



Compartment Review Presentation

Gwinn Forest Management Unit

Compartment 32095

Entry Year: 2026

Acreage: 975

County: Alger

Management Area: Menominee-Marquette

Stand Examiner: Peter Holodnick

Legal Description:

T44N, R21W, Sections 2,3,10,11 and 14.

Identified Planning Goals:

Planning will focus on timber management, forest recreation, fisheries management and wildlife habitat management. Public access, forest road maintenance, trespass incidents, forest regeneration, forest health, forest fire control, watershed considerations and resource damage are critical assessments considered during the forest mapping and inventory process. Overall forest management strives to provide for a diverse, healthy and productive forest through planning and implementation of sustainable, proper forest/habitat treatments.

Soil and topography:

Lowland soils include: Carbondale, Lupton and Tawas soils; Nahma-Ruse complex; and Cathro-Ensley mucks. Upland soils include: Shoepac-Ensley complex, Shoepac-Trenary silt loams, Chatham fine sandy loam, Trenary silt loam, Kiva fine sandy loam, Kalkaska-Cusino complex, Traunik cobbly fine sandy loam, Summerville fine sandy loam and Charlevoix-Ensley complex. Terrain ranges from gently rolling hills and low, long ridges to level swamps.

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

This compartment is comprised of one main block of state acreage, and two isolated, smaller parcels. The large block is bordered by additional state land on the north and east sides and small private parcels to the west and south. Plum Creek lands and small private parcels surround the two isolated, smaller parcels. Many of the small private parcels have rustic camps located on them. Hunting is the primary recreational use of these small holdings while the Plum Creek land is intensively managed for timber. A large farm is found to the southwest of this compartment. The AuTrain Waterfowl Refuge and sharecrop fields are located along the north edge of this compartment.

Unique Natural Features:

Canadian milk-vetch (*Astragalus canadensis*) to se.
Potential for goshawk, osprey, red-shouldered hawk, wolf and moose. Potential for wood turtle along Dexter Creek.
Potential for climbing fumitory, goblin fern, large toothwort, ginseng, showy orchis, and Assiniboia sedge in mature hardwoods.

Archeological, Historical, and Cultural Features:

No Archeological, Historical, or Cultural Features known.

Special Management Designations or Considerations:

Watershed and Fisheries Considerations:

This compartment contains Dexter Creek which serves as a tributary to the East Branch Whitefish River. Dexter Creek is a designated Type 1 trout stream less than 50-ft wide and has a predicted mean July temperature of 64.0 °F (cold stream). A 300-foot buffer is recommended for Dexter 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.

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

Sections 10, 11 and 14, T45N-R21W, Alger County

Surface sediments consist of medium-textured glacial till and glacial outwash sand and gravel and postglacial alluvium. The glacial drift thickness varies between 10 and 50 feet. The Ordovician Trenton and Black River Groups subcrop below the glacial drift. The Trenton and Black River are quarried for stone/dolomite elsewhere in the UP. Gravel pits are located in the area and potential appears to be good. This compartment has never been leased for metallic exploration. There is no economic oil and gas production in the UP.

Vehicle Access:

Public vehicle access is good for many portions of this compartment via Paulson Road, Trout Lake Road and several forest roads. Access to the two small parcels off of M-67 is restricted by private property and gates.

Survey Needs:

Several new survey monuments will be needed to accomplish land management activities.

Recreational Facilities and Opportunities:

Hunting, fishing, berry picking, mushroom picking, trapping, dog walking, bird watching, off-road vehicle usage and snowmobiling are the primary undeveloped recreation uses. The AuTrain Waterfowl Refuge is located to the immediate north of this compartment.

Fire Protection:

This area has a very low wildlife frequency and hazard rating.

Additional Compartment Information:

The following reports from the Inventory are attached:

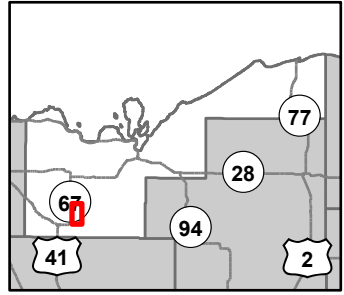
- Total Acres by Cover Type and Age Class**
- Cover Type by Harvest Method**
- Proposed Treatments – No Limiting Factors**
- Proposed Treatments – With Limiting Factors**
- Stand Details (Forested and Nonforested)**
- Dedicated and Proposed Special Conservation Areas**
- Site Condition Details**

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

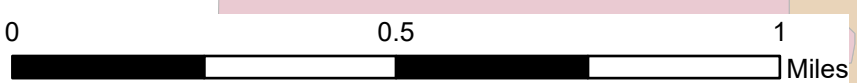
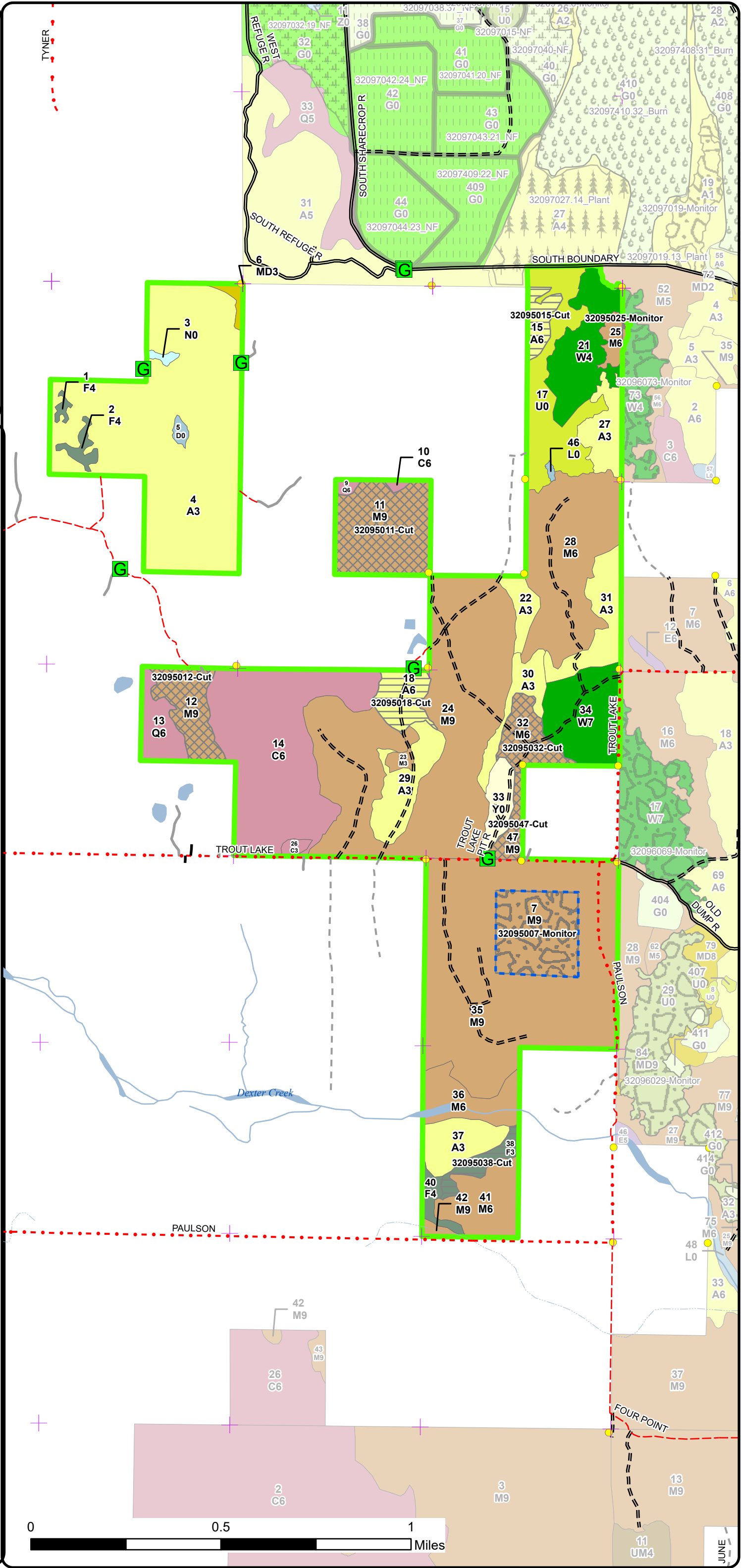
- Base feature information, stand boundaries, cover types, and numbers**
- Proposed treatments**
- Site condition boundaries**
- Details on the road access system**

Cover Type & Treatments Map

Compartment: 32095
 T44N, R21W, Sec: 2, 3, 10, 11, 14
 County: Alger
 Unit: Gwinn
 Mgmt Area: Menominee-Marquette
 YOE: 2026
 Acres: 974.8 GIS Calculated
 Examiner: Peter Holodnick
 Map Revised: 10/04/2024
 Map Phase: Post Review

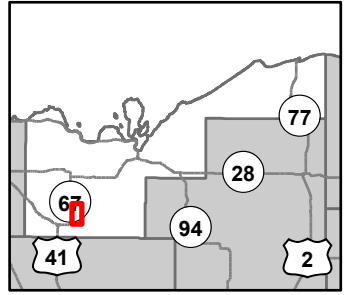


- ✚ Remonumented Section Corners
- Survey Grade Corners
- G** Gate
- DNR - Secondary Forest Road
- == DNR - Forest Access Route
- Federal / State / County - Paved Road
- - - County - Gravel Road
- - - County - Dirt Road (Seasonal)
- Private - Paved Road
- - - Private - Dirt / Gravel Road
- Intermittent Stream
- Lake/Pond
- Perennial River
- Lakes and Rivers
- G** Compartment Boundary
- ▭ Treatments with Site Conditions
- ▭ Selection (Group, Single Tree)
- ▭ Clearcut (w/Reserves)
- ▭ Regeneration Survey
- 411 - Northern Hardwood
- 413 - Aspen Types
- 419 - Mixed Upland Deciduous
- 422 - Natural Pines
- 423 - Other Upland Conifers
- 612 - Lowland Coniferous Forest
- 330 - Low Density Trees
- 622 - Lowland Shrub
- 623 - Emergent Wetland
- 710 - Sand/Soil

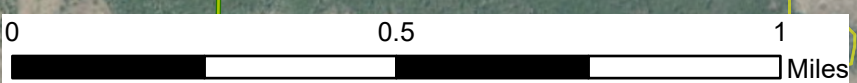
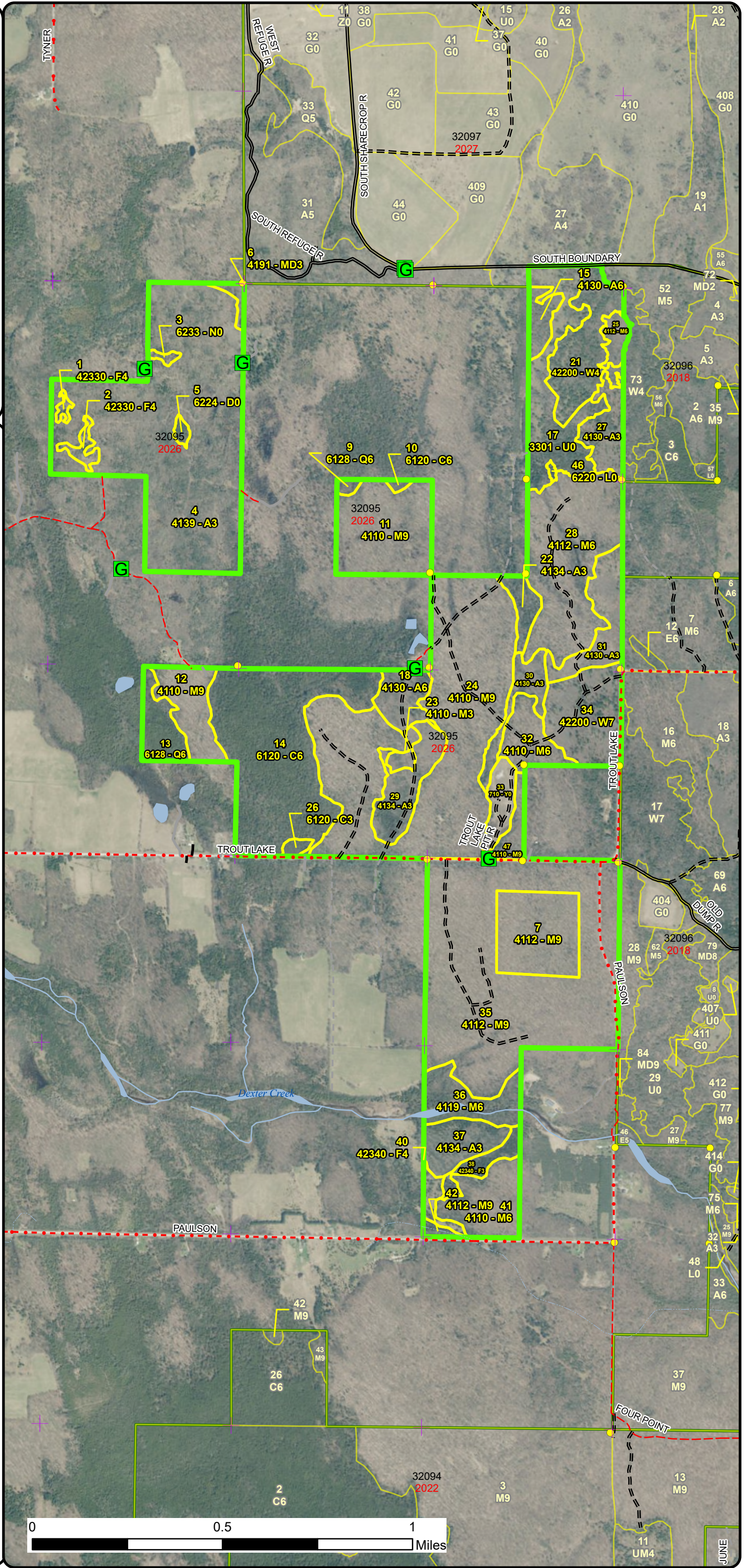


Stand Boundary Map

Compartment: 32095
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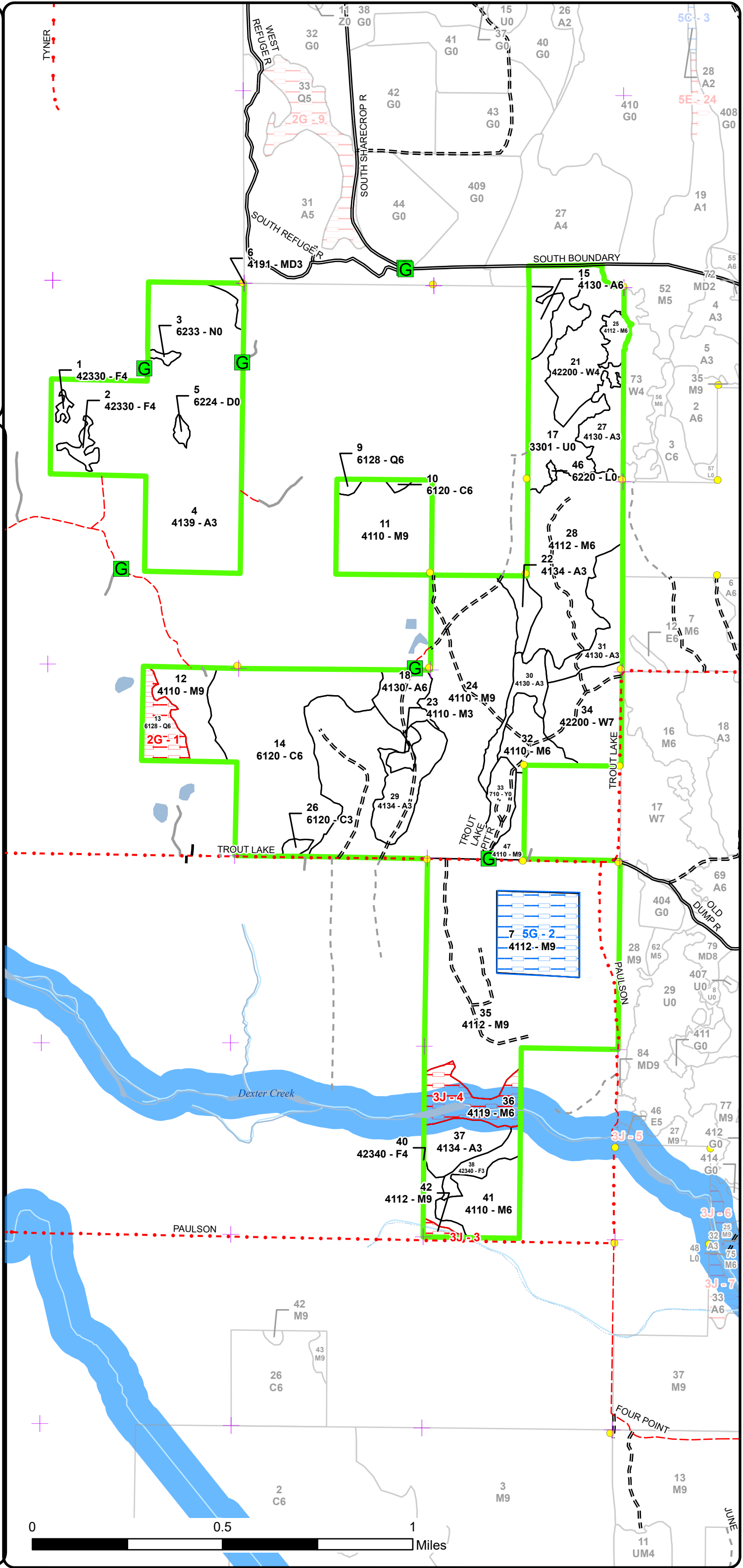
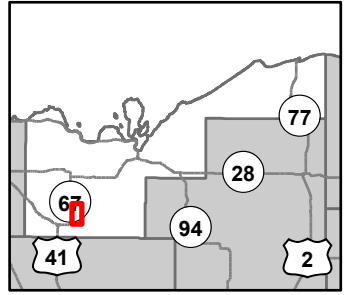


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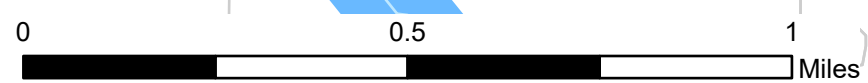


Special Conservation Areas & Site Conditions Map

Compartment: 32095
 T44N, R21W, Sec: 2, 3, 10, 11, 14
 County: Alger
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- Private - Paved Road
- - - Private - Dirt / Gravel Road
- Intermittent Stream
- Lake/Pond
- Perennial River
- Lakes and Rivers
- Compartment Boundary
- Available w/ Constraints
- Unavailable
- 2G: Too wet (sensitive soils, does not include access issues)
- 3J: Water quality / BMPs (stream, river, or lake)
- Available w/ Constraints
- Unavailable
- Stand Boundaries
- Stand Boundaries
- Cold Water Streams
- High Priority Trout Stream Buffer





Age Class

	Non-Forest	0-9	10-19	20-29	30-39	40-49	50-59	60-69	70-79	80-89	90-99	100-109	110-119	120-129	130-139	140-149	150+	Uneven-Aged	Total
Aspen	0	0	31	35	168	0	19	0	0	0	0	0	0	0	0	0	0	0	253
Cedar	0	0	0	0	0	0	0	0	0	0	2	1	85	0	0	0	0	0	88
Low-Density Trees	35	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	35
Lowland Conifers	0	0	0	0	0	0	1	0	0	0	0	0	12	0	0	0	0	0	13
Lowland Shrub	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Marsh	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
Mixed Upland Deciduous	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	2
Northern Hardwood	0	0	0	3	0	0	0	5	2	48	51	144	18	0	0	0	0	227	498
Sand, Soil	9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	9
Treed Bog	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
Upland Spruce/Fir	0	0	0	0	4	12	0	0	0	0	0	0	0	0	0	0	0	0	16
White Pine	0	0	0	0	0	0	0	28	0	30	0	0	0	0	0	0	0	0	58
Total	48	0	31	38	174	12	20	33	2	78	53	145	115	0	0	0	0	227	975



Report 2 – Treatment Summary

Gwinn Mgt. Unit

Year of Entry: 2026

Acres of Harvest

Compartment 95

Total Compartment Acres: 975

Commercial Harvest - 101
 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
Aspen	19	0	0	0	0	0	0	0	0	19
Northern Hardwood	0	75	0	0	0	0	0	0	0	75
Upland Spruce/Fir	7	0	0	0	0	0	0	0	0	7
Total	26	75	0	0	0	0	0	0	0	101

Proposed and Next Step Treatments by Method

	Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current	101	0	0	0	0	0	31	0	0	132
Next Step	0	0	0	0	0	0	101	0	0	101
Total	101	0	0	0	0	0	132	0	0	233



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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Proposed Treatments:

11	32095011-Cut	37.8	4110 - Sugar Maple Association	Sawtimber Well	95	111-140	Harvest	Single Tree Selection	411 - Northern Hardwood	Uneven-Aged	No
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Prescription Selectively mark individual trees for harvest to promote an uneven aged stand structure. Residual basal area should be between 80 to 90 square feet. Emphasis will be on improving the timber quality and productivity of the stand by releasing future crop trees. Retain any white pine, cedar, hemlock, oak, or white spruce present. Favor yellow birch, black cherry, and basswood to keep in the stand.

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable any tree species currently in the overstory is acceptable.

Regen:

Other

Comment:

Site Condition:

Proposed Start Date: 10/1 /2025

12	32095012-Cut	17.7	4110 - Sugar Maple Association	Sawtimber Well	110	111-140	Harvest	Single Tree Selection	411 - Northern Hardwood	Uneven-Aged	No
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Prescription Selectively mark individual trees for harvest to promote an uneven aged stand structure. Residual basal area should be between 80 to 90 square feet. Emphasis will be on improving the timber quality and productivity of the stand by releasing future crop trees. Retain any white pine, cedar, hemlock, oak, or white spruce present. Favor yellow birch, black cherry, and basswood to keep in the stand.

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Any tree currently in the overstory is acceptable.

Regen:

Other

Comment:

Site Condition:

Proposed Start Date: 10/1 /2025

15	32095015-Cut	6.9	4130 - Aspen	Poletimber Well	54	81-110	Harvest	Clearcut	413 - Aspen	Uneven-Aged	No
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Prescription Cut all merchantable species, do not cut white pine and basswood. No retention due to small size.

Specs:

Next Step Monitoring, Natural Regen (Re-Inventory)

Treatments:

Acceptable Any tree species currently in the overstory is acceptable.

Regen:

Other

Comment: WLD Comments: Retain Basswood (9%) for cavity nesters, pollinators, and seed production for small mammals and White Pine (2%) -bear refuge trees, and wildlife nesting.

Site Condition:

Proposed Start Date: 10/1 /2025



Stand Name	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Habitat Cut
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18	32095018-Cut	11.9	4130 - Aspen	Poletimber Well	50	81-110	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	No
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Prescription Cut all merchantable species, do not cut Hemlock, Cedar, Black Cherry and Yellow Birch. Leave 3 -10 % retention.
Specs:

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

Acceptable Any tree species currently in the overstory is acceptable
Regen:

Other WLD Comments: Also include 1 to 2 drumming logs of any species (9–15-inch DBH) at least 8 ft long immediately adjacent to a stump lying
Comment: flat on the ground should be randomly left in the stand.

Site Condition:

Proposed Start Date: 10/1 /2025

32	32095032-Cut	13.5	4110 - Sugar Maple Association	Poletimber Well	95	111-140	Harvest	Single Tree Selection	411 - Northern Hardwood	Uneven-Aged	No
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Prescription Selectively mark individual trees for harvest to promote an uneven aged stand structure. Residual basal area should be between 80 to 90 square feet. Emphasis will be on improving the timber quality and productivity of the stand by releasing future crop trees. Retain any white pine, cedar, hemlock, oak, or white spruce present. Favor yellow birch, black cherry, and basswood to keep in the stand.
Specs:

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

Acceptable Any tree species currently in the overstory is acceptable.
Regen:

Other
Comment:

Site Condition:

Proposed Start Date: 10/1 /2025

38	32095038-Cut	6.7	42340 - Upland Spruce/Fir	Sapling Well	46	171-200	Harvest	Clearcut	42330 - Upland Fir	Even-Aged	No
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Prescription Cut all merchantable species, do not cut Hemlock, Cedar, Black Cherry, and Yellow Birch. No retention is needed due to small size of the stand.
Specs:

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

Acceptable Any tree species currently in the overstory is acceptable
Regen:

Other
Comment:

Site Condition:

Proposed Start Date: 10/1 /2025

47	32095047-Cut	6.4	4110 - Sugar Maple Association	Sawtimber Well	105	111-140	Harvest	Single Tree Selection	411 - Northern Hardwood	Uneven-Aged	No
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Prescription Selectively mark individual trees for harvest to promote an uneven aged stand structure. Residual basal area should be between 80 to 90 square feet. Emphasis will be on improving the timber quality and productivity of the stand by releasing future crop trees. Retain any white pine, cedar, hemlock, oak, or white spruce present. Favor yellow birch, black cherry, and basswood to keep in the stand.
Specs:

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

Acceptable Any tree species currently in the overstory is acceptable.
Regen:

Other
Comment:

Site Condition:

Proposed Start Date: 10/1 /2025



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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Approved Treatments:

7	32095007-Monitor	30.6	4112 - Maple, Beech, Cherry Association	Sawtimber Well	85	51-80	Monitoring	Natural Regen (Intermediate)	411 - Northern Hardwood	Uneven-Aged	No
<p><u>Prescription</u> MWR project. <u>Specs:</u> MSU crew will monitor site per study specs. <u>Next Step</u> <u>Treatments:</u> <u>Acceptable</u> A diverse mix of northern hardwood species. <u>Regen:</u> <u>Other</u> Percent to Treat = 100% <u>Comment:</u> <u>Site Condition:</u> Research Study <u>Proposed Start Date:</u> 10/1 /2020</p>											
25	32095025-Monitor	0.6	4112 - Maple, Beech, Cherry Association	Poletimber Well	65	81-110	Monitoring	Natural Regen (Re-Inventory)	4319 - Mixed Upland Forest	Two-Aged	No
<p><u>Prescription</u> <u>Specs:</u> <u>Next Step</u> <u>Treatments:</u> <u>Acceptable</u> Maple, fir, spruce, black cherry, pine, hemlock, and birch. <u>Regen:</u> <u>Other</u> Percent to Treat = 100% <u>Comment:</u> <u>Site Condition:</u> <u>Proposed Start Date:</u> 3 /23/2018</p>											

Total Treatment 132.1
Acres Proposed:

Report 4 – Site Conditions

Gwinn Mgt. Unit

Peter Holodnick: Examiner

Compartment: 95

Year of Entry: 2026



Availability for Management

Total Acres	Acres Available	Acres Avail		Dominant Site Conditions	5G	2G	3J
		With Condition	Not Available				
253	253	0	0	Aspen			
88	88	0	0	Cedar			
35	35	0	0	Low-Density Trees			
13	1	0	12	Lowland Conifers		12	
1	1	0	0	Lowland Shrub			
1	1	0	0	Marsh			
2	2	0	0	Mixed Upland Deciduous			
497	448	31	19	Northern Hardwood	31		19
9	9	0	0	Sand, Soil			
1	1	0	0	Treed Bog			
16	16	0	0	Upland Spruce/Fir			
57	57	0	0	White Pine			
975	913	31	31	Total Forested Acres	31	12	19
	94%	3%	3%	Relative Percent			

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

Site No.	Dominant Site Cond Availability	Dominant Site Condition	Acres	Other Site Condition	Other Site Condition	Other Site Condition	Other Site Condition
1	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	12	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Its mostly Cedar and Dead Black Ash							
2	Available	5G: Research Study	31	Unspecified	Unspecified	Unspecified	Unspecified
Comments: MWR Hardwood Study							

Report 4 – Site Conditions

Gwinn Mgt. Unit

Compartment: 95



Peter Holodnick: Examiner

Year of Entry: 2026

3	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	2	Unspecified	Unspecified	Unspecified	Unspecified
Comments: buffer for the creek. It goes steeply down to the creek							
4	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	17	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Dexter creek buffer.							

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	Research and Military Areas	These areas provide facilities and lands specifically dedicated for research, or other purposes. They include the 5,847 acre Forest Fire Experiment Station, the 12,000 acre Houghton Lake Wildlife Research Area, the Beaver Islands Archipelago Wildlife Research Area (that includes most of Garden Island, all of High and Hog Islands, all state owned land on Beaver, South Fox and North Fox Islands), the Cusino Wildlife Research Area, the 3,000 acre Hunt Creek Fisheries Research Station, the 125 acre Wyman Nursery, and over 144,000 acres of Military Lands.
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.



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																																											
1	42330 - Upland Fir	Poletimber Poor	1.1	33	Unspecified	N/A																																																																												
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2	42330 - Upland Fir	Poletimber Poor	3.3	33	Unspecified	N/A	Stand approximately 75% open. Raspberries and tansy in herbaceous layer.																																																																											
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3	6233 - Wet Meadow	Nonstocked	1.2		Unspecified	No	Some ponding. Fir and white pine saplings present. Willow.																																																																											
4	4139 - Aspen, Mixed Deciduous	Sapling Well	153.4	33	Unspecified	N/A	Stand was harvested in in 1990. Very satisfactory stocking levels. 6 small patches of mature timber were left throughout the stand for diversity. Very diverse species composition. Areas where aspen is up to 6 inches Dbh and 1/2 to 1 stick tall. 16 to 18 inch Dbh white spruce, trembling aspen, fir, bigtooth aspen, black cherry and sugar maple comprise the retention patches. American elm poles and saplings are infrequently found.																																																																											
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5	6224 - Treed Bog	Nonstocked	1.5		Unspecified	No	Nearly pure black spruce - 3 to 4 inch Dbh. Infrequent white pine and tamarack saplings. Sedge and willow present.																																																																											
6	4191 - Mixed Upland Deciduous with Conifer	Sapling Well	2.4	33	81-110	N/A	Hilly area. Heavy stocking. Small inclusion of mature hardwoods to south. White birch poles and saplings present.																																																																											
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7	4112 - Maple, Beech, Cherry Association	Sawtimber Well	30.2	85	51-80	N/A	12/3/2020 KM: Walters crew reports that spraying (7/11/2020) and scarification are both complete. Portion of stand is part of Walters-Rolloff study which was harvested fall/winter of 2017/2018. Red maple stump sprouts over 10 feet tall. Patches of heavy ironwood regeneration. Lot of leatherwood. High levels of raspberry, particularly to the south. Couple ridges in stand. Cedar and white spruce are uncommon overstory associates. Fir saplings found. Crown gaps common. High quality timber stand.																																																	
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9	6128 - Lowland Coniferous, Mixed Deciduous	Poletimber Well	1.4	55	Unspecified	N/A	Many pools. Sphagnum moss common. Blueberry and Labrador tea present. Low timber quality and site productivity.																																																	
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10	6120 - Lowland Cedar	Poletimber Well	1.0	108	51-80	N/A																																																		
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11	4110 - Sugar Maple Association	Sawtimber Well	37.8	95	111-140	N/A	Rolling hills. Found several 12 inch to 19 inch Dbh American elm. High quality timber on good site.																																																	
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12	4110 - Sugar Maple Association	Sawtimber Well	17.7	110	111-140	N/A	Uncertain if permission to cross private lands with logging equipment would be granted. High quality timber stand. Cherry infrequent overstory associate.																																																	
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Sub-Canopy Species	Density	Avg. Height	Size																																																					
Balsam Fir	Low	10 - 20 feet	Sapling																																																					
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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13 6128 - Lowland Coniferous, Mixed Deciduous Poletimber Well 12.0 115 51-80 N/A Scattered white birch in overstory. Pockets of thicker cedar. Ponding of water common.

Canopy Species	% Cover	Size Class	DBH	Age
Balsam Fir	10	Pole	8	55
Black Spruce	10	Pole	8	
Northern White Cedar	45	Log/Pole	10	115
Black Ash	25	Pole	8	
Yellow Birch	5	Pole	6	
Tamarack	5	Pole	8	

Sub-Canopy Species	Density	Avg. Height	Size
Black Ash	Low	5 - 10 feet	Sapling
Balsam Fir	Low	5 - 10 feet	Sapling

14 6120 - Lowland Cedar Poletimber Well 85.3 115 111-140 N/A Stocking levels lower to south. Cedar saplings found. Not seeing any flooding damage. Webber creek flows through southeast portion of stand.

Canopy Species	% Cover	Size Class	DBH	Age
Yellow Birch	10	Log/Pole	12	
Balsam Fir	6	Pole	6	
Black Spruce	15	Pole/Log	8	
Northern White Cedar	61	Pole/Log	8	115
Hemlock	2	Pole/Log	8	
Black Ash	6	Sapling/Pole	5	

Sub-Canopy Species	Density	Avg. Height	Size
Tag Alder	Low	5 - 10 feet	Tall Shrub
Balsam Fir	Low	10 - 20 feet	Sapling

15 4130 - Aspen Poletimber Well 6.9 54 81-110 N/A Sparse serviceberry. Fir, white pine, ironwood and elm are uncommon overstory associates.

Canopy Species	% Cover	Size Class	DBH	Age
Red Maple	10	Pole	8	
Basswood	9	Log/Pole	12	
White Spruce	5	Log/Pole	12	
Black Cherry	5	Pole	8	
White Pine	2	Log/Pole	14	
American Elm	2	Pole	7	
Quaking Aspen	65	Pole	8	54
Ironwood	2	Sapling/Pole	4	

Sub-Canopy Species	Density	Avg. Height	Size
White Spruce	Low	< 5 feet	Sapling
Ironwood	Medium	>20 feet	Sapling

17 3301 - Low Density Deciduous Trees Nonstocked 35.0 Unspecified No Wildlife Division planted large red oak saplings Spring of 2013. North south running ridge along west side of stand. Cherry brush and aspen saplings prevalent. Also fir, white spruce and white pine saplings present. Black cherry, white pine and white spruce poles present. Stand semi-open.

Sub-Canopy Species	Density	Avg. Height	Size
White Pine	Low	5 - 10 feet	Sapling



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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18	4130 - Aspen	Poletimber Well	11.9	50	81-110	N/A	Sparse elm saplings.
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
White Spruce	2	Log/Pole	9		Sugar Maple	Medium	>20 feet	Sapling
Balsam Poplar	15	Pole/Log	8		Balsam Fir	Low	>20 feet	Sapling
Black Cherry	8	Pole	7					
Quaking Aspen	63	Pole/Log	8	50				
Balsam Fir	10	Pole	7					
Sugar Maple	2	Sapling/Pole	4					

21	42200 - Natural White Pine	Poletimber Poor	27.7	64	1-50	N/A	Harvested by St John Logging under 32-030-16 AuTrain Fir Mix SBW.
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
White Pine	100	Log/Pole	12	64	Quaking Aspen	Medium	5 - 10 feet	Sapling
					Hazelnut (Beaked)	Low	< 5 feet	Tall Shrub
					White Spruce	Low	5 - 10 feet	Sapling
					White Pine	Low	< 5 feet	Sapling

22	4134 - Aspen, Spruce/Fir	Sapling Well	6.8	27	51-80	N/A	Sparse white pine and red maple poletimber. Red maple and black cherry saplings present.
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Quaking Aspen	60	Pole/Sapling	5	27	Balsam Fir	Medium	10 - 20 feet	Sapling
White Pine	5	Log/Pole	12					
Red Maple	5	Log/Pole	10					
Balsam Fir	30	Sapling/Pole	5					

23	4110 - Sugar Maple Association	Sapling Well	3.1	26	81-110	N/A	Elm saplings present.
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple	10	Sapling	4		Balsam Fir	Low	5 - 10 feet	Sapling
Black Cherry	10	Sapling	4					
Sugar Maple	75	Sapling/Pole	4	26				
Quaking Aspen	5	Sapling/Pole	5					

24	4110 - Sugar Maple Association	Sawtimber Well	137.4	105	81-110	N/A	
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Basswood	10	Log/Pole	12		Balsam Fir	Low	10 - 20 feet	Sapling
Black Cherry	5	Pole	8		Ironwood	Medium	10 - 20 feet	Sapling
White Spruce	2	Log/Pole	14		Sugar Maple	Medium	< 5 feet	Sapling
Yellow Birch	2	Log/Pole	12		Black Cherry	Low	10 - 20 feet	Sapling
Sugar Maple	71	Log/Pole	12	105				
Red Maple	10	Pole/Log	8					



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments		
25	4112 - Maple, Beech, Cherry Association	Poletimber Well	5.0	65	81-110	N/A	Straight maple boles. White spruce and hemlock are uncommon overstory associates. Harvested under 32-030-16 AuTrain Fir Mix SBW.		
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple		78	Pole/Log	8	65	Sugar Maple	High	< 5 feet	Seeding
White Pine		2	XLog/Log	24		Balsam Fir	Low	10 - 20 feet	Sapling
Black Cherry		5	Pole	8					
Sugar Maple		15	Log/Pole	16					
26	6120 - Lowland Cedar	Sapling Well	1.8	90	Unspecified	N/A	Cedar healthy and around 20 feet tall. very wet ground.		
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Northern White Cedar		90	Sapling/Pole	4	90	Tag Alder	Low	5 - 10 feet	Tall Shrub
Black Ash		10	Pole/Sapling	5					
27	4130 - Aspen	Sapling Well	13.0	16	51-80	N/A	Regeneration is adequate. Raspberry present. Red maple and ironwood saplings present. White pine poletimber found.		
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Red Maple		10	Sapling	2		Balsam Fir	Low	< 5 feet	Sapling
White Pine		4	Log/Pole	10	78	Black Cherry	Low	5 - 10 feet	Sapling
Balsam Fir		5	Sapling	2					
Quaking Aspen		77	Sapling	2	16				
Black Cherry		4	Sapling	2					
28	4112 - Maple, Beech, Cherry Association	Poletimber Well	60.4	88	81-110	N/A			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Sugar Maple		60	Pole/Log	8	88	Balsam Fir	Low	< 5 feet	Sapling
Red Maple		25	Pole/Log	8					
Basswood		10	Pole/Log	8					
Black Cherry		5	Pole	8					
29	4134 - Aspen, Spruce/Fir	Sapling Well	17.7	26	Unspecified	N/A	Some pools of water at south end of stand. Small patch of white pine, yellow birch and red maple saplings around this water.		
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Balsam Poplar		5	Sapling	3		Sugar Maple	Medium	5 - 10 feet	Sapling
Black Cherry		10	Sapling	3		Red Maple	Medium	5 - 10 feet	Sapling
Sugar Maple		15	Pole/Sapling	6		Balsam Fir	High	10 - 20 feet	Sapling
Quaking Aspen		50	Pole/Sapling	6	26				
Balsam Fir		20	Sapling/Pole	4					
30	4130 - Aspen	Sapling Well	10.5	27	Unspecified	N/A			
Canopy Species		% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Black Cherry		3	Pole/Sapling	6		Balsam Fir	Low	< 5 feet	Sapling
Quaking Aspen		95	Sapling/Pole	3	27				
White Pine		2	Log/Pole	12					



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments																																																	
31	4130 - Aspen	Sapling Well	18.4	16	Unspecified	N/A	Very good aspen stocking. Few white pine poles and sawlogs present.																																																	
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33	710 - Sand, Soil	Nonstocked	9.0		Unspecified	Managed Opening	Fringe of balsam poplar saplings and chokecherry. South end seasonally floods across forest road. This is an old state gravel pit.																																																	
34	42200 - Natural White Pine	Sawtimber Poor	29.6	80	1-50	N/A	Very good aspen regeneration. White pine have healthy crowns. White pine range from 10 to 16 inch Dbh. Retention patch left. Red maple saplings found. Aspen 1 to 2 inches Dbh.																																																	
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35	4112 - Maple, Beech, Cherry Association	Sawtimber Well	145.6	85	81-110	N/A	Red maple stump sprouts over 10 feet tall. Patches of heavy ironwood regeneration. Cedar and white spruce are uncommon overstory associates. Fir saplings found. Crown gaps common. High quality timber stand.																																																	
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36	4119 - Mixed Northern Hardwoods	Poletimber Well	17.4	82	51-80	N/A	Riparian corridor for Dexter Creek. Yellow birch, black cherry and basswood are overstory associates.																																																	
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Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
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37	4134 - Aspen, Spruce/Fir	Sapling Well	14.8	35	81-110	N/A	Good stocking levels. Sugar maple saplings found.
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Balsam Fir	10	Pole/Sapling	6		Balsam Fir	Medium	10 - 20 feet	Sapling
White Spruce	15	Pole	8		Black Cherry	Low	10 - 20 feet	Sapling
Quaking Aspen	70	Pole/Sapling	5	35	Sugar Maple	Low	< 5 feet	Sapling
Bigtooth Aspen	5	Sapling	4	35	White Spruce	Low	5 - 10 feet	Sapling

38	42340 - Upland Spruce/Fir	Sapling Well	6.7	46	171-200	N/A	Very dense stocking. Alternate leaved dogwood found.
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Sugar Maple	5	Log/Pole	10		Balsam Fir	Medium	5 - 10 feet	Sapling
Northern White Cedar	1	Pole/Sapling	6		Sugar Maple	Medium	10 - 20 feet	Sapling
Black Cherry	2	Pole/Sapling	6		Black Cherry	Medium	10 - 20 feet	Sapling
Quaking Aspen	20	Pole/Sapling	6					
Red Maple	5	Log/Pole	10					
White Spruce	20	Pole/Log	8					
Balsam Fir	47	Pole/Sapling	7	46				

40	42340 - Upland Spruce/Fir	Poletimber Poor	4.6	40	1-50	N/A	Former opening. Rough ground. Found white pine and aspen saplings. Sugar maple and trembling aspen poles present. Small patch of mature upland cedar within SE corner of stand.
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Balsam Fir	15	Pole/Sapling	8		Sugar Maple	Trace	< 5 feet	Sapling
White Spruce	45	Pole/Log	9	40	Hazelnut (Beaked)	Low	< 5 feet	Tall Shrub
Black Cherry	35	Sapling/Pole	4		White Spruce	Medium	5 - 10 feet	Sapling
Quaking Aspen	5	Pole/Sapling	5					

41	4110 - Sugar Maple Association	Poletimber Well	21.2	75	81-110	N/A	Many large canopy gaps with associated raspberry. Sparse leatherwood. Some fir and white spruce poles along south edge. Scares upland overstory cedar. Black cherry saplings found. Quality timber potential.
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Sugar Maple	87	Pole/Log	9	75	Ironwood	Low	5 - 10 feet	Sapling
Balsam Fir	2	Sapling/Pole	4		Black Cherry	Low	10 - 20 feet	Sapling
White Spruce	2	Pole/Sapling	7		Sugar Maple	Medium	>20 feet	Sapling
Black Cherry	4	Log/Pole	12					
Yellow Birch	2	Pole/Log	9					
Northern White Cedar	1	Pole/Log	8					
Basswood	2	Pole/Log	9					

42	4112 - Maple, Beech, Cherry Association	Sawtimber Well	1.8	75	81-110	N/A	Scattered aspen poles. This stand is steep down to the river.
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Sugar Maple	78	Log/Pole	16	75	Sugar Maple	Low	10 - 20 feet	Sapling
White Spruce	4	Pole	8		Black Cherry	Low	10 - 20 feet	Sapling
Red Maple	5	Log/Pole	12					
Quaking Aspen	5	Log/Pole	10					
Balsam Fir	8	Pole	8					



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	Managed Site	General Comments
46	6220 - Alder/willow	Nonstocked	0.5	0	Unspecified	No	Lowland excluded from surrounding sale.

47	4110 - Sugar Maple Association	Sawtimber Well	6.4	105	111-140	N/A	
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Canopy Species	% Cover	Size Class	DBH	Age	Sub-Canopy Species	Density	Avg. Height	Size
Black Cherry	5	Pole	8		Ironwood	Medium	10 - 20 feet	Sapling
Red Maple	10	Pole/Log	8		Sugar Maple	Medium	< 5 feet	Sapling
Yellow Birch	2	Log/Pole	12		Balsam Fir	Low	10 - 20 feet	Sapling
Basswood	10	Log/Pole	12		Black Cherry	Low	10 - 20 feet	Sapling
White Spruce	2	Log/Pole	14					
Sugar Maple	71	Log/Pole	12	105				