - Mixed Northern Hardwoods	Poletimber Medium	5.7	91	51-80	N/A	5/13/24: Areas of variable stocking and size classes. Mainly red maple poles, some logs and few saplings. Good amount of scattered paper birch pole/log and some scattered cherry pole/log. Good amount of balsam fir regen. Good amount of dead spruce/fir, spruce budworm evidence. Few balsam fir poles and cedar pole/log. Trace amounts of white spruce and black spruce. Some scattered large diameter red maple, lots of poles nearing log size. Lots of dead fallen over trees. Ground flora is composed of a lot of ground pine. The majority of the overstory trees have poor growth and form. Overall the sight is quite variable, upland with lowland, some areas of standing water and scattered open areas.																																																																														
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37	4130 - Aspen	Sapling Well	11.8	6	Immature	N/A	Small stand of older aspen - harvest with adjacent stand for marketability. Protect roadside regeneration as much as possible. Clearcut no reserve, due to size.																																																																											
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38	4112 - Maple, Beech, Cherry Association	Sawtimber Well	12.4	97	51-80	N/A	"Bob's Creek Hardwood" (unit 1) #024-86 - thinned summer, 1987. Lower quality maple stand - noted black stain, logging damage to boles, forked and clump trees. Trace amounts of paper birch, cedar. BA is not all that high, but could remove some maple, creating gaps, to encourage regeneration. Avoid any treatment in SW end of stand where aspen regeneration is more predominate. TCR12/17/19																																																																											
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39	4130 - Aspen	Poletimber Well	10.5	35	81-110	N/A	"Bob's CreekHardwood" (unit 2) #024-86 - cut spring/summer 1987. North aquired lot did not get cut with south. Trace large sugar maple.																																																																											
<table border="1"> <thead> <tr> <th>Canopy Species</th> <th>% Cover</th> <th>Size Class</th> <th>DBH</th> <th>Age</th> </tr> </thead> <tbody> <tr> <td>Red Maple</td> <td>5</td> <td>Log/Pole</td> <td>10</td> <td></td> </tr> <tr> <td>Paper Birch</td> <td>2</td> <td>Log/Pole</td> <td>11</td> <td></td> </tr> <tr> <td>Balsam Fir</td> <td>5</td> <td>Pole</td> <td>6</td> <td></td> </tr> <tr> <td>Quaking Aspen</td> <td>15</td> <td>Log/XLog</td> <td>15</td> <td>75</td> </tr> <tr> <td>Quaking Aspen</td> <td>66</td> <td>Pole</td> <td>8</td> <td>35</td> </tr> <tr> <td>White Spruce</td> <td>2</td> <td>Log</td> <td>13</td> <td></td> </tr> <tr> <td>White Pine</td> <td>5</td> <td>XLog/Log</td> <td>18</td> <td></td> </tr> </tbody> </table>		Canopy Species	% Cover	Size Class	DBH	Age	Red Maple	5	Log/Pole	10		Paper Birch	2	Log/Pole	11		Balsam Fir	5	Pole	6		Quaking Aspen	15	Log/XLog	15	75	Quaking Aspen	66	Pole	8	35	White Spruce	2	Log	13		White Pine	5	XLog/Log	18		<table border="1"> <thead> <tr> <th>Sub-Canopy Species</th> <th>Density</th> <th>Avg. Height</th> <th>Size</th> </tr> </thead> <tbody> <tr> <td>Sugar Maple</td> <td>Trace</td> <td>Variable</td> <td>Sapling</td> </tr> <tr> <td>Red Maple</td> <td>Medium</td> <td>Variable</td> <td>Sapling</td> </tr> <tr> <td>Black Cherry</td> <td>Trace</td> <td>Variable</td> <td>Sapling</td> </tr> <tr> <td>Red Pine</td> <td>Trace</td> <td>Variable</td> <td>Sapling</td> </tr> <tr> <td>White Pine</td> <td>Trace</td> <td>Variable</td> <td>Sapling</td> </tr> <tr> <td>Hazelnut (Beaked)</td> <td>Medium</td> <td>< 5 feet</td> <td>Tall Shrub</td> </tr> <tr> <td>Balsam Fir</td> <td>Medium</td> <td>Variable</td> <td>Sapling</td> </tr> </tbody> </table>		Sub-Canopy Species	Density	Avg. Height	Size	Sugar Maple	Trace	Variable	Sapling	Red Maple	Medium	Variable	Sapling	Black Cherry	Trace	Variable	Sapling	Red Pine	Trace	Variable	Sapling	White Pine	Trace	Variable	Sapling	Hazelnut (Beaked)	Medium	< 5 feet	Tall Shrub	Balsam Fir	Medium	Variable	Sapling							
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40	3102 - Grass	Nonstocked	24.6	0	Unspecified	No	Powerline																																																																											



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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41	4319 - Mixed Upland Forest	Sapling Well	10.3	13	Immature	N/A	"Bob's Creek Road Sale" (unit 5) #008-06 - cut Feb, 2009. Patch clumps of spruce/fir (10- 20' hts) from original stand, and also residual spruce, tamarack, cedar, and white pine (pole - log size) within. Stand is in process of regeneration - should be sufficiently stocked (note 1-2' regen hts). (2014)			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size
Tamarack		4	Log/Pole/Sap	11		Red Maple		Medium	< 5 feet	Seeding
Balsam Fir		25	Sapling	3	13	Balsam Fir		Medium	< 5 feet	Seeding
Northern White Cedar		4	Pole/Log/Sap	8						
White Spruce		2	Log	12						
White Spruce		5	Sapling	3	13					
Black Spruce		2	Pole	6						
Red Maple		30	Sapling	2	13					
White Pine		2	XLog	20						
Balsam Poplar		5	Sapling	3	13					
Black Cherry		21	Sapling	3	13					

42	6120 - Lowland Cedar	Poletimber Well	13.3	113	141-170	N/A	Trace log white pine and pole sized BAM. Very wet stand. More aspen and red maple on east side. Cedar throughout.			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size
Balsam Poplar		2	Pole	7		Black Spruce		Low	Variable	Sapling
Balsam Fir		2	Sapling	4		Tag Alder		Medium	5 - 10 feet	Tall Shrub
Black Spruce		15	Pole	7		Northern White Cedar		Medium	Variable	Sapling
Northern White Cedar		50	Pole/Log	8	113	Red Maple		Medium	Variable	Sapling
Red Maple		10	Pole	7		Paper Birch		Low	Variable	Sapling
Black Ash		2	Pole	6		Balsam Fir		Medium	Variable	Sapling
Paper Birch		4	Pole	8						
Quaking Aspen		10	Log/XLog	14						
Tamarack		5	Pole/Log	9						

43	6120 - Lowland Cedar	Poletimber Well	221.7	152	81-110	N/A	Noted quite a bit of standing water within stand. Contains isolated areas of more upland timber. 2014Trace amount of hemlock and aspen. 2024			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size
Black Spruce		10	Pole	8		Black Ash		Medium	Variable	Sapling
Northern White Cedar		60	Pole/Sap/Log	8	152	Tag Alder		Medium	5 - 10 feet	Tall Shrub
Tamarack		9	Log/Pole	10		Northern White Cedar		Medium	< 5 feet	Seeding
White Pine		4	XLog/Log	18		Balsam Fir		High	Variable	Sapling
Black Ash		3	Pole/Sapling	5		Tamarack		Low	Variable	Sapling
Red Maple		4	Pole/Sapling	6						
Quaking Aspen		2	Log	14						
Paper Birch		3	Log/Pole	10						
Black Ash		3	Pole	6						
Balsam Fir		2	Pole/Sapling	6						



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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44 4191 - Mixed Upland Deciduous with Conifer Poletimber Medium 13.6 93 51-80 N/A

Mostly smaller, poor quality red maple, cherry interior, transitioning into a paper birch/fir mix. Some overmature quaking aspen. Lower edges with balsam poplar. Numerous dead; heavier slash, in place. Lots of patchy wet ground within - access to stand is across ash/tagalder/cedar swale.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Quaking Aspen	4	Log/XLog	14		Red Maple	Low	< 5 feet	Sapling
White Spruce	10	Log/Pole	12		Balsam Fir	High	Variable	Sapling
Black Cherry	4	Pole	5		Red Maple	Medium	>20 feet	Sapling
Paper Birch	17	Pole/Log	9					
Red Maple	55	Pole/Sap/Log	5	93				
Northern White Cedar	8	Pole/Log	8					

45 6129 - Mixed Coniferous Lowland Forest Poletimber Medium 13.7 90 Unspecified N/A

5/13/24: Lowland wet area with lots of tag alder, standing water in places. Variable mix of species and size classes. Mainly black spruce, balsam fir, and cedar poles. Scattered paper birch, tamarack, and very little aspen. Some open pockets present and scattered throughout. Good amount of cedar regeneration in the stand. Ground is covered in moss. Areas without gaps are dense with lots of trees packed together. Trace amounts of red maple, white pine, and black cherry.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Balsam Fir	20	Pole	7		Northern White Cedar	Medium	Variable	Sapling
Black Spruce	25	Pole	7	90	Tamarack	Low	>20 feet	Sapling
Northern White Cedar	25	Pole	7		Tag Alder	High	5 - 10 feet	Tall Shrub
Tamarack	15	Pole/Log	8	90	Black Spruce	Low	Variable	Sapling
Paper Birch	10	Pole/Log	8		Balsam Poplar	Low	10 - 20 feet	Sapling
Quaking Aspen	5	Log	14		Balsam Fir	Medium	Variable	Sapling
					Paper Birch	Low	10 - 20 feet	Sapling

46 6124 - Lowland Spruce-Fir Poletimber Medium 70.4 71 51-80 N/A

11/7/13: Mix of upland and low grounds. Lots of smaller diameter conifers, esp. at the north end of stand. Natural seeding in of stand over the years. Ground cover of club moss, bunchberry, sphagnum noted. Possibly treat portions when harvesting adjacent stand(s) due to access and feasibility. Smaller black spruce at the south end - may wish to treat that portion with Compartment 45.

Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Northern White Cedar	6	Pole/Log	8		Balsam Poplar	Medium	>20 feet	Sapling
White Spruce	8	Pole/Log	8		Tamarack	Medium	10 - 20 feet	Sapling
Balsam Fir	15	Pole	7	71	Black Spruce	High	Variable	Sapling
Paper Birch	6	Pole/Log	8		Tag Alder	Medium	5 - 10 feet	Tall Shrub
White Pine	8	Log	14		Northern White Cedar	Low	< 5 feet	Sapling
Balsam Poplar	3	Pole	8		Balsam Fir	High	Variable	Sapling
Black Cherry	6	Pole	7		Paper Birch	Medium	>20 feet	Sapling
Quaking Aspen	2	Log/Pole	14					
Hemlock	2	Pole/Log	8					
Red Maple	12	Log/Pole	10					
Tamarack	5	Pole/Sap/Log	9					
Black Spruce	27	Pole/Sapling	7	71				

5/13/24: Lowland area mainly with some upland spots. Lots of wet ground, standing water in areas, some heavy tag alder pockets. Heavy conifer component in the stand, good mix of poles and saplings, few logs. Scattered more open areas, lots of canopy gaps. Few large overstory white pine logs. Lots of balsam fir and black spruce, few scattered aspen. Black spruce component is very heavy and dominant in the southern part of the stand, poletimber mainly. Some dead spruce/fir, budworm impact.



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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47	4130 - Aspen	Sapling Medium	34.4	7	Immature	N/A	2019: Bob's East SBW #32-017-16. Clearcut leaving WP, Chy, elm. 2014: Some smaller aspen/balsam poplar along east side, and low, tagalder swale runs N/S through stand. Trace amount of elm, white pine and tamarack within. Ground cover of sedges, bunchberry, bracken and hazel noted. 5/13/24: Aspen regenerating pretty good. Few overstory white pine, cherry, and red maple left behind from last harvest. Trace amounts of aspen poles and red pine seedlings. Pockets of tag alder scattered. Good amount of cherry, maple, spruce/fir saplings mixed in with the aspen.			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size
Balsam Fir		8	Sapling	2		Red Pine		Low	Variable	Sapling
White Spruce		5	Sapling	2		Balsam Fir		High	Variable	Sapling
White Pine		2	Log	14		Hazelnut (Beaked)		Medium	5 - 10 feet	Tall Shrub
Red Maple		5	Sapling/Pole	3		Tag Alder		Low	5 - 10 feet	Tall Shrub
Quaking Aspen		70	Sapling	1	7	White Spruce		Medium	Variable	Sapling
Balsam Poplar		5	Sapling	1		Red Maple		Medium	>20 feet	Sapling
Black Cherry		5	Pole/Sapling	5		Black Cherry		Medium	5 - 10 feet	Sapling

48	3102 - Grass	Nonstocked	13.9		Unspecified	Managed Opening	11/7/13: Low density tree encroachment. Very old white pine stumps visible in places. 5/13/24: Trees encroaching in, scattered cherry, aspen, spruce/fir. Low density trees but starting to take over the opening in some areas. Some scattered white pine, tamarack, and jack pine. Mainly cherry, white pine, aspen, and some jack pine.
Sub-Canopy Species		Density	Avg. Height	Size			
White Spruce		Low		Pole			
Quaking Aspen		Low		Sapling			
Tamarack		Low		Sapling			
White Pine		Low		Pole			
Balsam Poplar		Trace		Sapling			
Black Cherry		Medium		Sapling			
Jack Pine		Low		Pole			
Balsam Fir		Low		Pole			

49	429 - Mixed Upland Conifers	Poletimber Poor	21.0	90	1-50	N/A	11/7/13: Part of old opening slowly filling in, some of which was treated in late 1980's. Ground cover of bracken fern, grasses, princess pine noted. 5/13/24: Old opening growing in, scattered cherry saplings. Scattered open areas with dense pockets of white spruce and balsam fir. Scattered aspen, jack pine, white pine, tamarack, and red maple. White spruce has taken over, dominant cover type. Some pockets of dead spruce/fir, budworm evidence.			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size
Tamarack		2	Pole	9		Black Spruce		Low	10 - 20 feet	Sapling
Black Cherry		15	Pole/Sap/Log	5		White Pine		Low	5 - 10 feet	Sapling
Balsam Fir		17	Pole/Log/Sap	8		White Spruce		Medium	Variable	Sapling
Jack Pine		5	Pole/Sapling	6		Cherry (spp.)		Medium	Variable	Sapling
White Pine		8	Log/Pole	12		Red Maple		Low	5 - 10 feet	Sapling
Quaking Aspen		8	Sapling/Pole	3	33	Balsam Poplar		Low	10 - 20 feet	Sapling
White Spruce		35	Pole/Log/Sap	8	90	Balsam Fir		Medium	Variable	Sapling
Red Maple		10	Pole/Log	8						



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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50	42110 - Planted Red Pine	Poletimber Well	15.1	33	81-110	N/A	10/21/13: "Highbanks West" #030-86 - seed tree cut 1991 (for birch). FTP32-402: for scarification (MO = birch). FTP32-495 - hand planting of 2-0 RP w/herbicide (Velpar) 1992. Birch trees had all died and site was nearly all raspberry, per TMS note - conversion was approved. Now transitioning from saplings to poles. Some natural regeneration also. 5/13/24: Red pine dominant, mainly poles, some saplings. Good amounts of red maple and cherry in the understory. Some wet areas with standing water. Trace amounts of tamarack. Some scattered more open areas with less stocking, very few scattered red pine logs. Cherry, paper birch, and red maple are scattered all along the road and stand edge. Stand could use a thinning, dense stocking, has never been cut. Stand is ready to be thinned at anytime, but due to small acreage and low volume could consider waiting and treating with a larger stand.
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
White Spruce	2	Log/Pole	10		Balsam Fir	High	Variable	Sapling
Red Pine	70	Pole	7	33	Black Cherry	Medium	Variable	Sapling
Balsam Fir	10	Pole/Sapling	6		Black Spruce	Medium	Variable	Sapling
Black Cherry	5	Sapling/Pole	3		Red Maple	Medium	Variable	Sapling
Paper Birch	3	Sapling	3					
White Pine	5	Pole/Sapling	5					
Quaking Aspen	5	Sapling	4					

51	4319 - Mixed Upland Forest	Sapling Medium	15.1	31	1-50	N/A	10/21/13: "Highbanks West" #030-86 - seed tree cut 1991. Extremely mixed and patchy stand. 5/13/24: Variable mix of species and size classes. Good paper birch mix scattered in with balsam fir and white pine. Lots of saplings on the verge of becoming poles. Some mixed in open areas of less stocking. Similar to stand 57, good mix of species. Small aspen component along north tip of stand, red pine pocket in northwest stand tip.
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Tamarack	2	Sapling	2		Red Pine	Low	Variable	Sapling
White Spruce	3	Log/Pole	10		Balsam Fir	High	Variable	Sapling
Northern White Cedar	2	Pole/Log	8		Black Cherry	High	Variable	Sapling
White Pine	20	Pole/Sapling	5		White Pine	High	10 - 20 feet	Sapling
Paper Birch	20	Sapling/Pole	4	31	Black Spruce	Medium	5 - 10 feet	Sapling
Hemlock	2	Pole	9		Red Maple	High	Variable	Sapling
Balsam Fir	20	Pole/Sapling	6	31	White Spruce	Medium	5 - 10 feet	Sapling
Red Maple	2	Sapling/Pole	4					
Red Pine	3	Pole/Sapling	6					
Quaking Aspen	11	Sapling/Pole	4	31				
Black Cherry	15	Sapling/Pole	3					

52	4134 - Aspen, Spruce/Fir	Sapling Well	19.2	31	Unspecified	N/A	11/7/13: "Larson Field Block" #005-90 - cut with Compartment 45.5/6/24: Good cherry component on west edge. Scattered red maple, balsam fir, white pine, and white spruce. Trace amounts of tamarack and black spruce. Few red maple poles, few scattered larger diameter aspen. Wet areas, standing water in some spots.
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Bigtooth Aspen	15	Pole/Sapling	6	31	Black Spruce	Low	10 - 20 feet	Sapling
White Spruce	3	Pole/Sapling	7		Tamarack	Low	>20 feet	Sapling
Black Cherry	10	Pole/Sapling	5		White Pine	Low	10 - 20 feet	Sapling
Red Maple	2	Sapling/Pole	4		Red Pine	Low	>20 feet	Sapling
Paper Birch	3	Pole/Sapling	5		Hazelnut (Beaked)	Medium	< 5 feet	Tall Shrub
Quaking Aspen	50	Pole/Sapling	6	31	White Spruce	Medium	Variable	Sapling
Balsam Fir	15	Pole/Sapling	5		Red Maple	Low	10 - 20 feet	Sapling
Black Spruce	2	Sapling/Pole	4		Balsam Fir	Medium	Variable	Sapling
					Black Cherry	Medium	Variable	Sapling



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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53	4112 - Maple, Beech, Cherry Association	Sawtimber Well	7.8	97	111-140	N/A	10/21/13: "Highbanks West" (Unit 3 portion) #030-86 - select cut 1991. Sugar maple with black stain, black knot on cherry; low quality red maple. Trace amount of hemlock, paper birch. Could use light thinning, but not much volume to create a marketable sale. 5/8/24: Above paragraph accurate. Quality is low, poor form, lots of defect, black stain present as well. Some natural mortality thinning going on. Lots of fir in the understory, good amount of cherry to. Few overstory white pine large logs left in overstory. Little hardwood regeneration, good amount of fir regen. Not a whole lot of volume present, smaller hardwood stand next to the red pine stand. Stand is ready to be thinned at anytime, but due to small acreage and low volume could consider waiting and treating with a larger stand.
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Sugar Maple	25	Log/Pole	11		Paper Birch	Low	Variable	Sapling
Red Maple	60	Log/Pole	11	97	Hazelnut (Beaked)	Low	5 - 10 feet	Tall Shrub
White Pine	2	XLog	22		Ironwood	Low	Variable	Sapling
Black Cherry	13	Log/Pole	12		Sugar Maple	Low	Variable	Sapling
					Yellow Birch	Low	10 - 20 feet	Sapling
					White Pine	Low	5 - 10 feet	Sapling
					Black Cherry	Medium	10 - 20 feet	Sapling
					Balsam Fir	Medium	Variable	Sapling

54	6120 - Lowland Cedar	Poletimber Well	150.5	122	51-80	N/A	11/7/13: Cedar/tagalder with some small (1-3' ht) cedar regen noted. Pure cedar, in places. Inclusions of slightly more upland grounds with scattered red maple, paper birch, hemlock and/or spruce/fir concentrations with thick fir understory. (Dead balsam fir from previous budworm kill in the late 1980's.) Stand is quite variable. Sphagnum ground cover. 5/8/24: Above paragraph very accurate. Cedar dominated, lots of poles nearing log size, some scattered logs. Quite variable species composition, little cedar regeneration. Wet areas with standing water scattered throughout. Cedar appears healthy, stand is dense and growing well.
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Northern White Cedar	50	Pole/Log/Sap	8	122	White Pine	Low	Variable	Sapling
Red Maple	2	Pole/Log	8		Tag Alder	High	5 - 10 feet	Tall Shrub
Hemlock	2	Log/Pole	10		Northern White Cedar	Low	Variable	Sapling
Yellow Birch	2	Pole/Log	8		Black Spruce	Low	Variable	Sapling
Black Ash	8	Sapling/Pole	3		Paper Birch	Low	10 - 20 feet	Sapling
Paper Birch	8	Sapling/Pole	4		Balsam Fir	Medium	Variable	Sapling
Quaking Aspen	3	Log/Pole	10					
Black Spruce	10	Pole/Sapling	6	88				
Balsam Fir	10	Pole/Sapling	7					
White Pine	5	Log/Pole	12					

55	429 - Mixed Upland Conifers	Sawtimber Well	62.0	103	51-80	N/A	10/21/13: Escanaba River riparian zone buffer. 5/8/24: Stand is a buffer retention area for the Escanaba River. Stand is quite variable, some areas of standing water and black ash. Heavy stocked area for the most part, lots of moss, princess pine, and fern. Some pockets of dead spruce, budworm evidence. Mainly spruce/fir, lots of poles, some logs, lots of the logs are dead spruce/fir. Scattered paper birch, lots of sap/pole sized spruce/fir mainly. Not many larger log trees.
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
White Spruce	15	Log/Pole	12	103	Hemlock	Low	5 - 10 feet	Sapling
Black Spruce	3	Pole	6		Black Cherry	Low	5 - 10 feet	Sapling
Tamarack	2	Pole	8		Northern White Cedar	High	Variable	Sapling
Red Maple	10	Pole/Log	8		Quaking Aspen	Low	10 - 20 feet	Sapling
White Pine	10	Log/XLog	14		White Pine	Low	5 - 10 feet	Sapling
Paper Birch	10	Pole/Sap/Log	7		Balsam Fir	High	Variable	Sapling
Red Pine	10	Log/Pole/XLog	12		White Spruce	Medium	Variable	Sapling
Balsam Fir	10	Pole/Log	8		Paper Birch	Low	10 - 20 feet	Sapling
Black Cherry	5	Pole/Log	7		Red Maple	Low	Variable	Sapling
Quaking Aspen	5	Pole/Log	8					
Hemlock	5	Log	12					
Northern White Cedar	15	Pole/Log	7					



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments	
56	4119 - Mixed Northern Hardwoods	Sawtimber Well	8.0	103	111-140	N/A	<p>11/7/13: Small patch of hardwood. Half of stand is steep slope. Some of the stand is ready to thin, but other areas contain numerous dead balsam fir and lower BA. Would be best to wait and treat with a larger stand, due to low volume and difficult access. Ground cover of princess pine. Very little hardwood regeneration noted (trace cherry, maple <3').</p> <p>5/8/24: Above paragraph accurate. Overall pretty good natural maple seedling regeneration throughout. Some scattered cedar pole/log mixed in. Some maple have black stain, okay quality and form. Areas of overmature timber, areas of more pole sized timber. Good amount of trees that are nearing log size. Wet area with standing water in the middle of the stand, scattered cedar presence there. Trace amounts of black ash in wet area. More balsam fir component in northwest of stand. Steep drop off to lowland cedar area by northwest tip/edge. Few scattered openings. Maple dominant, mainly logs, stand could use a thinning. Stand is ready to be thinned at anytime, but due to small acreage and low volume could consider waiting and treating with a larger stand.</p>	
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density		Avg. Height
White Spruce	3	Log	12		Balsam Fir	Medium	Variable	Sapling
Northern White Cedar	6	Log/Pole	12		White Pine	Low	5 - 10 feet	Sapling
Black Cherry	6	Log/Pole	10		Ironwood	Low	5 - 10 feet	Sapling
Sugar Maple	30	Log/Pole	10	103	Black Cherry	Low	Variable	Sapling
Red Maple	40	Log/Pole/XLog	11	103	Sugar Maple	Medium	< 5 feet	Seeding
Basswood	5	Log	14					
Ironwood	5	Pole/Log	9					
Balsam Fir	5	Pole	8					
57	4319 - Mixed Upland Forest	Sapling Medium	34.0	31	1-50	N/A	<p>10/21/13: "Highbanks West" #030-86 - seed tree cut 1991. Extremely mixed and patchy stand. Some high and low grounds - bracken fern, sedges/grasses. Pocket of mature white pine within. 5/8/24: Variety of species and size classes. Lots of saplings nearing pole size, or are just big enough for pole size. Trace amounts of cedar, yellow birch, black spruce, and red pine. Stand is dense, lots of small young trees packed together. Few scattered more open areas, white pine component along the road. Sap/pole dominant, extremely mixed and patchy like mentioned above.</p>	
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density		Avg. Height
White Pine	2	XLog	22		Balsam Fir	High	Variable	Sapling
Northern White Cedar	2	Pole/Log	8		Red Pine	Low	>20 feet	Sapling
Quaking Aspen	5	Sapling/Pole	4	31	Black Spruce	Medium	< 5 feet	Sapling
Hemlock	2	Pole	9		White Spruce	Medium	< 5 feet	Sapling
White Spruce	2	Log/Pole	12		Willow spp.	Low	5 - 10 feet	Tall Shrub
Black Spruce	2	Sapling/Pole	3		White Pine	High	10 - 20 feet	Sapling
Balsam Fir	20	Pole/Sapling	6	31	Black Cherry	Medium	5 - 10 feet	Sapling
Black Cherry	14	Pole/Sapling	5		Red Maple	Medium	5 - 10 feet	Sapling
Red Maple	12	Pole/Sapling	5					
White Pine	20	Pole	6					
Paper Birch	15	Sapling/Pole	4	31				
Red Pine	2	Sapling/Pole	4					
Tamarack	2	Sapling	2					
58	42340 - Upland Spruce/Fir	Poletimber Medium	20.0	34	1-50	N/A	<p>10/21/13: Spruce budworm killed most of this stand in the late 1980's - almost completely stocked now with young spruce/fir, although older component is still present. Hemlock is deformed/"wooly" - heavy forking. Larger maple is dead/dying. Trace amount of jack pine noted. Also contains old gravel "pit"/opening with cherry; knapweed present.</p> <p>5/8/24: Paragraph above accurate. Sapling/pole dominant, young spruce/fir. Budworm presence, dead trees scattered. Scattered black cherry sap/pole, few logs. Scattered paper birch poles. Scattered mixed in open areas, old road going through the stand as well. Trace amounts of jack pine, white pine, and cedar. Old gravel pit still present. Road goes through the middle of the stand. Good amount of white pine along the road.</p>	
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density		Avg. Height
Northern White Cedar	2	Log	12		Quaking Aspen	Low	10 - 20 feet	Sapling
Hemlock	3	Log	14		Balsam Fir	High	Variable	Sapling
Black Cherry	10	Pole/Sapling	5		Tamarack	Low	5 - 10 feet	Sapling
White Pine	5	Pole/Sapling	6		Red Pine	Low	5 - 10 feet	Sapling
Balsam Fir	45	Pole/Sapling	6	34	Black Spruce	Low	10 - 20 feet	Sapling
White Spruce	22	Log/Pole	12	88	White Spruce	Low	10 - 20 feet	Sapling
Paper Birch	5	Pole	6		Red Maple	Low	10 - 20 feet	Sapling
Red Maple	8	Log/Pole	12		Black Cherry	Low	Variable	Sapling
					White Pine	Low	10 - 20 feet	Sapling



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments		
59	6122 - Black Spruce	Sapling Poor	10.0	6	Immature	N/A	2018: Bob's East SBW #32-017-16. 2012: Some windthrow noted. Not much S/F regeneration within stand interior, but surrounding edges more heavily stocked. Trace amount of white pine along edges and a few aspen within. If treated, clearcut, no reserves due to stand size. Stand could probably be treated, although it would be a long winter haul for volume present. Ground cover of sphagnum, snowberry, bunchberry and occasional labrador tea. 5/8/24: Stand regenerating okay after recent harvest. Black spruce regen dominant <5 ft. Few mixed in tamarack, white pine, balsam fir, and red maple. The ground is covered in moss and ferns.		
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density		Avg. Height	Size
Paper Birch	2	Sapling	1		White Pine	Low		< 5 feet	Seeding
Black Spruce	98	Sapling	1	6	Black Spruce	Low		< 5 feet	Seeding
					Balsam Fir	Medium		5 - 10 feet	Sapling
					Red Maple	Low	5 - 10 feet	Sapling	
60	4134 - Aspen, Spruce/Fir	Sapling Well	63.2	31	Unspecified	N/A	10/21/13: "Highbanks West" sale #030-86 (unit 1 and 2) - cut 1991. 100' buffer left along Escanaba River. Scattered residual white pine and white spruce. Very mixed upland stand. 10 - 20' ht regeneration of S/F, white pine; some 1' cedar ground cover. 5/8/24: Old trail/road runs through stand, good amount of white spruce saplings along trail. Pockets of dead spruce/fir, budworm evidence. Aspen sap/pole dominant, lots of saplings near pole size. Few scattered cherry, red pine, white pine, black ash, trying to grow in wet areas. Areas of standing water, tag alder in some wet areas, less stocking in wet areas. Road into stand was flooded out in several spots. Trace amounts of tamarack, black ash. Good conifer component in understory. Few large diameter aspen mixed in.		
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density		Avg. Height	Size
White Spruce	5	Pole/Sapling	6		Black Spruce	Medium		Variable	Sapling
Black Spruce	5	Sapling/Pole	4		Tamarack	Low		Variable	Sapling
White Pine	2	Pole/Sapling	6		White Pine	Medium		Variable	Sapling
Red Maple	10	Sapling/Pole	3		Red Pine	Low		Variable	Sapling
Red Pine	2	Pole/Sapling	5		Red Maple	Medium		Variable	Sapling
Quaking Aspen	56	Pole/Sapling	5	31	White Spruce	Low		Variable	Sapling
Balsam Fir	10	Sapling/Pole	4		Balsam Fir	High		Variable	Sapling
Paper Birch	10	Sapling/Pole	4						
61	42220 - Natural Jack Pine	Poletimber Well	15.7	71	111-140	N/A	Patch of natural jack pine with some spruce, aspen and red pine mixed in. Flushing Frogs GEMS 32-009-22		
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density		Avg. Height	Size
White Pine	5	Pole	8		Red Maple	Medium		5 - 10 feet	Sapling
Red Maple	5	Pole	8		Balsam Fir	Medium		5 - 10 feet	Sapling
Quaking Aspen	10	Pole	9		White Pine	Medium		5 - 10 feet	Sapling
Red Pine	8	Pole	8						
Balsam Fir	4	Pole	7						
Jack Pine	68	Pole	9	71					
62	4133 - Aspen, Mixed Pine	Poletimber Well	69.6	71	111-140	N/A	Treated in 2024 under		
Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size	
White Pine	10	Pole	8	71	Red Maple	High	5 - 10 feet	Sapling	
					White Pine	Medium	5 - 10 feet	Sapling	
					Balsam Fir	Medium	5 - 10 feet	Sapling	
63	6225 - Bog	Nonstocked	5.8			No			



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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64	42290 - Natural Mixed Pine	Poletimber Well	62.0	80	81-110	N/A	Aspen mixed with spruce, fir, maple and pine. Dry site, aspen is mature. (2014)			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size
Quaking Aspen		15	Pole	8		White Spruce		Low	Variable	Sapling
Jack Pine		5	Pole/Log	9		Red Pine		Low	Variable	Sapling
White Spruce		6	Pole/Log	9		White Pine		Low	Variable	Sapling
Bigtooth Aspen		2	Pole	9		Balsam Fir		High	Variable	Sapling
Balsam Fir		2	Pole	7		Red Maple		Medium	Variable	Sapling
White Pine		55	Pole/Log	9	80					
Red Maple		5	Pole/Log	9						
Red Pine		10	Pole/Log	9						

65	6225 - Bog	Nonstocked	3.0			No	
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66	6112 - Lowland Aspen	Poletimber Well	16.7	38	51-80	N/A	Cut in 1986 # 015-83-1. Aspen saplings 25-40' tall just starting to move into the pole class, over fir saplings. Trace amount of sapling jack pine, tag alder and pole sized red pine. This stand is half upland and half lowland. Very diverse stand. Upland areas are a poor-quality site and low areas have seeps and look to be quite wet. Some areas of lower stocking found in the north Size can be quite variable in this stand.			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size
White Spruce		5	Pole	5		Black Spruce		Medium	Variable	Sapling
Paper Birch		2	Pole/Sapling	5		Red Maple		Medium	Variable	Sapling
Black Spruce		15	Pole/Sapling	6		Balsam Fir		Medium	Variable	Sapling
White Pine		2	Pole	5		Tag Alder		Low	5 - 10 feet	Tall Shrub
Quaking Aspen		45	Pole/Sapling	5	38					
Balsam Poplar		15	Pole/Sapling	5						
Balsam Fir		10	Pole	6	38					
Northern White Cedar		1	Log	12						
Red Maple		5	Pole/Sapling	5						

67	4133 - Aspen, Mixed Pine	Sapling Well	54.0	4	Immature	N/A	Stand harvested under 32-016-16 Bob's West SBW. Some small openings growing in present. Some large residual red maple scattered and pockets of residual retention. Large retention patch on southern edge.			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species		Density	Avg. Height	Size
Black Cherry		2	Sapling	1		Balsam Fir		Low	< 5 feet	Seeding
Red Maple		10	Sapling/Pole	1		Red Pine		Trace	< 5 feet	Seeding
Balsam Fir		5	Sapling	2		White Pine		Low	< 5 feet	Seeding
White Pine		20	Log/Pole	12	85					
Quaking Aspen		55	Sapling	1	4					
Jack Pine		2	Pole/Sapling	5						
Red Pine		5	Log/Pole	10						
Hemlock		1	Pole	8						



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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68	6120 - Lowland Cedar	Poletimber Medium	9.8	81	51-80	N/A	Variable basal area. Very wet. Small timber that gets larger around the edges. 2024
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Canopy Species	% Cover	Size Class	DBH	Age
Paper Birch	4	Pole/Sapling	5	
Tamarack	4	Pole/Sapling	6	
Balsam Fir	4	Pole/Sapling	6	
Black Spruce	4	Pole/Sapling	6	
Northern White Cedar	84	Pole/Sapling	6	81

Sub-Canopy Species	Density	Avg. Height	Size
Balsam Fir	Medium	Variable	Sapling
Tag Alder	Medium	5 - 10 feet	Tall Shrub

69	122 - Road/Parking Lot	Nonstocked	18.3		Unspecified	No	County road 557 R.O.W.
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70	429 - Mixed Upland Conifers	Poletimber Well	7.1	32	Immature	N/A	Treated under contract # 14-92-01 with all conifers retained. Stand is currently a mix of white pine, fir, and aspen. Trace paper birch. 2024
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Canopy Species	% Cover	Size Class	DBH	Age
Jack Pine	5	Pole	7	
White Pine	20	Log/Pole	13	75
Balsam Fir	15	Pole	5	32
White Spruce	10	Pole	5	
Black Spruce	20	Pole	5	
Red Pine	5	Log/Pole	13	
Quaking Aspen	25	Pole/Sapling	5	32

Sub-Canopy Species	Density	Avg. Height	Size
White Pine	Low	Variable	Sapling
Quaking Aspen	Medium	Variable	Sapling
Black Spruce	Low	Variable	Sapling
Red Pine	Trace	Variable	Sapling
Balsam Fir	Medium	Variable	Sapling
White Spruce	Low	Variable	Sapling

71	4133 - Aspen, Mixed Pine	Poletimber Well	0.5	71	111-140	N/A	Aspen mixed with spruce, fir, maple and pine. Dry site, aspen is mature. SF 2024: Untreated portion of parent aspen stand to the east because of BMP concerns.
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Canopy Species	% Cover	Size Class	DBH	Age
Bigtooth Aspen	8	Pole	8	
White Pine	10	Pole	8	71
Red Maple	13	Pole	8	
Quaking Aspen	45	Pole	8	71
Jack Pine	4	Pole	8	
Red Pine	8	Pole	8	
White Spruce	6	Pole	8	
Balsam Fir	6	Pole	7	

Sub-Canopy Species	Density	Avg. Height	Size
White Pine	Medium	5 - 10 feet	Sapling
Red Maple	High	5 - 10 feet	Sapling
Balsam Fir	Medium	5 - 10 feet	Sapling

72	4130 - Aspen	Poletimber Well	5.6	37	81-110	N/A	Trace amount of hemlock, sugar maple, yellow birch and red pine
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Canopy Species	% Cover	Size Class	DBH	Age
Red Maple	25	Log/Pole	10	
Quaking Aspen	71	Pole	6	37
White Pine	1	Pole	8	
Balsam Fir	2	Pole	8	
Black Spruce	1	Pole	7	

Sub-Canopy Species	Density	Avg. Height	Size
White Pine	Trace	Variable	Sapling
Balsam Fir	High	Variable	Sapling
Black Spruce	Trace	Variable	Sapling
Yellow Birch	Trace	Variable	Sapling
Paper Birch	Trace	Variable	Sapling
Black Spruce	Trace	Variable	Sapling
Red Maple	Low	Variable	Sapling